

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Birchwood Farms Limited

Monkcastle Pig Farm
Monkcastle Farm
Southwaite
Carlisle
Cumbria
CA4 0PZ

Variation application number

EPR/UP3533UV/V005

Permit number

EPR/UP3533UV

Monkcastle Pig Farm

Permit number EPR/UP3533UV

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. All the conditions of the permit have been varied and are subject to the right of appeal.

This variation authorises the following changes

To increase the number of production pigs, >30kg, to 9520 places, including 2 boars and to reduce the places of rearing pigs, <30kg, from 6,030 to 5,870 places. Sow places are to remain at 880 places.

Two new sheds, Y3 and Y4, will be built to house the increased number of production pigs. They will be built to meet BAT requirements, with fully slatted flooring with frequent vacuum removal of manure.

Finisher sheds A and B will be replaced with two nursery buildings. These will be fully slatted floored with frequent vacuum removal. Building D, which originally operated as a hospital pen, will now be used for served gilts.

The rest of the installation is unchanged and continues to be operated as follows.

Monkcastle Pig Farm is situated approximately two kilometres west of the village of Southwaite. The installation is approximately centred on National Grid Reference NY 42693 46300.

The installation is operated by Birchwood Farms Limited and comprises of 25 buildings in total, in which dry sows are kept on straw, farrowers on either part of fully slatted flooring, weaners and growers on fully slatted flooring, finishers on fully slatted flooring, and gilts and hospital occupants in houses that have solid floors and are straw bedded. All buildings are insulated and ventilation is provided by automated natural ventilation and/or by fans, with the exception of the dry sow and gilt yard houses which are naturally ventilated.

Solid manure is either removed direct by trailer, or is stored on concrete for maximum of 2 days, the liquid content being into a tank prior to removal. Slurry mainly exported from the site on a weekly basis to slurry storage facilities belonging to other operators or applied to land, depending on the time of year, closed periods, and the soil and weather conditions. The remaining slurry, effluent wash water and any contaminated water is either pumped or tankered to the two dirty water lagoons on site or is applied directly to land.

Liquid and dry feed are stored and mixed on site and water is provided via nipple drinkers.

The installation is part of the National Fallen Stock Scheme and deadstock is kept in a secure container for collection by a licenced deadstock collector.

There is one Special Areas of Conservation (SAC) within 5km of the installation. In addition three other nature conservation sites within 2km comprising of three ancient woodlands. There are no Sites of Special Scientific Interest (SSSI) within 5km of the installation. An assessment of the impact of emissions has been carried out and the installation is considered to have no adverse effect on the nature conservation sites.

This permit implements the requirements of the European Union Directive on Industrial Emissions.

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 received EPR/UP3533UV/V005	Duly made 24/01/07	Application for intensive farming application.
Permit issued	30/10/07	Permit issued to Birchwood Farm Limited
Application EPR/UP3533UV/V002 received (PAS Ref TP3133FV)	14/03/11	
Request for further information	Information received 07/06/11	Request for further information in relation to pig numbers and weights
Request for further information	Information received 15/06/11	Request for further information in relation to drainage and ventilation from the new buildings
Request for further information	Information received 16/06/11	Clarification on piglet inclusion
Variation EPR/UP3533UV/V002 issued	21/06/11	Variation issued to Birchwood Farm Limited
Area initiated Partial Surrender EPR/UP3533UV/S003	23/06/11	Request to remove land from the installation boundary incorporated on issue in error
Area initiated Partial Surrender EPR/UP3533UV/S003 determined	08/07/11	
Area initiated variation EPR/UP3533UV/V004	23/06/11	Application withdrawn
Variation EPR/UP3533UV/V005	Duly made 16/10/19	Application to vary pig numbers and include two new buildings within current permit boundary
Variation EPR/UP3533UV/V005 issued	25/02/20	Variation issued to Birchwood Farm Limited

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/UP3533UV

Issued to

Birchwood Farms Limited (“the operator”)

whose registered office is

**Woodside
America Wood
Wreay
Carlisle
Cumbria
CA4 0RS**

company registration number 03077576

to operate an installation at

**Monkcastle Pig Farm
Monkcastle Farm
Southwaite
Carlisle
Cumbria
CA4 0PZ**

to the extent set out in the schedules.

