Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Bryn Power Limited

Gelliargwellt Farm Anaerobic Digester Facility
Gelliargwellt Farm
Gelligaer
Hengoed
CF82 8FY

Permit number

EPR/AB3092ZE

Gelliargwellt Farm Anaerobic Digester Facility
Permit number EPR/AB3092ZE

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

This permit allows the operator to carry out anaerobic digestion of wastes and the combustion of the resultant biogas. Permitted wastes are non-hazardous biodegradable wastes including those controlled by the Animal-By-Products Regulations (ABPR). Hazardous wastes are not permitted. The total permitted annual throughput is 45,000 tonnes a year.

Renewable energy is generated using the resultant biogas through three combined heat and power (CHP) engines (with net rated thermal inputs of 1.6MW and 1.4MW and 2.6MW, respectively). Liquid and solid residues are recovered to agricultural land as a biofertiliser.

The status log of the permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	**Date**	**Comments**
Application EPR/PB3590HA/A001	Duly made 11/09/2015	Application for an Anaerobic Digestion Facility.
Schedule 5 Notice request for information	07/10/2015	Request for detailed site plan
Response received	23/10/2015	Plan provided
Further information received	19/11/2015	Wording of amendments to Management Plan.
Further information received	04/12/2015	Confirmation D15 code be included in the AD permit and removed from the IVC permit.
EPR/AB3092ZE/A001	21/01/2016	Permit issued to Bryn Power Limited. Please note that due to an internal system change, the permit reference was updated from EPR/ PB3590HA to EPR/AB3092ZE prior to issue.
Variation Application EPR/AB3092ZE/V002 PAN-003431	Submitted 02/10/2018	Application to add CHP engine, vary emission limits, and change permit boundary.
Variation Application EPR/AB3092ZE/V002 withdrawn	07/12/2018	Application withdrawn by operator following dialogue with regulator.

Status log of the permit		
Description	**Date**	**Comments**
Variation Application PAN-005433 EPR/AB3092ZE/V003	Duly Made 14/11/2019	Application to add CHP engine, vary emission limits, and increase permitted area. Note: Application made 7th May 2019, but in agreement with operator, put on hold until part surrender PAN-007149 also submitted as inter-related.
Part Surrender Application PAN-007149 EPR/AB3092ZE/S004	Duly Made 17/10/2019	Part surrender application to remove three small land areas from permit.
Additional information requested PAN-007149	30/09/2019	Requested changes to site plan and clarification to site condition report.
Additional information requested PAN-005433	30/09/2019	Requested changes to application form, supporting technical information, and OPRA charging information.
Additional information received PAN-007149	17/10/2019	Revised site plan and site condition report
Additional information received PAN-005433	08/11/2019, 12/11/2019 and 14/11/2019	Revised Form A, Form C2, C3, F1, Site Plan, Site Condition Report and OPRA charging sheet. Submission of Non-Technical Summary and air dispersion modelling data files.
Schedule 5 Notice request for information PAN-005433	05/12/2019	Request for detailed information on measures taken to control engine VOC emissions, and various technical clarifications to information in application.
Part surrender determined EPR/AB3092ZE/S004	18/11/2019	Part surrender issued
Schedule 5 Response received PAN-005433	14/01/2020	Information provided in response to Schedule 5 Notice.
Variation EPR/AB3092ZE/V005	11/02/2020	
Variation Application PAN-011733	08/10/2020	NRW initiated variation for amendment to permit condition numbering and revised improvement condition deadline.
Variation EPR/AB3092ZE/V005	16/10/2020	Variation issued
Regulation 61 Notice sent to the Operator	04/04/2019	Issue of a Notice under Regulation 61(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for Waste Treatment.
Regulation 61 Notice response	03/12/2019	Response received from the operator.

Status log of the permit		
Description	**Date**	**Comments**
Additional information received	13/10/2020, 14/10/2020 and 03/03/2021	Response to Request for Information (RFI) dated 30/01/2020 and revised site emission point plan.
NRW Initiated Variation determined EPR/AB3092ZE/V006	10/06/2021	Varied and consolidated permit issued.
Variation Application received PAN-025512 (EPR/AB3092ZE/V007)	Duly Made 04/11/2025	Application to add new infrastructure and increase waste throughput
Schedule 5 Notice request for information PAN-025512	13/01/2026	More information in relation to the noise impact assessment.
Response received	29/04/2026	Revised noise impact assessment
Variation Determined EPR/AB3092ZE/V007	07/09/2026	Varied permit issued to Bryn Power Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number
EPR/AB3092ZE

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/AB3092ZE/V007 authorising,

Bryn Power Limited ("the operator"),

whose registered office is

Gelliargwellt Farm
Gelligaer
Hengoed
CF82 8FY

company registration number **07943843**

to operate an installation at

Gelliargwellt Farm Anaerobic Digester Facility
Gelliargwellt Farm
Gelligaer
Hengoed
CF82 8FY

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Holly Noble	**07/09/2026**

Authorised on behalf of Natural Resources Wales

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

(a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and

(b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

1.2.1 The operator shall:

(a) take appropriate measures to ensure that energy is used efficiently in the activities;

(b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and

(c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 The operator shall:

(a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;

(b) maintain records of raw materials and water used in the activities;

(c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

(d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 The operator shall take appropriate measures to ensure that:

(a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and

(b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

(c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.

