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County Wexford
Ireland

**INTEGRATED POLLUTION PREVENTION &
CONTROL LICENCE
Proposed Determination**

Licence Register Number:	622
Applicant	Hogg Enterprises Limited
Location of Installation:	Clohamon Mills Bunclody County Wexford

INTRODUCTION

This introduction is not part of the licence and does not purport to be a legal interpretation of the licence.

This licence is for the rearing of pigs within a complex where the capacity exceeds 285 places for sows in an integrated unit at Clohamon Mills, Bunclody, County Wexford. The installation has capacity for 540 sows in an integrated unit.

Infrastructure for the pig unit includes animal housing, feed storage facilities, computerised wet feeding facilities, ventilation system and waste storage facilities. The unit shall have six-month storage capacity for organic wastes produced. Organic slurry/manure shall be recovered by landspreading in accordance with a nutrient management plan, buffer zones and a code of practice for landspreading organic wastes. The licensee must manage and operate the installation to ensure that the activities do not cause environmental pollution.

The licence sets out in detail the conditions under which Hogg Enterprises Limited will operate and manage this installation.

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Glossary of Terms

All terms in this licence should be interpreted in accordance with the definitions in the Environmental Protection Agency Act 1992 and 2003, (the Acts), unless otherwise defined in this section.

Adequate lighting	20 lux measured at ground level.
AER	Annual Environmental Report.
Agreement	Agreement in writing.
Annually	All or part of a period of twelve consecutive months.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of this licence application.
Application	The application by the licensee for this licence.
Appropriate facility	A waste management facility, duly authorised under relevant law and technically suitable.
BAT	Best Available Techniques.
Bi-annually	All or part of a period of six consecutive months.
Bi – monthly	Every two months
Biennially	Once every two years.
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	A list of customer farmers and associated farmlands used for the recovery of slurry/manure from the installation in accordance with an approved Nutrient Management Plan.
COD	Chemical Oxygen Demand.
Containment boom	A boom which can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses.
Daily	During all days of plant operation, and in the case of emissions, when emissions are taking place; with at least one measurement on any one day.
Day	Any 24 hour period.
Daytime	0800 hrs to 2200 hrs
DB(A)	Decibels (A weighted).
DO	Dissolved Oxygen.

Documentation	Any report, record, result, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.
Drawing	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
EMP	Environmental Management Programme.
Emission Limits	Those limits, including concentration limits and deposition rates established in <i>Schedule B</i> of this licence.
Environmental Damage	Has the meaning given it in Directive 2004/35/EC
EPA	Environmental Protection Agency.
European Waste Catalogue (EWC)	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2000/532/EC and any subsequent amendment published in the Official Journal of the European Community.
Facility	Any site or premises used for the purposes of the recovery or disposal of waste.
Fortnightly	A minimum of 24 times per year, at approximately two week intervals.
Freeboard	The difference in elevation between the maximum elevation of the slurry/manure and the minimum elevation of the storage tank.
GC/MS	Gas Chromatography/Mass Spectroscopy
Heavy Metals	This term is to be interpreted as set out in “Parameters of Water Quality, Interpretation and Standards” published by the Agency in 2001. ISBN 1-84095-015-3.
Ha	Hectare.
HFO	Heavy Fuel Oil.
Hours of Operation	The hours during which the installation is authorised to be operational.
ICP	Inductively Coupled Plasma Spectroscopy.
Incident	The following shall constitute an incident for the purposes of this licence: <ul style="list-style-type: none">a) an emergency;b) any emission which does not comply with the requirements of this licence;c) any exceedence of the daily duty capacity of the waste handling equipment;d) any trigger level specified in this licence which is attained or exceeded; and,e) any indication that environmental pollution has, or may have, taken place.

