

PUBLIC REGISTER COPY

Reference Number: PPC/A/1016817

SCOTTISH ENVIRONMENT PROTECTION AGENCY

POLLUTION PREVENTION AND CONTROL ACT 1999

**POLLUTION PREVENTION AND CONTROL (SCOTLAND) REGULATIONS 2012
("THE REGULATIONS")**

NOTICE OF VARIATION TO PERMIT

Permit No: PPC/A/1016817/VN02 (As Varied)

To: D W Argo

**Address: Brigstanes Farm
Catterline
Stonehaven
Aberdeenshire
AB39 2AU**

The Scottish Environment Protection Agency ("SEPA"), in exercise of its powers under Regulation 46 of the Regulations, hereby gives you notice that it has decided, to vary permit PPC/A/1016817/VN02 (As Varied) granted under the Regulations. The variations are specified in the Schedule to this notice and take effect on 10 January



Date: 10/01/2018

Scottish Environment Protection Agency

Right of Appeal

Under Regulation 58 of the Regulations you are entitled to appeal to the Scottish Ministers against the conditions attached to this Notice, except where SEPA has served this Notice to implement a direction to SEPA of the Scottish Ministers. The bringing of an appeal will not have the effect of suspending the operation of the conditions attached to this Notice. The procedures and timescales for the making of an appeal are set out in Schedule 8 of the Regulations

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SCOTTISH ENVIRONMENT PROTECTION AGENCY

POLLUTION PREVENTION AND CONTROL ACT 1999

POLLUTION PREVENTION AND CONTROL (SCOTLAND) REGULATIONS 2012
("THE REGULATIONS")

SCHEDULE TO NOTICE OF VARIATION UNDER REGULATION 46(8)

Operator: D W Argo
Permit Number: PPC/A/1016817 (As Varied)
Date of Permit: 27 September 2007
Variation No: 02

Permit number PPC/A/1016817(As Varied) has been varied as follows:

1. The following is deleted from the Interpretation of Terms:

"the site" of the Permitted Installation comprises the two areas of land named "Brigstanes Main Unit" and "Brigstanes Shed 15 Unit" respectively and collectively referred to as "Brigstanes Farm".

2. The following is added to the Interpretation of Terms:

"the site" of the Permitted Installation comprises the two areas of land named "Brigstanes Main Unit" and "Brigstanes Second Unit" respectively and collectively referred to as "Brigstanes Farm".

3. Paragraph 1.1.4.1 is deleted and replaced with Paragraph 1.1.4.1 below:

1.1.4.1 15 pig housing units with a capacity more particularly described below:

- a) 9858 places for production pigs over 30 kg;
- b) 909 places for sows;

The locations of the housing units are shown in Plans 1.2, 1.2.1 and 1.2.2 attached to this Schedule.

4. Paragraph 1.1.4.2 is deleted and replaced with Paragraph 1.1.4.2 below:

1.1.4.2 Ventilation systems more particularly described below:

- a) Natural ventilation in sheds 1, 2, 3 and 4;
- b) Roof extraction fans in sheds 5, 6, 7, 8, 9, 10, 11 and 12;
- c) Automatically controlled natural ventilation in sheds 13 and 14
- d) Side extraction fans in shed 17
- e) High velocity roof fans in shed 18

5. Paragraph 1.1.4.5 is deleted and replaced with Paragraph 1.1.4.5 below:

1.1.4.5 Feed delivery systems more particularly described below:

- a) Augers used to supply dry feed from the storage bins to the feeding stations located within each pen in sheds 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 and 13.
- b) A series of pipe used to supply wet feed to the feeding stations located in each pen in sheds 11, 14, 17 and 18.

