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Wales

## **Permit with introductory note**

The Environmental Permitting (England & Wales) Regulations 2010

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Asgard Renewables Limited

Asgard Renewables Ltd  
Unit 2, Crugmawr Farm  
Penparc  
Cardigan  
Ceredigion  
SA43 1QY

Permit number

EPR/AB3097FU

# **Asgard Renewables Ltd**

## **Permit number EPR/AB3097FU**

### **Introductory note**

#### **This introductory note does not form a part of the permit**

The main features of the permit are as follows.

This is a Tier 3 bespoke permit for anaerobic digestion of permitted wastes (including pre-treatment, treatment of digestate and treatment of resulting biogas) and use of the resultant biogas.

All treatment, other than flaring in prescribed circumstances, is for the purpose of recovery only.

Permitted waste types are non-hazardous biodegradable wastes including those controlled by the Animal By-Products Regulations. Any wastes controlled by the Animal By-Products Regulations must be treated and handled in accordance with any requirements imposed by those Regulations.

The maximum quantity of waste accepted and treated on site shall not exceed 20,000 tonnes per year.

The digestate from the anaerobic digestion process will be recovered to agricultural land as a biofertiliser.

Renewable energy will be generated using the resultant biogas through two combined heat and power (CHP) engines.

Relevant storage and treatment capacity thresholds have been included in the permit to reflect the legal waste facility operational limits; above which, the site would be operating as an Industrial Emissions Directive installation. (See Table S1.1 for relevant limits.)

This permit does not allow any point source emission into surface waters or groundwater except:

- clean, rainfall dependant drainage from areas of the site not used in connection with the storage and/or treatment of waste, and
- integral discharge from the permitted activity (outside areas of the site used in connection with the storage and/or treatment of waste) in accordance with the limits set out in Table S1.1.

Re-use/re-circulation of liquid in the process.

There are to be no emissions to surface and/or groundwater from the buildings on site.

All emissions from the activity which are not controlled via actual emission limits, are controlled through the 'emission of substances not controlled by emission limits condition' and any all relevant process requirements set out in Tables S1.1 and S1.2.

The burning of any wastes, either in the open, inside buildings or in any form of incinerator is not permitted, other than the combustion of biogas in combined heat and power (CHP) engines and the use of an emergency flare in defined circumstances.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application PAN-000013 (originally EPR/TB3490HD/A001)	Duly made 02/11/15	Application from Asgard Renewables Limited for a Tier 3 bespoke permit for anaerobic digestion and use of the resultant biogas.
Additional information received in response to request for information	12/01/16	Request to remove waste code from application.
Additional information received in response to request for information	05/02/16	Request to remove waste codes from application.
Additional information received in response to Schedule 5 notice	08/02/16	Fire prevention and mitigation plan, confirmation of drainage details and emission point locations.
Additional information received in response to request for information	01/03/16	Request to add waste code to application.
Additional information received in response to Schedule 5 notice	08/03/16	Details of combined heat and power engines.
Permit determined EPR/AB3097FU	15/03/16	Tier 3 bespoke permit for anaerobic digestion and use of the resultant biogas issued to Asgard Renewables Limited.

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

**Permit number**  
**EPR/AB3097FU**

The Natural Resources Body for Wales (“Natural Resources Wales”) authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

**Asgard Renewables Limited** (“the operator”),

whose registered office is

**Ergon House**  
**Horseferry Road**  
**London**  
**United Kingdom**  
**SW1P 2AL**

company registration number **08773835**

to operate waste operations at

**Asgard Renewables Ltd**  
**Unit 2, Crugmawr Farm**  
**Penparc**  
**Cardigan**  
**Ceredigion**  
**SA43 1QY**

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

Name	Date
<b>Holly Noble</b>	<b>15/03/2016</b>

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 Avoidance, recovery and disposal of wastes produced by the activities

1.2.1 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.

1.2.2 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").

### 2.2 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(s) S2.1 [, S2.2 etc.]; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

## **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 table S3.1.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.

### **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 Pests**

- 3.5.1 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.
- 3.5.2 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.

### **3.6 Monitoring**

- 3.6.1 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;
  - (b) process monitoring specified in table S3.2
- 3.6.2 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.

- 3.6.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.6.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 3.6.4 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 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 Within one 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.
- 4.2.3 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.

