Annual Environmental Report (AER)

Insert Year

Company Name:
Licence Number:
Address[1]:
Class of Activity: Intensive Rearing of Poultry or Pigs

[1] Please include the Eircode for the facility.

Purpose of this Report

One of the functions of the Environmental Protection Agency (EPA) is to licence and regulate the activities of large-scale industrial facilities. Intensive rearing of poultry or pigs comprises a significant number of licensed industrial sites within the schedule of activities under the EPA's scope of work. Submitting an Annual Environmental Report (AER) is a requirement of all EPA licences.

An AER is a public document. To this end, this template, including the format has been developed to assist members of the public interpret and understand the environmental performance of the licensed facility. Please see Appendix I in the guidance document for more details on how to access and download the AER template.

The AER is a **summary** of environmental information for a given year. It includes:

- Details of the licence holder's environmental goals achieved, goals to maintain compliance and/or improve their environmental performance;
- Answers to questions regarding the facility's activities;
- Tables of results from monitoring emissions such as air, water, noise, and odour; and
- Details of waste generated, accepted, and treated.
- Details about BATc requirements implemented on-site.

An AER provides some limited technical data. Detailed technical information, may be obtained by any of the following methods:

1) Contacting the licence holder directly. The Contact Us section of this template enables the licence holder to provide details of where a member of the public can obtain further information on topics reported in this document.

2) Some documents[2] are available on the EPA website via the licence details page for each individual licence. This can be found by browsing either the http://www.epa.ie/licensing/ or http://www.epa.ie/enforcement/ pages of the EPA website.

3) All formal enforcement correspondence exchanged between the EPA and a licence holder during the regulatory process is available online using LEAP online.

If you have a question or query about an AER or an individual EPA licensed facility, see the EPA's website or contact the relevant EPA office. See http://www.epa.ie/about/contactus/ for contact details.

[2] This includes EPA site inspection and compliance monitoring reports, licence holders' self-monitoring reports, AERs and special reports.

Contents

Glossary

AER	Annual Environmental Report.
BAT	Best Available Techniques (BAT) as described in the Commission Implementing Decision (CID) (EU 2017/302) of 15 February 2017 establishing best available techniques PAT) conclusions, under Directive 2010/75/EU of the European Parliament and of the Council, for the intensive rearing of poultry or pigs. Reference to BAT numbers in the conditions of this licence are references to the BAT Conclusions according to how they are numbered in the aforementioned CID.
BATc	BAT conclusions: A document containing the parts of a BAT reference document laying down the conclusions on best available techniques, their description, information to assess their applicability, the emission levels associated with the best available techniques, associated monitoring, associated consumption levels and, where appropriate, relevant site remediation measures.
Emission Limit Value	Limits set for specified emissions, typically outlined in Schedule B of an EPA licence.
EMS	Environmental Management System.
EMP	Environmental Management Programme.
Environmental Goal	An objective or target set by a licensee as part of an environmental management system (EMS).

Environmental Pollutant	Substance or material that due to its quantity and/or nature has a negative impact on the environment.
Facility	Any site or premises that holds an EPA industrial licence.
Groundwater	All water which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.
Incident	As defined by an EPA industrial or waste licence.
Noise Sensitive Location	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other installation or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
Non-Renewable Resource	A resource of economic value that cannot be replaced at the same rate it is being consumed e.g. coal, peat, oil and natural gas.
Renewable Resource	Wind, solar, aerothermal, geothermal, hydrothermal and ocean energy, hydropower, biomass, landfill gas, sewage treatment plant gas and biogases.
Storm Water	Rain water run-off from roof and non-process areas.
Surface Water	Lakes, rivers, streams, estuaries and coastal waters.

Trigger Level	A value set for a specific parameter, the achievement or exceedance of which requires certain actions to be taken by the licence holder.
Waste	Any substance or object which the holder discards or intends or is required to discard.

Disclaimer

These are **not** legal definitions. Legal definitions can be found in the corresponding legislation.

Declaration

I, [*Name and position*], confirm that by ticking the box below, all information in this report is truthful and accurate to the best of my knowledge and belief.

In addition, I confirm that all monitoring and performance reporting required by our EPA licence and summarised herein is available for inspection by the EPA.

Tick here ☐

1) Introduction

See below a brief description of the facility and a summary of changes implemented the reporting year.

Brief Description of facility:

250-word limit

Confirmation of Licensee (Information about ownership and/or operator):

250-word limit

Site Improvements completed during the reporting year:

250-word limit

Infrastructure changes completed or started during the reporting year (i.e. additional tanks):

250-word limit

Contact Us

If you have any questions or would like further information on any aspect of our licensed activity, please contact us[3] directly.

