



Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Pickstock Telford Limited
East Hortonwood Abattoir
45 Hortonwood
Telford
Shropshire
TF1 7FA

Variation application number

EPR/QP3233NQ/V003

Permit number

EPR/QP3233NQ

East Hortonwood Abattoir

Permit number EPR/QP3233NQ

Introductory note

This introductory note does not form a part of the notice

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. Only the variations specified in schedule 1 are subject to a right of appeal.

Changes introduced by this variation notice

The variation is to add an Anaerobic Digester (AD) with associated combined heat and power (CHP) plant and a dissolved air flotation (DAF) unit for the treatment of the existing discharge to sewer. All of the inputs to the AD plant will be from the abattoir and sludge from the DAF plant.

The AD plant is situated on a sealed drainage system and a robust odour management plan has been incorporated into the permit.

Brief description of the process

The National Grid Reference for the centre of the site is SJ681140 (368134, 314051).

The site is located on the edge of an industrial estate to the north of Telford. The facility has been purpose built as a single species (cattle) abattoir. The permit includes slaughter activities which are covered by the description in Schedule 1, Part 2, Section 6.8. The Treatment of Animal and Vegetable Matter and Food Industries Processes on site will include de-boning of certain products. This facility will be operating up to 24 hours per day, 7 days per week and 52 weeks per year.

To give more local and sustainable processing of certain waste and by-product streams the facility has installed an anaerobic digestion facility.

The scheme will take a quantity of by-products and wastes that are produced at the abattoir and use them to generate sustainable heat and power. The basis of the system will be two linked anaerobic digester units that will digest the materials to create a valuable fertiliser and a biogas. The biogas will be burned in a Combined Heat and Power unit. A flare will also be installed for emergencies.

Effluent from the existing effluent system is pumped into a 400m³ feed balance tank. From the balance tank the effluent is pumped into the inlet of the Dissolved Air Flotation (DAF) unit for further treatment of the effluent prior to discharge to sewer.

Emissions to air, odour management controls and noise emissions have been addressed as part of the permit application.

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	Date	Comments
Application EPR/QP3233NQ/A001	Duly made 16/07/13	Application for single species(cattle) abattoir and de-boning process
Additional information received	22/08/13	Response to a request for information sent 20/08/13 received
Additional information received	02/09/13	Response to a request for clarification on National Grid References of the point source emissions to air and the centre of the building this point source is located, was received
Additional information received	13/09/13	Response to a request to obtain odour documentation from the applicants sister site in Ashby, was received
Schedule 5 Notice issued 30/09/13	25/10/13 (formal Schedule 5 response), 29/10/13, 04/11/13, & 05/11/13 (email clarifications)	Responses to Schedule 5 notice, includes, odour assessment from the process building, more detailed and labelled site drainage and site plan, and responses to further information requests
Permit granted	02/01/14	Permit issued to Pickstock (Ashby) Limited
Notified of change of company name	12/02/16	Name changed to Pickstock Telford Limited.
Variation issued EPR/QP3233NQ/V002	08/03/16	Varied permit issued to Pickstock Telford Limited.
Variation application EPR/QP3233NQ/V003 (variation and consolidation)	Duly made 26/06/17	Application to vary permit to add an Anaerobic Digester (AD), combined heat and power (CHP) plant and a dissolved air flotation (DAF) plant to the existing discharge to sewer.
Schedule 5 Notice dated 04/09/17	Received 20/10/17	Installation information
Schedule 5 follow up responses	Received 12/01/17 15/01/18 16/01/18	In relation to accident management plan, closure plan, site drainage plan drawing, anaerobic digester management system, HACCP pre-requisites programme v6, approved waste contractors list, site plan.
Schedule 5 follow up response	26/01/18	Cleaning programme, Communication and complaints procedure v5, Odour assessment procedure, Odour monitoring form V2, AD process monitoring Set points, Anaerobic Digestion Management System (AD Plan HACCP Plan).
Response to Schedule 5 follow up request for information dated 15/02/18	22/02/18	H1 assessment info
	14/03/18	Email responses plus the following attachments: Pest plan; DSEAR assessment; Biological performance of Pickstock AD Plant; DAF unit schematic.
	19/04/18	Noise assessment report and modelling information

