

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Elsham Linc Limited

Somerby Top Pig Farm
Somerby Wold Lane
Somerby
Barnetby
Lincolnshire
DN38 6BN

Variation application number

EPR/JP3437CW/V003

Permit number

EPR/JP3437CW

Somerby Top Pig Farm

Permit number **EPR/JP3437CW**

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.

Please note the variations made by the Environment Agency are as a result of changes made to bring it in line with modern conditions.

This variation authorises the following changes:

The addition of a slurry acidification system to all four pig houses, to add acid to the slurry to reduce ammonia emissions, including an extension to the installation boundary to include a muckpad and slurry separator, and the associated slurry pipework between the pig houses, mixing tank, muckpad and slurry separator. The following is a list of the additional equipment installed as a result of this variation:

- slurry separator
- concrete muckpad to store the separated solid fraction of the slurry
- bunded acid storage tank to store 96% sulphuric acid
- recirculation pump which controls the release of the slurry from the pig housing and the recirculation of the slurry back into the pig housing
- mixing tank
- dosing pump to dose the sulphuric acid into the slurry in the mixing tank
- mixing pump to mix the slurry within the mixing tank
- pH meter to monitor the pH of the slurry in the mixing tank
- outdoor shower (in case of accidental spillage or leakage of acid coming into contact with persons)
- underground polyethylene pipework for the recirculation of the slurry
- computer control system to control the process and store data

The flooring in the pig housing is fully slatted. The slats facilitate maximum transfer of dung and urine to the pit. The slurry in the slurry channel is emptied daily into a reception pit from where it is pumped via a slurry separator which separates the solid fraction of the slurry onto a concrete base and the liquid fraction of the slurry to a mixing tank. Approximately 20% of this slurry is transferred to two existing slurry stores. The remaining slurry is dosed with sulphuric acid to reduce the pH of the slurry to pH 5.5. This slurry is then pumped back into the slurry channels beneath the finishing housing.

There are no changes to the pig housing construction, ventilation, flooring type, livestock numbers and type, and no changes to the above ground circular slurry storage tanks as a result of this variation.

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

Somerby Top Pig Farm is situated approximately 6.5 kilometres east of Brigg town centre, and 1.6 kilometres east of Bigby village in North Lincolnshire. The installation is approximately centred on National Grid Reference TA 07815 07473.

The installation is operated by Elsham Linc Limited and comprises four pig finishing houses, numbered 1 to 4, each with a capacity for 1,375 pigs, which together provide a total capacity for 5,500 production pigs > 30kg. All four houses use fully slatted floors, with houses 1 and 2 being naturally ventilated through side vents and houses 3 and 4 having both side extraction fan ventilation and side vent outlets.

The pigs are bred and reared to approximately 40kgs at Northmoor Farm, Middle Rasen. Every five weeks approximately 2,750 pigs are brought to this installation and reared for approximately eight to ten weeks (until they reach approximately 100kgs). One batch of pigs will be kept in houses 1 and 2, another batch of pigs will be kept in houses 3 and 4. The latter batch will be either five weeks younger or older than the batch in houses 1 and 2.

The slurry system is as described above, with the addition of the slurry acidification process. The pig houses are washed out every 10 weeks, with the wash water draining to the slurry stores. One slurry store has a floating cover, and the other is fitted with a rigid cover. Slurry is exported from the installation for spreading onto land owned by third parties. Water falling on the loading ramp or pig races also drains to the slurry system.

Rainfall draining from the roof of the pig houses is partly drained to rainwater harvesting tanks for use as wash out water. The remaining water and any overflow from the harvesting tanks drains to soakaways located within the immediate vicinity. Rainfall draining from structures around the installation (e.g. the rigid slurry store cover, feed bins) soaks away around the structures.

There is little hardstanding across the installation, so rainfall soaks into the ground within the installation boundary.

The land around the site is predominantly agricultural land. The surrounding topography is relatively flat and low lying. There are no water courses within 400 metres of the installation boundary. Associated food is stored on the installation in sealed food bins. Mortalities are disposed of in accordance with the Animal By-Products Regulations, whereby fallen stock are kept in a sealed container which is emptied frequently. There is no incineration on site.

The site is subject to a Climate Change Levy Agreement.

An assessment of the impact of ammonia emissions has been carried out and the installation is considered to have no adverse effect on relevant local nature conservation sites.

Grasby Bottoms Green Lane Local Wildlife Site, located within 2km of the installation, is no longer considered relevant for the purposes of the ammonia impact assessment (due to the Appeal decision described in variation EPR/JP3437CW/V002).

