



Headquarters,  
Johnstown Castle Estate  
Wexford, Ireland

## INTEGRATED POLLUTION PREVENTION AND CONTROL LICENCE

<b>Licence Register Number:</b>	613
<b>Licensee:</b>	Mr. Padraig Kiernan
<b>Location of Activity:</b>	Ballinalee Pig Farm Glenoghil Ballinalee County Longford

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## *Glossary of Terms*

The Agency	Environmental Protection Agency.
The Licensee	Mr. Pdraig Kiernan, Ballinalee Pig Farm, Glenoghil, Ballinalee, County Longford.
AER	Annual Environmental Report.
Agreement	Agreement in writing.
Annually	All or part of a period of twelve consecutive months.
BAT	Best Available Techniques.
Bi – monthly	Every two months.
BOD	5 day Biochemical Oxygen Demand.
Buffer zone	Area excluded from landspreading of waste.
CEN	Comité Européen de Normalisation - European Committee for Standardisation.
Clients list Table 11B(i)	A list of farmers and associated farmlands used for the landspreading of slurry from the facility.
COD	Chemical Oxygen Demand.
Daily	During all days of plant operation, and in the case of emissions, when emissions are taking place; with no more than 1 measurement on any one day.
Daytime	0800 hrs to 2200 hrs.
Daylight hours	Lighting-up time plus an hour.
dB(A)	Decibels (A weighted).
DO	Dissolved Oxygen.
EIS	Environmental Impact Statement.
EMP	Environmental Management Programme.
EWC	European Waste Catalogue (2000/532/EC as amended).
Freeboard	The difference in elevation between the maximum elevation of the slurry/manure and the minimum elevation of the storage tank.
ha	hectare.
Integrated Unit	Means a piggery in which pigs are bred and reared to slaughter.
IPPC	Integrated Pollution Prevention and Control.
Landspreading	The application of slurry/manure to farmland.

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Leq	Equivalent continuous sound level.
Local Authority	Longford, Westmeath, Leitrim and Cavan County Councils.
Monthly	At least 12 times per year at approximately monthly intervals.
Night-time	2200 hrs to 0800 hrs.
NMP	Nutrient Management Plan.
Noise sensitive location	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
Odour sensitive location	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of odour at nuisance levels.
ppm	Parts per million.
Quarterly	All or part of any three consecutive months beginning on the first day of January, April, July or October.
Regional Fisheries Board	Shannon & Northern Regional Fisheries Board.
Slurry/manure	Animal faeces, urine, washwater and any associated feed or bedding.
SOP	Standard Operating Procedure.
Sow	Means a female pig after its first farrowing.
Standard Methods	As detailed in "Standard Methods for the Examination of Water and Wastewater", (prepared and published jointly by A.P.H.A., A.W.W.A & W.E.F) 20th Ed. 1998, American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA; or, an alternative method as may be agreed in writing by the Agency.
TOC	Total Organic Carbon.
Waste disposal activity	Means any of the activities included in the Third Schedule to the Waste Management Acts 1996 to 2003.
Waste recovery activity	Means any of the activities included in the Fourth Schedule to the Waste Management Acts 1996 to 2003.
Weekly	During all weeks of plant operation, and in the case of emissions, when emissions are taking place; with no more than one measurement in any one week.

## *Reasons for the Decision*

The Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this licence, any emissions from the activity will comply with and not contravene any of the requirements of Section 83(3) of the Environmental Protection Agency Acts, 1992 and 2003.

In reaching this decision the Agency has considered the application and supporting documentation received from the applicant, all submissions and objections received and the report of its inspectors.

## *Activities Licensed*

In pursuance of the powers conferred on it by the Environmental Protection Agency Acts, 1992 and 2003, the Agency hereby grants a licence to:

Mr. Pdraig Kiernan, Ballinalee Pig Farm, Glenoghil, Ballinalee, County Longford,

under Section 83(1) of the said Act to carry on the following activity

- :- the rearing of pigs in an installation, whether within the same complex or within 100 meters of the same complex where the capacity exceeds -

285 places for sows in an integrated unit,

at Ballinalee Pig Farm, Glenoghil, Ballinalee, County Longford, subject to the following thirteen Conditions, with the reasons therefor and associated schedules attached thereto.