Installation	A stationary technical unit or plant where the activity concerned referred to in the First Schedule of EPA Acts 1992 and 2003 is or will be carried on, and shall be deemed to include any directly associated activity, which has a technical connection with the activity and is carried out on the site of the activity.
Integrated Unit	A piggery in which pigs are bred and reared to slaughter.
IPPC	Integrated Pollution Prevention & Control.
K	Kelvin.
Landspreading	The application of slurry/manure to farmland.
kPa	Kilo Pascals.
Leq	Equivalent continuous sound level.
Licensee	Hogg Enterprises Limited, Clohamon Mills, Bunclody, County Wexford
List I	As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
List II	As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.
Local Authority	Wexford County Council and Carlow County Council Landspreading in counties Wexford and Carlow
Maintain	Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to adequately perform its function.
Mass Flow Limit	An Emission Limit Value which is expressed as the maximum mass of a substance which can be emitted per unit time.
Mass Flow Threshold	A mass flow rate, above which, a concentration limit applies.
Monthly	A minimum of 12 times per year, at approximately monthly intervals.
Night-time	2200 hrs to 0800 hrs.
NMP	Nutrient Management Plan.
Noise Sensitive Location (NSL)	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.
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.
PER	Pollution Emission Register.
Production pig	Any pig over 30kg in weight which is being fattened for slaughter.
Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.

Regional Fisheries Board	Eastern Regional Fisheries Board.
Sanitary Authority	Wexford County Council
Sanitary Effluent	Waste water from installation toilet, washroom and canteen facilities
Sample(s)	Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments.
Slurry/manure	Animal faeces, urine, washwater and any associated feed or bedding.
SOP	Standard Operating Procedure.
Soiled water	Seepage from dungsteeds and holding areas for farmyard manure, water from concreted areas/hard standings/out-wintering pads contaminated with livestock faeces/ urine, farm chemicals or dairy washings (including milking parlour washings) and water used in washing farm equipment.
Sow	A female pig after its first farrowing.
Standard Method	A National, European or internationally recognised procedure (eg. I.S. EN, ISO, CEN, BS or equivalent), as an in-house documented procedure based on the above references, a procedure as detailed in the current edition of “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), American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA; or, an alternative method as may be agreed by the Agency.
Storm Water	Rain water run-off from roof and non-process areas.
The Agency	Environmental Protection Agency.
TOC	Total Organic Carbon.
Trade Effluent	Trade Effluent has the meaning given in the water pollution Acts 1977 and 1990
Trigger Level	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
Weaner	Any pig under 30kg in weight and weaned from a sow.
Weekly	During all weeks of plant operation, and in the case of emissions, when emissions are taking place; with at least one measurement in any one week.
WWTP	Waste Water Treatment Plant.

Decision & Reasons for the Decisions

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 will not contravene any of the requirements of Section 83(5) of the Environmental Protection Agency Acts, 1992 and 2003.

In reaching this decision the Environmental Protection Agency has considered the application and supporting documentation received from the applicant, submission received from other party and the report of its inspector.

Part I Schedule of Activities Licensed

In pursuance of the powers conferred on it by the Environmental Protection Agency Acts, 1992 and 2003, the Agency proposes to grant this Integrated Pollution Prevention & Control licence to:

Hogg Enterprises Limited, Clohamon Mills, Bunclody, County Wexford,

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

- :- the rearing of pigs in an installation, whether within the same complex or within 100 metres of the same complex, where the capacity exceeds 285 places for sows in an integrated unit,

at Clohamon Mills, Bunclody, County Wexford, subject to the following twelve Conditions, with the reasons therefor and associated schedules attached thereto.

Part II Schedule of Activities Refused

None of the proposed activities as set out in the licence application have been refused.

Part III Conditions

Condition 1. Scope

- 1.1 Activities at this installation shall be limited as set out in Schedule A: Limitations.
- 1.2 The installation shall be controlled, operated, and maintained and emissions shall take place as set out in this licence. All programmes required to be carried out under the terms of this licence, become part of this licence.
- 1.3 For the purposes of this licence, the installation authorised by this licence, is the area of land outlined in red on the 'Site Plan', scale 1:500, received on the 1/09/2003 as part of the application and associated plant including feed storage facilities and computerised wet feed facilities. Any reference in this licence to "installation" shall mean the area thus outlined in red and associated plant. The licensed activity shall be the carried on only within the area outlined.
- 1.4 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:
- The nature or quantity of any emission,
 - The abatement/treatment or recovery systems,
 - The range of processes to be carried out,
 - The fuels, raw materials, intermediates, products or wastes generated, or
- (b) any changes in:
- Site management infrastructure or control with adverse environmental significance,
- shall be carried out or commenced without prior notice to, and without the agreement of, the Agency.
- 1.5 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.