Status log of the permit		
Description	Date	Comments
Schedule 5 follow up request and questions relating to abatement by email dated 06/03/18	28/03/18	Responses relating to odour abatement
Schedule 5 Notice follow up request dated 29/05/18	18/06/18	Updated Site Plan including AD, DAF and effluent treatment – 1523 sit-02 rev3 Communication and complaints procedure v6; Incident and corrective action v7, HA 4.2 Pre4-requisites programme v8, S5 follow up response, AD 12 014 HACCP V9, Contingency Planning v4, AD plant schematic plan 2 dated 30/5/17.
	19/06/18	Odour Management Plan v7
	12/07/18	Ad 12 404 Cleaning Programme v3 P112AD-R02-F5 H1 Risk Assessment April 2018. Updated Site Plan including AD, DAF and effluent treatment – 1523 sit-02 rev3 which includes odour scrubber labelled as fugitive odour scrubber’.
Email containing updated drawing	26/07/18	Updated schematic drawing entitled, ‘Biocontrol’ in document P112AD-R06-F1 dated July 2018
Variation determined EPR/QP3233NQ/V003 Billing ref: GP3138DF	10/10/18	Varied permit issued with the addition of an Anaerobic Digester (AD), combined heat and power (CHP) plant and a dissolved air flotation (DAF) plant to the existing discharge to sewer

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/QP3233NQ

Issued to

Pickstock Telford Limited (“the operator”)

whose registered office is

**45 Hortonwood
Telford
Shropshire
TF1 7FA**

company registration number **04642496**

to operate a regulated facility at

**East Hortonwood Abattoir
45 Hortonwood
Telford
Shropshire
TF1 7FA**

to the extent set out in the schedules.

The notice shall take effect from 10/10/2018

Name	Date
Philip Lamb	10/10/2018

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions have been amended/added by the consolidated permit EPR/QP3233NQ:

2.1.2, 2.3.1, 2.3.2, 2.3.4, 2.3.6, 3.6.1, 3.6.2, 3.6.3, 3.6.4, 4.2.5, 4.3.3, 4.3.4; and 4.4.2

The following tables have been amended/added by the consolidated permit EPR/QP3233NQ:

S1.1, S1.2, S1.3, S2.1, S2.2, S3.1, S3.2, S3.3, S3.4, S4.1, S4.2, S4.3 and S4.4.

Definitions were added to Schedule 6 – Interpretations

The site plan in Schedule 7 was updated

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/QP3233NQ

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/QP3233NQ/V003 authorising,

Pickstock Telford Limited (“the operator”),

whose registered office is

**45 Hortonwood
Telford
Shropshire
TF1 7FA**

company registration number **04642496**

to operate an installation at

**East Hortonwood Abattoir
45 Hortonwood
Telford
Shropshire
TF1 7FA**

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

Name	Date
Philip Lamb	10/10/2018

Authorised on behalf of the Environment Agency

Schedule 2

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.

1.2 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 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.

2.3.2 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 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 the Environment Agency.

2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.4 For the following activities referenced in schedule 1, table S1.1 (A3) 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.

2.3.5 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.
- 2.3.6 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.

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, S3.2 and S3.3.
- 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 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 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 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 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 the Environment Agency.

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 the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.6 Monitoring

- 3.6.1 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 tables S3.1, S3.2 and S3.3;
 - (b) process monitoring specified in table S3.4;
- 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 the Environment Agency.
- 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, S3.2 and S3.3 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 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) 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 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 S4.4; 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 the Environment Agency, 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 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.

