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Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

GP Biotec Ltd

**Great Porthamel Anaerobic Digestion
Plant
Talgarth
Brecon
Powys
LD3 0DL**

Permit number

EPR/AB3233DW

Great Porthamel Anaerobic Digestion Plant

Permit number EPR/AB3233DW

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) and the site also grows its own energy crops. Hazardous wastes are not permitted. The total permitted annual throughput is 75,000 tonnes a year.

Renewable energy is generated using the resultant biogas through two combined heat and power engines (CHP) with the liquid and solid intended for recovery 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 received EPR/AB3233DW/A001	Duly made 04/07/11	Application for an Anaerobic Digestion facility
Additional information received	26/10/11, 11/11/11 & 15/12/11	Schedule 5 Responses & revised OMP
Permit determined	12/03/12	Permit issued to GP Biotech Ltd
Natural Resources Wales initiated variation started EPR/AB3233DW/V002	08/07/13	Variation to amend infrastructure requirements.
Variation determined EPR/AB3233DW	25/07/13	Regulator led variation issued.
Variation Application EPR/AB3233DW/V003 (Variation and Consolidation)	Duly Made 26/09/14	Variation and consolidation to include a listed activity following the implementation of the Industrial Emissions Directive
Variation Application EPR/AB3233DW/V003 determined	06/07/15	Varied and consolidated permit issued in modern condition format.
Variation Application PAN-000069	Duly made 16/11/15	Variation and consolidation to increase the amount of animal waste that can be accepted to site.
Variation Application determined PAN-000069 EPR/AB3233DW/V004	12/02/16	Varied and consolidated permit issued.

Status log of the permit		
Description	Date	Comments
Notification of variation received EPR/AB3233DW/V005	Duly Made 04/08/17	The addition to the existing permit of European Waste Code 02 02 99 input type to Permitted Waste Types table.
Variation Application EPR/AB3233DW/V005 Determined	25/09/17	Variation complete with incorporated new Waste Code 02 02 99
Variation Application PAN-005716 EPR/AB3233DW/V006 (Variation and Consolidation)	Duly made 21/10/19	Variation and consolidation to increase the site capacity from 55,000 TPA to 75,000 TPA and various other minor site changes
Additional information requested PAN-005716	07/10/19	
Additional information received PAN-005716	16/10/19, 18/10/19	Revised non-technical summary, Site Plan, Environmental Risk Assessment and OPRA charging spreadsheet
Sch 5 Notice EPR/AB3233DW/V006	06/11/19	Notice requiring further information
Sch 5 response EPR/AB3233DW/V006	12/11/19	Including description of measures to protect ground and groundwater, and assessment of impacts on protected habitats
Variation Application PAN-005716 EPR/AB3233DW/V006 Determined	30/01/20	Variation complete increasing site capacity from 55,000 TPA to 75,000 TPA and various other minor site changes
Regulation 61 Notice sent to the Operator	04/04/20	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	18/09/19	Response received from the operator.
Additional information received	06/02/20	Further information received from the operator.
Additional information received	12/02/20	Further information received from the operator.
Additional information received	10/08/20	Further information received from the operator.
Additional information received	01/09/20	Further information received from the operator
NRW Initiated Variation determined EPR/AB3233DW/V007	09/02/21	Varied and consolidated permit issued.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

EPR/AB3233DW

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/AB3233DW/V007 authorising,

GP Biotec Ltd (“the operator”),

whose registered office is

Great Porthamel

Talgarth

Brecon

Powys

LD3 0DL

company registration number **06512575**

to operate an installation at

Great Porthamel Anaerobic Digestion Plant

Talgarth

Brecon

Powys

LD3 0DL

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

Name	Date
Holly Noble	09/02/2021

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 red 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 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.3 Waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.4 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.

2.3.5 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.

2.4 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.

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 to pollution 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 schedules 3 to this permit:
- (a) point source emissions specified in tables S3.1, S3.2;
 - (b) process monitoring specified in table S3.3.
- 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, S3.2 unless otherwise agreed in writing by Natural Resources Wales.