6. Paragraph 1.1.5.2 has been deleted and replaced with Paragraph 1.1.5.2 below:

1.1.5.2 Feed storage and preparation carried out in infrastructure more particularly described below:

- a) A dry feed mill serving the dry feed silos as shown on the Detailed Layout Plans.
- b) A series of silos for holding feed mix as shown on the Detailed Layout Plans.
- c) A wet feed preparation area located in Shed 11 as shown on Detailed Layout Plan 1.2.1.
- d) A wet feed preparation area located in Shed 17 as shown on Detailed Layout Plan 1.2.2.

7. Paragraph 1.1.5.3 is deleted and replaced with Paragraph 1.1.5.3 below:

1.1.5.3 Handling of slurries and manures carried out using infrastructure more particularly described below:

- a) An uncovered manure pit with impervious walls and a floor featuring a channel for the collection of liquid runoff. The location of the manure pit is shown on Detailed Layout Plan 1.2.1.
- b) A series of below ground slurry storage tanks below the fully slatted housing, with a total capacity of 12,122.6m³. These tanks are connected by overflows to a below ground slurry reception tank with a capacity of 840m³.
- c) An above ground slurry tank with a total capacity of 6801.3m³ for the storage of slurry from the slurry collection system within the housing units and any liquid runoff from the manure pit. The location of the tank is shown on the Detailed Layout Plan.

8. Paragraph 1.1.5.5 is deleted and replaced with Paragraph 1.1.5.5 below:

1.1.5.5 Lightly contaminated runoff collection, drainage and treatment more particularly described below:

- a) Swales.

9. 1.2 Site Plan is deleted and replaced with 1.2 Site Plan below:

1.2 Site Plan



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10. 1.2.1 Detailed Layout Plan is deleted and replaced with 1.2.1 Detailed Layout Plan below:

1.2.1 Detailed Layout Plan Brigstanes Main Unit



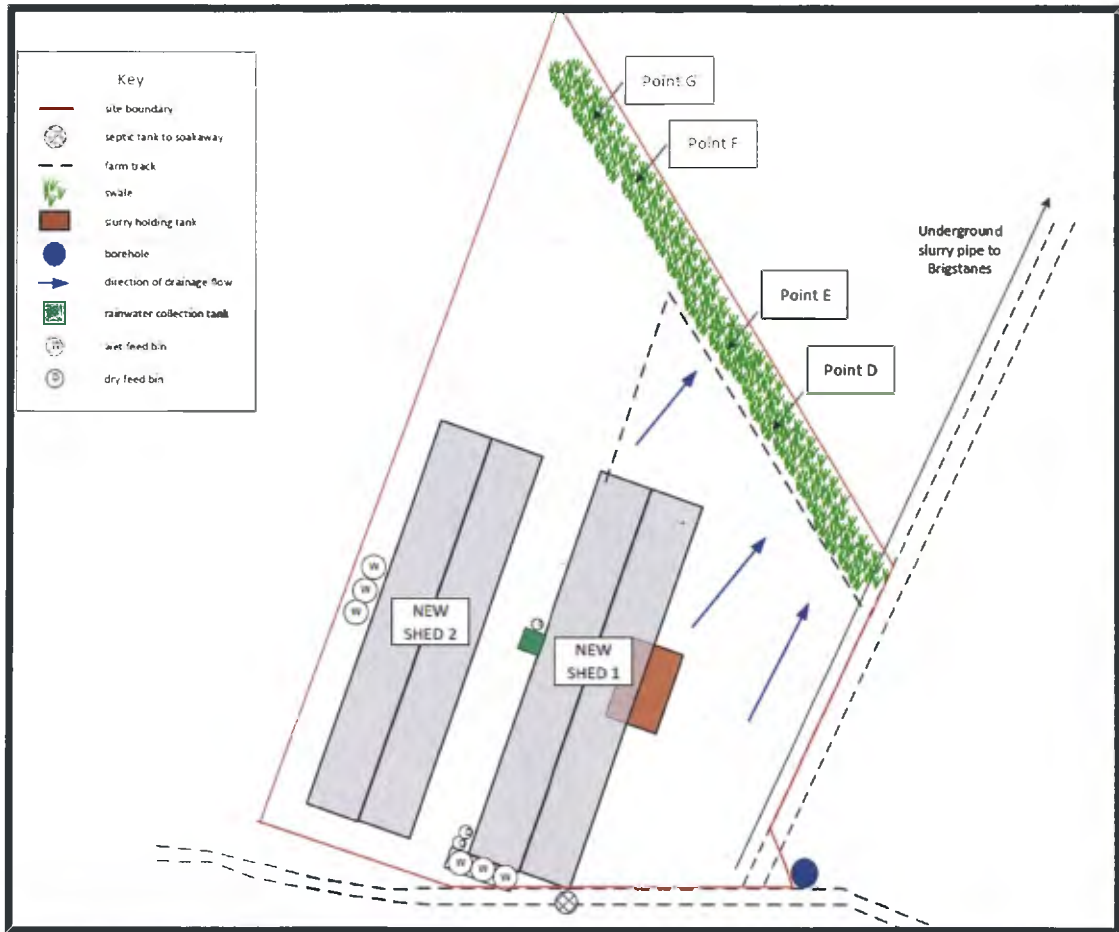
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Legend