(b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan , and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

2.3.2 Waste shall only be accepted if:

(a) it is of a type and quantity listed in schedule 2 table S2.1; and

(b) it conforms to the description in the documentation supplied by the producer and holder.

2.3.3 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:

(a) the nature of the process producing the waste;

(b) the composition of the waste;

(c) the handling requirements of the waste;

(d) the hazardous property associated with the waste, if applicable; and

(e) the waste code of the waste.

2.3.4 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.3.5 For the following activities referenced in schedule 1, table S1.1 AR5 the activities shall be operated using the techniques and, in the manner, described in schedule 1, table S1.2A.

2.4 Improvement programme

2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by Natural Resources Wales.

2.4.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales within 14 days of completion of each improvement.

2.5 Pre-operational conditions

2.5.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.

3.1.2 The limits given in schedule 3 shall not be exceeded.

3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.

3.2.2 The operator shall:

(a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;

(b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.4 Noise and vibration

3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

(a) if notified by Natural Resources Wales that the activities are giving rise topollution outside the site due to noise and vibration, submit to Natural Resources Wales for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;

(b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:

(a) point source emissions specified in tables S3.1 and S3.2;

(b) process monitoring specified in table S3.3; and

(c) bioaerosol monitoring specified in table S3.4.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by Natural Resources Wales.

3.5.5 For the following activities, referenced in schedule 1, table S1.1 AR5, monitoring shall not

take place during periods of start up and shut down.

3.5.6 For the following activities referenced in schedule 1, table S1.1 AR5, the first monitoring measurements shall be carried out:

For new MCP within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later.

3.6 Pests

3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.6.2 The operator shall:

(a) if notified by Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;

(b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

(a) be legible;

(b) be made as soon as reasonably practicable;

(c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and

(d) be retained, unless otherwise agreed in writing by Natural Resources Wales, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:

(i) off-site environmental effects; and

(ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by Natural Resources Wales.

4.1.3 For the following activities referenced in schedule 1, table S1.1 AR5, the operator shall maintain a record of the type and quantity of fuel used and the total annual hours of operation for each MCP and/or Specified Generator.

4.1.4 For the following activities referenced in schedule 1, table S1.1 AR5, the operator shall maintain a record of any events of non-compliance and the measures taken to ensure compliance is restored in the shortest possible time.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) each year. The report(s) shall include as a minimum:

(a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;

(b) the annual production /treatment data set out in schedule 4 table S4.2; and

(c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

(a) in respect of the parameters and emission points specified in schedule 4 table S4.1;

(b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4 ; and

(c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to Natural Resources Wales, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.2.5 Within 1 month of the end of each quarter, the operator shall submit to Natural Resources Wales using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

4.3.1 (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

(i) inform Natural Resources Wales,

(ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

(iii) take the measures necessary to prevent further possible incidents or accidents;

(b) in the event of a breach of any permit condition the operator must immediately—

(i) inform Natural Resources Wales, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(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, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1(a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.

4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

(a) any change in the operator's trading name, registered name or registered office address; and

(b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

(a) any change in the operator's name or address; and

(b) any steps taken with a view to the dissolution of the operator.

In any other case:

(a) the death of any of the named operators (where the operator consists of more than one named individual);

(b) any change in the operator's name(s) or address(es); and

(c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

(a) Natural Resources Wales shall be notified at least 14 days before making the change; and

(b) the notification shall contain a description of the proposed change in operation.

4.3.6 Natural Resources Wales shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “immediately”, in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
AR1	S5.4A(1)(b)(i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving one or more of the following activities: Biological Treatment	Anaerobic Digestion (with a capacity exceeding 100 tonnes per day) of permitted waste followed by burning of biogas produced from the process. R3: Recycling/reclamation of organic substances which are not used as solvents R13: Storage of waste pending any of the operations numbered R1 to R3 (excluding temporary storage, pending collection, on the site where it was produced)	Anaerobic Digestion of wastes including pasteurisation and chemical addition. Wastes as specified in table S2.1 Pre-treatment of waste including shredding, sorting, compaction, bailing, mixing and maceration. Gas storage and drying. Treatment of digestate including screening to remove plastic residues, centrifuge or pressing, addition of thickening agents (polymers) or drying. Use of pressure valves to protect the integrity of the plant. Such systems should not be used routinely to vent unburnt biogas. All food waste to be stored and treated indoors on an impermeable surface with sealed drainage, surrounded by a bund with a capacity of at least 110% of the largest vessel or 25% of the total tankage volume (whichever is highest). Digestate shall be stored within covered containers or covered lagoons and should be of a design and capacity fit for purpose. All biogas condensate shall be discharged into a sealed drainage system. From receipt of permitted waste through to its digestion and recovery of by-products from the installation.
		D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)	Relating to the D15 activity: -Segregated food waste only. Waste codes as in Table S2.1. -No more than 30 tonnes at any one time. -All segregated food waste to be bulked up ready for transfer off site for recovery (under the R13 code) or disposal under the D15. No mixing of segregated food waste with green waste prior to this operation.