# Conditions

## Condition 1 Scope

- 1.1 The activity shall be controlled, operated, and maintained and emissions shall take place as set out in this Integrated Pollution Prevention and Control (IPPC) licence. All programmes required to be carried out under the terms of this licence, become part of this licence.
- 1.2 No alteration to, or reconstruction in respect of, the activity or any part thereof which would, or is likely to, result in
- (a) a material change or increase in:
    - 1.2.1 The nature or quantity of any emission,
    - 1.2.2 The abatement/treatment or recovery systems,
    - 1.2.3 The range of processes to be carried out,
    - 1.2.4 The fuels, raw materials, products or wastes generated with adverse environmental significance, or
  - (b) any changes in:
    - 1.2.5 The site management and control with adverse environmental significance,
- shall be carried out or commenced without prior notice to, and without the prior written agreement of, the Agency.
- 1.3 This licence is for the purposes of IPPC licensing under the EPA Acts, 1992 and 2003 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.4 Any reference in this licence to 'site' shall mean the plan area edged in red and labelled 'Site Location Map', Attachment No. 2, in the IPPC licence application.
- 1.5 This licence relates to a facility with the capacity to house a maximum number of animals as described in *Schedule 1(i) Animal Numbers Housed at the Facility*.

*Reason: To clarify the scope of this licence.*

## Condition 2 Management of the Activity

- 2.1 Corrective Action
- 2.1.1 The licensee shall establish procedures to ensure that corrective action is taken should the specified requirements of this licence not be fulfilled. The responsibility and authority for initiating further investigation and corrective action in the event of a reported non-conformity with this licence shall be defined.
- 2.2 Awareness and Training
- 2.2.1 The licensee shall establish and maintain procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a significant effect upon the environment. Appropriate records of training shall be maintained.

- 2.2.2 Personnel/contractors performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and/or experience, as required. The licensee must ensure that contractors/agents involved in transport of waste are appropriately trained and/or experienced, and receive adequate supervision on site.
- 2.3 Responsibilities
- 2.3.1 The licensee shall ensure that a person in charge, as defined under the terms of the Environmental Protection Agency Acts, 1992 and 2003 shall be available on-site to meet with authorised persons of the Agency at all reasonable times.
- 2.3.2 The licensee shall be satisfied that the recipient of the slurry/manure is aware of the nutrient management plan (condition 5.6.6), code of practise and buffer zones covering landspreading (condition 5.6.8) and of the requirements for storage of the slurry/manure (condition 5.6.2).
- 2.4 Communications
- 2.4.1 The licensee shall put in place a programme to ensure that members of the public can obtain information concerning the environmental performance of the licensee at all reasonable times.
- 2.4.2 For each full calendar year from the date of grant of this licence, the licensee shall submit to the Agency, by the 1<sup>st</sup> February of the following year, an AER which shall be to the satisfaction of the Agency. This report shall include as a minimum the information specified in *Schedule 4(i) Recording & Reporting to the Agency* and shall be prepared in accordance with any relevant guidelines issued by the Agency. In addition the first AER report shall, separately from the calendar year report, include a report covering the period from the date of grant of the license to the 31<sup>st</sup> December of the same year.
- 2.5 Vermin Control
- 2.5.1 The licensee shall maintain sufficient and continuous vermin control at the site.

*Reason: To make provision for management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment.*

### **Condition 3 Notification**

- 3.1 The licensee shall notify the Agency by both telephone and facsimile, if available, to the Agency's Office of Environmental Enforcement, West/North West Region, John Moore Road, Castlebar, County Mayo, or to such other Agency office as may be specified by the Agency, as soon as practicable after the occurrence of any of the following:
- 3.1.1 Any unauthorised emission from the facility.
- 3.1.2 Any incident with the potential for environmental contamination of surface water or groundwater, or posing an environmental threat to air or land, or requiring an emergency response by the Local Authority.

The licensee shall include as part of the notification, date and time of the incident, summary details of the occurrence, and where available, the steps taken to minimise any emissions.

- 3.2 The licensee shall make a record of any incident as set out in Condition 3.1 above. The notification given to the Agency shall include details of the circumstances giving rise to the incident and all actions taken to minimise the effect on the environment and minimise wastes generated.
- 3.3 A summary report of reported incidents shall be submitted to the Agency as part of the AER. The information contained in this report shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 3.4 In the case of any incident as set out in Condition 3.1.2 above which relates to contamination of surface or groundwater, the licensee shall notify the relevant Regional Fisheries Board as soon as practicable after such an incident.
- 3.5 In the event of any incident, as set out in Condition 3.1.2 having taken place, the licensee shall notify the relevant Local Authority as soon as practicable, after such an incident.

