

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Swancote Energy Limited

Swancote Energy Limited
Swancote Farm
Swancote
Bridgnorth
Shropshire
WV15 5HA

Permit number
EPR/TP3692EU

Swancote Energy Limited

Permit number EPR/TP3692EU

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 bespoke permit regulating an on-farm anaerobic digestion facility, with the use of the resultant biogas in a combined heat and power generation unit. The spark ignition engines have a rated thermal input of less than 3 megawatts. The operator will use the digester tanks, at the site, to store the waste digestate produced from the anaerobic digestion facility. If additional digestate storage capacity is required the operator proposes to install two above-ground designated digestate storage tanks within the permitted area.

Hazardous wastes can not be accepted at the site under this permit. The total quantity of waste that can be accepted at the site must be less than 38,000 tonnes per year.

Any wastes controlled by The Animal By-Products Regulations 2005, as amended, must be treated and handled in accordance with any requirements imposed by those Regulations.

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

Status log of the permit

Description	Date	Comments
Application EPR/TP3692EU/A001	Duly made 15/04/11	Application for an on-farm anaerobic digestion facility, with the use of the resultant biogas in a combined heat and power generation unit. The application includes the storage of waste digestate, produced from the anaerobic digestion facility.
Additional information received in response to Schedule 5 notice dated 10/06/11	14/07/11	Applicant submitted the following documents in response to the Schedule 5 notice: <ul style="list-style-type: none">• Additional Information for Environmental Permitting Application, dated July 2011• Appendix K as amended, dated 13 July 2011• Appendix 14 (Q) Accident Management Plan, dated March 2011• Table 4 Accidents Risk Assessment and Management Plan, dated March 2011• Table 5 Emissions to Air Risk Assessment and Management Plan, dated July 2011

Status log of the permit

Description	Date	Comments
Additional information received	28/07/11 and 29/07/11	Applicant submitted the following document revisions: <ul style="list-style-type: none">• Additional Information for Environmental Permitting Application – Schedule 5 response – as amended, dated 28 July 2011• Appendix E Site Condition Report Version 2, dated July 2011• Appendix G Non Technical Summary Version 2, dated July 2011• Appendix K as amended Version 2, dated 27 July 2011• Appendix L Odour Management Plan Version 2, dated July 2011• Appendix M Monitoring Version 2, dated July 2011• Table 1 Odour Risk Assessment and Management Plan Version 2, dated July 2011• Table 3 Fugitive Emissions Risk Assessment and Management Plan Version 2, dated July 2011• Table 4 Accidents Risk Assessment and Management Plan Version 2, dated July 2011• Table 5 Emissions to Air Risk Assessment and Management Plan Version 3, dated July 2011
Additional information received	08/08/11	Applicant submitted the following document revisions: <ul style="list-style-type: none">• Additional Information for Environmental Permitting Application – Schedule 5 response – as amended Version 3, dated 3 August 2011• Appendix E Site Condition Report Version 3, dated August 2011• Appendix K as amended Version 3, dated August 2011• Table 1 Odour Risk Assessment and Management Plan Version 3, dated Aug 2011• Table 3 Fugitive Emissions Risk Assessment and Management Plan Version 3, dated Aug 2011• Table 4 Accidents Risk Assessment and Management Plan Version 3, dated Aug 2011

Status log of the permit

Description	Date	Comments
Additional information received	11/08/11	Applicant submitted the following document revisions: <ul style="list-style-type: none">• Additional Information for Environmental Permitting Application – Schedule 5 response – as amended Version 4, dated 11 August 2011• Appendix E Site Condition Report Version 4, dated August 2011• Appendix K as amended Version 4, dated August 2011• Table 3 Fugitive Emissions Risk Assessment and Management Plan Version 4, dated Aug 2011• Table 4 Accidents Risk Assessment and Management Plan Version 4, dated Aug 2011
Additional information received	24/08/11	Applicant submitted the following document revisions: <ul style="list-style-type: none">• Additional Information for Environmental Permitting Application – Schedule 5 response – as amended Version 5, dated 24 August 2011• Appendix E Site Condition Report Version 5, dated 24 August 2011• Appendix K as amended Version 5, dated 24 August 2011• Appendix L Odour Management Plan Version 3, dated August 2011• Table 1 Odour Risk Assessment and Management Plan Version 4, dated 24 Aug 2011• Table 3 Fugitive Emissions Risk Assessment and Management Plan Version 5, dated 24 Aug 2011
Additional information received	25/08/11	Applicant submitted the following document revision: <ul style="list-style-type: none">• Appendix L Odour Management Plan Version 4, dated 25 August 2011
Permit determined	01/09/11	Permit issued to Swancote Energy Limited