	Manure Store
	Chemical Store
	Dead Stock Bin
	Feed silo

11. 1.2.2 Detailed Layout Plan is deleted and replaced with 1.2.2 Detailed Layout Plan below:

1.2.2 Detailed Layout Plan Brigstanes Second Unit



12. **Schedule 2 has been deleted and replaced with Schedule 2 on the next page:**

2 GENERAL CONDITIONS

2.1 General Management

- 2.1.1 The Operator shall have an appropriate person (and deputy) as the primary point of contact with SEPA and shall notify SEPA in writing of the name of the appointed person (and deputy).
- 2.1.2 In the event of a different person being appointed to act as primary point of contact (or deputy) the Operator shall notify SEPA in writing of the name of the appointed person or deputy without delay.
- 2.1.3 A copy of this Permit shall be kept at the Permitted Installation and shall be made readily accessible for examination by all staff.
- 2.1.4 The Operator shall ensure that all staff engaged in carrying on the Permitted Activities are fully conversant with those aspects of the Permit conditions which are relevant to their duties.
- 2.1.5 The Permitted Activities shall be managed and operated:
- a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, incidents and non-conformances and those drawn to the attention of the Operator as a result of complaints; and
 - b) by staff who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.
- 2.1.6 Records demonstrating compliance with Condition 2.1.5 shall be maintained by the Operator.

2.2 Resource Utilisation

- 2.2.1 At least every four years, the Operator shall carry out a systematic assessment to determine:
- 2.2.1.1 how and where raw materials (including water and fuel) and energy are used within the Permitted Installation;
 - 2.2.1.2 the quantities of raw materials (including water and fuel) and energy used within the Permitted Installation;
 - 2.2.1.3 how and where material losses and wastes are generated within the Permitted Installation;
 - 2.2.1.4 the quantities of material losses and wastes are generated within the Permitted Installation;
 - 2.2.1.5 how and where raw materials (including water) and energy can be utilised more efficiently within the Permitted Installation to reduce resource use and minimise material losses and waste; and
 - 2.2.1.6 which of the resource efficiency measures identified in 2.2.1.5 will be implemented at the Permitted Installation during the 4 year assessment cycle.
- 2.2.2 The assessment required by condition 2.2.1 shall be recorded using the SEPA "systematic assessment of resource use and efficiency template" (IED-T-04), or an equivalent format as agreed by SEPA, and reported to SEPA as specified in Table 2.1.
- 2.2.3 The operator shall implement the resource efficiency measures identified in the systematic assessment within the timescales specified in the systematic assessment.
- 2.2.4 The information required in 2.2.1.2 and 2.2.1.4 shall be recorded annually.
- 2.2.5 For the purposes of condition 2.2.1 "raw materials, "energy" and "fuel" shall, as a minimum, include the materials listed in Table 2.2.
- 2.2.6 In the event that the permitted installation ceases to be covered by a climate change agreement, the operator shall provide written notification to SEPA within one month of such cessation.