See below details:

[3] Contact us section: Please only use your professional contact details in this section (work email addresses and work phone numbers).

2) How we Manage our Facility

Environmental Management System & Environmental Management Programme

The information below sets out the environmental goals/targets for our facility to help us prevent environmental pollution and reduce our impact on the environment. Target dates for completing each goal and progress towards achieving the goal are outlined in Table 1.

Table 1 Environmental Goals / Target

Environmental Goal / Target	Means to achieve goal / target	Timeline for achieving goal / target	Progress
Energy and resource efficiency			
Reduction in water consumption			
Use of cleaner technology, cleaner production			
Prevention, reduction and minimisation of waste including waste reduction targets			
Impacts from eventual decommissioning of the installation (annually)			
Monitoring and measurement programme			

Add rows as necessary

Comment

100-word limit

The summary report on the EMP, including the success in meeting agreed targets can be found in Appendix I.

3) Organic Fertiliser

Organic Fertiliser

Table 2 Organic Fertiliser Movements

	a	b	c	d	e		
Type of Organic Fertiliser pig slurry / poultry litter/washwater)	**Opening Quantity of organic fertiliser (1st January of reporting calendar year) (estimate)**	**Quantity of organic fertiliser produced by animals housed on-site in reporting year (**Organic Fertiliser & Estimated production based on organic fertiliser records and change in storage capacity) m^3**)**	**Closing Quantity of organic fertiliser (**1st January of current calendar year**)**	**Total quantity of organic fertiliser moved off site in reporting year** (as recorded in the organic fertiliser register and "record 3" as submitted to DAFM* where applicable) m^3	Where there is a difference between the amount moved off site (record 3 amount) and the amount generated (taking into account opening and closing amounts) provide details to account for this difference, e.g. applying organic fertiliser to Licensee's farmland. m^3	Volume of imported slurry (e.g. from sister site)	Have records of movement of organic fertiliser (record 3) for the reporting year been submitted to DAFM? *

Add rows as necessary

*DAFM - Department of Agriculture Food and Marine

Column **a** This is the opening quantity of organic fertiliser recorded on 1st of January of AER reporting year.

Column **b** This is the quantity of organic fertiliser produced by animals housed on-site in the reporting year (organic fertiliser & estimated production based on organic fertiliser records and change in storage capacity).

Column **c** This is the quantity of organic fertiliser at close of reporting year calculated by recording the opening quantity on 1st January of the current calendar year.

Column **d** Total quantity of organic fertiliser moved off site and recorded in the organic fertiliser register and "record 3" as submitted to DAFM* in AER reporting year.

Column **e** If there is a difference between the amount recorded in the Record 3 form submitted (d) and the amount recorded by adding together the opening quantity (**a**) and amount generated (**b**) and subtracting the closing quantity (**c**) i.e. if **d** does not match **a + b - c**, account for the mismatch, for example where the unit is applying organic fertiliser on their own landbank.

Comment

100-word limit

4) Underground and Overground Tanks, Bunds and Pipelines

Tanks, Bunds and Pipelines

Table 3 Underground and Overground Tanks, Bunds Register (pig and poultry installations)

Bund/Tank/Containment structure ID	Type of Containment i.e. tank, bund	Product Contained within structure

Add rows as necessary

Table 4 Visual Inspection of leak detection chamber(s) (where applicable)

Date	Chamber reference number/name/ID	Evidence of discharge	Samples taken

Add rows as necessary

Table 5 Samples collected from the leak detection chamber (where applicable)

Date	Sample Frequency	Sample ID	Colour / Odour	Parameter	Measured value

Add rows as necessary

Comment

100-word limit

5) Energy & Water

Energy

The information below summarises the energy used this year compared to the previous year and includes renewable and non-renewable energy types.

Table 6 **Energy Used**

Energy Used	Units	Quantity	% Increase/ decrease on previous year
Electricity			
Heavy Fuel Oil			
Light Fuel Oil			
Natural Gas			
Coal / Solid Fuel			
Peat			
Renewable Biomass			
Renewable Energy Generated On-site			
Total Energy Used			

Comment

100-word limit

The information below summarises the energy we generated on our site this year with specific focus on renewable energy generation.

Table 7 Energy Generated

Energy Generated	Units	Quantity	% Increase/ decrease on previous year
Renewable Energy			
Total Energy Generated			

Comment

100-word limit

Changes in fuel type or additional power generation infrastructure

250-word limit

Water

The information below summarises and compares the quantity of water used this year compared to the previous year.