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 an 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.

4.2 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
A1	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. R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes). R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it was produced). D9: Physico-chemical treatment which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (e.g. evaporation, drying, calcinations etc).	All storage tanks and chambers will be sealed. The digester and waste tanks shall be located on an impermeable surface with sealed drainage with engineered bund(s) with the capacity to contain 110% of the largest volume tank and 25% of the combined volume of all the tanks in the bund in case of spillage. The containment area shall be regularly inspected. Foul water will be discharged via a sealed drainage system to a holding tank and used in the digestion process. Anaerobic Digestion of wastes including pasteurisation and chemical addition. Wastes as specified in table S2.2. Pre-treatment of waste including shredding, sorting, compaction, bailing, mixing and maceration Gas cleaning by biological or chemical scrubbing and upgrading to biomethane.

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
			Gas storage and drying. Treatment of digestate including screening to remove plastic residues, centrifuge or pressing, addition of thickening agents (polymers) or drying. The maximum throughput of animal waste ^{Note 1} shall be 30 tonnes per day. The total quantity of waste accepted at the site shall be less than 75,000 tonnes a year. 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 indoors and treated on an impermeable surface with sealed drainage, surrounded by a bund with a capacity of at least 110% of the largest vessel and 25% of the total tankage volume. 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.
Directly Associated Activity			
A2	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
A3	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.

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
A4	R1: Burning of waste as a fuel Combustion of biogas in two combined heat and power (CHP) engines. The thermal input rate of each is 2.76 MWth (CHP1) and 3.36 MWth (CHP2).	From receipt of biogas produced on site to combustion via a CHP engine with the release of combustion gases.	

Note 1: Animal Waste is defined in Schedule 6 of this permit.

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	Supporting information SOL0311GP01_1 Dated June 11: - Section 4.1.5 Accidents and Emergencies	17/06/11
	Odour management plan reference OMP	15/12/11
	Hazard Analysis & Critical Control Points – ref: GP-HACCP	17/06/11
Additional information	Schedule 5 Responses	26/10/11 & 11/11/11
Application	SOL0614GP02 dated September 2014	29/09/14
Application	Part C2	16/11/15
Variation Application PAN-005716	Application Form Part C2 and C3	21/06/19
Additional Information	Updated Odour Management Plan dated August 2019	01/08/19
Additional information	Non-technical summary, site plan and environmental risk assessment	16/10/19
Additional information	Schedule 5 response including measures for ground & groundwater protection, and techniques to ensure discharge of uncontaminated surface water only	12/11/19
Response to regulation 61(1) Notice – request for information dated 04/04/2019	All parts	18/09/19
Additional information for regulation 61(1) Notice	All parts	06/02/20
Additional information for regulation 61(1) Notice	All parts	12/02/20
Additional information for regulation 61(1) Notice	All parts	10/08/20
Additional information for regulation 61(1) Notice	All parts	01/09/20

Table S1.2 Operating techniques

Description	Parts	Date Received
Updated Odour Management Plan in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018)	All parts	In line with IC3
Agreed written methodology for meeting the process parameters listed in table S3.3	All relevant section	In line with IC8