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number
EPR/TP3692EU

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

Swancote Energy Limited (“the operator”),
whose registered office is

Tudor House
37A Birmingham New Road
Wolverhampton
United Kingdom
WV4 6BL

company registration number **07322505**

to operate waste operations at

Swancote Energy Limited
Swancote Farm
Swancote
Bridgnorth
Shropshire
WV15 5HA

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

Name	Date
Ian Brindley	01/09/2011

Authorised on behalf of the Environment Agency

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 the Environment Agency.
- (b) If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan specified in schedule 1, table S1.2 or otherwise required under this permit, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.1; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

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 the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan;
- (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

- 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 the Environment Agency, 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 the Environment Agency, 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 the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in table S3.1;
- 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 the Environment Agency.
- 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 table S3.1 unless otherwise agreed in writing by the Environment Agency.

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 the Environment Agency, 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 the Environment Agency.

4.2 Reporting

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

4.2.2 Within one month of the end of each quarter, the operator shall submit to the Environment Agency 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 the Environment Agency, 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 S4.2 ; 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 The Environment Agency 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 the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency 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) the Environment Agency 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

Description of activities for waste operations	Limits of activities
<p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p>	<p>All activities must be carried out on premises used for Agriculture.</p> <p>All waste solids, liquids and sludges shall be stored on an impermeable surface.</p> <p>All storage and process tanks shall be fit for purpose and be constructed and maintained to a recognised standard with appropriate leak detection.</p> <p>All storage and process tanks shall be located on an impermeable surface with sealed construction joints.</p> <p>Waste digestate shall be stored within covered above-ground containers of a design and capacity fit for purpose.</p> <p>Waste types as specified in schedule 2 Table S2.1.</p>
<p>R3: Recycling/reclamation of organic substances which are not used as solvents</p>	<p>All activities must be carried out on premises used for Agriculture.</p> <p>Treatment of waste including shredding, sorting, screening, compaction, baling, mixing, hydrolysis and maceration.</p> <p>Digestion of wastes including pasteurisation and chemical addition.</p> <p>Treatment of digestate including screening to remove plastic residues, centrifuge or pressing, addition of thickening agents (polymers) or drying.</p> <p>Maturation of digestate.</p> <p>Waste types as specified in schedule 2 Table S2.1.</p>
<p>R1: Use principally as a fuel or other means to generate energy</p>	<p>The use of combustible gases produced as a by-product of the anaerobic digestion process as fuel.</p> <p>Gas cleaning by biological or chemical scrubbing.</p> <p>Gas storage and drying.</p> <p>Except for the auxiliary flare, the aggregate rated thermal input of all appliances 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>Gas engine stack height shall be no less than 3 metres.</p> <p>Waste types as specified in schedule 2 Table S2.1.</p>
<p>D10: Incineration on land</p>	<p>Use of an auxiliary flare required only for short periods of breakdown and maintenance of the combined heat and power unit.</p> <p>Operation of the auxiliary flare shall be minimised.</p>

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to section 3a of Part B4 of the application form – technical standards and operating techniques.	15/04/11
Response to Schedule 5 Notice dated 10/06/11	All documents, and subsequent revisions, supplied in response to the Schedule 5 notice.	14/07/11, 28/07/11, 29/07/11, 08/08/11, 11/08/11, 24/08/11 and 25/08/11
Response to Schedule 5 Notice dated 10/06/11	Appendix L Odour Management Plan Version 4, dated 25 August 2011 and Table 1 Odour Risk Assessment and Management Plan Version 4, dated 24 Aug 2011.	24/08/11 and 25/08/11

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for on-farm anaerobic digestion facility	
Maximum quantity	The total quantity of waste accepted at the site shall be less than 38,000 tonnes per year.
Waste code	Description
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPERATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 01	sludges from washing and cleaning – consisting only of food processing waste and food washing waste
02 01 03	plant-tissue waste – consisting only of husks, cereal dust and waste animal feeds
02 01 06	animal faeces, urine and manure (including spoiled straw)
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 04	biodegradable materials unsuitable for consumption or processing
02 05	wastes from the dairy products industry
02 05 01	biodegradable materials unsuitable for consumption or processing – consisting only of solid and liquid dairy products, milk, food processing wastes, yoghurt and whey
02 05 02	sludges from on-site effluent treatment
19	WASTE FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPERATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09 – consisting only of glycerol