Directly Associated Activity			
AR2	Biogas storage and supply system	Storage of biogas arising from the Anaerobic Digestion Plant	From receipt of gas into the holders to supply to the listed activity.
AR3	Emergency flare operation	Use of an auxiliary flare required only for periods of breakdown or maintenance of the CHP engines. D10: Incineration on land	From receipt of biogas to the release of combustion products from the flare stack.
AR4	R1: Burning of waste as a fuel	Combustion of biogas in two combined heat and power (CHP) engines.	From receipt of biogas produced on site to combustion via CHP engines with the release of combustion gases.

Medium Combustion Plant				
Activity Reference	**Activity listed in the EP Regulations**	**Description of Medium Combustion Plant**	**Fuel**	**Operating hours limit per year**
AR5	Schedule 25A – Medium Combustion Plant as detailed in Schedule 8	1 x 2.6 MW_{th} input CHP Serial Number:1682051	Biogas	From receipt of fuel to release of combustion products to air, operating hours not restricted

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Technical Guidance Note EPR 1: How to comply with your environmental permit	All	NA
Environmental Management System Document reference: BPL-EPA-2015-MSrevA	All	25/11/15
Odour management plan	All	19/01/17
Variation application and revised/further information provided	Form C1 and C2 and supporting information including details relating to engine and their emissions, air dispersion modelling and environmental management system.	07/05/19, 08/11/19, 12/11/19 and 14/11/19
Schedule 5 response	Details relating to engine maintenance, emissions control and minimisation	14/01/20
Response to regulation 61(1) Notice – request for information dated 04/04/2019 detailing how the Operator will comply with the BAT conclusions for Waste Treatment, under Directive 2010/75/EU of the European Parliament and of the Council	All	03/12/2019

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Additional information for regulation 61(1) Notice	Response to Request For Information (RFI) dated 30/01/2020 and revised site emission point plan.	13/10/2020, 14/10/2020 and 03/03/2021
Variation Application EPR/AB3092ZE/V007	Environmental Risk Assessment	16/09/2025
	Fugitive Emission Management Plan	17/10/2025
	Operating Techniques	
	Residue Management Plan	
	Noise and Vibration Management Plan	
	Odour Management Plan	
	Accident Management Plan	
	Management Systems	
	Non Technical Summary	19/04/2024
	Energy Efficiency and Management	19/04/2024
	Bioaerosol Monitoring Plan	19/04/2024
	Lagoon risk assessment	17/10/2025
Information submitted in response to Improvement Condition 10 (IC10)	Leak Detection and Repair (LDAR) Programme as agreed in writing with NRW in accordance with Improvement Condition 10	

Table S1.2A Operating techniques for Medium Combustion Plant as detailed in Schedule 8
Description
Each MCP must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this
The operator must keep periods of start-up and shut-down of each MCP as short as possible
There must be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	Following successful commissioning of the AD Plant, the Operator shall undertake noise monitoring at the four nearest local receptors. This shall include: • A full noise monitoring survey and assessment meeting the BS4142:2014 standard • 1/3rd octave and narrow band (FFT) measurements to identify any tonal elements or low frequency noise Upon completion of the work, a written report shall be submitted to Natural Resources Wales. The report shall make reference to the Environmental Noise Limits proposed in Section 5 of the Hunter Acoustics Environmental Noise Assessment Report – Ref 3781/Nia1_Rev1. If rating levels associated with the AD Plant are detected which are likely to cause adverse impact at sensitive receptors, the report shall include an assessment of the most suitable abatement techniques, an estimate of the cost and a proposed timetable for their installation.	Complete

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC2	The Operator shall increase the stack height of the emission points A1 and A5 (CHP engine exhausts) to at least 10m above ground level, as identified as necessary in their permit variation V003 air quality assessment (dated February 2019) to ensure sufficient dispersion of pollutants from these sources. The Operator should obtain any necessary permissions, consents etc necessary to undertake the work, which shall be completed as soon as possible, in any case within 6 months of permit variation V003 issue. In the event that a height extension is not possible for any reason, the Operator will need to identify and implement alternative options with at least equal emissions impact reduction. In this case the operator shall agree such options and a plan for their implementation in writing, with Natural Resources Wales, within the time allocated for IC2. IC2 was not completed within the completion time requirements of V003. A revised date of 31/12/2020 as agreed with Bryn Power on 16/09/2020 documented in Compliance Assessment Report CAR_NRW0036919 dated 23/09/2020.	Complete
IC3	The operator shall submit to Natural Resources Wales a written procedure(s) describing how they intend to meet the following BAT requirements in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018): BAT 1 vii. Following the development of cleaner technologies BAT 1 viii. Whole life cycle considerations when designing a new plant i.e. impacts from eventual decommissioning and throughout its operating life BAT 1 ix. Regular sectoral bench marking BAT 1 xi. The inventory of waste gas stream (and BAT 3) BAT 1 xii. Residues Management Plan BAT 1 xiv Odour Management Plan (update to existing) BAT 1 xv Noise and Vibration Management Plan	Complete
IC4	The operator shall submit to Natural Resources Wales a written procedure(s) in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018) in relation to: BAT 3 (i)(a) The existing process flow diagram requires updating to include the emissions sources (scrubber and biofilter serving the waste reception building, de-packing building, the carbon filters and the gas vents on the lagoon) BAT 3 (i)(b) the waste gas treatment description (scrubber and biofilters and carbon filtration systems) including performance information. BAT 3 (iii) establish an inventory of waste gas (scrubber and biofilter serving the waste reception building, de-packing building, the carbon filters and the gas vents on the lagoon) to collate the information in accordance with BAT Conclusion 3 of the Waste Treatment BREF Document (EU 2018), including but not limited to average concentrations and load values of relevant substances.	17 February 2022 or otherwise agreed in writing with Natural Resources Wales
IC5	The operator shall submit to Natural Resources Wales a written procedure(s) in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018) in relation to: BAT 21 a) protection measures (fire and explosion protection) BAT 21 b) management of incidental/accidental emissions BAT 21 c) incident/accident registration and assessment system.	Complete