4.3 Notifications

4.3.1 In the event:

- (a) 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 the Environment Agency,
 - (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) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) 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 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.
- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
- (a) a decision by the Secretary of State not to re-certify the agreement;
 - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
 - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “immediately”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	Section 6.8 Part A(1)(b)	Slaughtering animals at a plant with a carcass production capacity of more than 50 tonnes per day.	From receipt of cattle in lairage to storage of Animal By-Products, and then transfer to further processing described in activity AR2 below.
AR2	Section 6.8 Part A(1)(d)(i)	Treatment and processing, other than exclusively packaging, of the following raw materials, whether previously processed or unprocessed, intended for the production of food or feed (where the weight of finished product excludes packaging): Only animal raw materials (other than milk only) with a finished product production capacity greater than 75 tonnes per day.	Post slaughter activities, including de-boning, to despatch as packaged finished product.
AR3	S5.4 A(1) (b) (i) Recovery or a mix of recovery and disposal of non hazardous waste with a capacity exceeding 75 tonnes per day (involving biological treatment.	<u>Anaerobic Digestion Facility</u> R3: Recycling/reclamation of organic substances which are not used as solvents	<u>Undertaken as a DAA to activities AR1 and AR2</u> From receipt of waste through to digestion and recovery of by-products (digestate). Anaerobic digestion of waste in 2 tanks followed by burning of biogas produced from the process. Waste types suitable for acceptance are limited to those specified in Table S2.2.
AR4	Section 5.4 Part A(1)(a)(ii)	<u>Dissolved air flotation (DAF) water treatment activity</u> Physico-chemical treatment of effluent with a capacity of more than 50 tonnes per day	<u>Undertaken as a DAA to activities AR1 and AR2</u> Treatment of effluent in water treatment plant which includes a dissolved air flotation (DAF) unit.
Directly Associated Activity			

AR5	Steam, hot water and electrical power supply	<p>2 x 60KW electrical boilers 3 x 500KW natural gas boilers</p> <p>1 x 1,223 KWth combined heat and power (CHP) engine</p>	<p>Includes a ring main system for hot water to be pumped around from the gas boilers</p> <p>From the receipt of biogas produced at the on-site anaerobic digestion process AR3 to combustion in the CHP engine with the release of combustion gases.</p>
AR6	Refrigeration facilities	25 individual R404 refrigeration systems dedicated to specific areas of the site, outlined in application document P112-R01-F1	There will be no storage of refrigerants on site other than in the active refrigeration plant. Records of maintenance activities will be stored on site
AR7	Tray washing facilities	Re-usable plastic trays are washed with hot water, detergents and rinse agents	Effluent will be discharged to sewer (and ultimately a STW), water sump will be in place to enable recycling of hot water
AR8	Storage of waste pending recovery or disposal	R13: Storage of waste pending the operations numbered R1 and R3 (excluding temporary storage, pending collection, on the site where it is produced)	<p>Undertaken in relation to Activity AR3 in this table.</p> <p>From the receipt of permitted waste to pre-treatment and despatch for anaerobic digestion on site.</p> <p>Storage of residual wastes from pre-treatment to despatch off-site for recovery.</p> <p>Storage of waste in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with sealed drainage.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2 from the onsite abattoir only.</p>

AR9	Physical treatment for the purpose of recycling	R3: Recycling/reclamation of organic substances which are not used as solvents	<p>Undertaken in relation to Activity AR3 in this table.</p> <p>Pre-treatment of waste in 2 tanks (x-ripper and pre-mixing) and on impermeable surface with sealed drainage system including shredding, sorting, screening, compaction, baling, mixing and maceration.</p> <p>Heat treatment (pasteurisation) of waste in 2 tanks for the purpose of recovery.</p> <p>Gas cleaning by biological or chemical scrubbing.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2 from the onsite abattoir only.</p>
AR10	Emergency flare operation	D10: Incineration on land	<p>Undertaken in relation to Activity AR3 in this table.</p> <p>From the receipt of biogas produced at the on-site anaerobic digestion process to incineration with the release of combustion gases.</p> <p>Use of one auxiliary flare required only during periods of breakdown or maintenance of the CHP engine.</p>
AR11	Raw material storage	Storage of raw materials including lubrication oil, antifreeze, propane, ferric chloride, activated carbon, diesel.	From the receipt of raw materials to despatch for use within the Installation