Reason: To clarify the scope of this licence.

Condition 2. Management of the Installation

- 2.1 Installation Management
- 2.1.1 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.
- 2.1.2 The licensee shall be satisfied that the recipient of the slurry/manure is aware of the nutrient management plan (Condition 8.8.4), code of practice and buffer zones covering landspreading (Condition 8.8.6) and of the requirements for storage of the slurry/manure (Condition 6.6.2).

2.2 Documentation

- (i) The licensee shall establish and maintain an environmental management documentation system which shall be to the satisfaction of the Agency.
- (ii) The licensee shall issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

2.3 Corrective Action

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.

2.4 Awareness and Training

- 2.4.1 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.
- 2.4.2 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.

2.5 Communications Programme

The licensee shall establish and maintain a Communications Programme to ensure that members of the public can obtain information at the installation, at all reasonable times, concerning the environmental performance of the installation.

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. Infrastructure and Operation

- 3.1 The licensee shall establish all infrastructure referred to in this licence prior to the commencement of the licensed activities or as required by the conditions of this licence.
- 3.2 The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 3.3 The licensee shall clearly label and provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 3.4 Tank and Drum Storage Areas
 - 3.4.1 All tank and drum storage areas including liquid feed storage facilities shall be rendered impervious to the materials stored therein within six months of the date of grant of licence.

- 3.4.2 All tank and drum storage areas shall, within six months of date of grant of licence, 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; or
 - (ii) 25% of the total volume of substance which could be stored within the bunded area.
- 3.4.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.4.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.4.5 The integrity and water tightness of all the bunding structures and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee at least once every three years. This testing shall be carried out in accordance with any guidance published by the Agency.
- 3.5 The licensee shall have in storage an adequate supply of suitable absorbent material to contain and absorb any spillage at the installation. Once used, the absorbent material shall be disposed of/recovered at an appropriate facility.
- 3.6 Slurry/Manure/Soiled Water Storage Facilities
- 3.6.1 The licensee shall divert soiled water to on-site slurry or soiled water storage facilities or other such facilities to be agreed by the Agency.
- 3.6.2 The licensee shall ensure a minimum of six months slurry/manure storage capacity. The licensee shall, within six months of date of grant of licence, submit proposals for additional storage capacity on-site for agreement with the Agency. The proposals shall be implemented within such a period to be agreed by the Agency.
- 3.6.3 Underground, partly underground or overground concrete storage facilities shall conform to the Department of Agriculture and Food specifications (S108 and S123) or equivalent standard. Leak detection facilities shall be installed under all new tanks.
- 3.6.4 Where overground storage facilities are utilised, the licensee shall, within twelve months of date of grant of this licence, 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 bund to ensure sufficient protection of the clean water outfall in event of tank overflow, collapse or leakage,
 - (vi) provide overfill protection.
- 3.7 Storm Water
- 3.7.1 The licensee shall provide and maintain, a rainwater collection and drainage system for all pig housing on-site.

- 3.7.2 The licensee shall divert all uncontaminated storm water to the storm water drainage system within six months of date of grant of licence. The drainage system shall discharge through one outfall as identified in Schedule C: Control & Monitoring. The licensee shall provide an inspection chamber at the outlet of the surface water drain.
- 3.8 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.
- 3.9 The on-site well shall be adequately protected to prevent contamination or physical damage.

Reason: To provide for appropriate operation of the installation to ensure protection of the environment.

Condition 4. Interpretation

- 4.1 Noise from the installation shall not give rise to sound pressure levels (Leq,T) measured at noise sensitive locations of the installation which exceed the limit value(s).

Reason: To clarify the interpretation of limit values fixed under the licence.