*Reason: To provide for the notification of incidents and update information on the activity.*

## **Condition 4 Emissions to Atmosphere**

- 4.1 The licensee shall ensure that all operations on-site shall be carried out in a manner such that air emissions and/or odours do not result in significant impairment of, or significant interference with amenities or the environment beyond the site boundary and at odour sensitive locations.
- 4.2 The licensee shall, within twelve months of the date of grant of licence, submit an odour management programme for agreement with the Agency outlining odour management measures appropriate for the site. The odour management programme shall as a minimum investigate the removal of restrictions to vertical plume rise as identified in the Odour Impact Report received by the Agency 8<sup>th</sup> April, 2003. The licensee shall implement this odour management programme, within a specified timeframe to be agreed in writing with the Agency. The odour management programme shall be reviewed annually and necessary amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER) (Condition 2.4.2). A report on the programme shall be prepared and submitted to the Agency as part of the AER.

*Reason: To provide for the protection of the environment by way of control, limitation, treatment and monitoring of emissions.*

## **Condition 5 Waste Management**

- 5.1 Disposal or recovery of waste shall take place only as specified in *Schedule 2(i) High Risk/Hazardous Wastes for Disposal/Recovery* and *Schedule 2(ii) Other Wastes for Disposal/Recovery* of this licence and in accordance with the appropriate National and European legislation and protocols. No other waste shall be recovered on-site or disposed of/recovered off-site without prior notice to, and prior written agreement of, the Agency.
- 5.2 Animal tissue or carcasses stored on-site pending disposal shall be placed in covered, leak proof containers and shall at a minimum be removed weekly for disposal in accordance with *Schedule 2(i) High Risk/Hazardous Wastes for Disposal/Recovery*. This may be reduced to fortnightly removal during October to March.



- 5.3 With the exception of waste transported by the licensee to his/her own lands which are connected or associated with the activity: waste sent off-site for recovery or disposal shall be conveyed only by agreed persons or authorised contractors. All wastes shall be transported from the site of the activity to the site of recovery/disposal in a manner which will not adversely affect the environment.
- 5.3.1 Animal tissue or carcasses sent off site for disposal/recovery shall be transported in covered, leak proof containers.
- 5.3.2 The transport of slurry/manure via the public road shall be carried out in sealed containers such that no spillage can occur.
- 5.4 No amendment or variation in any agreed waste classification or consignment or haulage or disposal or recovery arrangements shall be made without the prior written agreement of the Agency.
- 5.5 For wastes other than those destined for landspreading, a full record, which shall be open to inspection by authorised persons of the Agency at all times, shall be kept by the licensee on matters relating to the waste management operations and practices at this site. This record shall as a minimum contain details of the following:
- 5.5.1 The names of the agent and carrier of the waste, and their permit details (to include issuing authority).
- 5.5.2 The name of the persons responsible for the ultimate disposal/recovery of the waste.
- 5.5.3 The ultimate destination of the waste.
- 5.5.4 Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.
- 5.5.5 The tonnages and EWC Code for the waste materials listed in *Schedule 2(i) High Risk/Hazardous Wastes for Disposal/Recovery* and *Schedule 2(ii) Other Wastes for Disposal/Recovery*, sent off-site for disposal/recovery.
- 5.5.6 Details of any rejected consignments.
- A copy of this Waste Management Record shall be submitted to the Agency as part of the AER for the site.
- 5.6 Where wastes are destined for landspreading the following conditions apply:
- 5.6.1 Monitoring of available storage capacity for slurry/manure shall be undertaken as outlined in *Schedule 2(iii) Waste Monitoring*. Results shall be retained on site and available for inspection by the Agency at all reasonable times. The results shall be submitted to the Agency in a summary report included as part of the AER.
- 5.6.2 The licensee shall ensure that in cases where there is transfer of slurry or manure from the facility to off-site storage on behalf of the licensee that it is contained in a purpose built holding structure adequate for the protection of groundwater and surface water. Such transfer shall not be undertaken without the prior written agreement of the Agency.
- 5.6.3 Landspreading from this activity shall take place only on lands agreed in writing by the Agency.
- 5.6.4 Agreements between the licensee and recipients of wastes for landspreading shall not conflict with any conditions in this licence.