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC1	The operator shall submit evidence of ISO 14001:2015 certification to Natural Resources Wales. 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 ii. Planning and implementing procedures, objectives & targets in conjunction with financial planning & investment BAT 1 iv. i) Safeguarding compliance with environmental legislation (e.g. legal register reviews) BAT 1 vii. Following the development of cleaner technologies BAT 1 xi. The inventory of waste gas stream (and BAT 3) 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 xii. Residues Management Plan	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales
IC2	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) Update existing process flow diagram to include the activated carbon filtration system outlet (which serves the blood storage tanks and ABP hopper) as an emission source (BAT 3 (i)(a)). iii) establish an inventory of waste gas (for the waste gas from the blood storage tanks and ABP hopper to be treated by the activated carbon filtration system) to collate the information in accordance with BAT3, including but not limited to average concentrations and load values of relevant substances.	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales
IC3	The operator shall submit to Natural Resources Wales an updated Odour Management Plan in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018) in relation to: BAT 10 - monitoring to an EN standard (either dynamic olfactometry according to EN 13725 in order to determine the odour concentration or EN 16841-1 or -2 in order to determine the odour exposure) will be carried out in the event of a substantiated odour incident.	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC4	The operator shall submit to Natural Resources Wales a report assessing the gas recovery system capacity to ensure sufficient capacity in line with BAT 15(a), correct plant design. It is noted that treatment capacity at the site has increased (V006) and as such the capacity of the gas recovery system should be re-assessed to ensure it is still fit for purpose.	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales
IC5	The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 19 requiring the use of one or a combination of techniques: BAT 19 c) impermeable surface (information on how the site complies with CIRIA 736 or an equivalent engineering standard to which the surface complies together with sign off from construction by a Certified Quality Auditor) in accordance with requirements specified within BAT Conclusion 19 of the Waste Treatment BAT Conclusions (EU 2018).	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales
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.	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales
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 In order to reduce odour emissions and to improve the overall environmental performance, BAT is to select the waste input. The technique consists of carrying out the pre-acceptance, acceptance and sorting of the waste input (see BAT 2) so as to ensure the suitability of the waste input for the waste treatment, e.g. in terms of nutrient balance, moisture or toxic compounds which may reduce the biological activity.	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales
IC8	The Operator shall submit for written approval a methodology for meeting the process parameters listed in table S3.3 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 can not 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.	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels

Raw materials and fuel description	Specification
Anaerobic Digester Feedstock sourced from land farmed and managed by the owners/partners of Great Porthamel Farm.	-

Table S2.2 Permitted waste types and quantities for anaerobic digestion

Maximum quantity	No more than 75,000 tonnes per year of waste to be accepted and processed No more than 30 tonnes per day of animal waste ^{Note 1} to be accepted and processed
Waste code	Description
02	WASTES FROM AGRICULTURAL, HORTICULTURAL, HUNTING, FISHING AND AQUACULTURAL PRIMARY PRODUCTION, 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 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	<i>Wastes not otherwise specified – [Lairage waste - soiled animal bedding]</i>
02 03	Wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee 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 04	Wastes from sugar processing
02 04 01	Soil from cleaning and washing beet
02 04 03	Sludges from on-site effluent treatment
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

Table S2.2 Permitted waste types and quantities for anaerobic digestion

Maximum quantity	No more than 75,000 tonnes per year of waste to be accepted and processed No more than 30 tonnes per day of animal waste ^{Note 1} to be accepted and processed
Waste code	Description
02 07 05	Sludges from on-site effluent treatment
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 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 08	Wastes from waste water treatment plants not otherwise specified
19 08 01	Screenings
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 08	Biodegradable kitchen and canteen waste
20 01 25	Edible oil and fat
20 02	Garden and park wastes (including cemetery waste)
20 02 01	Biodegradable waste
20 03	Other municipal wastes
20 03 02	Waste from markets

Schedule 3(a) – Emissions and monitoring effective until 16th August 2022

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

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Point A1 on site plan in Schedule 7 Stack 1 on combined heat and power engine	Combined heat and power engine (CHP)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly Mean	Annually	BS EN 14792 ¹
		Carbon Monoxide (CO)	1400 mg/m ³			BS EN 15058 ¹
		Sulphur Dioxide (SO ₂)	350 mg/m ³			BS EN 14791 ¹
		Total Volatile Organic Compounds (TVOCs) (as carbon)	1000 mg/m ³			BS EN 12619 ¹
Point A2 on site plan in Schedule 7 Stack 2 on combined heat and power engine	Combined heat and power engine (CHP)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly Mean	Annually	BS EN 14792 ¹
		Carbon Monoxide (CO)	1400 mg/m ³			BS EN 15058 ¹
		Sulphur Dioxide	350 mg/m ³			BS EN 14791 ¹
		Total Volatile Organic Compounds (TVOCs) (as carbon)	1000 mg/m ³			BS EN 12619 ¹
Point A3 on site plan in schedule 7 Flare	Waste gas burner (emergency flare stack)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	Periodic (average over one hour)	Annually ²	BS EN 14792 ¹
		Carbon Monoxide (CO)				BS EN 15058 ¹
		Total Volatile Organic Compounds (TVOCs) (as carbon)				BS EN 12619 ¹
Point A6 on site plan in schedule 7 Activated carbon filtration outlet	Liquid Waste Tank in Reception Area Activated carbon filtration system	Ammonia	No limit set	None specified		
		Hydrogen Sulphide	No limit set	None specified		