2.3 Livestock Manure (Slurry and manure storage)

- 2.3.1 The Operator shall ensure that all slurry and manure management systems within the Permitted Installation are designed, constructed and managed in accordance with the SFIR with the aim of preventing, or where that is not possible, minimising emissions from those systems.

2.4 Waste Handling and Storage

- 2.4.1 The Operator shall maintain a record of the location, estimated quantities and types of all wastes stored within the Permitted Installation.

2.5 Individual Source Emissions to Air, Water or Land

- 2.5.1 Unless specified elsewhere in this Permit, there shall be no individual source emissions from the Permitted Installation to the water environment, air or land.
- 2.5.2 Unless otherwise stated in this Permit, individual source emissions of roof water and drainage from yards shall be treated prior to discharge into the water environment. The Operator shall ensure that the treatment facilities for said emissions are designed, constructed and maintained in accordance with the SFIR.

2.6 Diffuse Source emissions (excluding odour and noise)

- 2.6.1 Subject to conditions 2.7.1 and 2.8.1 the Operator will prevent, or where that is not possible, minimise diffuse source emissions.
- 2.6.2 Notwithstanding condition 2.6.1 there shall be no diffuse source emission of any pollutants to groundwater or soil from the Permitted Installation.
- 2.6.3 The Operator shall maintain plans of the surface and foul water drainage system including all sub-surface sumps and storage vessels that are used or have been used within the Permitted Installation from the date of the Permit until the Permit is surrendered. Details of any changes made to drainage systems during the lifetime of the Permit shall also be maintained.
- 2.6.4 Disinfectant footbaths shall not be allowed to overflow. The spent disinfectant contained in foot baths and wheel washes shall be stored securely prior to disposal.
- 2.6.5 Containment shall be provided for foodstuffs to prevent spillages and minimise waste. This containment shall be protected from collision damage.
- 2.6.6 All oil storage facilities shall meet equivalent technical standards to those set out in Regulation 6 of the Water Environment (Oil Storage) (Scotland) Regulations 2006.
- 2.6.7 Pesticides and veterinary medicines shall be kept in a store that is resistant to fire, capable of retaining leakage or spillage, dry, frost-free and secure against unauthorised access.

2.7 Odour

- 2.7.1 All emissions to air from the Permitted Installation shall be free from offensive odour, as perceived by an Authorised Person, outside the Site Boundary.
- 2.7.2 The Operator shall implement and maintain an "Odour Management Plan" designed to meet the requirements of condition 2.7.1.
- 2.7.3 The operator shall carry out a systematic assessment and review of the Odour Management Plan at least every 4 years or as soon as practicable after SEPA has informed the Operator that it believes a breach of condition 2.7.1 may have occurred. Any appropriate changes identified should be implemented as soon as reasonably practicable.

2.7.4 Any change to the odour management plan required under condition 2.7.3 shall be submitted to SEPA within one week of the revision having taken place.

2.8 Noise and Vibration

2.8.1 Emissions from the Permitted Installation shall be free from noise and vibration at levels likely to cause pollution, as perceived by an Authorised Person outside the Site Boundary.

2.8.2 The operator shall implement and maintain a noise management plan designed to meet the requirements of condition 2.8.1.

2.8.3 The operator shall Carry out a systematic assessment and review of the Noise Management Plan at least every 4 years or as soon as practicable after SEPA has informed the Operator that it believes a breach of condition 2.8.1 may have occurred. Any appropriate changes identified should be implemented as soon as reasonably practicable.-

2.8.4 Any change to the noise management plan required under condition 2.8.2 shall be submitted to SEPA within one week of the revision having taken place.

2.9 Livestock Diet Selection and Use of Feedstuffs

2.9.1 The Operator shall provide livestock with a diet which minimises the excretion of:

- nitrogen; and
- phosphorus

whilst ensuring the correct dietary needs of the livestock are met.