The installation is located within a Nitrate Vulnerable Zone and Groundwater Source Protection Zone classification 3 (Source Catchment).

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

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 EPR/JP3437CW/A001	Duly made 19/12/12	Application for an intensive farming pig installation permit.
Additional information received	20/12/12	Receipt of revised Raw Materials Inventory.
Additional information received	25/01/13	Confirmation of site drainage details, pesticide / veterinary medicine store location and ventilation to pig houses.
Additional information received	31/01/13	Confirmation of surface water soakaway drainage details, frequency of slurry removal, and that site closure plan is in place.
Additional information received	14/02/13	Reported amendment to site plan, relocation of two feed bins and addition of a second pig ramp.
Additional information received	15/02/13	Confirmation of changes to pig finishing house ventilation.
Permit determined EPR/JP3437CW/A001	21/02/13	Permit issued to Elsham Linc Limited.
Agency-initiated variation EPR/JP3437CW/V002 requested	28/03/14	Agency initiated variation requested to remove the requirement to feed pigs on a low protein diet, as a result of an Appeal decision.
Agency-initiated variation EPR/JP3437CW/V002 determined	25/04/14	Varied and consolidated permit issued. Permit updated to modern conditions to include the requirements of IED.
Application EPR/JP3437CW/V003 (variation and consolidation)	Duly made 18/01/18	Application to vary the permit to include a slurry acidification system and associated plant, and extend the installation boundary.
Additional information received	08/02/18	Clarification of measures to control odour from the acidification of slurry system, optimisation of the acidification system, ventilation, site drainage, fuel and chemical storage and dust and bioaerosol management plan, and including receipt of revised Odour Management Plan (OMP), H1 Risk Assessment, site drainage plan, Noise Management Plan (NMP), Raw Materials Inventory and Emission to Air documents, and introduction of document 23 'Detailed Description of Slurry Acidification System'.
Additional information received	16/02/18	Further clarification of odour control measures for the mixing tank, acidification of slurry optimisation and pig house ventilation.
Additional information received	26/02/18	Further clarification of odour control measures for the mixing tank
Additional information received	16/03/18	Clarification of emergency shower drainage and location, and pig housing slurry systems.
Variation determined EPR/JP3437CW/V003 (Billing reference: KP3038JR)	26/03/18	The variation was granted and a decision made to make a regulator initiated variation at the same time; varied and consolidated permit issued in modern condition format.

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/JP3437CW

Issued to

Elsham Linc Limited (“the operator”)

whose registered office is

**Cadas House
Wootton Road
Elsham Top
Brigg
North Lincolnshire
DN20 0NU**

company registration number 05525289

to operate an installation at

**Somerby Top Pig Farm
Somerby Wold Lane
Somerby
Barnetby
Lincolnshire
DN38 6BN**

to the extent set out in the schedules.

The notice shall take effect from 26/03/2018

Name	Date
Anne Nightingale	26/03/2018

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions, tables and schedule have been varied as a result of the application made by the operator:

Addition of condition 2.4 and table S1.3

Amendment of condition 4.3.2, tables S1.1, S1.2 and S3.1 and Schedule 7 site plans

The following conditions, schedules and tables were varied by the Environment Agency as a result of consolidating the permit, to bring it in line with modern conditions:

Addition of conditions 2.3.4, 2.3.6, 3.5.1 (b), 3.5.2, 3.5.3, 4.2.2, 4.2.3 and tables S3.3, S4.1 and S4.2

Amendment of conditions 1.1.1 (a), 1.2.1 (b), 1.4.1, 2.1.1, 3.1.1, 3.2.1, 3.2.2 (a), 3.6.2 (a), 4.1.1, 4.1.2, 4.3.1, 4.4.2, table S3.2, Schedule 5 Part A and Schedule 6

Amendment and renumbering of condition 2.3.5

Removal of conditions 1.2.1 (c), 1.3.1 (c), 1.3.1 (d), 1.4.2 and former condition 2.3.5

Renumbering of conditions 2.3.1, 2.3.2, 2.3.3, 2.3.7, 4.2.4, 4.3.4

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/JP3437CW

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/JP3437CW/V003 authorising,

Elsham Linc Limited (“the operator”),

whose registered office is

**Cadas House
Wootton Road
Elsham Top
Brigg
North Lincolnshire
DN20 0NU**

company registration number 05525289

to operate an installation at

**Somerby Top Pig Farm
Somerby Wold Lane
Somerby
Barnetby
Lincolnshire
DN38 6BN**

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

Name	Date
Anne Nightingale	26/03/2018

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;
 - (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 activity (*activities*) authorised by the permit is (*are*) the activity (*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.