Condition 5. Emissions

- 5.1 There shall be no emissions of environmental significance.
- 5.2 The licensee shall ensure that the activities shall be carried out in a manner such that emissions including odours do not result in significant impairment of, and/or significant interference with amenities or the environment beyond the installation boundary.
- 5.3 The licensee shall ensure that vermin, flies, mud, dust and odours do not give rise to nuisance at the installation or in the immediate area of the installation. Any method used by the licensee to control any such nuisance shall not cause environmental pollution.
- 5.4 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 reduction measures appropriate for the site. The odour management programme shall as a minimum address the following: the use of low-protein feeds; covering of open slurry storage tanks; renovate existing buildings to incorporate low emission housing design; and investigating the use and efficacy of biological slurry additives. The licensee shall implement this odour management programme with the agreement of the Agency, within a specified timeframe. The odour management programme shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER). A report on the programme, including the success in meeting odour reduction on site, 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 and limitation of emissions.

Condition 6. Control and Monitoring

- 6.1 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and as in accordance with Schedule C: Control & Monitoring of this licence:
- 6.1.1 Analysis shall be undertaken by competent staff in accordance with documented operating procedures.
 - 6.1.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics determined.
 - 6.1.3 Such procedures shall be subject to a programme of Analytical Quality Control using control standards with evaluation of test responses.
 - 6.1.4 Where analysis is sub-contracted it shall be to a competent laboratory.
- 6.2 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer.
- 6.3 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the agreement of the Agency following evaluation of test results.
- 6.4 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, 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.
- 6.5 Storm water
- 6.5.1 A visual examination of the storm water discharge shall be carried out daily. A log of such inspections shall be maintained.
 - 6.5.2 The drainage system and bunds, shall be inspected weekly, desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal.
- 6.6 Slurry/manure storage
- 6.6.1 The licensee shall ensure that a freeboard of at least 100mm from the top of each covered slurry storage tank and 500mm from the top of each uncovered slurry storage tanks is maintained, as a minimum, at all times.
 - 6.6.2 The licensee shall ensure that in cases where there is transfer of slurry or manure from the installation to storage provided on farms in the clients list, that it is contained in a purpose built slurry holding structure adequate for the protection of groundwater and surface water. Such transfer during November to January shall not be undertaken without the prior agreement of the Agency.
- 6.7 The septic tank shall be operated and maintained in accordance with the EPA guidance on single house treatment systems.

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

Condition 7. Resource Use and Energy Efficiency

- 7.1 The licensee shall carry out an audit of the energy efficiency of the site within one year of the date of grant of this licence. The audit shall be carried out in accordance with the guidance published by the Agency; “Guidance Note on Energy Efficiency Auditing”. The energy efficiency audit shall be repeated at intervals as required by the Agency.
- 7.2 The audit shall identify all opportunities for energy use reduction and efficiency and the recommendations of the audit will be incorporated into a Resource Use and Energy Programme.
- 7.3 The licensee shall identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible. Reductions in water usage shall be incorporated into a Resource Use and Energy Programme.
- 7.4 The licensee shall undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into a Resource Use and Energy Programme.

Reason: To provide for the efficient use of resources and energy in all site operations.

Condition 8. Materials Handling

- 8.1 Disposal or recovery of waste shall only take place in accordance with the conditions of this licence and in accordance with the appropriate National and European legislation and protocols.
- 8.2 Waste sent off-site for recovery or disposal shall be transported only by an authorised waste contractor. The waste shall be transported only from the site of the activity to the site of recovery/disposal in a manner which will not adversely affect the environment and in accordance with the appropriate National and European legislation and protocols.
- 8.2.1 Animal tissue or carcasses sent off site for disposal/recovery shall be transported in covered, leak proof containers.
- 8.2.2 The transport of slurry/manure via the public road shall be carried out in sealed containers such that no spillage can occur.
- 8.3 Waste shall be stored in designated areas, protected as may be appropriate, against spillage and leachate run-off. The waste is to be clearly labelled and appropriately segregated.
- 8.4 No waste classified as green list waste in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No.259/1993, as amended) shall be consigned for recovery without the agreement of the Agency.
- 8.5 Waste for disposal/recovery off-site shall be analysed in accordance with Schedule C: Control & Monitoring of this licence.
- 8.6 Unless approved in writing by the Agency the licensee is prohibited from mixing a hazardous waste of one category with a hazardous waste of another category or with any other non-hazardous waste.
- 8.7 Animal tissue or carcasses stored on-site pending disposal shall be placed in covered, leak proof containers and shall at a minimum be removed fortnightly for disposal in accordance with Condition 8.2.