2.9.2 The Operator shall keep a record of the diets fed to livestock over the growing cycle.

2.10 Housing Design and Management

2.10.1 Housing shall be designed and managed to minimise emissions.

2.10.2 Any water used for cleaning within housing shall be collected and stored in a secure container until export from the Permitted Installation can take place.

2.10.3 Drinkers and troughs shall be designed and operated to prevent leakage.

2.10.4 The Operator shall implement and maintain a system to record the number of animal places and movements.

2.11 Incident Prevention and Reporting

2.11.1 In the event of an incident all necessary measures shall immediately be taken:

- a) to prevent , or where that is not practicable to reduce, emissions from the permitted installation;

- b) to limit the environmental consequences as a result of that incident;
and
c) to prevent further possible incidents.
- 2.11.2 Without prejudice to the requirements of condition 2.11.1, in the event of a breach of any condition of this Permit the operator shall immediately take the measures necessary to ensure that compliance is restored in the shortest possible time.
- 2.11.3 Notwithstanding the requirements of Condition 2.11.1 and 2.11.2 where a breach of any condition of this permit or an incident poses an immediate danger to human health, or threatens to cause an immediate significant adverse effect on the environment, the operator shall suspend operation of the permitted installation or relevant part thereof until such time as it can be operated in compliance with this permit.
- 2.11.4 In the event of an incident and/or a breach of any condition of this permit, the operator shall notify SEPA by telephone without delay to 0800 80 70 60. A notification that relates to an incident shall include as far as practicable the information specified in condition 2.11.5.
- 2.11.5 The Operator shall confirm any incident to SEPA in writing by the next working day after the Incident. This confirmation shall include:
- The time and duration of the Incident;
 - The receiving environmental medium or media where there has been any emission as a result of the incident;
 - An estimate of the quantity and composition of any emission;
 - The measures taken to prevent or minimise any emission or further emission;
 - An assessment of the cause of the incident;
 - Proposals for remediation (where appropriate); and
 - Proposals for preventing a repetition of the incident.
- 2.11.6 Within 6 months of the date of the Permit the Operator shall prepare, implement and maintain an "Incident Prevention and Mitigation Plan".
- 2.11.7 Following an incident and at least every 4 years the Operator shall review the "Incident Prevention and Mitigation Plan" required under condition 2.11.6. Each review of the plan shall be recorded and where the Operator makes any revisions to the plan these revisions shall be recorded.

2.12 Protection of Soil and Groundwater

- 2.12.1 Unless specified elsewhere in this permit there shall be no emission of any pollutants to groundwater or soil from the permitted installation.
- 2.12.2 The operator shall maintain a record of any incident that has, or might have, impacted on the condition of any soil or groundwater under the permitted

installation, either as a result of that incident or as a result of an accumulation of incidents, together with a record of any further investigation or remediation work carried out.

- 2.12.3 Notwithstanding the requirements of condition 2.13.2, the record required by condition 2.12.2 shall be preserved until this permit is surrendered.
- 2.12.4 At least every 4 years, the operator shall carry out a systematic assessment of all measures used to prevent emissions from the permitted installation to soil and groundwater. A written report of each assessment shall be recorded and reported to SEPA. The report shall include details of and timescales for any additional measures that are required to prevent emissions to soil and groundwater.
- 2.12.5 The operator shall monitor the groundwater at the site for the relevant hazardous substances specified in Table 2.1 at the frequency specified in Table 2.1, the purpose of which shall be to identify groundwater contamination associated with the activities specified in Table 2.1 by those relevant hazardous substances. Each assessment shall be recorded and reported to SEPA. The first assessment shall be completed by 1 December 2019. The assessment shall include interpretation of the results with reference to previous monitoring undertaken (including the site and where applicable baseline reports) and operations at the permitted installation and details of corrective actions that are required to protect groundwater and remedy any contamination that has occurred a result of permitted activities.