2.4 Pre-operational conditions

2.4.1 The operations specified in schedule 1 table S1.3 shall not commence until the measures specified in that table have been completed.

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 5,500 production pig (over 30 kg) places.	From receipt of production pigs and not served gilts (over 30 kg), raw materials and fuels on to the site to pigs and associated wastes being removed from site.
Directly Associated Activity	Description of specified activity	Limits of specified activity
Slurry Acidification System	Slurry Acidification at pH of 5.5	From receipt of raw materials to recycling of acidified slurry including all relevant storage and pipework systems plus removal of associated wastes from site.

Table S1.2 Operating techniques ⁽¹⁾		
Description	Parts	Date Received
Application EPR/JP3437CW/A001	Responses to Part B3 section 3 of the application form and referenced supporting documentation.	19/12/12
Application EPR/JP3437CW/A001	Odour management plan reference 'Odour Management Plan for Somerby Top Pig Farm' and Noise management plan reference 'Noise Management Plan for Somerby Top Pig Farm' in response to Part B3 section 3b, Table 3b – General Requirements of the application form.	19/12/12
Application EPR/JP3437CW/A001	Covering of all slurry stores with low emission covers, reference 'Document 4 Non Technical Summary' provided in response to Part B3 section 3 of the application form.	19/12/12
Request for Information dated 19/12/12	Response to Request for Information confirming Raw Materials Inventory.	20/12/12
Request for Information dated 21/01/13	Response to Request for Information confirming details of site drainage plan, location of pesticides / veterinary medicines store, and ventilation to pig houses.	25/01/13
Request for Information dated 28/01/13	Response to Request for Information confirming surface water soakaway drainage details, frequency of slurry removal, and that site closure plan is in place.	31/01/13
Reported change to application dated 14/02/13	Reported change to site plan including relocation of two feed bins and addition of second pig ramp.	14/02/13
Request for Information dated 15/02/13	Response to Request for Information confirming reported change to ventilation details.	15/02/13
Additional information received during determination of EPR/JP3437CW/V002	Technical Standards – updated document received on 17/04/14 by email, amended to state floating covers to be used on both slurry stores and with no requirement for use of a low protein diet.	17/04/14

Table S1.2 Operating techniques ⁽¹⁾		
Description	Parts	Date Received
Variation application EPR/JP3437CW/V003	Responses to Application form C3.5 and referenced supporting documentation. Responses to not duly made request for information (sent 16/01/18), including revised documents: Document 3 H1 Environmental Risk Assessment updated 17 Jan 2018 Document 6 Site Plan updated 17 Jan 2018 Document 20 Site Condition Report updated 18 Jan 2018	18/01/18
Additional information requested 07/02/18	Responses to Request for Further Information including clarification of measures to control odour from the acidification of slurry system, optimisation of the acidification system, ventilation, site drainage, fuel and chemical storage and dust and bioaerosol management plan, and introduction of document 23 Detailed Description of Slurry Acidification System. Receipt of revised documents: Document 3 H1 Risk Assessment updated 8 Feb 2018 Document 7 Site Drainage Plan updated 8 Feb 2018 Document 8a Emission to Air documents updated 8 Feb 2018 Document 10 Odour Management Plan (OMP) updated 8 Feb 2018 Document 11 Noise Management Plan (NMP) updated 8 Feb 2018 Document 12 Raw Materials Inventory updated 8 Feb 2018	08/02/18
Additional information requested 16/02/18	Responses to Request for Further Information including clarification of odour control measures in the OMP, acidification of slurry optimisation and pig house ventilation.	16/02/18
Additional information requested 19/02/18	Response to Request for Further Information including clarification of odour control measures for mixing tank	26/02/18
Additional information requested 02/03/18, 12/03/18 and 15/03/18	Response to Request for Further Information clarifying emergency shower drainage and location	16/03/18
Additional information requested 15/03/18	Response to Request for Further Information clarifying the pig housing slurry systems	16/03/18

Notes

(1) Where there is any contradiction or divergence between the operating techniques described in the documentation above then Condition 2.3.1 shall apply to the operating techniques detailed in the documentation received on the most recent date.