The notice shall take effect from 25/02/20

Name	Date
Anne Lloyd	25/02/20

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit EPR/UP3533UV as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/UP3533UV

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/UP3533UV/V005 authorising,

Birchwood Farms Limited (“the operator”),

whose registered office is

**Woodside
America Wood
Wreay
Carlisle
Cumbria
CA4 0RS**

company registration number 03077576

to operate an installation at

**Monkcastle Pig Farm
Monkcastle Farm
Southwaite
Carlisle
Cumbria
CA4 0PZ**

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

Name	Date
Anne Lloyd	25/02/20

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, so far as is reasonably practicable, including those risks 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 the permit.

1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities; and
 - (b) maintain records of fuel and energy consumption used in the activities;

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

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

- 1.4.1 The operator shall take appropriate measures to ensure that the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities and that;
- (a) 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
 - (b) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

2 Operations

2.1 Permitted activities

- 2.1.1 The only activities authorised by the permit are 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 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 The operator shall maintain and implement a system to record the number of animal places and animal movements.

2.3.4 The operator shall ensure that a diet formulation and nutritional strategy is used to reduce the total nitrogen and total phosphorous excreted.

2.3.5 The operator shall take appropriate measures in disposal or recovery of solid manure or slurry to prevent, or where this is not practicable, to minimise pollution.

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

2.3.7 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.

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 specified in table S3.1 and S3.2.

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

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

3.2 Emissions of substances not controlled by emission limits

3.2.1 Emissions of substances not controlled by emission limits 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; and
- (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.

3.5 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 tables S3.1 and S3.2; and
- (b) process monitoring specified in table S3.3.

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

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

3.6 Pests

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

3.6.2 The operator shall:

- (a) if notified by 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, hazard or annoyance from pests; and

- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

- 4.1.1 All records required to be made by schedules 3, 4 and 5 to 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 maintain convenient access, in either electronic or hard copy, to the records, plans and management system required to be maintained by this permit.

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 For the following activities referenced in schedule 1, table S1.1 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.
- 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.
- 4.2.4 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.

4.3 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; and
- (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:

- (c) any change in the operator's name or address; and
- (d) any steps taken with a view to the dissolution of the operator.

In any other case:

- (e) the death of any of the named operators (where the operator consists of more than one named individual);
- (f) any change in the operator's name(s) or address(es); and
- (g) 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 listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
Section 6.9 A(1)(a)(ii) Rearing of pigs intensively in an installation with more than 2,000 places for production pigs (over 30 kg)	Rearing of pigs intensively in an installation with a capacity for 9520 production pig (over 30 kg) places, including 2 boars.	Keeping of production pigs and not served gilts (over 30 kg), including from receipt of raw materials and fuels on to the site to pigs and associated wastes being removed from site.
Section 6.9 A(1)(a)(iii) Rearing of pigs intensively in an installation with more than 750 places for sows	Rearing of pigs intensively in an installation with a capacity for 880 sow places.	Keeping of sows and served gilts for production of piglets, from receipt of raw materials and fuels on to the site to removal of sows and associated wastes from site.
Directly Associated Activity	Description of specified activity	Limits of specified activity
Rearing of pigs (up to 30 kg)	Rearing of 5870 pigs to 30 kg.	From weaning pigs and receipt of raw materials and fuels on to the site up to pigs reaching 30 kg and removal of pigs and associated wastes from site.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/UP3533UV/A001	The responses to sections B2.3.1, B2.3.2, B2.3.3, B2.5.1, B2.5.2, B2.5.3, B2.7.1 and B2.7.2 in the Application	24/01/07
Variation Application EPR/UP3533UV/V002	The response to Part C3, Table 3, excluding Site Plan	14/03/11
Variation Application EPR/UP3533UV/S003	Agency initiated variation to amended permit boundary	23/06/11
Variation Application EPR/UP3533UV/V005	Responses to Part C3.5 of the application form and reference supporting documentation and responses to Not Duly Made request for further information (sent 25/09/19) confirming information on site drainage and emission points.	16/10/19
Additional information received 15/01/20	Noise Management Plan	15/01/20

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	A written plan shall be submitted to the Environment Agency for approval detailing proposals for replacing or covering existing uncovered slurry stores and lagoons to comply with the requirements of section 5.3.1 of TGN How to Comply, Version 1. The proposals shall include a timetable for the replacement and refurbishment work. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan. The plan shall be implemented by the operator from the date of approval in	Completed