- 8.8 Landspreading
- 8.8.1 Landspreading from this activity shall take place only on lands agreed in advance by the Agency.
- 8.8.2 Agreements between the licensee and recipients of wastes for landspreading shall not conflict with any conditions in this licence.
- 8.8.3 Soil monitoring shall be undertaken as outlined in Schedule C: Control & Monitoring and a summary report included as part of the Nutrient Management Plan.
- 8.8.4 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.
- 8.8.5 Where insufficient slurry recovery capacity is identified in the Nutrient Management Plan (NMP), the licensee shall reduce pig numbers on-site to a level consistent with the recovery capacity available as agreed by the Agency.
- 8.8.6 Landspreading shall be carried out in accordance with *Schedule C.7: Buffer Zones for Landspreading of Organic Waste* and *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.
- 8.8.7 Landspreading shall be undertaken using soil injection, bandspreading, or low trajectory splashplate methods. Any other method must receive prior agreement from the Agency.
- 8.8.8 Landspreading shall be undertaken in accordance with any measures prescribed by the National Parks and Wildlife Service in relation to designated conservation areas.
- 8.8.9 The assessment on the groundwater vulnerability of agreed or proposed spread-lands shall be available to the Agency for inspection at all reasonable times at the installation. The assessment shall be undertaken in accordance with the EPA publication "Landspreading of Organic Waste: Guidance on Groundwater Vulnerability Assessment of Land", 2004.

Reason: To provide for the appropriate handling of materials and the protection of the environment.

Condition 9. Accident Prevention and Emergency Response

- 9.1 The licensee shall, within six months of date of grant of this licence, ensure that a documented Accident Prevention Policy is in place which will address the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary.
- 9.2 The licensee shall, within six months of date of grant of this licence, ensure that a documented Emergency Response Procedure is in place, which shall address any emergency situation which may originate on-site including a flood event. This Procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary.

- 9.3 In the event of an incident the licensee shall immediately:-
- (i) isolate the source of any such emission;
 - (ii) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission arising therefrom;
 - (iii) evaluate the environmental pollution, if any, caused by the incident;
 - (iv) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
 - (v) identify the date, time and place of the incident;
 - (vi) provide a proposal to the Agency for its agreement within one month of the incident occurring or as otherwise agreed with the Agency to:-
 - identify and put in place measures to avoid reoccurrence of the incident; and
 - identify and put in place any other appropriate remedial action.

Reason: To provide for the protection of the environment.

Condition 10. Decommissioning & Residuals Management

- 10.1 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. The licensee shall carry out such tests, investigation or submit certification, as requested by the Agency, to confirm that there is no risk to the environment.

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

Condition 11. Notifications, Records and Reports

- 11.1 The licensee shall notify the Agency by both telephone and either facsimile or electronic mail, if available, to the Agency's Office of Environmental Enforcement, South East Region, PO Box 3000, Johnstown Castle Estate, County Wexford, 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:
- (i) Any release of environmental significance to atmosphere from any potential emission point including bypasses.
 - (ii) Any emission which does not comply with the requirements of this licence.
 - (iii) Any malfunction or breakdown of key control equipment or monitoring equipment set out in Schedule C: Control & Monitoring which is likely to lead to loss of control of the abatement system.
 - (iv) 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.

- 11.2 In the case of any incident which relates to discharges to water, the licensee shall notify the Local Authority and the Eastern Regional Fisheries Board as soon as practicable after such an incident.
- 11.3 The licensee shall make a record of any incident. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident. The record shall include all corrective actions taken to; manage the incident, minimise wastes generated and the effect on the environment, and avoid recurrence. The licensee shall as soon as practicable following incident notification, submit to the Agency the incident record.
- 11.4 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.
- 11.5 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the installation.
- 11.6 The licensee shall as a minimum keep the following documents at the site:-
- (i) the licences relating to the installation;
 - (ii) the previous year's AER for the installation;
 - (iii) records of all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the installation;
 - (iv) relevant correspondence with the Agency;
 - (v) up to date site drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and emission points
- and this documentation shall be available to the Agency for inspection at all reasonable times.
- 11.7 The licensee shall submit to the Agency, by the 31st March of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in Schedule D: Annual Environmental Report and shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 11.8 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:
- (i) The tonnages and EWC Code for the waste materials imported and/or sent off-site for disposal/recovery.
 - (ii) The names of the agent and carrier of the waste, and their waste collection permit details, if required (to include issuing authority and vehicle registration number).
 - (iii) Details of the ultimate disposal/recovery destination facility for the waste and its appropriateness to accept the consigned waste stream, to include its permit/licence details and issuing authority, if required.