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

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Point PRV1 on site plan in schedule 7	Digestate tank 1	No paramters set	No limits set	None specified	-	-
Pressure relief valve 1						
Point PRV2 on site plan in schedule 7	Digestate tank 2	No paramters set	No limits set	None specified	-	-
Pressure relief valve 2						
Point PRV3 on site plan in schedule 7	Digestate tank 3	No paramters set	No limits set	None specified	-	-
Pressure relief valve 3						
Point PRV4 on site plan in schedule 7	Digestate tank 4	No paramters set	No limits set	None specified	-	-
Pressure relief valve 4						

Note 1: Certification to the MCERTS performance standards indicates compliance.

Note 2: Monitoring to be undertaken in the event the emergency flare has been operational for over 10 % of the year, equating to 876 hours per year.

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 (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
	Uncontaminated surface water	Oil and grease	Clear – no visible contamination	Spot sample	Before discharge	None specified

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 (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on site plan in schedule 7 discharging via pipeline to River Llynfi		Ammonia	0.5 ppm	Spot sample	Before discharge	None specified
		pH	5.6 - 8	Spot sample	Before discharge	None specified
W2 on site plan in schedule 7 discharge via pipeline to River Llynfi	Uncontaminated surface water from parking and turning area	Oil and grease	Clear – no visible contamination	Spot sample	Weekly or as agreed in writing with Natural Resources Wales	Visual check

Schedule 3(b) – Emissions and monitoring effective from 17th August 2022

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Point A1 on site plan in Schedule 7 Stack 1 on combined heat and power engine	Combined heat and power engine (CHP)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly Mean	Annually	BS EN 14792 ¹
		Carbon Monoxide (CO)	1400 mg/m ³			BS EN 15058 ¹
		Sulphur Dioxide (SO ₂)	350 mg/m ³			BS EN 14791 ¹
		Total Volatile Organic Compounds (TVOCs) (as carbon)	1000 mg/m ³			BS EN 12619 ¹
Point A2 on site plan in Schedule 7 Stack 2 on combined heat and power engine	Combined heat and power engine (CHP)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly Mean	Annually	BS EN 14792 ¹
		Carbon Monoxide (CO)	1400 mg/m ³			BS EN 15058 ¹
		Sulphur Dioxide (SO ₂)	350 mg/m ³			BS EN 14791 ¹
		Total Volatile Organic Compounds (TVOCs) (as carbon)	1000 mg/m ³			BS EN 12619 ¹
Point A3 on site plan in schedule 7 Flare	Waste gas burner (emergency flare stack)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	Periodic (average over one hour)	Annually ²	BS EN 14792 ¹
		Carbon Monoxide (CO)				BS EN 15058 ¹
		Total Volatile Organic Compounds (TVOCs) (as carbon)				BS EN 12619 ¹
Point A6 on site plan in schedule 7 Activated carbon filtration outlet	Liquid Waste Tank in Reception Area Activated carbon filtration system	Ammonia	20 mg/m ³	None specified	Once every six months	EN ISO 21877
		Hydrogen Sulphide	No limit set			US EPA Method 11 (Impinger method), and CEN TS 13649 (Charcoal tube), US EPA Method 15

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

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Point PRV1 on site plan in schedule 7	Digestate tank 1	No paramters set	No limits set	None specified	-	-
Pressure relief valve 1						
Point PRV2 on site plan in schedule 7	Digestate tank 2	No paramters set	No limits set	None specified	-	-
Pressure relief valve 2						
Point PRV3 on site plan in schedule 7	Digestate tank 3	No paramters set	No limits set	None specified	-	-
Pressure relief valve 3						
Point PRV4 on site plan in schedule 7	Digestate tank 4	No paramters set	No limits set	None specified	-	-
Pressure relief valve 4						

Note 1: certification to the MCERTS performance standards indicates compliance.