Table 8 Water Used

Source of Water Used	**Quantity (m^3/year)**	**% Increase/ decrease on previous year**
Groundwater		
Surface Water		
Public Supply		
Recycled Water		
Rainwater		
Total Water Used		

Comment

100-word limit

6) Environmental Complaints

See the information below for a summary of **all** the environmental complaints[4] relating to our activities made directly to us and to the EPA this year.

Table 9 Summary of All Environmental Complaints Received in

Type of Complaint	Number of Complaints	Number Closed
Odour / Smells		
Noise		
Dust		
Water Quality		
Air Quality		
Waste		
Litter		
Vermin/Flies/Birds		
Soil Contamination		
Vibration		
Other		

Comment

100-word limit

[4] Note to Licensee: Please do not include the complainants' details in Table 9.

7) Environmental Incidents

See Table 10 for the number of the environmental incidents we reported to the EPA this year.

Table 10 Number of Environmental Incidents[5]

Incident Category	Minor	Limited	Serious	Very Serious	Catastrophic

Add rows as necessary

Comment

100-word limit

8) Our Environmental Emissions

The next sub-sections of this report summarise our compliance with any ELVs set in our EPA licence. Some emissions monitored do not have specific ELVs, but we still carry out monitoring and report all incidents that may give rise to environmental pollution.

[5] Further details on incidents recorded at the facility can be found on LEAP Online (epa.ie)

Storm Water

The information below summarises how the storm water from our facility is treated, where it is released and the results of monitoring this year.

1. **Storm water from our facility is managed prior to release by;**

2. **Storm water from our facility is released into the following water body (ies) (directly or indirectly):**

If storm water monitoring is required/agreed by the Agency for your facility, please complete Table 11.

Table 11 Summary of Storm Water Monitoring

Parameter measured	Surface Water Monitoring Point Ref. No.	Frequency	Result	Comment

Add rows as necessary

Table 12 Summary of Storm Water Visual Inspections

Frequency	Surface Water Monitoring Point Ref. No.	No. of Inspections

Comment (comment if any contamination observed during visual inspections)

100-word limit

Air

The information below details the number of air emission points we monitor, the results from testing the air emissions and any odour assessments carried out by us and the EPA this year.

1. **We monitor air emissions from the following number of emission points at our facility.**

Add rows as necessary

2. **Ammonia management/reduction programme (A report on the ammonia management/reduction programme in place at our facility can be found in Appendix II).**

Comment

100-word limit

Table 13 Summary of Odour Assessments Carried Out

Assessment Conducted By	No. of Odour Assessments	% Compliant[6]	Comment
Licensee			
EPA			

Comment

100-word limit

[6] A compliant odour assessment is based on EPA Odour Impact Assessment Guidance available at Air Enforcement | Environmental Protection Agency (epa.ie).

Groundwater

The information below is a basic summary of the condition of the groundwater this year.

1. Do you have a groundwater monitoring programme in place?

Yes ☐ No ☐

2. If you answered Yes in question 1 above, please fill in Table 14 below:

Table 14 Groundwater monitoring summary report

Date of sampling	Sample location reference	Parameter/ Substance	Monitoring Frequency	Unit	GTVs*	Maximum Concentration	Average Concentration

Add rows where necessary

*please note exceedance of a relevant Groundwater threshold value (GTV) at a representative monitoring point does not indicate non-compliance, an exceedance triggers further investigation to confirm whether the criteria for poor groundwater chemical status are being met.

3. Give details of the investigations and subsequent actions taken, where applicable, to manage the groundwater pollution.

150-word limit

Comment

100-word limit

Noise

The information below gives a summary of when and where we conducted noise monitoring this year and if results complied with our EPA licence limits.

1. **We conducted noise monitoring on the following dates this year:**

2. **Where was the noise monitoring carried out?**
   - i. **the boundary of our facility;**
   - ii. **noise sensitive locations off-site; or**
   - iii. **both.**

3. **Were measured noise levels compliant with your EPA licence limits?**

Yes ☐ No ☐

If No, we took the following actions to address the noise level exceedances?

150-word limit

Comment

150-word limit

9) Materials Handling

Waste Generated

The information in Table 15 is a summary of waste we generated this year and the percentage increase or decrease on the previous year. The percentage recovery is the amount of total waste generated that was reused, recycled or recovered.

Table 15 Waste Generated

Type	Quantity (Tonnes)	% Increase/ decrease on previous year	% Recovery
Hazardous			
Non-Hazardous			
Total Tonnes			

Comment

100-word limit

Animal Tissue and Carcasses

Table 16 Animal Tissue/Carcasses removed

Type	Quantity	Destination	Removal Frequency

Comment

100-word limit

10) BATc Requirements

Please see Appendix III to find a list of the best available techniques we have implemented.