- (iv) Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.
- (v) Details of all wastes consigned abroad for Recovery and classified as 'Green' in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No. 259/1993, as amended). The rationale for the classification must form part of the record.
- (vi) Details of any rejected consignments.
- (vii) Details of any approved waste mixing.
- (viii) The results of any waste analyses required under Schedule C: Control & Monitoring.
- (ix) The tonnages and EWC Code for the waste materials recovered/disposed on-site.

11.9 Where wastes are destined for landspreading, 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.

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

Condition 12. Financial Charges and Provisions

12.1 Agency Charges

12.1.1 The licensee shall pay to the Agency an annual contribution of €5,200, 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 the activity 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.

12.1.2 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.

12.2 Environmental Liabilities

12.2.1 The licensee shall as part of the AER provide an annual statement as to the measures taken or adopted at the site in relation to the prevention of environmental damage, and the financial provisions in place in relation to the underwriting of costs for remedial actions following anticipated events (including closure) or accidents/incidents, as may be associated with the carrying on of the activity.

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

SCHEDULE A: Limitations

A.1 Animal Numbers Housed at the Installation

Animal Class	Numbers ^{Note 1, 2}
Farrowing/Suckling Sows	100
Dry Sows	440
Maiden Gilts	50
Boars	10
Weaners	2030
Finishers	2050

Note 1: This excludes suckling pigs maintained on site.

Note 2: A 20% increase in the number of finishers held on site, for a period not exceeding 2 weeks, is permissible. The frequency of such occurrences must be kept to a minimum. Any other variation in any of the animal numbers specified requires prior written agreement from the Agency.



SCHEDULE B: Emission Limits

B.1 Emissions to Air

Condition 5 addresses Odour Emissions to Air.



B.2 Emissions to Water

There are no Emissions to Water of environmental significance.



B.3 Emission to Sewer

There are no Process Effluent Emissions to Sewer.



B.4 Noise Emissions

Daytime dB(A) L _{Aeq} (30 minutes)	Night-time dB(A) L _{Aeq} (30 minutes)
55 ^{Note 1}	45 ^{Note 1}

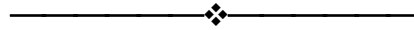
Note 1: There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise sensitive location.



SCHEDULE C: Control & Monitoring

C.1.1 Control of Emissions to Air

The Odour Management Programme addresses Control of Odour Emissions to Air.



C.1.2 Monitoring of Emissions to Air

The Odour Management Programme addresses Monitoring of Odour Emissions to Air.



C.2.1 Control of Emissions to Water

There are no Emissions to Water of environmental significance.



C.2.2 Monitoring of Emissions to Water

There are no Emissions to Water of environmental significance.



C.2.3 Monitoring of Storm Water Emission

Emission Point Reference No.: SW1 (Storm water outfall at south western boundary of site)

Parameter	Monitoring Frequency	Analysis Method/Technique
Visual Inspection	Weekly	Sample and examine for colour and odour
COD	Quarterly	Standard Method



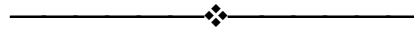
C.3.1 Control of Emissions to Sewer

There are no Process Effluent Emissions to Sewer.



C.3.2 Monitoring of Emissions to Sewer

There are no Process Effluent Emissions to Sewer.



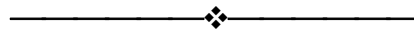
C.4 Waste Monitoring

Waste Class	Frequency	Parameter	Waste Monitoring Reference
Slurry/Manure	Weekly	Available storage capacity	WS1 (tank at sow house) WS2 (tank at farrowing house) WS3 (tank at weaner house 1) WS4 (tank at gilt house) WS5, 6 & 7 (tanks at finishing houses 1, 2 & 3) WS8 (overground tank)



C.5 Noise Monitoring

There is no noise monitoring required in this schedule.