Table 2.1 – Groundwater Monitoring Requirements

Relevant hazardous substance	Activity to be monitored	Frequency
Ammoniacal Nitrogen Nitrate (as NO ³) and phosphorus (as orthophosphate)	To be agreed in writing with SEPA.	At least every 5 years.

- 2.12.6 The operator shall monitor the soil at the site for the relevant hazardous substances specified in Table 2.2 at the frequency specified in Table 2.2, the purpose of which shall be to identify soil contamination associated with the activities specified in Table 2.2 by those relevant hazardous substances. Each assessment shall be recorded and reported to SEPA. The first assessment shall be completed by 1 December 2019. The assessment shall include interpretation of the results with reference to previous monitoring undertaken (including the site and where applicable baseline reports) and operations at the permitted installation and details of corrective actions that are required to protect soil and remedy any contamination that has occurred as a result of permitted activities.

Table 2.2 – Soil Monitoring Requirements

Relevant hazardous substance	Activity to be monitored	Frequency
Ammoniacal Nitrogen Nitrate (as NO ³) and phosphorus (as orthophosphate)	To be agreed in writing with SEPA.	At least every 10 years.

- 2.12.7 The operator shall submit a detailed soil and groundwater monitoring plan, for the monitoring required by conditions 2.12.5 and 2.12.6 to SEPA at least three months in advance of carrying out the monitoring, which shall include the locations at which monitoring shall be carried out and the methodology which shall be used.
- 2.12.8 The operator shall carry out the monitoring required by conditions 2.12.5 and 2.12.6 in accordance with the soil and groundwater monitoring plan required by condition 2.12.7.
- 2.12.9 The operator shall review the plan required by Condition 2.12.7 no later than 6 months after each monitoring event. The purpose of the review shall be to determine whether any changes to monitoring locations, frequency or parameters are required and where changes are proposed, submit a revised plan to SEPA.
- 2.12.10 Notwithstanding the requirements of Condition 2.13 all plans, monitoring and assessments reports undertaken in accordance with Conditions 2.12.4, 2.12.5, 2.12.6, 2.12.7 and 2.12.8 shall be preserved until the permit is surrendered.
- 2.12.11 The operator shall maintain the groundwater monitoring wells detailed in the plan required in Condition 2.12.7 in a condition fit for purpose, unless otherwise agreed in writing with SEPA. Where a well's function is compromised it shall be repaired or replaced to allow sample collection in accordance with Conditions 2.12.5. and 2.12.6.

2.13 Records and Reporting

- 2.13.1 All records made in compliance with this Permit shall be kept in a systematic manner.
- 2.13.2 Unless otherwise specified in a condition of this Permit, every record made in compliance with a condition of this Permit shall be preserved for not less than five years from the date of its being made. Every such record shall be kept at the Permitted Installation for not less than one year from the date of its being made and thereafter preserved at a location, previously notified to SEPA in writing, if that location is not the Permitted Installation.
- 2.13.3 All records shall be legible, and any amendment made to any record made in compliance with a condition of this Permit shall be made in such a way as to

leave the original entry clear and legible. The reason for each amendment shall be explained in the said record.

- 2.13.4 Without prejudice to Condition 2.13.2 all records relevant to the operation or maintenance of the Permitted Installation shall be kept at the Permitted Installation for not less than one year from the end of the period to which they apply.
- 2.13.5 Where any condition of this Permit requires information to be reported, a report shall be forwarded in writing in duplicate to SEPA at the address specified in the explanatory notes attached to this Permit, within the period or at the frequency specified in Table 2.3. All such reports shall include the Permit number and the name of the Operator.
- 2.13.6 Any reference within this Permit to reports or notifications to be made to SEPA in writing shall be read as to include by fax or email at the fax number and email address respectively specified in the explanatory notes attached to this Permit.