Note 2: Monitoring to be undertaken in the event the emergency flare has been operational for over 10 % of the year, equating to 876 hours per year.

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 (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
	Uncontaminated surface water	Oil and grease	Clear – no visible contamination	Spot sample	Before discharge	Visual check

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 (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on site plan in schedule 7 discharging via pipeline to River Llynfi		Ammonia	0.5 ppm	Spot sample	Before discharge	None specified
		pH	5.6 - 8	Spot sample	Before discharge	None specified
W2 on site plan in schedule 7 discharge via pipeline to River Llynfi	Uncontaminated surface water from parking and turning area	Oil and grease	Clear – no visible contamination	Spot sample	Weekly or as agreed in writing with Natural Resources Wales	Visual check

Table S3.3 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter ^{Note 1}	Monitoring frequency	Monitoring standard or method	Other specifications
Digester 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 volatile fatty acids (VFA)			
	Alkalinity			
	FOS/TAC ration (VFA/TA)			
Digestate	pH			
	Concentration of VFAs			
	Ammonia			
Biogas from digesters	Flow			
	Quantity			
	Pressure			
	Composition			
	Methane			
	Hydrogen Sulphide			
	Carbon Dioxide			
A record of all biogas releases from the digestate tank pressure relief valves (PRV: 1,2,3 or 4) in excess of 5 seconds, duration thereof and reason for the release shall be maintained.		Quarterly	-	-

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

Schedule 4 (a) – Reporting until 16th August 2022

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, A2, A3, A6	Every 12 months	1 January
Emissions to water. Parameters as required by condition 3.5.1	W1 and W2	Every 12 months	1 January

Table S4.2: Annual production/treatment

Parameter	Units
Waste treated (total)	Tonnes
Animal Waste treated	Tonnes
Biogas produced by AD facility	m ³

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	tonnes
Operational time of emergency flare	Annually	% of operational time
Amount of gas to flare	Annually	m ³
Amount of biogas combusted in the CHP unit per day	Annually	m ³ /day

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	30/01/2020
Water discharge	Form water 1 or other form as agreed in writing by Natural Resources Wales	09/02/2021
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	09/02/2021
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

Schedule 4 (b) – Reporting effective from 17th August 2022

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, A2, A3, A6	Every 12 months	1 January
Emissions to water. Parameters as required by condition 3.5.1	W1 and W2	Every 12 months	1 January

Table S4.2: Annual production/treatment

Parameter	Units
Waste treated (total)	Tonnes
Animal Waste treated	Tonnes
Biogas produced by AD facility	m ³

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	tonnes
Operational time of emergency flare	Annually	% of operational time
Amount of gas to flare	Annually	m ³
Amount of biogas combusted in the CHP unit per day	Annually	m ³ /day
Generation of residues	Annually	Tonnes
Generation of waste water	Annually	m ³
Total raw material used	Annually	tonnes

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	17/08/2022
Water discharge	Form water 1 or other form as agreed in writing by Natural Resources Wales	09/02/2021
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	17/08/2022
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

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	
Name of operator	
Location of 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	
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

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(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.

“animal waste” has the meaning given in Environment Agency Regulatory Guidance note 2, Appendix 1, *[material that is subject to Animal By-Product legislation with the exception of catering waste, former foodstuffs and animal excreta. It includes, blood, feathers, uncooked butchers waste and any other animal waste that is not catering waste or former foodstuffs. It does not include faecal matter from animals (e.g. chicken litter or farmyard manure), catering waste, former foodstuffs or animal gut contents (partially digested grass or fodder etc)]*.

“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.

“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” means 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 schedules 3A or 3B or from other localised or diffuse sources, which are not controlled by an emission limit.