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC6	The operator shall submit to Natural Resources Wales a written procedure(s) in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018) in relation to: BAT 23 a) an energy efficiency plan for monitoring and analysing performance against indicators. BAT 23 b) energy flow information in an energy balance record showing how the energy is used throughout the process.	Complete
IC7	The operator shall submit to Natural Resources Wales a written procedure(s) in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018) in relation to: BAT 33 ensure suitability of waste input	Complete
IC8	The Operator shall submit for written approval a methodology for meeting the process parameters listed in table S3.3 (Schedule 3(b)) as per BAT 38 for the anaerobic treatment of waste. The methodology shall identify each of the process parameters and detail the frequency and techniques in place to record the data. Where a process parameter cannot be monitored justification should be provided and/or a suitable alternative proposed. The methodology should include trigger levels for each of the parameters with associated procedures in place if trigger levels are exceeded.	Complete
IC9	The Operator shall submit a written report to Natural Resources Wales for approval detailing how the site will implement the latest version of 'Technical Guidance Note M9 Environmental monitoring of bioaerosols at regulated facilities dated July 2018 Version 2'. This assessment should specifically consider channelled emissions to air from the biofilter and the potential for bioaerosol releases. If your biofilter (open and closed biofilters) is within 250 metres of a sensitive receptor you are required to undertake and submit a site specific bioaerosol risk assessment (SSBRA) and any monitoring must be in line with 'M9: environmental monitoring of bioaerosols at regulated facilities'. The written report shall be submitted to Natural Resources Wales by 10 December 2021 and provide procedures and timelines for implementing the new methodology by 10 March 2022.	Complete
IC10	The Operator shall submit a written report to Natural Resources Wales for approval a Leak Detection and Repair (LDAR) programme covering: • Biogas containment (digesters, storage, pipework, valves, seals); and • Liquid feed systems (pipework, pumps, joints, reception tanks). The report must outline the programme for inspection frequency, detection methods, repair timescales, and record-keeping, and demonstrate compliance with permit requirements to prevent fugitive emissions and leaks.	07/03/2027 unless otherwise agreed in writing with Natural Resources Wales
IC11	The operator shall carry out the mitigation measures as confirmed in Section 8 of the Noise Impact Assessment document reference 6921/NIA1_Rev1 submitted to Natural Resources Wales on 29/04/2026	07/03/2027 unless otherwise agreed in writing with Natural Resources Wales

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC12	Following successful commissioning and establishment of routine steady operation of the CHP and anaerobic digestion plant, the Operator shall undertake noise monitoring at the nearest local receptors. This shall include: • A full noise monitoring survey and assessment meeting the BS4142:2014 standard; • 1/3rd octave and narrow band (FFT) measurements to identify any tonal elements or low frequency noise; and • Reference to the Welsh Government Noise and soundscape action plan 2018-2023. If the results of the assessment still indicate a significant adverse impact at receptors, further mitigation measures should be identified and put into place. Upon completion of the work, a written report shall be submitted to Natural Resources Wales for approval.	No more than 12 months from the date of commissioning of the CHP and anaerobic digestion plant, and following completion of IC11

Table S1.4 Pre-operational measures	
Reference	**Pre-operational measures**
POM1 (COMPLETE)	A finalised copy of the Environment Management System shall be submitted to Natural Resources Wales for written approval prior to operations commencing on site.
POM2 (COMPLETE)	Prior to the commencement of commissioning; the Operator shall provide a written commissioning plan, including timelines for completion, for approval by Natural Resources Wales The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the actions to be taken to protect the environment and report to Natural Resources Wales in the event that actual emissions exceed expected emissions. Commissioning shall be carried out in accordance with the commissioning plan as approved.
POM3 (COMPLETE)	Prior to commencement of operations the operator shall install the recommended noise attenuation measures as referenced in section seven of the Hunter Acoustics Environmental Noise Assessment Report – Ref 3781/Nia1_Rev1. This is to ensure that the installation operates within the proposed day time and night time environmental noise limits, at the four nearest sensitive receptors as specified in section 5 the report.
POM4	The operator shall not commence the new anaerobic digestion activity until they have submitted written confirmation to the regulator that the site is fully prepared for operation. This confirmation must demonstrate that: • All plant infrastructure (including digesters, storage tanks, gas handling systems, and associated equipment) has been installed and commissioned in accordance with approved design specifications. • Pollution prevention measures (such as secondary containment, drainage systems, and odour control) are in place and functional. • Confirmation that containment has been provided by a fully welded 2.00mm thick HDPE membrane laid below the site and extending up the perimeter bunds and wall such that the containment volume is achieved with an approximate freeboard of 400mm. • Safety systems (including emergency flare, methane detection and alarm systems, and fire prevention measures) are operational. • Management systems, staff training, and monitoring arrangements required by the permit are implemented. The regulator must confirm acceptance in writing before any waste is accepted or the activity begins