2.14 Closure, Aftercare and Decommissioning

- 2.14.1 Within 18 months from the date of the Permit the Operator shall prepare and maintain a plan (the "Decommissioning Plan") for the decommissioning of the Permitted Installation. The Decommissioning Plan shall set out the steps to be taken by the Operator after final cessation of the Permitted Activities.
- 2.14.2 The Operator shall notify SEPA in writing of their intention to cease the Permitted Activities, or any part thereof, for any period exceeding 12 months, no later than 3 months prior to the proposed date of cessation.
- 2.14.3 The Operator shall implement the Decommissioning Plan on final cessation of the Permitted Activities or any part thereof.
- 2.14.4 The Operator shall review, record and, where necessary, update the Decommissioning Plan where the Operator plans to make a substantial change in the extent or nature of the Permitted Installation.
- 2.14.5 The Operator shall notify SEPA of any amendment of or addition to the Decommissioning Plan within one month of the change having taken place.

13. Table 2.1 has been deleted and replaced with Table 2.3 below:

Table 2.3 - Reporting and Notification Requirements

Summary of Information to be Reported or Notified	Condition	Date/Within period/ Frequency to be Reported
Primary point of contact and deputy	2.1.1	N/A
Primary point of contact and deputy	2.1.2	Without delay following the appointment of a new primary point of contact or deputy
Systematic assessment of resource use and efficiency	2.2.1	31 October 2021 and then at least every 4 years thereafter
Notification that the Permitted Installation has ceased to be covered by a climate change agreement	2.2.6	Within one month of such cessation
Odour Management Plan	2.7.4	Within one week of the revision having taken place
Noise Management Plan	2.8.4	Within one week of the revision having taken place
Reporting any Incident to SEPA	2.11.4	Without delay
Confirming the details of any incident SEPA	2.11.5	Within 14 days of the date of the Incident.
Assessment of measures	2.12.4	At least every 4 years
Groundwater monitoring	2.12.5.	At least every 5 years
Soil Monitoring	2.12.6	At least every 10 years
Methodology for groundwater/soil monitoring	2.12.7	At least 3 months in advance of groundwater or soil monitoring required by 2.12.5 and 2.12.6
Cessation of operations	2.13.2	Three months prior to the proposed date of cessation
Amendment or addition to the Decommissioning Plan	2.13.5	Within one month of the change to the plan having taken place
Systematic assessment of existing housing and management practices	3.5.1	N/A
Monitoring of diffuse source emissions	3.6.2	1 February 2019 and within 1 month of the monitoring taking place. Then at least every 1 year thereafter.

14. Table 2.4 below has been added:

Table 2.4 – Resource Utilisation Data Recording

Raw Materials, Energy or Fuel	Unit of Measurement
Specific chemicals e.g. disinfectant	Litres
Sawdust, litter, bedding, etc.	Kg
Fuels e.g. diesel	m ³ & KWh
Water	m ³
Electricity	KWh

15. Table 3.2 is deleted and replaced with Table 3.2 below:

Table 3.2 – Emissions to Water Environment

Source of Emission	Emission number point	A	B	C	D	E	F	G
	Source of Emission	Surface water drain	Surface water drain	Surface water drain	Surface water drain	Surface water drain	Surface water drain	Surface water drain
	Destination	Field drain	Field drain	Swale	Swale	Swale	Swale	Swale
	Emission location on site plan	Point A on 1.2.1 Detailed Layout Plan	Point B on 1.2.1 Detailed Layout Plan	Point C on 1.2.2 Detailed Layout Plan	Point D on 1.2.2 Detailed Layout Plan	Point E on 1.2.2 Detailed Layout Plan	Point F on 1.2.2 Detailed Layout Plan	Point G on 1.2.2 Detailed Layout Plan
	N.G.R	NO 8542 7887	NO 8559 7887	NO 8551 7890	NO 8520 7843	NO 8519 7846	NO 8518 7847	NO 8517 7849
	Sampling location	Point A on 1.2.1 Detailed Layout Plan	Point B on 1.2.1 Detailed Layout Plan	Point C on 1.2.1 Detailed Layout Plan	Point D on 1.2.2 Detailed Layout Plan	Point E on 1.2.2 Detailed Layout Plan	Point F on 1.2.2 Detailed Layout Plan	Point G on 1.2.2 Detailed Layout Plan
Monitoring	Type of Monitoring	Visual inspection	Visual inspection	Visual inspection	Visual inspection	Visual inspection	Visual inspection	Visual inspection