“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 III of the Waste Framework Directive

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

“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.

“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

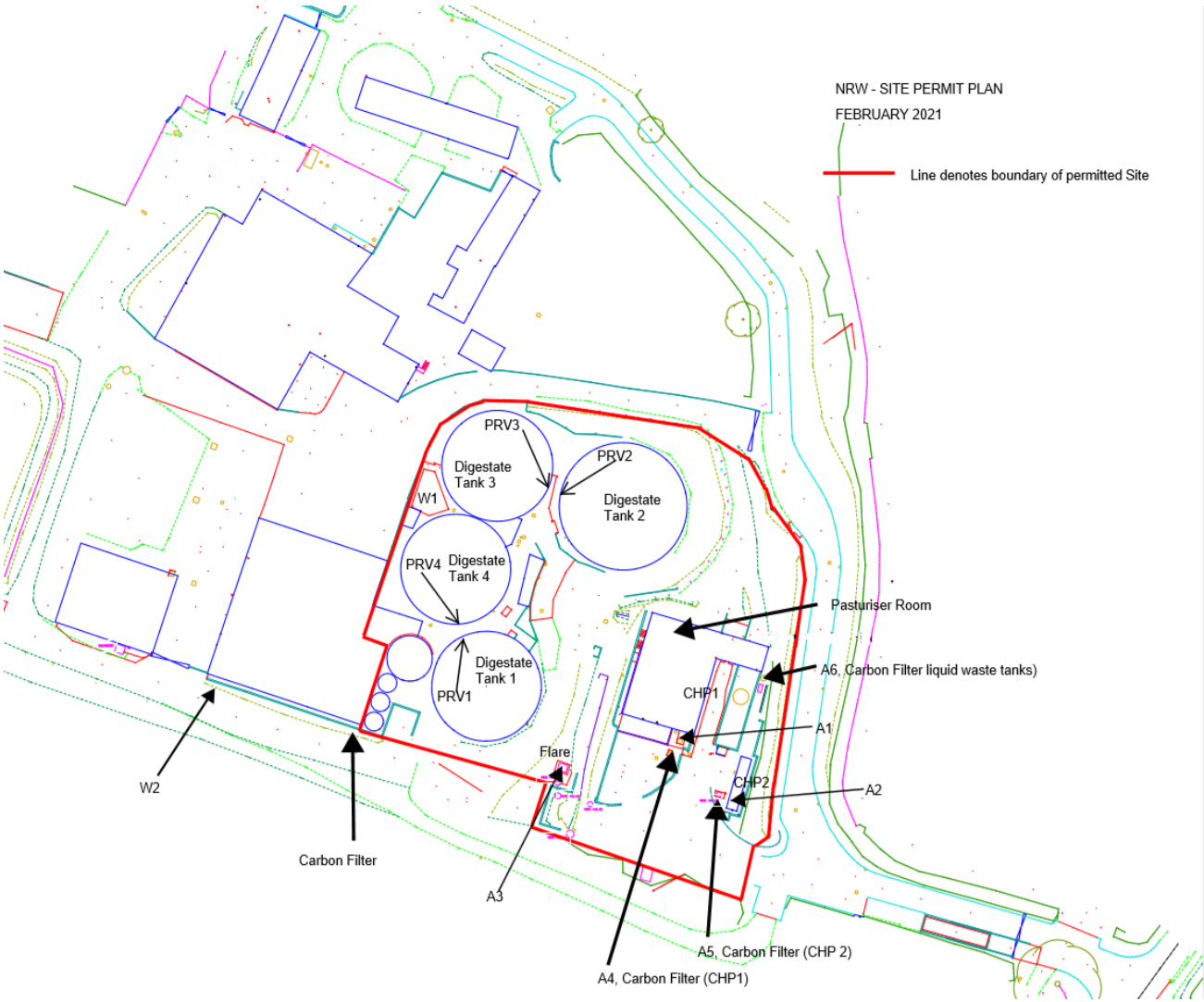
“year” means calendar year ending 31 December.

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



END OF PERMIT

Permit Number: EPR/AB3233DW