C.6 Ambient Monitoring

Groundwater Monitoring

Location: GW1 (Borehole located at northern boundary of site)

Parameter	Monitoring Frequency	Analysis Method/Technique
Nitrate	Biannually	Standard Method
Total Ammonia	Biannually	Standard Method
Faecal coliforms	Annually	Standard Method
Water use	Continuous	Meter



Land used for Landspreading

Monitoring Location: All lands included in the landbank^{Note 1}

Conditions	Monitoring Frequency ^{Note 2}	Analysis Method/Technique ^{Note 3 & 4}
Where no soil test available	Within twelve months of the date of grant of licence	Morgan's P test
Where soil test $\leq 10\text{mg P/litre}$	Every three years	Morgan's P test

Note 1: Each sample should be representative of a maximum area of 4 ha except where uniform cropping and land use has been in place for the previous five years or more. In the latter situation a sample of 12 ha is acceptable.

Note 2: For lands which have been agreed with the Agency as suitable for landspreading.

Note 3: Peach, M and English, L. (1944) 'Rapid micro chemical test'. Soil Science 57:167.

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



C.7 Control of Landspreading

Buffer Zones for Landspreading of Organic Waste

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

Area	Buffer zone (m)
Sensitive buildings (hospitals, schools and churches)	200
Dwelling houses	100 ^{Note 1}
Karst features	30
Lakes and main river channels	20
Small watercourses ^{Note 2}	10
Public Roads ^{Note 2}	10
Domestic wells ^{Note 2}	50
Public water supplies ^{Note 2 & Note 3}	300 m or 100 days travel time

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

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

Note 3: The appropriate distance depends on vulnerability and groundwater flow direction.



Code of Practice for Landspreading of Organic Waste ^{Note 1}**Spreading shall not take place:**

- On wet or waterlogged ground.
- On frozen or snow covered ground.
- On exposed bedrock.
- Where surface gradients are excessive (preferably <18% (1:5)).
- On fields that display cracks over pipe or mole drainage systems.
- On fields that have been pipe or mole drained or subsoiled over a pipe or mole drainage system in the last 12 months.
- During November to February inclusive except with the agreement of the Agency.
- Outside daylight hours.
- In a manner which would have an adverse effect on a National Monument.

Loadings:

- Regardless of the dilution factor, the maximum hydraulic loading per single application shall not exceed 25 m³ per hectare on shallow limestone soils and in no case shall exceed 50 m³ per hectare.
- 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.

Organic Waste application shall be in accordance with the following guidelines:

- Landspreading on lands with extreme groundwater vulnerability ratings ^{Note 2} would be considered Not Generally Acceptable.
- Application shall be made such that the rate of application of nitrogen from organic wastes does not exceed 210 kg N/ha per annum subject to statutory requirements.
- No application on tillage land left fallow for the winter.
- Landspreading shall be in accordance with the current Teagasc nutrient recommendations or the current Department of Agriculture and Food, REPS recommendations.
- No application when the risk of causing odour nuisance to the public is greatest e.g. Sundays or public holidays.
- No application during meteorological conditions which increase the risk of odour nuisance.
- No application where significant rain is forecast within 48 hours.

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 D: Annual Environmental Report

Annual Environmental Report Content ^{Note 1}

Emissions from the installation.
Waste management record including waste monitoring details and slurry/manure register.
Nutrient Management Plan summary.
Resource consumption summary.
Complaints summary.
Ambient monitoring summary.
Tank and pipeline testing and inspection report.
Bund integrity test.
Reported incidents summary.
Odour management programme and report.
Energy efficiency audit report summary.
Report on the assessment of the efficiency of use of raw materials in processes and the reduction in waste generated.
Report on progress made and proposals being developed to minimise water demand.
Resource use and energy programme.
Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities).
Any other items specified by the Agency.

Note 1: Content may be revised subject to the agreement of the Agency.

Signed on behalf of the said Agency
on the 21st day of July, 2005

Jonathan Derham
Authorised Person