Appendix I

Summary report on EMP *[Insert Reporting Year]*

The EMP is to be reviewed annually. A summary report on the programme, including the success in meeting agreed targets and evaluation of non-conformities along with associated corrective actions for this reporting year can be found below.

1000-word limit

Appendix II

Summary and amendments on the ammonia management/reduction programme *[Insert Reporting Year]*

Explanation
The report on the ammonia management/reduction programme is reviewed annually and a summary and any amendments thereto are detailed below.

1000-word limit

Appendix III

BATc CID Requirements

The table below demonstrates the BAT C technique or combination of techniques used at the facility for the different CID requirements.

BATc No.	Objective / Licensee Response / Attachment	Provide detailed information on how the relevant BAT is implemented on your installation. Where multiple options are available within the specified BAT, details on the applicable option(s) chosen for your installation must be provided.
1	In order to improve the overall environmental performance of farms, BAT is to implement and adhere to an environmental management system (EMS) that incorporates all of the features outlined in BAT 1 of the CID 2017/302/EU.	
2	In order to prevent or reduce the environmental impact and improve overall performance, BAT is to use all the techniques given in BAT 2 of the CID 2017/302/EU.	
3	In order to reduce total nitrogen excreted and consequently ammonia emissions while meeting the nutritional needs of the animals, BAT is to use a diet formulation and nutritional strategy which includes one or a combination of the techniques given in BAT 3 of the CID 2017/302/EU.	

BATc No.	Objective / Licensee Response / Attachment	Provide detailed information on how the relevant BAT is implemented on your installation. Where multiple options are available within the specified BAT, details on the applicable option(s) chosen for your installation must be provided.
4	In order to reduce the total phosphorus excreted, while meeting the nutritional needs of the animals, BAT is to use a diet formulation and a nutritional strategy which includes one or a combination of the techniques given in BAT 4 of the CID 2017/302/EU.	
5	In order to use water efficiently, BAT is to use a combination of the techniques given in BAT 5 of the CID 2017/302/EU.	
6	In order to reduce the generation of waste water, BAT is to use a combination of the techniques given in BAT 6 of the CID 2017/302/EU.	
7	In order to reduce emissions to water from waste water, BAT is to use one or a combination of the techniques given in BAT 7 of the CID 2017/302/EU.	
8	In order to use energy efficiently in a farm, BAT is to use a combination of the techniques given in BAT 8 of the CID 2017/302/EU.	
9	In order to prevent or, where that is not practicable, to reduce noise emissions, BAT is to set up and implement a noise management plan, as part of the environmental management system (see BAT 1), that includes the elements given in BAT 9 of the CID 2017/302/EU.	

BATc No.	Objective / Licensee Response / Attachment	Provide detailed information on how the relevant BAT is implemented on your installation. Where multiple options are available within the specified BAT, details on the applicable option(s) chosen for your installation must be provided.
10	In order to prevent, or where that is not practicable, to reduce noise emissions, BAT is to use one or a combination of the techniques given in BAT 10 of the CID 2017/302/EU.	
11	In order to reduce dust emissions from each animal house, BAT is to use one or a combination of the techniques given in BAT 11 of the CID 2017/302/EU.	
12	In order to prevent, or where that is not practicable, to reduce odour emissions from a farm, BAT is to set up, implement and regularly review an odour management plan, as part of the environmental management system (see BAT 1), that includes the elements given in BAT 12 of the CID 2017/302/EU.	
13	In order to prevent or, where that is not practicable, to reduce odour emissions and/or odour impact from a farm, BAT is to use a combination of the techniques given in BAT 13 of the CID 2017/302/EU.	
14	In order to reduce ammonia emissions to air from the storage of solid manure, BAT is to use one or a combination of the techniques given in BAT 14 of the CID 2017/302/EU.	
15	In order to prevent, or where that is not practicable, to reduce emissions to soil and water from the storage of solid manure, BAT is to use a combination of the techniques given in BAT 15 of the CID 2017/302/EU in the following order of priority.	
16	In order to reduce ammonia emissions to air from a slurry store,	