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	writing by the Environment Agency subject to such amendments or additions as notified by the Environment Agency.	
IC2	<p>A written plan shall be submitted to the Environment Agency for approval detailing proposals for installing an impermeable base with effluent containment for manure stores to comply with the requirements of section 5.3.2 of TGN How to Comply, Version 1. The proposals shall include a timetable for the construction work. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The plan shall be implemented by the operator from the date of approval in writing by the Environment Agency subject to such amendments or additions as notified by the Environment Agency.</p>	Completed
IC3	<p>A written plan shall be submitted to the Environment Agency for approval, following a review of all site drainage at the installation. The plan should take into account the appropriate measures for the management of drainage systems and run-off in S3.3 of TGN How to Comply, Version 1, and include a timetable for any improvements to the drainage system. The notification requirements of condition 2.4.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The plan shall be implemented by the operator from the date of approval in writing by the Environment Agency subject to such amendments or additions as notified by the Environment Agency.</p>	Completed
IC4	<p>A written plan shall be submitted to the Environment Agency for approval following a review of existing pig housing and management practices at the installation. The plan shall take into account the appropriate measures in S5.2.1 & S5.2.2. of TGN How to Comply, Version 1. The plan shall identify measures to reduce emissions to all media, the likely cost of such measures and a proposed timetable for their implementation.</p> <p>The plan shall be implemented by the operator from the date of approval in writing by the Environment Agency subject to such amendments or additions as notified by the Environment Agency.</p>	Completed
IC5	The Operator shall ensure that methods are implemented to prevent, or where that is not practicable minimise, the potential for diffuse pollution by ensuring that foodstuff storage vessels are protected from collision damage.	Completed

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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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
High velocity roof fan outlets shown on the site plan as shown on the site plan in schedule 7	Houses A, B, C, J, K, L, X, Y1, Y2, Y3, Y4	---	---	---	---	---
Medium velocity roof fan outlets shown on the site plan as shown on the site plan in schedule 7	Houses E, G, H, I, M, O, P, Q, R, R2, T	---	---	---	---	---
Side fan outlets as shown on the site plan in schedule 7	Houses D, F, I, M, N, T	---	---	---	---	---
Exhaust from standby generator as shown on the site plan reference 'Air Emission Plan' in application EPR/UP3533UV/V005	Standby Generator	---	---	---	---	---
Vent from fuel/oil tank as shown on the site plan reference 'Air Emission Plan' in application EPR/UP3533UV/V005	Fuel/oil tank	---	---	---	---	---

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
Dirty water and waste pumped or tankered to dirty water lagoons as shown on Site Drainage Plan in application EPR/UP3533UV/V005	Dirty roof water from pig houses and yard drainage	---	---	---	---	---
Emission to field drains as shown on Site Drainage Plan in application EPR/UP3533UV/V005	Uncontaminated roof water from pig houses	---	---	---	---	---
Emission to field drains as shown on Site Drainage Plan in application EPR/UP3533UV/V005	Clean water draining from yard	---	---	---	---	---

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Limit (incl. Unit)	Monitoring frequency (1)	Monitoring standard or method
Pigs rearing from weaners, to production pigs, over 30kg, in houses A, B, G, H, I, J, K, L, M	kg N excreted/animal place/year	From 21/02/2021 13.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen based on the feed intake, dietary content of crude protein and animal performance
	kg P ₂ O ₅ excreted/animal place/year	From 21/02/2021 5.4kg P ₂ O ₅ animal place/year	Annually	Using a mass balance of phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance
Pigs rearing from weaners, to production pigs, over 30kg, in houses A, B, G, H, I, J, K, L, M, on pen/flatdeck with FSF/PSF with vacuum system for frequent slurry removal	kg NH ₃ /animal place/year	From 21/02/2021 2.6 kg NH ₃ /animal place/year	Annually	Estimation using emission factors
Weaners (Rearing of pigs up to 30 kg) in house R2	kg N excreted/animal place/year	From 21/02/2021 4.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen based on the feed intake, dietary content of crude protein and animal performance
	kg P ₂ O ₅ excreted/animal place/year	From 21/02/2021 2.2 kg P ₂ O ₅ animal place/year	Annually	Using a mass balance of phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance
Weaners (Rearing of pigs up to 30 kg) in house R2, on pen/flatdeck with FSF/PSF with vacuum system for frequent slurry removal	kg NH ₃ /animal place/year	From 21/02/2021 0.53 kg NH ₃ /animal place/year	Annually	Estimation using emission factors
Fattening Pigs (production pigs over 30 kg) in houses C, E, F, Y1, Y2	kg N excreted/animal place/year	From 21/02/2021 13.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen based on the feed intake, dietary content of crude protein and animal performance
	kg P ₂ O ₅ excreted/animal place/year	From 21/02/2021 5.4kg P ₂ O ₅ animal place/year	Annually	Using a mass balance of phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance
Fattening Pigs (production pigs over 30 kg) in houses C, E,	kg NH ₃ /animal place/year	From 21/02/2021 2.6 kg NH ₃ /animal place/year	Annually	Estimation using emission factors