## 4.3 Notifications

- 4.3.1 Natural Resources Wales shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
  - (b) the breach of a limit specified in the permit; or
  - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 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.

## **4.4 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 “without delay”, in which case it may be provided by telephone.

# Schedule 1 - Operations

**Table S1.1 activities**

Activity reference	Description of activities for waste operations	Limits of activities
<b>A1</b> Anaerobic digestion and use of resultant biogas	<b>R13:</b> Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)  <b>R3:</b> Recycling/ reclamation of organic substances which are not used as solvents  <b>D10:</b> Incineration on land	<p><b>Anaerobic digestion:</b>                      Treatment is limited to anaerobic digestion of permitted wastes, including pre-treatment, treatment of digestate and treatment of resulting biogas, for the purpose of recovery only.</p> <p>All waste shall be stored and treated on an impermeable surface with sealed drainage, and within sealed containers or in enclosed well ventilated buildings fitted with a biofilter and/or scrubbing system.</p> <p>The biofilter and/or scrubbing system must be specifically designed to minimise the release of odour, bioaerosols and microorganisms, be maintained for the process undertaken and be fit for purpose.</p> <p>All anaerobic digestion and digestate storage tanks shall be located on an impermeable surface with sealed drainage surrounded by a bund with a capacity to store 110% of the volume of the largest tank or 25% of the total tankage volume (whichever is highest).</p> <p>Pre-treatment operations are limited to manual and/or mechanical de-packaging, shredding, sorting, separation, screening, compacting, baling, mixing and maceration.</p> <p>Treatment of digestate is limited to pasteurisation, maturation, screening to remove plastic residues, centrifuge or pressing, addition of thickening agents (polymers), drying (including the use of heat, other than for the purpose of use as a fuel) and bulking up for onward transfer.</p> <p>Treatment of biogas is limited to cleaning by biological or chemical scrubbing, drying and upgrading to biomethane.</p> <p>The maximum quantity of waste, or mixtures containing waste, to be treated by anaerobic digestion at the site shall not exceed 100 tonnes per day.</p> <p>The maximum quantity of of animal carcasses and/or animal waste to be treated at the site shall not exceed 10 tonnes per day.</p> <p>Waste types as specified in Table S2.1.</p> <p>All biogas condensate shall be discharged into a sealed drainage system.</p> <p>Pressure release valves may be used to protect the integrity of the plant. Such systems should not be used routinely to vent unburnt biogas.</p> <p>Treatment for disposal (D10) is limited to the use of an auxiliary flare only.</p>

*Table continued overleaf*

**Table S1.1 activities**

Activity reference	Description of activities for waste operations	Limits of activities
		<p>The use of an auxiliary flare is permitted only in emergencies and for short periods during breakdown and/or maintenance of the facility.</p> <p>Emissions of unburned biogas and the operation of the auxiliary flare shall be minimised. Any significant emissions of unburned biogas (including the operation of the pressure relief valves) and the operation of the auxiliary flare shall be recorded.</p>
	<p><b>R1:</b> Use principally as a fuel or other means to generate energy</p>	<p><b>Use of resultant biogas in combined heat and power (CHP) engines:</b></p> <p>Treatment is limited to the combustion (burning) of biogas resulting from the on-site anaerobic digestion process in CHP engines, with the release of combustion gases, for the purpose of recovery only.</p>
	<p><b>D10:</b> Incineration on land</p>	<p>The maximum quantity of biogas which can be combusted shall not exceed 10 tonnes per day.</p> <p>The aggregate rated thermal input of all CHP engines used to burn biogas shall be less than 3 megawatts.</p> <p>All biogas condensate shall be discharged into a sealed drainage system.</p> <p>Pressure release valves may be used to protect the integrity of the plant. Such systems should not be used routinely to vent unburnt biogas.</p> <p>Treatment for disposal (D10) is limited to the use of an auxiliary flare only.</p> <p>The use of an auxiliary flare is permitted only in emergencies and for short periods during breakdown and/or maintenance of the engine.</p> <p>Emissions of unburned biogas and the operation of the auxiliary flare shall be minimised. Any significant emissions of unburned biogas (including the operation of the pressure relief valves) and the operation of the auxiliary flare shall be recorded.</p>
	<p>Discharge of integral site drainage including from discharge points indicated on plan reference 'Annex 1' as incorporated in Table S1.2 of this permit.</p>	<p>Drainage consisting solely of:</p> <ul style="list-style-type: none"> <li>- clean, rainfall dependant drainage from areas of the site not used in connection with the storage and/or treatment of waste.</li> <li>- run-off from the impermeable surface of external tank farm area to surface water at 'Water Discharge Point - Tank Farm' indicated on plan 'Annex 1' (only if tested and confirmed to be uncontaminated).</li> </ul> <p>No visible oil or grease, or suspended solids shall be present in the discharge.</p> <p>There shall be no discharge from the buildings and containers on site used to store and/or treat waste.</p>