- 5.6.5 Soil monitoring shall be undertaken as outlined in *Schedule 3(iii) Soil Monitoring* and a summary report included as part of the Nutrient Management Plan.
- 5.6.6 All landspreading activities shall be undertaken in accordance with a Nutrient Management Plan which must be agreed in advance with the Agency. The Nutrient Management Plan shall be submitted by the first of February annually. Thereafter, alterations to this must be agreed in advance in writing by the Agency.
- 5.6.7 Where insufficient slurry recovery capacity is identified in the Nutrient Management Plan (NMP), the licensee shall reduce pig numbers on-site to a level approved by the Agency.
- 5.6.8 Landspreading shall be carried out in accordance with *Schedule 2(iv) Buffer Zones for Landspreading of Organic Waste* and *Schedule 2(v) Code of Practice for Landspreading of Organic Waste*. All landspreading activities shall be carried out in such a manner as to avoid contamination of surface and groundwaters, and so as to minimise odour nuisance from the activity.
- 5.6.9 Landspreading shall be undertaken using soil injection, bandspreading, or low trajectory splashplate methods. Any other method must receive prior written agreement from the Agency.
- 5.6.10 A register of landspread slurry/manure ('Slurry/Manure Register') shall be maintained on site on a daily basis and shall be available for inspection by authorised personnel of the Agency at all reasonable times. This register shall include details of the following:
- (i) Date of despatch of slurry/manure.
  - (ii) Name of person who transported the slurry/manure.
  - (iii) Name of contractor/person who landspread the slurry/manure, when landspread by or on behalf of the licensee.
  - (iv) Name of farmer who received the slurry/manure.
  - (v) The quantity of slurry/manure in each consignment.
  - (vi) The quantity of nitrogen and phosphorus in each consignment of slurry/manure.
- The details from the register shall be reported to the Agency bi-monthly, and annually as part of the AER.
- 5.7 A proposal for discharge of domestic sewage from the facility to a septic tank or other suitable treatment system shall be submitted and agreed by the Agency not later than six months from date of grant of this licence. The agreed treatment system shall be installed within twelve months of the date of grant of the licence.
- 5.8 Following installation of the agreed domestic sewage treatment system the licensee shall retain maintenance records for the domestic wastewater treatment system and such records shall be made available for inspection on-site. Landspreading of residual sludge shall be in accordance with Condition 5.5 and the Waste Management (Use of Sewage Sludge in Agriculture) Regulations 1998 to 2001.

*Reason: To provide for the disposal of waste and the protection of the environment.*

## Condition 6 Noise

- 6.1 Activities on-site shall not give rise to noise levels off site, at noise sensitive locations, which exceed the following sound pressure limits (Leq, 30 minute):
- 6.1.1 Daytime: 55 dB(A)
- 6.1.2 Night-time: 45 dB(A).
- 6.2 There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise sensitive location.

*Reason: To provide for the protection of the environment by control of noise.*

## Condition 7 Protection of Surface Waters and Groundwaters

- 7.1 The licensee, shall provide and subsequently maintain, a rainwater collection and drainage system for all pig housing on-site.
- 7.2 The licensee shall divert all uncontaminated surface water runoff from roofs and non-contaminated impervious areas of the site, to the surface water drainage system. Following reconstruction/construction at the unit this drainage system shall discharge through two outfalls as identified in *Schedule 3(i) Surface Water Discharge Monitoring*. The licensee shall provide an inspection chamber at each outlet of the surface water drain.
- 7.3 There shall be no unauthorised discharge of polluting matter to water.
- 7.4 The licensee shall monitor surface water discharges in accordance with *Schedule 3(i) Surface Water Discharge Monitoring* of this licence. This shall be reported annually as part of the AER.
- 7.5 In the event that any analyses or observations made on the quality or appearance of surface water should indicate that contamination has taken place, the licensee shall;
- (i) carry out an immediate investigation to identify and isolate the source of the contamination,
  - (ii) put in place measures to prevent further contamination and to minimise the effects of any contamination on the environment,
  - (iii) and notify the Agency, in accordance with Condition 3.1, as soon as is practicable.
- 7.6 The licensee shall ensure a minimum of six months slurry storage capacity at each pig yard (western yard (breeding and fattening yard) and eastern yard (rearing yard)) within eighteen months of the date of grant of the licence. Additional slurry storage at the eastern yard should be associated with the collection and storage of slurry from the plastic tunnels, proposals for additional storage capacity shall be agreed by the Agency prior to implementation.
- 7.7 The licensee shall ensure that a freeboard of at least 100mm from the top of each covered slurry storage tanks and 500mm from the top of uncovered slurry storage tanks is maintained, as a minimum, at all times.
- 7.8 Underground, partly underground or overground concrete storage facilities shall conform to the Department of Agriculture, Food and Forestry specifications (S108, S123) or equivalent standard. Leak detection facilities shall be installed under all new tanks. Leak detection