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)^{(1) (2)}	Reference period	Monitoring frequency	Monitoring standard or method
CHP engines ['Stage 1 CHP Stack' and 'Stage 2 CHP Stack' on site plan in Schedule 7]	Oxides of Nitrogen	Exhaust stack of the gas engines	500 mg/m ³	Hourly average	Annual monitoring	BS EN 14792
	Carbon monoxide	Exhaust stack of the gas engines	1400 mg/m ³	Hourly average	Annual monitoring	BS EN 15058
	Sulphur dioxide	Exhaust stack of the gas engines	350 mg/m ³	Hourly average	Annual monitoring	BS EN 14791
	Total volatile organic compounds including methane	Exhaust stack of the gas engines	1000 mg/m ³	Hourly average	Annual monitoring	BS EN 12619 or BS EN 13526 depending on concentration
	Temperature	Exhaust stack of the gas engines	Gas engine exhaust gas temperature where the exhaust leaves the engine shall be no less than 200 degrees C	Instantaneous reading	Annual monitoring	None specified
	Stack exit velocity	Exhaust stack of the gas engines	Minimum stack exit velocity of 15 m/s to ensure effective plume breakaway	None specified	Annual monitoring	None specified
Boilers	Oxides of Nitrogen	Exhaust stack from boilers	No limit set	None specified	None specified	None specified
	Carbon monoxide					
Auxiliary flare ['Flare Stack' on site plan in Schedule 7]	Oxides of Nitrogen	Exhaust stack from gas flare	150 mg/m ³	Hourly average	Annual monitoring ⁽³⁾	BS EN 14792
	Carbon monoxide	Exhaust stack from gas flare	50 mg/m ³	Hourly average	Annual monitoring ⁽³⁾	BS EN 15058
	Total volatile organic compounds including methane	Exhaust stack from gas flare	10 mg/m ³	Hourly average	Annual monitoring ⁽³⁾	BS EN 12619 or BS EN 13526 depending on concentration
Pressure relief valves	Biogas	Pressure relief valves	No limit set	None specified	None specified	None specified
<p>(1) Emission limits for the gas engines are based on normal operating conditions and load (temperature: 0°C (273K); pressure: 101.3 kPa; and oxygen: 5 per cent (dry gas)).</p> <p>(2) Emission limits for the gas flare are based on normal operating conditions and load (temperature: 0°C (273K); pressure: 101.3 kPa; and oxygen: 3 per cent (dry gas)).</p> <p>(3) Annual monitoring is only required when the gas flare operates for more than 10 per cent of a year (876 hours).</p> <p>Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme (including the measurement of exhaust gas temperature) shall have either MCERTS certification or MCERTS accreditation (as appropriate), unless otherwise agreed in writing by the Environment Agency.</p>						

Schedule 4 - Reporting.

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

Table S4.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	CHP engines ['Stage 1 CHP Stack' and 'Stage 2 CHP Stack' on site plan in Schedule 7]	Every 12 months	01/09/11
	Auxiliary flare ⁽¹⁾ ['Flare Stack' on site plan in Schedule 7]	Every 12 months	01/09/11

(1) Annual monitoring is only required when the gas flare operates for more than 10 per cent of a year (876 hours).

Table S4.2 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air1 or other form as agreed in writing by the Environment Agency	01/09/11

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 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

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 limit
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To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

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

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B - to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

“accident” means an accident that may result in pollution.

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

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

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

“authorised officer” means any person authorised by the Environment Agency 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 to land” includes emissions to groundwater.

“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 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.

“groundwater protection zones 1 and 2” have the meaning given in the document titled "Groundwater Protection: Policy and Practice" published by the Environment Agency in 2006.

“hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface, and should be read in conjunction with the term “sealed drainage system” (below).

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“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.

“*sealed drainage system*” in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

(a) no liquid will run off the surface otherwise than via the system;

(b) except where they may lawfully be discharged to foul sewer, all liquids entering the system are collected in a sealed sump.