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for Gelliargwellt Farm Anaerobic Digester Facility	
Maximum quantity	The total quantity of waste accepted at the site for Anaerobic Digestion shall not exceed 45,000 tonnes per year.
Waste code	**Description**
02	**WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**
02 01	**wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing**
02 01 01	sludges from washing and cleaning
02 01 02	animal-tissue waste
02 01 03	plant-tissue waste
02 01 06	animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site
02 01 07	wastes from forestry
02 01 99	wastes not otherwise specified – *residues from commercial mushroom cultivation only.*
02 02	**wastes from the preparation and processing of meat, fish and other foods of animal origin**
02 02 01	sludges from washing and cleaning
02 02 02	animal-tissue waste
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
02 02 99	wastes not otherwise specified – *Sludges from gelatine production and animal gut contents only.*

Table S2.1 Permitted waste types and quantities for Gelliargwellt Farm Anaerobic Digester Facility	
Maximum quantity	The total quantity of waste accepted at the site for Anaerobic Digestion shall not exceed 45,000 tonnes per year.
Waste code	**Description**
02 03	**wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation**
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 04	materials unsuitable for consumption or processing
02 03 05	sludges from on-site effluent treatment
02 03 99	wastes not otherwise specified – *Sludge from production of edible fats and oils, tinning process residues, tobacco dust, veins and sludge, defective cigarette batches, residues from processing coffee, tea and cocoa, oilseed residues and Glycerol residue from biodiesel manufacture from non waste vegetable oils only.*
02 04	**wastes from sugar processing**
02 04 03	sludges from on-site effluent treatment
02 04 99	wastes not otherwise specified – *Biological sludge only.*
02 05	**wastes from the dairy products industry**
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site effluent treatment
02 06	**wastes from the baking and confectionery industry**
02 06 01	materials unsuitable for consumption or processing
02 06 03	sludges from on-site effluent treatment
02 07	**wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)**
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 04	materials unsuitable for consumption or processing
02 07 05	sludges from on-site effluent treatment

Table S2.1 Permitted waste types and quantities for Gelliargwellt Farm Anaerobic Digester Facility	
Maximum quantity	The total quantity of waste accepted at the site for Anaerobic Digestion shall not exceed 45,000 tonnes per year.
Waste code	**Description**
02 07 99	wastes not otherwise specified – *malt husks, sprouts and dust, spent sludge from breweries, sludge from wine production, yeast and yeast like residues only.*
03	**WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD**
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 02	green liquor sludge (from recovery of cooking liquor)
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
04	**WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES**
04 01	**wastes from the leather and fur industry**
04 01 01	fleshings and lime split wastes
04 01 05	tanning liquor free of chromium
04 01 07	sludges, in particular from on-site effluent treatment free of chromium
04 02	**wastes from the textile industry**
04 02 10	organic matter from natural products (for example grease, wax)
07	**WASTES FROM ORGANIC CHEMICAL PROCESSES**
07 01	**wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals**
07 01 08	other still bottoms and reaction residues – *Glycerol only*
15	**WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED**
15 01	**packaging (including separately collected municipal packaging waste)**
15 01 01	paper and cardboard packaging
15 01 02	plastic packaging – *biodegradable plastic packaging that must meet BS EN 13432 only*

Table S2.1 Permitted waste types and quantities for Gelliargwellt Farm Anaerobic Digester Facility	
Maximum quantity	The total quantity of waste accepted at the site for Anaerobic Digestion shall not exceed 45,000 tonnes per year.
Waste code	**Description**
15 01 03	wooden packaging
15 01 05	composite packaging
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 02	**wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09 – Glycerol only.
19 05	**wastes from aerobic treatment of solid wastes**
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 05 99	wastes not otherwise specified – *liquor /leachate from aerobic composting of municipal, animal and vegetable wastes only.*
19 06	**wastes from anaerobic treatment of waste**
19 06 03	liquor from anaerobic treatment of municipal waste
19 06 04	digestate from anaerobic treatment of municipal waste
19 06 05	liquor from anaerobic treatment of animal and vegetable waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste

Table S2.1 Permitted waste types and quantities for Gelliargwellt Farm Anaerobic Digester Facility	
Maximum quantity	The total quantity of waste accepted at the site for Anaerobic Digestion shall not exceed 45,000 tonnes per year.
Waste code	**Description**
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	**separately collected fractions (except 15 01)**
20 01 01	paper and cardboard
20 01 08	biodegradable kitchen and canteen waste
20 01 25	edible oil and fat
20 01 38	wood other than that mentioned in 20 01 37
20 02	**garden and park wastes (including cemetery waste)**
20 02 01	biodegradable waste
20 03	**other municipal wastes**
20 03 01	mixed municipal waste
20 03 02	waste from markets