facilities shall be provided under reconstructed tanks, other than where agreed in writing with the Agency.

- 7.9 The licensee shall within six months from the date of grant of this licence submit a programme for agreement with the Agency on the assessment of under and over-ground effluent storage tanks which form part of the six month slurry storage capacity, pipelines and liquid feed storage tanks to ensure that all storage tanks and pipelines are assessed within twelve months of the date of grant of this licence and at least once every five years thereafter. In the case of new storage facilities installed on site, the assessment shall be undertaken prior to utilisation. A report on such assessment shall be included in the AER, together with proposals for repair of any significant defects found.
- 7.10 Where overground storage facilities are utilised, the licensee shall, with the agreement of the Agency:
- (i) Provide tanks with two lockable valves in line.
  - (ii) Provide an appropriate reception pit with level alarm.
  - (iii) Provide an external safety ladder and railed platform to facilitate inspection.
  - (iv) Undertake measures as necessary for the protection of tanks from damage by vehicles or trailers.
  - (v) Provide a partial earthen bund to ensure sufficient protection of the clean water outfall in event of tank overflow, collapse or leakage.
- 7.11 Fuel and whey tank storage facilities shall, prior to utilisation, as a minimum be bunded, either locally or remotely, to a volume not less than the greater of the following:
- (i) 110% of the capacity of the largest tank or drum within the bunded area,
  - (ii) 25% of the total volume of substance which could be stored within the bunded area.
- Drainage from bunded areas shall be diverted for collection and safe disposal. All bunds shall be tested at least once every five years. A report on such tests shall be included in the AER.
- 7.12 The licensee shall carry out groundwater monitoring in accordance with *Schedule 3(ii) Groundwater Monitoring* of this licence. The results of such monitoring shall be reported annually as part of the AER.

*Reason: To provide for the protection of surface waters and groundwater.*

## Condition 8 Energy Use

- 8.1 The licensee shall carry out an audit of the energy efficiency of the site within twelve months of date of licence. The licensee shall consult with the Agency on the nature and extent of the audit and shall develop an audit programme to the satisfaction of the Agency. The audit programme shall be submitted to the Agency in writing at least one month before the audit is to be carried out. A copy of the audit report shall be available on-site for inspection by authorised persons of the Agency and a summary of the audit findings shall be submitted to the Agency as part of the Annual Environmental Report. The energy efficiency audit shall be repeated at intervals as required by the Agency.

*Reason: To provide for the efficient use of energy in all site operations*

## Condition 9 Residuals Management

- 9.1 Following termination, or planned cessation for a period greater than six months, of use or involvement of all or part of the site in the licensed activity, the licensee shall, to the satisfaction of the Agency, decommission, render safe or remove for disposal/recovery, any soil, subsoils, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution.

*Reason: To make provision for the proper closure of the activity ensuring protection of the environment.*

## Condition 10 Monitoring

- 10.1 The licensee shall carry out such sampling, analyses, measurements, examinations, as set out in Schedules:-

*Schedule 2(iii) Waste Monitoring,*

*Schedule 3(i) Surface Water Discharge Monitoring,*

*Schedule 3(ii) Groundwater Monitoring,*

*Schedule 3(iii) Soil Monitoring,*

of this licence.

- 10.2 The licensee shall install and maintain a water meter on all water supplies serving the pig unit within six months from the date of grant of this licence. Records of water usage shall be maintained on site and a summary records report shall be submitted annually as part of the AER.

- 10.3 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the written agreement of the Agency following evaluation of test results. The licensee shall install on all emission points such sampling points or equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.