16. Condition 3.6 has been added below:

3.6 Diffuse source emissions of substances excluding odour and noise

3.6.1 No emission specified in Table 3.3 shall exceed the limit or be outwith the range as appropriate for the parameters specified in that Table.

3.6.2 The operator shall record and report the emission results for the parameters of the emissions specified in Table 3.3 using the method agreed in writing with SEPA (as summarised in said Table). This information shall be reported in a format agreed in writing with SEPA.

17. Table 3.3 has been added on the next page.

Table 3.3 – Process Source Emissions

Emission point reference or source or description of point of measurement	Parameter	Limit (incl. Unit)	Monitoring frequency	Monitoring standard or method	Other specifications
Weaners	kg N excreted/ animal place/year	4.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen and phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance or Estimation by using manure analysis for total nitrogen and total phosphorus content	
	kg P ₂ O ₅ excreted/ animal place/year	2.2 kg P ₂ O ₅ animal place/year	Annually	As above	
Weaners (housing first permitted after the BAT Conclusions published)	kg NH ₃ / animal place/year	0.53 kg NH ₃ /animal place/year	Annually	Estimation using emission factors	House 17 (up to 35 kg)
Fattening Pigs	kg N excreted/ animal place/year	13.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen and phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance or Estimation by using manure analysis for total nitrogen and total phosphorus content	
	kg P ₂ O ₅ excreted/ animal place/year	5.4kg P ₂ O ₅ animal place/year	Annually	As above	
Fattening Pigs (housing (slatted flooring) first permitted after the BAT Conclusions published)	kg NH ₃ / animal place/year	2.6 kg NH ₃ / animal place/year	Annually	Estimation using emission factors	House 18

Fattening Pigs (existing housing (slatted flooring) permitted before the BAT Conclusions published)	kg NH ₃ / animal place/year	3.6 kg NH ₃ / animal place/year	Annually	As above	Houses 9, 10, 11, 12, 13 and 14.
Farrowing sows (including suckling piglets)	kg N excreted/ animal place/year	30.0 kg N/animal place/year	Annually	Using a mass balance of nitrogen and phosphorus based on the feed intake, dietary content of crude protein, total phosphorus and animal performance or Estimation by using manure analysis for total nitrogen and total phosphorus content	
	kg P ₂ O ₅ excreted/ animal place/year	15 kg P ₂ O ₅ animal place/year	Annually	As above	
Farrowing sows (including suckling piglets) (existing housing permitted before the BAT Conclusions published)	kg NH ₃ / animal place/year	7.5 kg NH ₃ / animal place/year	Annually	As above	Houses 5–8
Mating and gestating sows (existing housing (slatted flooring) permitted before the BAT Conclusions published)	kg NH ₃ / animal place/year	4.0 kg NH ₃ / animal place/year	Annually	As above	House 3
Mating and gestating sows (housed on solid manure systems)	kg NH ₃ / animal place/year	5.2 kg NH ₃ / animal place/year	Annually	As above	Houses 1, 2 and 4
Sows	kg PM ₁₀ / animal place/year	N/A	Annually	Estimation by using emission factors	N/A
Farrowers	kg PM ₁₀ / animal place/year	N/A	Annually	Estimation by using emission factors	N/A
Weaners	kg PM ₁₀ / animal place/year	N/A	Annually	Estimation by using emission factors	N/A
Growers	kg PM ₁₀ / animal place/year	N/A	Annually	Estimation by using emission factors	N/A
Finishers	kg PM ₁₀ / animal place/year	N/A	Annually	Estimation by using emission factors	N/A

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