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 CHP Exhaust (Jenbacher Engine) Note1	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	CHP1	500mg/m^3	Hourly mean	Annually	BS EN 14792
	Carbon Monoxide		1400mg/m^3			BS EN 15058
	Sulphur Dioxide		350mg/m^3			BS EN 14791
	VOC's		2000mg/m^3			BS EN 12619
A2 Flare Stack Note1, 2	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	Emergency Flare	No limit set	Hourly mean	Annually	BS EN 14792
	Carbon Monoxide					BS EN 15058
	Total Volatile Organic Compounds (VOCs)					BS EN 12619
A3 Pressure relief valves	No parameters set	Digesting tank, Biogas holder	No limit set	-	-	-
A4 Boiler Exhaust	No parameters set	Boiler	No limit set	-	-	Permanent sampling access not required
A5 CHP Exhaust (Edina Engine) Note1	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	CHP2	500mg/m^3	Hourly mean	Annually	BS EN 14792
	Carbon Monoxide		1400mg/m^3			BS EN 15058
	Sulphur Dioxide		350mg/m^3			BS EN 14791
	VOC's		2000mg/m^3			BS EN 12619

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
A6 Carbon filter on the processing liquid tank	Ammonia (NH_3)	Carbon filter	20 mg/Nm^3	-	Every 6 months	EN ISO 21877
	Hydrogen sulphide (H_2S)		No limit set	-	Every 6 months	US EPA Method 11 (Impinger method) or CEN TS 13649 (Charcoal tube), US EPA Method 15
A7 Biofilter serving the waste reception building	Ammonia (NH_3)	Biofilter	20 mg/Nm^3	-	Every 6 months	EN ISO 21877
	Hydrogen sulphide (H_2S)		No limit set	-	Every 6 months	US EPA Method 11 (Impinger method) or CEN TS 13649 (Charcoal tube), US EPA Method 15
A8 Cattle slurry tank vent	No parameters set	Tank vent	No limit set	-	-	-
A9 Covered digestate lagoon vents	Ammonia (NH_3)	Digestate lagoon vents	20 mg/Nm^3	-	Every 6 months	EN ISO 21877
	Hydrogen sulphide (H_2S)		No limit set	-	Every 6 months	US EPA Method 11 (Impinger method) or CEN TS 13649 (Charcoal tube), US EPA Method 15
A10 CHP Exhaust (Jenbacher Engine) Note 3	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	CHP3	190mg/m^3	Hourly mean	Annually	BS EN 14792
	Carbon Monoxide		No limit set			BS EN 15058
	Sulphur Dioxide		40mg/m^3			BS EN 14791

Note 1: The measurement uncertainty specified in LFTGN08 v2 2010 shall apply

Note 2: Monitoring of flare emissions is only necessary when the flare operated in excess of 10% of the time
Note 3: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O_2 content of 6% for solid fuels, 15 % for engines and gas turbines and 3 % all other MCPs

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on site plan in schedule 7 emission to soakaway	Uncontaminated surface water	Visual check	–	Spot sample	Before discharge	None specified
		Ammonia	0.5 ppm	Spot sample	Before discharge	None specified

Table S3.3 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Digestate feed	pH	To be agreed with NRW	To be agreed with NRW	Subject to approved methodology in improvement condition IC8 and as agreed with NRW
	Alkalinity			
	Hydraulic and organic loading rates			
Digester	Operating temperature			
	Liquid and foam levels			
	Concentration of ammonia			
	Concentration of VFAs			
	Alkalinity			
	FOS/TAC ratio (VFA/TA)			
	pH			
Digestate	Concentration of VFAs			
	Ammonia			
Biogas from digesters	Flow			
	Quantity			

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
	Pressure			
	Composition			
	Methane			
	Hydrogen Sulphide			
	Carbon Dioxide			
Biofilter	Temperature	To be agreed with NRW	Temperature Probe	Biofilter shall be regularly checked and maintained to ensure appropriate temperature and moisture content
	Moisture		None Specified	
	Thatching / compaction		None Specified	
Biogas from digesting tank, biogas holder, waste reception building and external storage areas	Odour	Daily	Olfactory Monitoring	Odour detection at the site boundary
Bund sump and storm water inspection chambers	Oil/grease and ammonia no >0.5 ppm	Periodically	Instantaneous ammonia reading	-

Note 1: There is no requirement to report process monitoring data. The information shall be made available at the installation for inspection

Table S3.4 Bioaerosol monitoring requirements					
Location or description of point of measurement	**Parameter**	**Bioaerosol threshold limits CFU m^{-3}**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Bioaerosols shall be monitored: - upwind of the site and - downwind of the site;	Total bacteria	1000	Quarterly unless otherwise agreed with NRW		Monitoring requirements to be agreed within NRW subject to completion of IC9