AR12	Gas storage	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>Undertaken in relation to Activity AR3 in this table.</p> <p>Storage of biogas produced from on-site anaerobic digestion of permitted waste in roof space of 2 digesters.</p> <p>From the receipt of biogas produced at the on-site anaerobic digestion process to despatch for use within the facility.</p>
AR13	Digestate storage	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>Undertaken in relation to Activity AR3 in this table.</p> <p>From the receipt of processed uncertified digestate produced from the on-site anaerobic digestion process to despatch for use off-site.</p> <p>Storage of processed uncertified solid digestate in a storage tank.</p>
AR14	Surface water discharge	Uncontaminated roof and site surface water	From the surface water management system to the point of discharge offsite at emission point S1.
AR15	Air treatment	Collection and treatment of air from the buildings or plant using abatement system carbon filter system for activities AR1 and AR2; and acid liquid scrubber tower, Ferrosorp media, UV and active carbon for Activity AR3) prior to release to atmosphere.	<p>Undertaken in relation to Activities AR1, AR2 and AR3 in this table.</p> <p>From the collection of air from site processes to treatment and release of treated air to atmosphere.</p>

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Application form Part B2, question 6c, document P112-R07-F1. Part B3, question 3a, document P112-R01-F1. Part B3, question 3b, document EM01-007 OMP. Part B3, question 3c, document P112-R01-F1	16/07/13
Application	Email responses to RFI.	22/08/13 02/09/13 13/09/13
Response to Schedule 5 Notice dated 30/09/13	Responses to Schedule 5 Notices, include Part 2 of the Schedule 5 Response and an email chain which includes a response to Part 4d of the Schedule 5 Notice, and clarification of how the level in the blood tank will be ascertained	25/10/13 29/10/13 04/11/13 05/11/13
Application	Application documents all parts excluding: Installation information P112-R01A-F1 H1 risk assessment P112-R02-F1 Odour Management Plan dated Nov 14. Site Condition Report P112AD-R03-F1	26/06/17
Response to Schedule 5 Notice dated 04/09/17	All Schedule 5 responses including ref: P112AD-R08-F1 dated Oct 2017; Environmental permit application – Installation Information ref: P112AD-R01-F2 – Oct 17; Excluding the following: OMP v3; EM 01-003 v5 and section 3.1, 'Risk assessment tables'. P112AD-R06 -F1 drawing entitled 'Biofilter'.	20/10/17
Response to Schedule 5 follow up request for information dated 10/01/18	All parts including but not restricted to: Environmental Accident Management Plan v4 ref EM01-003 dated 01/09/17 EM 01-004 Site Closure Plan V3 (incorporates Closure Plan and Site Condition Report) dated 4/9/17 Site Plan including AD, DAF and effluent treatment – 1523 sit-02 rev3. Site drainage plan drawing ref:13697-20 P8 dated 01 12 17. HACCP – Pre-requisites programme v6 – operating techniques Excluding OMP v4 and OMP v5.	12/01/18 15/01/18 16/01/18
	All parts including: EM 02 006 Odour assessment procedure v2 EM 03 003 Odour monitoring form V2 AD process monitoring Set points. Excluding: AD 12 040 Cleaning programme EM 02 004 Communication and complaints procedure v5 Anaerobic Digestion Management System ref: AD 12-014 (AD Plan HACCP Plan) v7	26/01/18
	P112Ad-R02-F3 H1 Assessment - Feb 2018	22/02/18