**Table S1.2 Operating techniques**

<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Guidance Note EPR 1 How to comply with your environmental permit	All	n/a
Sector Guidance Note IPPC S5.06: Guidance for recovery and disposal of hazardous and non-hazardous waste	All	n/a
TGN M2 Sampling requirements for stack emission monitoring	All	n/a
Application	AR009 odour management plan	12/06/15
Application	AR006 Environmental Risk Assessment Sections referenced below: 3.0 Noise and Vibration Risk Assessment 4.0 Fugitive Emissions Risk Assessment 5.0 Air Emissions Risk Assessment 6.0 Surface and Ground Water Risk Assessment 7.0 Site Waste Risk Assessment	12/06/15
Application	AR001 Summary EMS revised 090915 Sections referenced below: EMP.001.001 Feedstock Procedure EMP.001.002 Digestate Procedure EMP 003.001 Aerial Emissions Monitoring and Control EMP.003.002 Odorous Emissions Monitoring and Control EMP.003.003 Noise and Vibration Monitoring and Control	26/10/15
Additional information received via email following Schedule 5 Notice on 26/01/16	Annex 1 (site plan showing discharge and emission points)	08/02/15

## Schedule 2 - Waste types, raw materials and fuels

<b>Table S2.1 Permitted waste types and quantities for anaerobic digestion</b>	
<b>Maximum quantity</b>	<b>The maximum quantity for waste to be accepted on site shall not exceed 20,000 tonnes per year.</b>
<b>Exclusions</b>	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> <li>hazardous wastes</li> </ul>
<b>Waste code</b>	<b>Description</b>
<b>02</b>	<b>WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING</b>
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 01	sludges from washing and cleaning (consisting of food processing waste and food washing waste only)
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 (consisting of animal faeces, urine and manure (including spoiled straw) only)
02 01 07	wastes from forestry
02 01 99	wastes not otherwise specified (consisting of 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 (consisting of sludges from gelatine production and animal gut contents only)
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 (consisting of sludge from production of edible fats and oils (including seasoning residues, molasses residues, residues from production of potato, corn or rice starch) only)
02 04	wastes from sugar processing
02 04 03	sludges from on-site effluent treatment
02 04 99	wastes not otherwise specified (consisting of other biodegradable wastes 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

**Table S2.1 Permitted waste types and quantities for anaerobic digestion**

<b>Maximum quantity</b>	<b>The maximum quantity for waste to be accepted on site shall not exceed 20,000 tonnes per year.</b>
<b>Exclusions</b>	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> <li>hazardous wastes</li> </ul>
<b>Waste code</b>	<b>Description</b>
02 07 99	wastes not otherwise specified (consisting of spent grains, hops and whisky filter sheets/cloths, yeast and yeast like residues, and sludge from production process only)
<b>03</b>	<b>WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD</b>
03 03	wastes from pulp, paper and cardboard production and processing
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation (consisting of paper pulp (de-inked only) and paper fibre only)
<b>04</b>	<b>WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES</b>
04 01	wastes from the leather and fur industry
04 01 01	fleshings and lime split wastes
04 02	wastes from the textile industry
04 02 10	organic matter from natural products (for example grease, wax)
<b>15</b>	<b>WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED</b>
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging (excluding those containing non-biodegradable coatings or preserving substances, or laminates such as Tetrapaks)
15 01 03	wooden packaging (consisting of untreated wood packaging only and excluding those containing non-biodegradable coatings or preserving substances)
15 01 05	composite packaging (consisting of those conforming to BS EN 13432 standard only and excluding those containing non-biodegradable coatings or preserving substances)
<b>19</b>	<b>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</b>
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes (consisting of waste types listed within this table (Table S2.1) that have been mixed together only)
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05 (consisting of sludge types from waste listed within this table (Table S2.1) that have been heat treated 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 (consisting of off-specification compost from source segregated biodegradable waste only)
19 05 99	wastes not otherwise specified (consisting of composting liquors only)
19 06	wastes from anaerobic treatment of waste
19 06 03	liquor from anaerobic treatment of municipal waste (consisting of liquor from anaerobic treatment of waste types listed within this table (Table S2.1) only)
19 06 04	digestate from anaerobic treatment of municipal waste (consisting of digestate from anaerobic treatment of waste types listed within this table (Table S2.1) only)
19 06 05	liquor from anaerobic treatment of animal and vegetable waste (consisting of liquor from anaerobic treatment of waste types listed within this table (Table S2.1) only)
19 06 06	digestate from anaerobic treatment of animal and vegetable waste (consisting of digestate from anaerobic treatment of waste types listed within this table (Table S2.1) only)
19 08	wastes from waste water treatment plants not otherwise specified