Table S3.4 Bioaerosol monitoring requirements					
Location or description of point of measurement	**Parameter**	**Bioaerosol threshold limits CFU m^{-3}**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
in accordance with" M9 – Technical Guidance Note (Monitoring) – Environmental monitoring of bioaerosols at regulated facilities, 2018 Version 2".	Aspergillus Fumigatus	500		In accordance with "M9 – Technical Guidance Note (Monitoring) – Environmental monitoring of bioaerosols at regulated facilities, 2018 Version 2" together with the Environment Agency's "Guidance on the evaluation of bioaerosol risk assessments for composting facilities	

Schedule 4 Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	**Emission or monitoring point/reference**	**Reporting period**	**Period begins**
Emissions to air parameters as required by condition 3.5.1	A1 CHP Exhaust, A5 CHP Exhaust and A2 Flare Stack	Annually	1 January
	A6, A7, A8 A9	Annually	18/08/2022
Emissions to water. Parameters as required by condition 3.5.1	W1	Every 12 months	1 January
Emissions to air parameters as required by condition 3.5.1	A10 CHP Exhaust	Annually	07/09/2026

Table S4.2: Annual production/treatment	
Parameter	**Units**
Biogas produced by AD facility	m^3
Total amount of waste treated	tonnes

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Power output – Electricity	Annually	MWh
Energy efficiency	Annually	MWh/m^3 biogas
Electrical energy exported to the grid	Annually	MWh
Electrical energy drawn from the grid	Annually	MWh
Water usage	Annually	m^3
Operational time of emergency flare	Annually	% of operational time
Amount of biogas sent to emergency flare	Annually	m^3
Amount of biogas combusted in the CHP unit per day	Annually	m^3/day
Generation of residues	Annually – starting 17 August 2022	Tonnes/m^3
Generation of waste water	Annually – starting 17 August 2022	m^3
Total raw material used	Annually – starting 17 August 2022	Tonnes

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Water discharge	Form Water 1 or other form as agreed in writing by Natural Resources Wales	11/02/20
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	10/06/21
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	10/06/21
Waste Subject to Conditions 4.2.5	Waste tonnage return form from the Natural Resources Wales website or other form as agreed in writing by Natural Resources Wales	N/A
Bioaerosol monitoring	As specified in the" M9 – Technical Guidance Note (Monitoring) – Environmental monitoring of bioaerosols at regulated facilities, 2018 Version 2" or as agreed in writing by Natural Resources Wales	N/A
Air	Form Air 1 or other form as agreed in writing by Natural Resources Wales	07/09/26
Performance indicators	Form Performance 1 or other form as agreed in writing by Natural Resources Wales	17/08/22

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/AB3092ZE**
Name of operator	**Bryn Power Limited**
Location of Facility	**Gelliargwellt Farm (AD Facility)**
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 within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a permit condition	
To be notified within 24 hours of detection unless otherwise specified below	
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 within 24 hours of detection	
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.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
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*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

"accident" means an accident that may result in pollution.

"Annex I" means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"Annex II" means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"application" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

"authorised officer" means any person authorised by Natural Resources Wales under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

"background concentration" means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

"best available treatment, recovery and recycling techniques" shall have the meaning given to it in the document published jointly by the Department for Environment, Food and Rural Affairs, the Welsh Assembly Government and the Scottish Executive on 27th November 2006, entitled "Guidance on Best Available Treatment, Recovery and Recycling Techniques (BATRRT) and Treatment of Waste Electrical and Electronic Equipment (WEEE).

"Bioaerosol Threshold Limits" means the maximum acceptable bioaerosol concentrations at the nearest sensitive receptor, or at an equivalent distance downwind of the composting operations, which are attributable to the composting operations. The maximum acceptable concentrations are respectively 1000 and 500 CFU m-3 for total bacteria and *Aspergillus fumigatus*.

"building" means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

*"disposal" or "D" m*eans any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"emissions to land" includes emissions to groundwater.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"emissions of substances not controlled by emission limits" means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit**.**

"existing MCP" means an MCP first put into operation before 20/12/2018

"groundwater" means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

"hazardous property" has the meaning in Annex lll of the Waste Framework Directive

"hazardous waste" has the meaning given in the Hazardous Waste (Wales) Regulations 2005 (as amended)

"hazardous substance" means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

"Industrial Emissions Directive" means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"*Medium Combustion Plant*" or "*MCP*" means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

"Medium Combustion Plant Directive" or "MCPD" means Directive 2015/2193/EU of the European Parliament and of the Council of the limitation of emissions of certain pollutants into the air from medium combustion plants

"new MCP" means an MCP first put into operation on or after 20/12/2018.

"Pests" means Birds, Vermin and Insects.

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"recovery" or "R" means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"*residue*" means the solid waste generated by the waste treatment activity and is not directly related to the type of waste treated in the plant

"Waste code" means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the 'List of Wastes Decision') and in relation to hazardous waste, includes the asterisk.

"Waste Framework Directive" or *"WFD"* means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

"*Waste Treatment BAT Conclusions*" means the BAT Conclusions for the Waste Treatment sector published as a Commission Implementing Decision EU 2018/1447 in the Official Journal of the EU on 17 August 2018

"*year*" means calendar year ending 31 December.