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to Schedule 5 follow up request for information dated 15/02/18	Email responses plus the following attachments: Pest plan; DSEAR assessment; Biological performance of Pickstock AD Plant; DAF unit schematic. Excluding: EM 01-007 Odour Management Plan v6; AD12-040 – Cleaning Programme v2; HA 4.2 Pre0requisites programme v7.	14/03/18
	Noise assessment report	19/04/18
Schedule 5 Notice follow up request and questions relating to odour abatement by email dated 06/03/18	Responses relating to odour abatement	28/03/18
Schedule 5 follow up RFI dated 29/05/18	All parts in including: S5 response follow up request doc – containing responses to questions; H1 risk assessment ref: P112AD-R02-F4, updated Site Plan including AD, DAF and effluent treatment – 1523 sit-02 rev3 EM 02 004 Communication and complaints procedure v6,EM03 001; Incident and corrective action v7, HA 4.2 Pre4-requisites programme v8, S5 follow up response, AD 12 014 HACCP V9, AD 12-003B Contingency Planning v4, AD plant schematic plan 2 dated 30/5/17.	18/06/18
	EM 01-007 Odour Management Plan v7 dated 11/06/18	19/06/18
	Ad 12 404 Cleaning Programme v3 P112AD-R02-F5 H1 Risk Assessment April 2018. Updated Site Plan including AD, DAF and effluent treatment – 1523 sit-02 rev3 which includes odour scrubber labelled as fugitive odour scrubber'	12/07/18
Email containing updated drawing	Updated schematic drawing entitled, 'Biocontrol' in document P112AD-R06-F1 dated July 2018.	26/07/18
Request for information (RFI) dated 08/08/18	DAF plant BAT assessment	21/08/18
Schedule 5 follow up RFI dated 22/08/18	DAF plant BAT assessment additional information	10/09/18

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
See raw materials inventory ref EM 07 004 (part of Environmental Management System EMS)	

Table S2.2 Permitted waste types and quantities for anaerobic digestion, activity reference AR7 (Table S1.1 of this permit)	
Maximum quantity	Annual throughput shall not exceed 35,000 tonnes
Waste code	Description
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 06	animal faeces, urine and manure (including spoiled straw) only
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 02	animal tissue waste
02 02 04	sludges from on-site effluent treatment

Schedule 3 – Emissions and monitoring

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
A1 - Point AR1 on Emissions point plan ref: 1523-sit-02 received 10/09/18)	No parameters set	Combined boilers' stack	No limit set	-	-	-
A2 - Blood tank on site plan in Schedule 7 or point AR2 on Emissions point plan ref: 1523-sit-02 received 10/09/18	No parameters set	Vent from Blood tank	No limit set	-	-	-
A3 - CHP on site plan in Schedule 7 and A1 on Emissions point plan ref: 1523-sit-02 received 10/09/18	CHP engine 1 stack [note 1]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly average	Annual	BS EN 14792
		Sulphur dioxide	350 mg/m ³			BS EN 14791
		Carbon monoxide	1400 mg/m ³			BS EN 15058
		Total VOCs	1000 mg/m ³			BS EN 12619:2013
A4 - Flare on site plan in Schedule 7	Emergency flare stack [note 2]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	150 mg/m ³	Hourly average	[note 3]	BS EN 14792
		Carbon monoxide	50 mg/m ³			BS EN 15058
		Total VOCs	10 mg/m ³			BS EN 12619:2013
A5 - Pressure relief valves from point A2 on Emissions point plan ref: 1523-sit-02 received 10/09/18	Digesters	No parameter set	No limit set	--	Record of operating hours	--

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
A6 - Emission from odour abatement system, 'Fugitive odour scrubber' on plan 1523 SIT02 rev 3.	Emission from odour abatement system	-	-	-	-	-
A7 – Emission from blood tank carbon filters – 'bund area on Site plan in Schedule 7.	Emission from blood tank carbon filters	-	-	-	-	-
<p>Note 1 - These limits are based on normal operating conditions and load - temperature 0°C (273K); pressure: 101.3 kPa and oxygen: 5 per cent (dry gas). The measurement uncertainty specified in section 4.5.1 of LFTGN08 v2 2010 shall apply.</p> <p>Note 2 - These limits are based on normal operating conditions and load - temperature 0°C (273K); pressure: 101.3 kPa and oxygen: 3 per cent (dry gas). The measurement uncertainty specified in section 5.3.1 of LFTGN05 v2 2010 shall apply.</p> <p>Note 3 - Following commissioning, monitoring to be undertaken in the event the emergency flare has been operational for more than 10 per cent of a year (876 hours). Record of operating hours to be submitted annually to the Environment Agency. The enclosed biogas flare shall operate with a minimum residence time of 0.3 seconds at 1000°C</p>						

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 (point S1 on Emissions point plan ref: 1523-sit-02 received 10/09/18) - emission to surface water sewer then Crow Brook)	No parameters set	Surface water	No limit set	-	-	-