BATc No.	Objective / Licensee Response / Attachment	Provide detailed information on how the relevant BAT is implemented on your installation. Where multiple options are available within the specified BAT, details on the applicable option(s) chosen for your installation must be provided.
	BAT is to use a combination of the techniques given in BAT 16 of the CID 2017/302/EU.	
17	In order to reduce ammonia emissions to air from an earth-banked slurry store (lagoon), BAT is to use a combination of the techniques given in BAT 17 of the CID 2017/302/EU.	
18	In order to prevent emissions to soil and water from slurry collection, piping, and from a store and/or an earth-banked storage (lagoon), BAT is to use a combination of the techniques given in BAT 18 of the CID 2017/302/EU.	
19	If on-farm processing of manure is used, in order to reduce emissions of nitrogen, phosphorus, odour and microbial pathogens to air and water and facilitate manure storage and/or landspreading, BAT is to process the manure by applying one or a combination of the techniques given in BAT 19 of the CID 2017/302/EU.	
20	In order to prevent or, where that is not practicable, to reduce emissions of nitrogen, phosphorus and microbial pathogens to soil and water from manure landspreading, BAT is to use all the techniques given in BAT 20 of the CID 2017/302/EU.	
21	In order to reduce ammonia emissions to air from slurry landspreading, BAT is to use one or a combination of the techniques given in BAT 21 of the CID 2017/302/EU.	
22	In order to reduce ammonia emissions to air from manure landspreading, BAT is to incorporate the manure into the soil as	

BATc No.	Objective / Licensee Response / Attachment	Provide detailed information on how the relevant BAT is implemented on your installation. Where multiple options are available within the specified BAT, details on the applicable option(s) chosen for your installation must be provided.
	soon as possible.	
23	In order to reduce ammonia emissions from the whole production process for the rearing of pigs (including sows) or poultry, BAT is to estimate or calculate the reduction of ammonia emissions from the whole production process using the BAT implemented on the farm.	
24	BAT is to monitor the total nitrogen and total phosphorus excreted in manure using one of the techniques given in BAT 24 of the CID 2017/302/EU, with at least the frequency given in BAT 24 of the CID 2017/302/EU.	
25	BAT is to monitor ammonia emissions to air using one of the techniques given in BAT 25 of the CID 2017/302/EU, with at least the frequency given in BAT 25 of the CID 2017/302/EU.	
26	BAT is to periodically monitor odour emissions to air.	
27	BAT is to monitor dust emissions from each animal house using one of the techniques given in BAT 27 of the CID 2017/302/EU, with at least the frequency given in BAT 27 of the CID 2017/302/EU.	
28	BAT is to monitor ammonia, dust and/or odour emissions from each animal house equipped with an air cleaning system by using all of the techniques given in BAT 28 of the CID 2017/302/EU and with at least the frequency given in BAT 28 of the CID 2017/302/EU.	

BATc No.	Objective / Licensee Response / Attachment	Provide detailed information on how the relevant BAT is implemented on your installation. Where multiple options are available within the specified BAT, details on the applicable option(s) chosen for your installation must be provided.
29	BAT is to monitor the process parameters given in BAT 29 of the CID 2017/302/EU at least once every year.	
30	In order to reduce ammonia emissions to air from each pig house, BAT is to use one or a combination of the techniques given in BAT 30 of the CID 2017/302/EU. In addition, in accordance with Table A.1 below: BAT-AEL for ammonia emissions to air from each pig house below, indicate what is the appropriate BAT-AEL for ammonia emissions to air from each pig house for your installation.	
31	In order to reduce ammonia emissions to air from each house for laying hens, broiler breeders or pullets, BAT is to use one or a combination of the techniques given in BAT 31 of the CID 2017/302/EU. In addition, in accordance with Table A.2 below: BAT-AELs for ammonia emissions to air from each house for laying hens, indicate what is the appropriate BAT-AEL for ammonia emissions to air from each house for laying hens for your installation.	
32	In order to reduce ammonia emissions to air from each house for broilers, BAT is to use one or a combination of the techniques given in BAT 32 of the CID 2017/302/EU. In addition, in accordance with TABLE A.3 below: BAT-AEL for	

BATc No.	Objective / Licensee Response / Attachment	Provide detailed information on how the relevant BAT is implemented on your installation. Where multiple options are available within the specified BAT, details on the applicable option(s) chosen for your installation must be provided.
	ammonia emissions to air from each house for broilers with a final weight of up to 2,5 kg, indicate what is the appropriate BAT-AEL for ammonia emissions to air from each house for broilers with a final weight of up to 2,5 kg for your installation.	
33	In order to reduce ammonia emissions to air from each animal house for ducks, BAT is to use one or a combination of the techniques given in BAT 33 of the CID 2017/302/EU.	
34	In order to reduce ammonia emissions to air from each animal house for turkeys, BAT is to use one or a combination of the techniques given in BAT 34 of the CID 2017/302/EU.	