- 10.4 The licensee shall provide safe and permanent access to the following sampling and monitoring points:

10.4.1 Waste storage areas on-site.

10.4.2 Surface water discharge points.

and safe access to any other sampling and monitoring points required by the Agency.

*Reason: To ensure compliance with the requirements of other conditions of this licence by provision of a satisfactory system of measurement and monitoring of emissions.*

## Condition 11 Recording and Reporting to Agency

- 11.1 The licensee shall record all sampling, analyses, measurements, examinations and maintenance carried out in accordance with the requirements of this licence.

- 11.2 The licensee shall record all incidents which affect the normal operation of the activity and which may create an environmental risk.

- 11.3 The licensee shall record all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the date and time of the complaint, the name of the complainant and give details of the nature of the complaint. A record shall also be kept of the response made in the case of each complaint. The licensee shall submit a report to the Agency, bi-monthly, giving details of any complaints which arise. A summary of the number and nature of complaints received shall be included in the AER.
- 11.4 The format of all records required by this licence shall be to the satisfaction of the Agency. Records shall be retained on-site for a period of not less than seven years and shall be available for inspection by the Agency at all reasonable times.
- 11.5 Reports of all recording, sampling, analyses, measurements, examinations, as set out in *Schedule 4(i) Recording and Reporting to the Agency* in this licence, shall be submitted to the Agency's Office of Environmental Enforcement, West/North West Region, John Moore Road, Castlebar, County Mayo, as specified in this licence. The format of these reports shall be to the satisfaction of the Agency. One original and two copies shall be submitted as and when specified.
- 11.6 All reports shall be certified accurate and representative by the licensee or other senior officer designated by the licensee.
- 11.7 All written procedures controlling operations affecting this licence shall be available on-site for inspection by the Agency at all reasonable times.
- 11.8 The frequency and scope of reporting, as set out in this licence, may be amended by the Agency following the evaluation of test results.

*Reason: To provide for the collection and reporting of adequate information on the activity.*

## **Condition 12 Accident and Emergency Response**

- 12.1 The licensee shall ensure, within six months of the date of grant of this licence, that an Accident and Emergency Response Procedure is in place which shall address any accident and emergency situation which may originate on-site. This Procedure shall include provision for minimising the effects of any accident and emergency on the environment.

*Reason: To provide for the protection of the environment.*

## **Condition 13 Financial Provisions**

### **13.1 Agency Charges**

- 13.1.1 The licensee shall pay to the Agency an annual contribution of €4,242, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring as the Agency considers necessary for the performance of its functions under the Environmental Protection Agency Acts, 1992 and 2003. The first payment shall be a pro-rata amount for the period from the date of this licence to the 31st day of December, and shall be paid to the Agency within one month from the date of the licence. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Environmental Protection Agency Acts 1992 and 2003, and all such payments shall be made within one month of the date upon which demanded by the Agency.

- 13.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased the licensee shall contribute such sums as determined by the Agency to defraying its costs in regard to items not covered by the said annual contribution.

*Reason: To provide for adequate financing for monitoring and financial provisions for measures to protect the environment.*

### ***Schedule 1(i) Animal Numbers Housed at the Facility***

<b>Animal Class</b>	<b>Numbers</b> <sup>Note 1, 2</sup>
<b>Farrowing/Suckling Sows</b>	336
<b>Dry Sows</b>	1220
<b>Maiden Gilts</b>	300
<b>Boars</b>	18
<b>Weaners</b>	8730
<b>Finishers</b>	5400

Note 1: This excludes suckling pigs maintained on site.

Note 2: The Agency may accept a 5% increase in the number of finishers for a period not exceeding 4 weeks twice annually.  
Any other variation in these numbers requires prior written agreement from the Agency.



### ***Schedule 2(i) High Risk/Hazardous Wastes for Disposal/Recovery***

<b>Waste Materials</b>	<b>Further Treatment On-Site</b>	<b>On-site Recovery, Reuse or Recycling</b>	<b>Method of Off-Site Disposal</b>
<b>Veterinary Waste</b>	None	None	To be agreed by the Agency
<b>Animal tissue or carcasses</b>	None	None	Agreed contractor
<b>Fluorescent Tubes</b>	None	None	To be agreed by the Agency
<b>Other</b> <sup>Note 1</sup>			

Note 1: No other high risk/hazardous waste shall be disposed of or recovered off-site without prior notice to, and prior written agreement of the Agency.