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 (point E1 on Emissions point plan ref: 1523-sit-02 received 10/09/18) - emission to Severn Trent Water Sewage Treatment Works)	Process effluent discharge from the abattoir and AD plant following treatment by the DAF plant	Daily flow monitoring	No limit set	-	-	-

Table S3.4 Process monitoring requirements ^{Note 1}				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Biogas from Digester(s)	Flow	Continuous	In accordance with EU weights and measures Regulations	--
Biogas from Digester(s)	Methane	Continuous	None specified	Gas monitors to be calibrated every 6 months or in accordance with the manufacturer's recommendations.
	Hydrogen sulphide	Daily	None specified	--
Digesters and storage tanks	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary.
Digesters and storage tanks	Integrity checks	Weekly	Visual assessment	--
Scrubber / Carbon filtration system	Key process parameters to include pH, temperature and air flow	In accordance with manufacturer's recommendations.	None specified	Odour abatement system shall be regularly checked and maintained to ensure appropriate temperature and moisture content. Carbon filter(s) to be replaced when saturated in accordance with manufacturer's recommendations.

Note 1: Reporting of monitoring data is not required; however the results shall be made available at the request of the Environment Agency.

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 3.7.1.	CHP engine (A3) and emergency flare (A4)	Every 12 months	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
Meat products produced	tonnes
Electricity generated	MWh
Whole digestate	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes or m3
Energy usage	Annually	MWh
Raw material usage	Annually	tonnes or m3
Emergency flare operation	Annually	hours
CHP engine usage	Annually	hours
CHP engine efficiency	Annually	%

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	2018
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	2018
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	2018
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	2019
Waste returns	E-waste Return Form or other form as agreed in writing by the Environment Agency	--

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	
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	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
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.

“ADQP” means Anaerobic Digestion Quality Protocol

“anaerobic digestion” means a process of controlled decomposition of biodegradable materials under managed conditions where free oxygen is absent, at temperatures suitable for naturally occurring mesophilic or thermophilic anaerobes and facultative anaerobe bacteria species, which convert the inputs to a methane-rich biogas and whole digestate.

“animal waste” means any waste consisting of animal matter that has not been processed into food for human consumption.

“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.

“digestate” means material resulting from an anaerobic digestion process.

“disposal”. 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 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.

“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.

“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.

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

“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” 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.

“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:

- no liquids will run off the surface otherwise than via the system
- all liquids entering the system are collected in a sealed sump, except where liquids may be lawfully discharged to foul sewer.

“treated wood” means any wood that has been chemically treated (e.g. to enhance or alter the performance of the original wood). Treatments may include penetrating oils, tar oil preservatives, water-borne preservatives, organic-based preservatives, boron and organo-metallic based preservatives, boron and halogenated flame retardants and surface treatments (including paint and venner).

“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.