**Table S2.1 Permitted waste types and quantities for anaerobic digestion**

<b>Maximum quantity</b>	<b>The maximum quantity for waste to be accepted on site shall not exceed 20,000 tonnes per year.</b>
<b>Exclusions</b>	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> <li>hazardous wastes</li> </ul>
<b>Waste code</b>	<b>Description</b>
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 (consisting of waste types listed within this table (Table S2.1) that have been subjected to mechanical treatment only)
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>
20 01	separately collected fractions (except 15 01)
20 01 01	paper and cardboard (excluding those containing non-biodegradable coatings or preserving substances, or laminates such as Tetrapaks)
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 (consisting of untreated wood only and excluding those containing non-biodegradable coatings or preserving substances)
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 (consisting of separately collected biowastes only)
20 03 02	waste from markets (consisting of source segregated biodegradable fractions (e.g. plant material, fruit and vegetables) only)

## 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
Exhausts of CHP engines (indicated on plan reference 'Annex 1' as incorporated in Table S1.2 of this permit)	Oxides of Nitrogen (NO and NO <sub>2</sub> , expressed as NO <sub>x</sub> )	Exhaust stacks of CHP engines	500 mg/m <sup>3</sup>	Hourly average	Annually	BS EN 14792
	Carbon monoxide		1,400 mg/m <sup>3</sup>			BS EN 15058
	Sulphur dioxide		350 mg/m <sup>3</sup>			BS EN 14791
	Total Volatile Organic Compounds (VOCs)		1,000 mg/m <sup>3</sup>			BS EN 12619:1999 or BS:EN 13526:2002 depending on concentration
Emergency flare (indicated on plan reference 'Annex 1' as incorporated in Table S1.2 of this permit) Note 1	Oxides of Nitrogen (NO and NO <sub>2</sub> , expressed as NO <sub>x</sub> )	Emergency flare stack	No limit set	-	Record of operating hours	-
Pressure relief valves	Biogas	Digesting tanks, biogas holder	No limit set	-	-	-
Biofilter (indicated on plan reference 'Annex 1' as incorporated in Table S1.2 of this permit)	No parameter set	Biofilter	No limit set	-	-	-

Note 1: Monitoring of flare emissions is only necessary when the flare is operated in excess of 10% of the time.

**Table S3.2 Process monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
Biogas from digesting tanks and biogas holders	Flow	Continuous	In accordance with EU Weights and Measures Regulations	-
Biogas from digesting tanks, biogas holders and waste reception building	Methane, hydrogen sulphide and carbon dioxide	Continuous	-	Gas monitors calibrated every 6 months to manufacturers' requirements.
Biogas from digesting tanks, biogas holders, 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 not >0.3ppm	Periodically	Instantaneous ammonia reading	-
Amount of biogas combusted by the CHP engines per day	t/day	Daily	As agreed in writing with Natural Resources Wales	-

## 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 3.6.1.	Exhausts of CHP engines and emergency flare.	Every 12 months	1 January

**Table S4.2 Annual production/treatment**

Parameter	Frequency of assessment	Units
Biogas produced by the anaerobic digestion facility	Annually	m <sup>3</sup>

**Table S4.3 Performance parameters**

Parameter	Frequency of assessment	Units
Operational time of emergency flare	Annually	% of operational time
Amount of biogas combusted by the CHP engines per day	Annually	tonnes/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	15/03/16
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	15/03/16

# 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	

<b>(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution</b>	
<b>To be notified within 24 hours of detection</b>	
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>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
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	

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

<b>(c) Notification requirements for the detection of any significant adverse environmental effect</b>	
<b>To be notified within 24 hours of detection</b>	
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.	