### ***Schedule 2(ii) Other Wastes for Disposal/Recovery***

<b>Waste Materials</b>	<b>Further Treatment On-Site</b>	<b>On-Site Recovery, Reuse or Recycling</b> <sup>Note 1</sup>	<b>Method of Off-Site Disposal/Recovery</b>
<b>Domestic and canteen waste</b>	None	None	Agreed disposal contractor.
<b>Animal slurry/manure</b>	None	None	Landspreading
<b>Other</b> <sup>Note 2</sup>			

Note 1: The licensee may further treat, reuse, recycle or recover waste subject to the prior written agreement of the Agency.

Note 2: No other waste shall be disposed of or recovered off-site without prior notice to, and prior written agreement of the Agency.





### ***Schedule 2(iii) Waste Monitoring***

**Waste Monitoring Reference(s):** As labelled in Attachment 9.1 of the IPPC Application:

<b>Waste Materials</b>	<b>Frequency</b>	<b>Parameter</b>	<b>Waste Monitoring Reference</b>
<b>Slurry/Manure</b>	Weekly	Available storage capacity	<b>Breeding and Fattening Yard:</b> Houses A, B, E, F, G, H, I, and J <b>Rearing Yard:</b> Houses P, Q R1, R2, R3 and R4



### ***Schedule 2(iv) Buffer Zones for Landspreading of Organic Waste***

No organic waste shall be spread within the following buffer zones:

<b>Area</b>	<b>Buffer zone (m)</b>
<b>Sensitive buildings (hospitals, schools and churches)</b>	200
<b>Dwelling houses</b>	100 <sup>Note 1</sup>
<b>Karst features</b>	30
<b>Lakes and main river channels</b>	20
<b>Small watercourses</b> <sup>Note 2</sup>	10
<b>Public Roads</b> <sup>Note 2</sup>	10
<b>Domestic wells</b> <sup>Note 2</sup>	50
<b>Public water supplies</b> <sup>Note 2 &amp; Note 3</sup>	300 m

Note 1: This distance may be decreased with the written consent of the occupier and prior written agreement by the Agency.

Note 2: The distances to be increased if the gradient is greater than 6% (1:17).

Note 3: In the case of ground water supplies the appropriate distance can also be calculated from the 100day travel time. In addition, the appropriate distance is influenced by vulnerability and groundwater flow direction.



## Schedule 2(v) Code of Practice for Landspreading of Organic Waste <sup>Note 1</sup>

Spreading shall not take place:
<ul style="list-style-type: none"> <li>• On wet or waterlogged ground</li> <li>• On frozen or snow covered ground</li> <li>• On exposed bedrock</li> <li>• Where surface gradients are excessive (preferably &lt;18% (1:5))</li> <li>• On fields that display cracks over pipe or mole drainage systems</li> <li>• On fields that have been pipe or mole drained or subsoiled over a pipe or mole drainage system in the last 12 months</li> <li>• During November to February inclusive except with the agreement of the Agency</li> <li>• Outside daylight hours</li> <li>• In a manner which would have an adverse effect on a National Monument</li> </ul>
Loadings:
<ul style="list-style-type: none"> <li>• Regardless of the dilution factor, the maximum hydraulic loading per single application shall not exceed 25 m<sup>3</sup> per hectare on shallow limestone soils and in no case shall exceed 50 m<sup>3</sup> per hectare.</li> <li>• Application of slurry/manure shall not be made on soils with a Morgan's P test in excess of 10 mg P/litre sampled to a depth of 10 cm.</li> </ul>
Organic Waste application shall be in accordance with the following guidelines:
<ul style="list-style-type: none"> <li>• Landspreading on lands with extreme groundwater vulnerability ratings <sup>Note 2</sup> would be considered Not Generally Acceptable.</li> <li>• Application shall be made such that the rate of application of nitrogen from organic wastes does not exceed 250 kg N/ha per annum <b>subject to statutory requirements</b></li> <li>• No application on tillage land left fallow for the winter</li> <li>• Landspreading shall be in accordance with the current Teagasc nutrient recommendations or the current Department of Agriculture and Food, REPS recommendations</li> <li>• No application when the risk of causing odour nuisance to the public is greatest e.g. Sundays or public holidays</li> <li>• No application during meteorological conditions which increase the risk of odour nuisance.</li> <li>• No application where significant rain is forecast within 48 hours</li> </ul>

Note 1: This Code of Practice may be amended by the Agency as further environmental information becomes available.