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Limit (incl. Unit)	Monitoring frequency (1)	Monitoring standard or method
F, Y1, Y2, on pen/flatdeck with FSF/PSF with vacuum system for frequent slurry removal				
Fattening Pigs (production pigs over 30 kg) in houses Y3, Y4	kg N excreted/animal place/year	13.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen based on the feed intake, dietary content of crude protein and animal performance
	kg P ₂ O ₅ excreted/animal place/year	5.4kg P ₂ O ₅ animal place/year	Annually	Using a mass balance of phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance
Fattening Pigs (production pigs over 30 kg) in houses Y3, Y4, on pen/flatdeck with FSF/PSF with vacuum system for frequent slurry removal	kg NH ₃ /animal place/year	2.6 kg NH ₃ /animal place/year	Annually	Estimation using emission factors
Mating and gestating sows in houses D, O	kg N excreted/animal place/year	From 21/02/2021 30.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen based on the feed intake, dietary content of crude protein, and animal performance
	kg P ₂ O ₅ excreted/animal place/year	From 21/02/2021 15 kg P ₂ O ₅ animal place/year	Annually	Using a mass balance of phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance
Mating and gestating sows in houses D, on solid floor – straw system	kg NH ₃ /animal place/year	From 21/02/2021 5.2 kg NH ₃ /animal place/year	Annually	Estimation using emission factors
Mating and gestating sows in houses O, on PSF with reduced manure pit	kg NH ₃ /animal place/year	From 21/02/2021 2.7 kg NH ₃ /animal place/year	Annually	Estimation using emission factors
Mating and gestating sows and production pigs, over 30kg, in houses N, T	kg N excreted/animal place/year	From 21/02/2021 30.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen based on the feed intake, dietary content of crude protein, and animal performance
	kg P ₂ O ₅ excreted/animal place/year	From 21/02/2021 15 kg P ₂ O ₅ animal place/year	Annually	Using a mass balance of phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Limit (incl. Unit)	Monitoring frequency (1)	Monitoring standard or method
Mating and gestating sows and production pigs, over 30kg, in houses N, T, on solid floor – straw system	kg NH ₃ /animal place/year	From 21/02/2021 5.65 kg NH ₃ /animal place/year	Annually	Estimation using emission factors
Farrowing sows in houses P, Q, R, X (including suckling piglets)	kg N excreted/animal place/year	From 21/02/2021 30.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen based on the feed intake, dietary content of crude protein, and animal performance
	kg P ₂ O ₅ excreted/animal place/year	From 21/02/2021 15 kg P ₂ O ₅ animal place/year	Annually	Using a mass balance of phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance
Farrowing sows (including suckling piglets) in houses P, Q, R, X, on FSF/PSF with combination of water and manure channel	kg NH ₃ /animal place/year	From 21/02/2021 5.6 kg NH ₃ /animal place/year	Annually	Estimation using emission factors
Sows, Farrowers and Pigs	Dust	n/a	Annually	Estimation using emission factors
Boars	Ammonia	n/a	Annually	Estimation using emission factors

Notes

(1) For all existing housing permitted before 21/02/17 the monitoring is a requirement from 21/02/21.

Schedule 4 – Reporting

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Process monitoring Parameters as required by condition 3.5.1	-	Every 12 months	1 January

Table S4.2 Reporting forms		
Media/parameter	Reporting format	Date of form
kg NH ₃ /animal place/year	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	25/02/20
kg N excreted/animal place/year	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	25/02/20
kg P ₂ O ₅ excreted/animal place/year	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	25/02/20
Dust atmospheric mass emission	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	25/02/20

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	
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.

“Animal and Plant Health Agency (APHA)” is the government agency that licences small on farm incinerators; formerly known as the Animal Health and Veterinary Laboratories Agency.

“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.

“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 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.