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* 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.

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

*“D”* means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*“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.

*“EP Regulations”* means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

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

*“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.

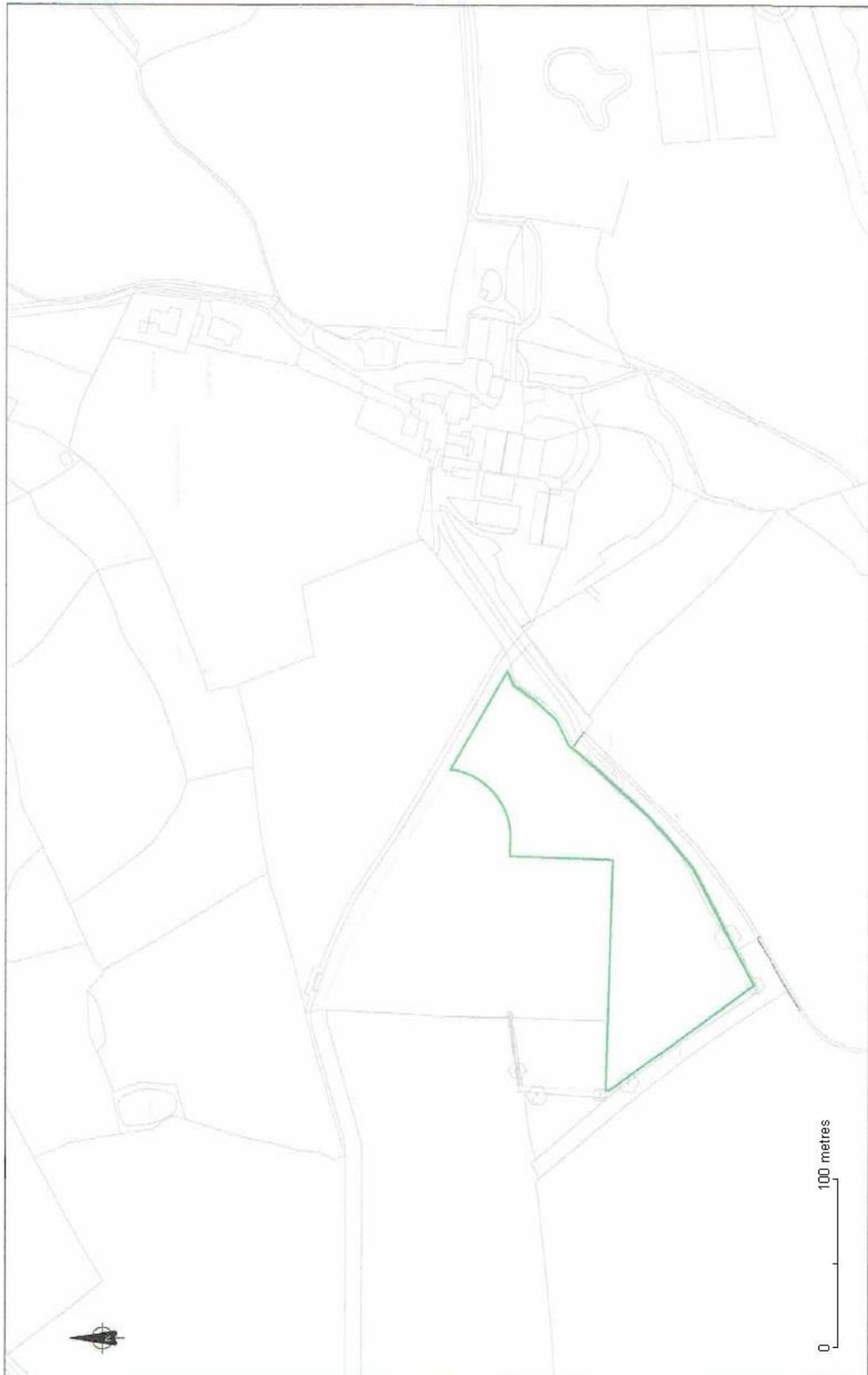
*“R”* means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*“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.

*“year”* means calendar year ending 31 December.

## Schedule 7 - Site plan



END OF PERMIT