Note 2: As defined in *Groundwater Protection Schemes*, DoELG/EPA/GSI joint publication 1999.



## Schedule 3(i) Surface Water Discharge Monitoring

Emission Point Reference No's.:

SW1 (Storm water outfall from Western Breeding and Fattening Yard).  
SW2 (Storm water outfall from Eastern Rearing Yard).

Parameter	Monitoring Frequency	Analysis Method/Technique
Visual Inspection	Weekly	Not Applicable
COD or BOD	Quarterly	Standard Methods



### ***Schedule 3(ii) Groundwater Monitoring***

Monitoring Point Reference No's

GW1, Deep borewell at the Western Breeding and Fattening Yard.

Parameter	Monitoring Frequency	Analysis Method/Technique
Nitrate	Biannually	Standard Methods
Total Ammonia	Biannually	Standard Methods
Faecal coliforms	Biannually	Standard Methods



### ***Schedule 3(iii) Soil Monitoring***

Monitoring Point Reference No's<sup>Note 1,2</sup>:

For all spreadlands utilised in this IPPC licence.

Conditions	Monitoring frequency	Analysis Method/Technique <sup>Note 4</sup>
Where no soil test available	Within 12 months of grant of licence	Morgan's P test <sup>Note 3</sup>
Where soil test ≤ 10 mg P/litre	Every 3 years	Morgan's P Test

Note 1: Additional sample monitoring locations may be required if the spreadlands are altered

Note 2: Each sample shall be representative of a maximum area of 4 ha except where uniform cropping and landuse has been in place for the previous 5 years or more. In the latter situation a sample area of 12 ha is acceptable. Each sample shall be taken in accordance with the Teagasc soil sampling guidelines.

Note 3: M Peach & L English (1944) 'Rapid micro-chemical tests'. Soil Science 57: 167.

Note 4: Soil analysis shall only be conducted by Department of Agriculture and Food approved laboratories.



### ***Schedule 4(i) Recording and Reporting to the Agency***

Completed reports shall be submitted to:

The Environmental Protection Agency  
Office of Environmental Enforcement  
West/North West Region  
John Moore Road  
Castlebar  
County Mayo

**or** Any other address as may be  
specified by the Agency

Reports are required to be forwarded as set out below:

#### **Recurring Reports:**

<b>Report</b>	<b>Reporting Frequency</b>	<b>Report Submission Date</b>
Slurry/manure register	Bi-Monthly	Ten days after end of the two months being reported on.
Available slurry/manure storage capacity	Annually	As Part of the AER
Complaints (where they arise)	Bi-Monthly	Ten days after end of the two months being reported on.
Nutrient Management Plan	Annually	By the first of February annually
Annual Environment Report (AER)	Annually	By February 1 2005 and each year thereafter.
Tank and pipeline assessment and inspection programme	Every 5 years	Six months from the date of grant of licence; thereafter as part of the AER.

#### **Annual Environmental Report Content**

Waste Management Report (arising from Condition 5) including details of the Waste Management Record, Waste Monitoring and Analysis, and Slurry/Manure Register
Water use monitoring
Feed composition and usage
Nutrient Management Plan
Ambient soil monitoring report
Groundwater monitoring report
Surface water discharge monitoring
Tank and pipeline assessment and inspection report (Every five years)
Bund Inspection test (Every five years)
Reported incidents summary
Complaints summary
Odour Management Programme
Investigate options for covering open slurry tanks, in order to minimise rainwater ingress and NH <sub>3</sub> volatilisation.
Energy efficiency audit (when required)

**Once-off Reports:**

<b>Report</b>	<b>Report Submission Date</b>
<b>Odour Management Programme</b>	Within twelve months of the date of grant of licence
<b>Proposal for discharge of domestic sewage to a suitable treatment system</b>	Within six months of the date of grant of licence
<b>Energy Efficiency audit proposal</b>	Within eleven months of date of grant of this licence.



Signed on behalf of the Agency

Padraic Larkin

\_\_\_\_\_  
Director/Authorised person

Dated this day 12<sup>th</sup> of October 2004.