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

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

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

“Manure and slurry” have the following meaning:

- Manures may be either slurries or solid manures.
- Slurries consist of excreta produced by livestock whilst in a yard or building mixed with rainwater and wash water and, in some cases, waste bedding and feed. Slurries can be pumped or discharged by gravity.
- Slurry includes duck effluent, seepage from manure and wash water.
- Solid manures include farmyard manure (FYM) and comprise material from straw-based housing systems, excreta with lots of straw/sawdust/woodchips in it, or solids from mechanical separators.
- Most poultry systems produce solid manure (litter).
- Solid manure can generally be stacked.

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

“pests” means Birds, Vermin and Insects.

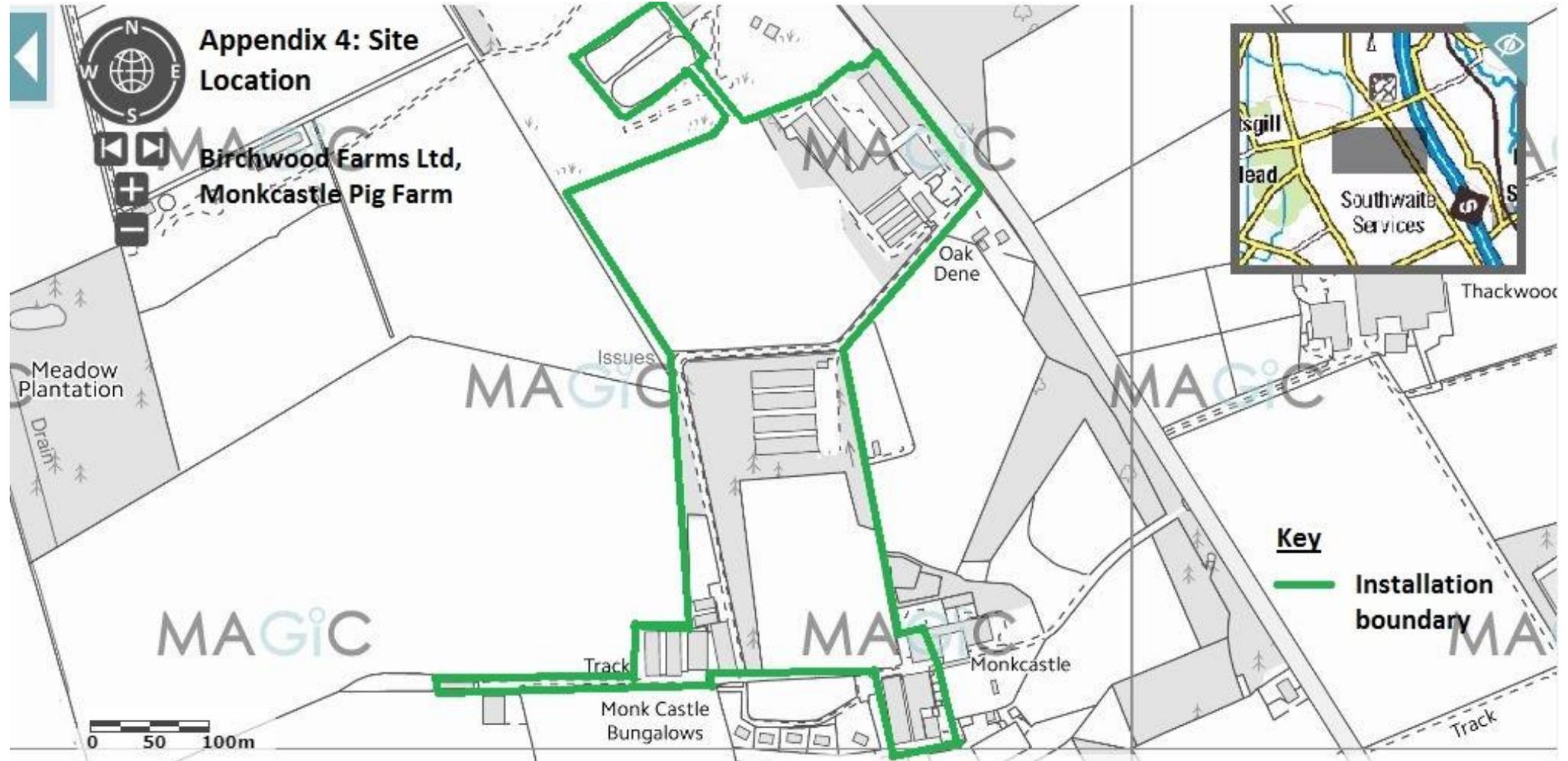
“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk

“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 plan - showing installation boundary as referred to in condition 2.2.1.



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END OF PERMIT

Permit number
EPR/UP3533UV