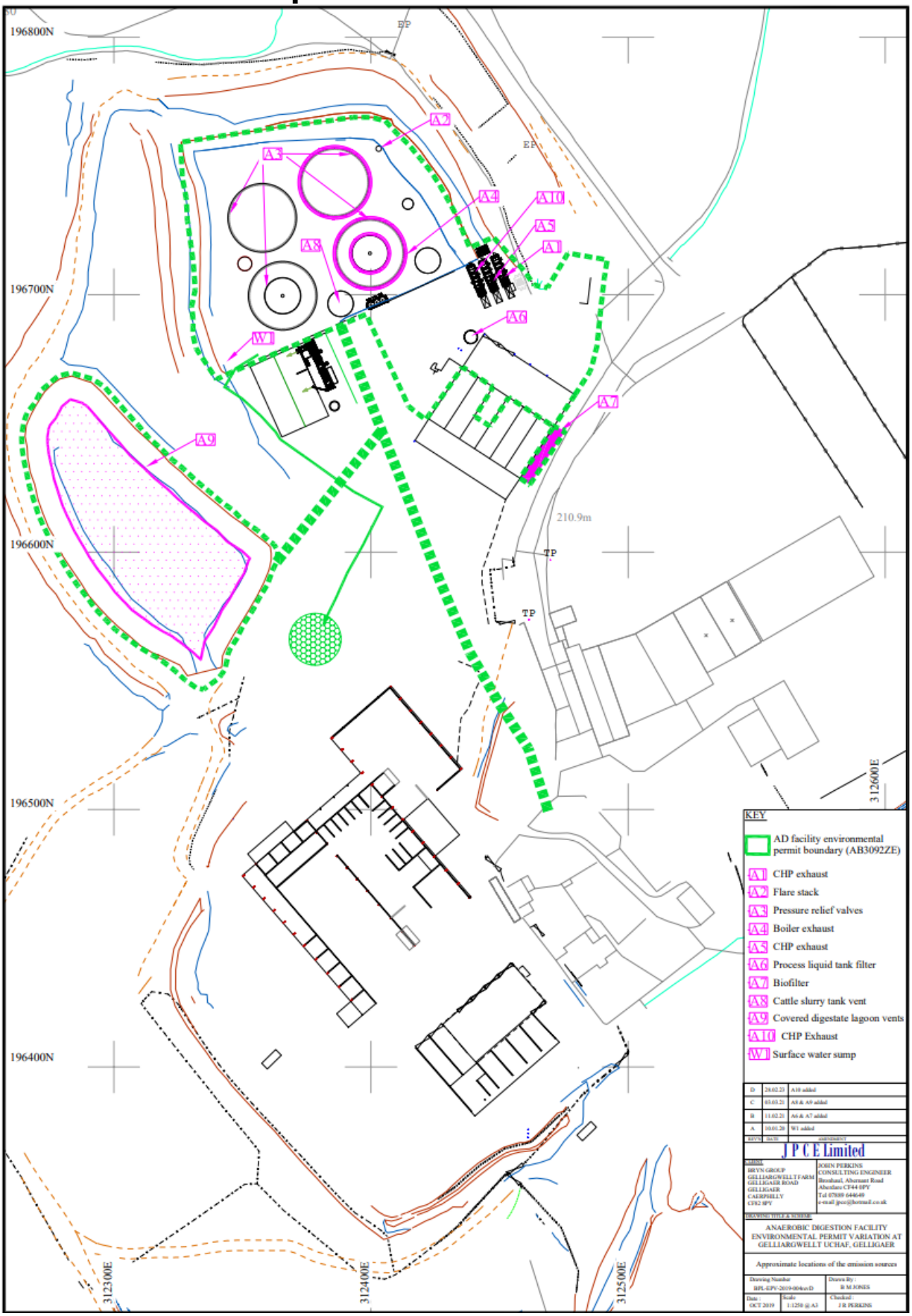
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

(a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

(b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Schedule 7 - Site plan



© Crown Copyright and database right 2026. Ordnance Survey licence number 100019741.

Schedule 8 - Annex I of MCPD

1. Rated thermal input (MW) of the medium combustion plant.	2.6MW Genset-Container JGC 320 GS-B.L Serial Number:1682051
2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant).	Other Medium Combustion Plant
3. Type and share of fuels used according to the fuel categories laid down in Annex II.	Biogas (100%)
4. Date of the start of the operation of the medium combustion plant or, where the exact date of the start of the operation is unknown, proof of the fact that the operation started before 20 December 2018.	New MCP
5. Sector of activity of the medium combustion plant or the facility in which it is applied (NACE code.	D35.1.1
6. Expected number of annual operating hours of the medium combustion plant and average load in use.	8000 50%
7. Where the option of exemption under Article 6(3) or Article 6(8) is used, a declaration signed by the operator that the medium combustion plant will not be operated more than the number of hours referred to in those paragraphs.	N/A
8. Name and registered office of the operator and, in the case of stationary medium combustion plants, the address where the plant is located.	Registered Office Bryn Power Limited Gelliargwellt Farm Gelligaer Hengoed CF82 8FY Plant located at Bryn Power Limited Gelliargwellt Farm Gelligaer Hengoed CF82 8FY

END OF PERMIT