“*Waste code*” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

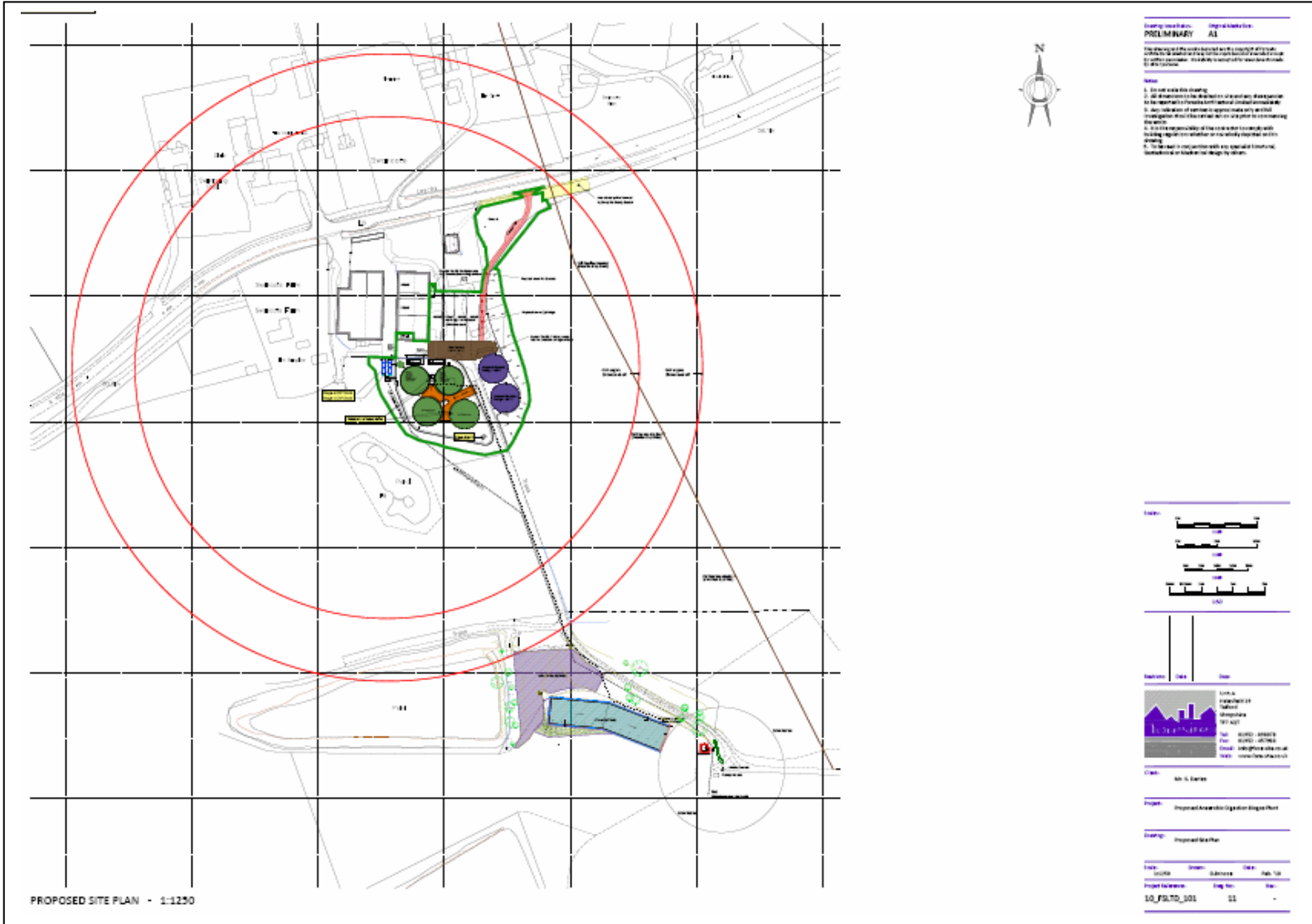
“*Waste Framework Directive*” or “*WFD*” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

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

Schedule 7 - Site plan



Site location plan



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END OF PERMIT

Permit Number: EPR/TP3692EU

Operator: Swancote Energy Limited

Facility: Swancote Energy Limited

Form Number: Air1/ 01/09/11

Reporting of emissions to air for the period from / / to / /

Emission Point	Substance / Parameter	Emission Limit Value ^{(a) (b)}	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
CHP engine [‘Stage 1 CHP Stack’ and ‘Stage 2 CHP Stack’ on site plan in Schedule 7]	Oxides of Nitrogen	500 mg/m ³	Hourly average		BS EN 14792		
	Carbon monoxide	1400 mg/m ³	Hourly average		BS EN 15058		
	Sulphur dioxide	350 mg/m ³	Hourly average		BS EN 14791		
	Total volatile organic compounds including methane	1000 mg/m ³	Hourly average		BS EN 12619 or BS EN 13526 depending on concentration		
	Temperature	Gas engine exhaust gas temperature where the exhaust leaves the engine shall be no less than 200 degrees C	Instantaneous reading		None specified		
	Stack exit velocity	Minimum stack exit velocity of 15 m/s to ensure effective plume breakaway	None specified		None specified		
Auxiliary flare ^(c) [‘Flare Stack’ on site plan in Schedule 7]	Oxides of Nitrogen	150 mg/m ³	Hourly average		BS EN 14792		
	Carbon monoxide	50 mg/m ³	Hourly average		BS EN 15058		
	Total volatile organic compounds including methane	10 mg/m ³	Hourly average		BS EN 12619 or BS EN 13526 depending on concentration		

(a) Emission limits for the gas engines are based on normal operating conditions and load (temperature: 0°C (273K); pressure: 101.3 kPa; and oxygen: 5 per cent (dry gas)).
 (b) Emission limits for the gas flare are based on normal operating conditions and load (temperature: 0°C (273K); pressure: 101.3 kPa; and oxygen: 3 per cent (dry gas)).
 (c) Annual monitoring is only required when the gas flare operates for more than 10 per cent of a year (876 hours).

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed
(Authorised to sign as representative of Operator)

Date.....