Table S1.3 Pre-operational measures for future development

Reference	Operation	Pre-operational measures
PO1	Installation of infrastructure linked to the new acidification of slurry system	<p>At least 4 weeks before the sulphuric acid infrastructure is installed on the installation, the operator shall submit a written plan to the Environment Agency for approval detailing the following information to minimise the risk of sulphuric acid run-off to ground or surface water from the emergency shower:</p> <ul style="list-style-type: none">• Final location of the emergency shower confirmed on an updated site drainage plan• Operating techniques in place for usage of the shower in a manner to minimise run-off of any sulphuric acid including operating practices and containment facilities. <p>The written plan shall be approved in writing by the Environment Agency prior to the installation of infrastructure linked to the new acidification of slurry system.</p>

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
Side vents on pig house 1 – 4 as shown on the site plan in Schedule 7	Pig houses 1 - 4	---	---	---	---	---
Side fan outlets on pig houses 3 and 4 as shown on the site plan in schedule 7	Pig houses 3 - 4	---	---	---	---	---
Vent from sulphuric acid tank as shown on the site plan in schedule 7	Sulphuric acid tank	---	---	---	---	---
Vent from mixing tank as shown on the site plan in schedule 7	Mixing 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
Soakaways adjacent and between pig finishing houses as indicated on the revised site drainage plan received 08/02/18 in support of application EPR/JP3437CW/V003	Roof water from pig houses 1, 2, 3 and 4 (partially via rainwater harvesting tanks if tanks overflow)	---	---	---	---	---
Soakaways surrounding site office, slurry stores and site store shown on the site plan in schedule 7	Roof water from store, site office and slurry stores.	---	---	---	---	---
Land within installation boundary shown on site plan in schedule 7, acting as soakaway	Rainfall on to land within installation boundary	---	---	---	---	---
Soakaways around feed bins shown on site plan in schedule 7	Rainfall onto 3 x 3 metre concrete slabs under each feed bin	---	---	---	---	---

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
Fattening Pigs (production pigs over 30 kg) in houses 1 - 4	kg N excreted/animal place/year	From 21/02/21 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 or Estimation by using manure analysis for total nitrogen content
Fattening Pigs (production pigs over 30 kg) in houses 1 - 4	kg P ₂ O ₅ excreted/animal place/year	From 21/02/21 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 or Estimation by using manure analysis for total phosphorus content
Fattening Pigs (production pigs over 30 kg) in houses 1 – 4	kg NH ₃ /animal place/year	From 21/02/21 2.6 kg NH ₃ /animal place/year	Annually	Estimation using emission factors
Fattening Pigs (production pigs over 30 kg) in houses 1 - 4	Dust	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

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
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	26/03/18
kg N excreted/animal place/year & kg P ₂ O ₅ excreted/animal place/year	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	26/03/18
Dust atmospheric mass emission	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	26/03/18

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.

“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.

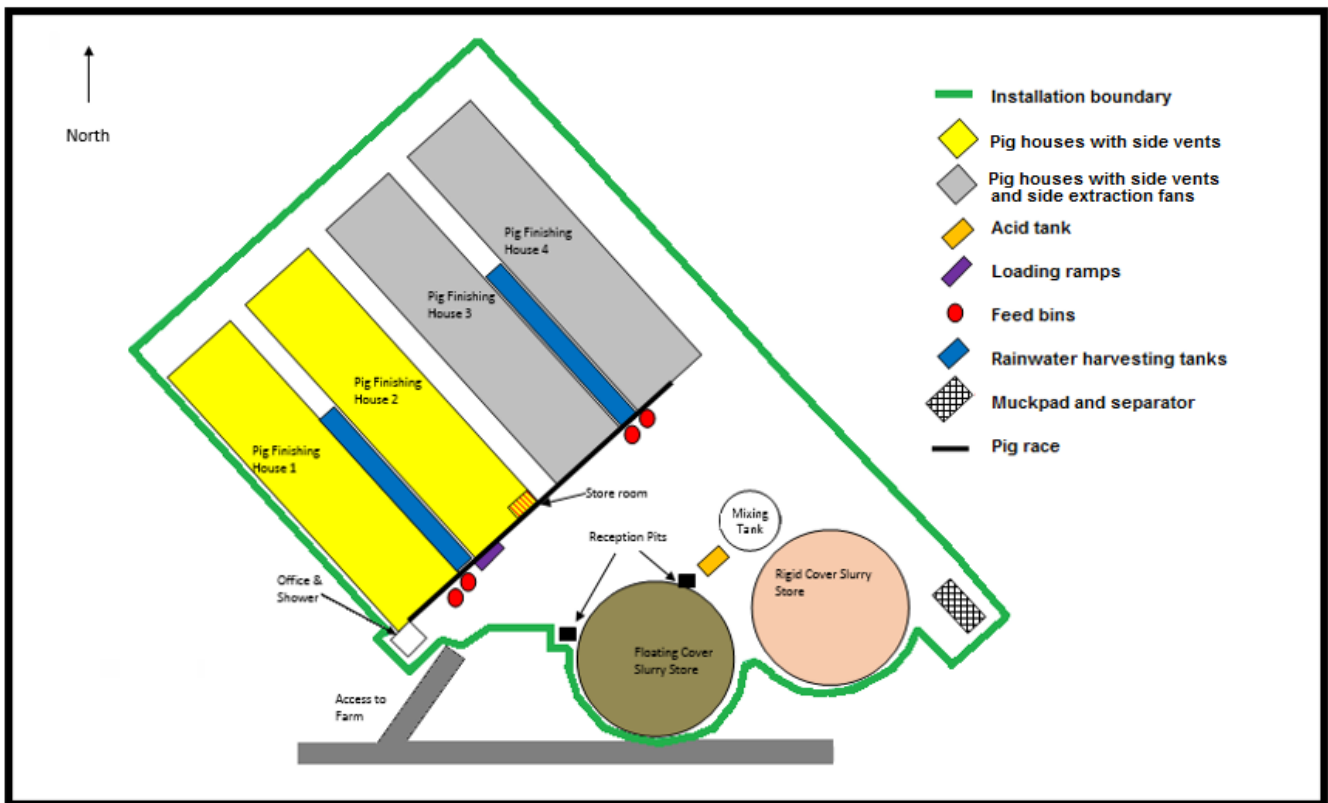
‘Waste code’ means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk

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

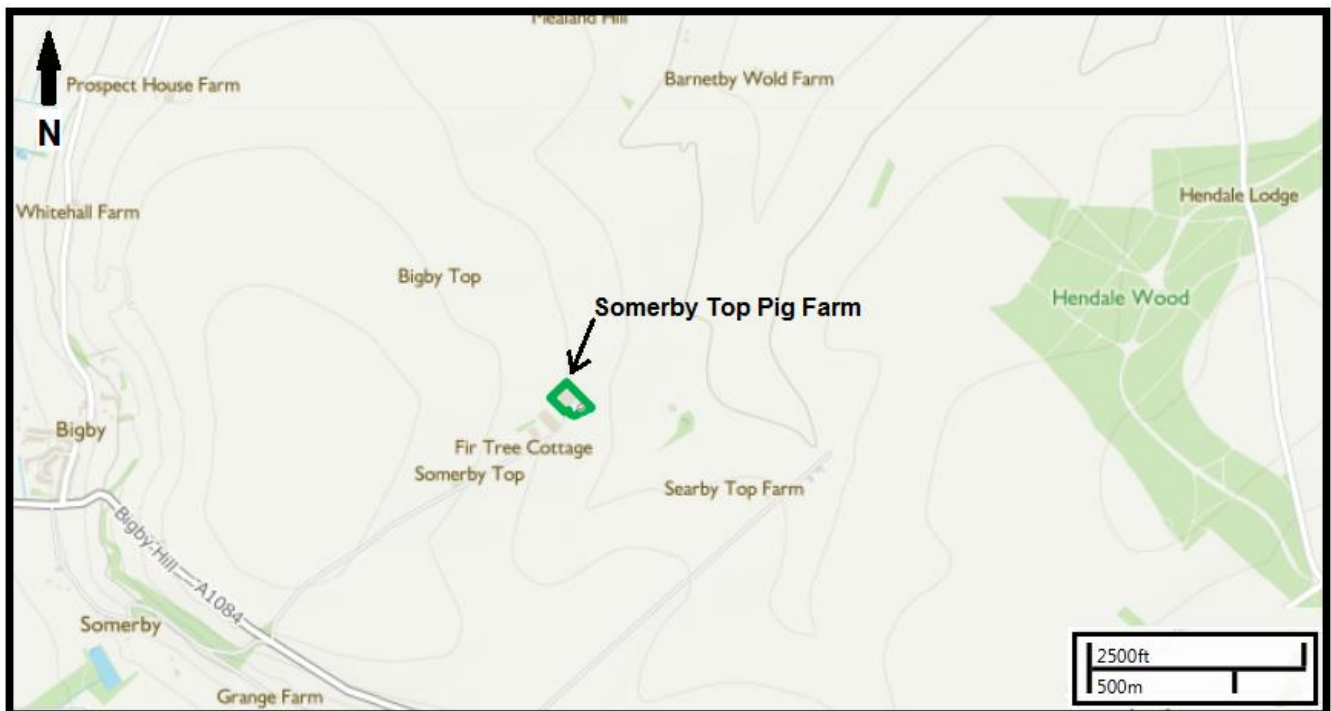
“year” means calendar year ending 31 December.

Schedule 7 – Site plan

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



Site location plan



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END OF PERMIT

Permit number
EPR/JP3437CW