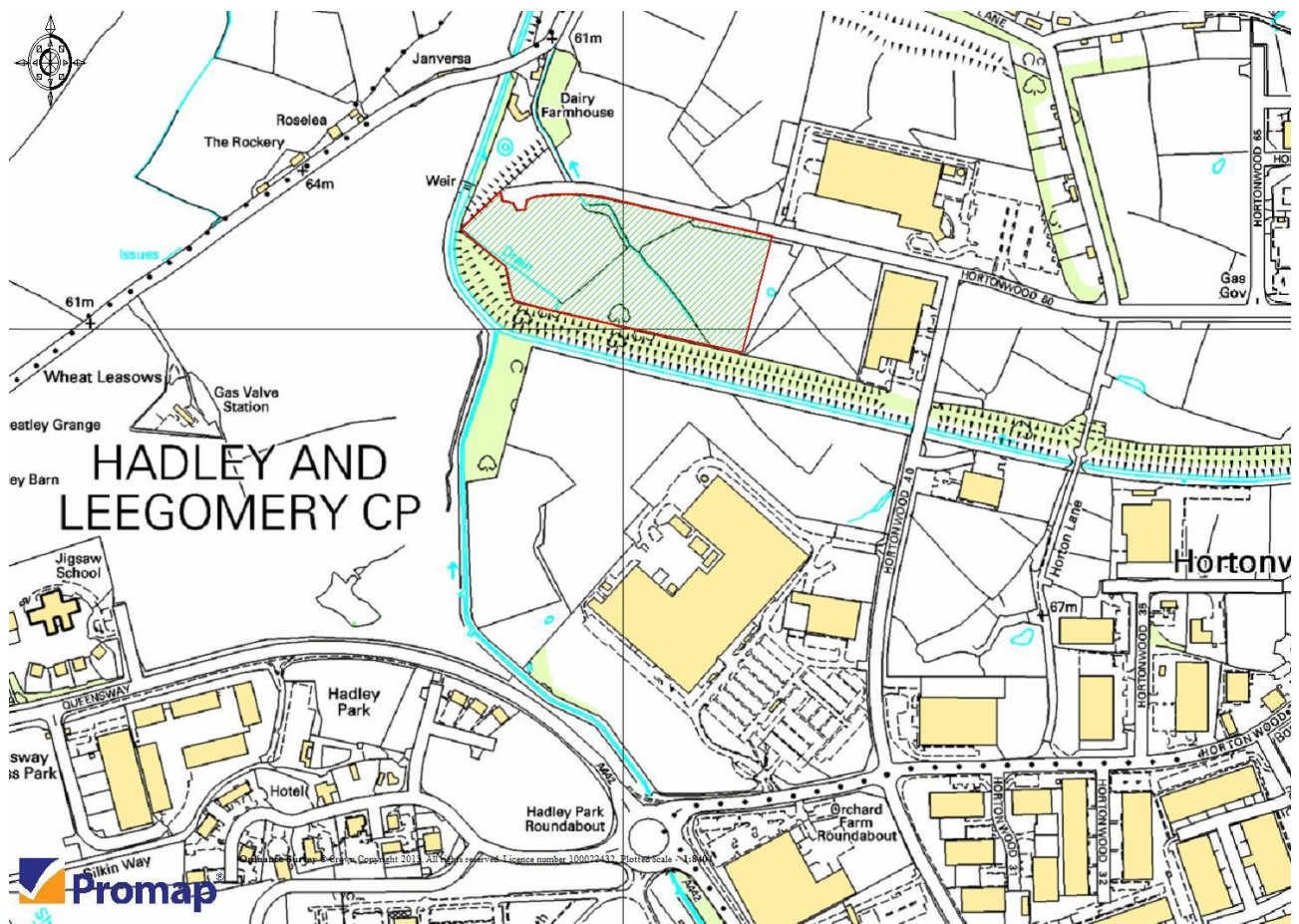
“year” means calendar year ending 31 December.

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:

- 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 fuels, 3% or 5% for gaseous fuels, 6% dry for solid fuels; and/or
- 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



Permit Number: EPR/QP3233NQ Operator: Pickstock Telford Ltd

Facility: East Hortonwood Form Number: Air1 / 04/09/18
Abattoir

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]

[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

Date.....

Permit Number: EPR/QP3233NQ

Operator: Pickstock Telford Ltd

**Facility: East Hortonwood
Abattoir**

Form Number: WaterUsage1 / 04/09/18

Reporting of Water Usage for the year

Water Source	Usage (m3/year)	Specific Usage (m3/unit output)

Operator's comments:

Signed

Date.....

(authorised to sign as representative of Operator)

Permit Number: EPR/QP3233NQ

**Operator: Pickstock Telford
Ltd**

**Facility: East Hortonwood
Abattoir**

**Form Number:
Energy1 / 04/09/18**

Reporting of Energy Usage for the year

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed

Date.....

Permit Number: EPR/QP3233NQ

Operator: Pickstock Telford Ltd

**Facility: East Hortonwood
 Abattoir**

Form Number: Performance1 / 04/09/18

Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYY

Parameter	Units
Energy usage	tonnes or m3
Water usage	MWh
Total raw material used	tonnes
CHP engine usage	hours
CHP engine efficiency	%
Emergency flare operation	hours
Electricity exported	MWh
Biomethane exported	tonnes or m3

Operator's comments:

Signed

Date.....