



Headquarters,
Johnstown Castle Estate
Wexford, Ireland

INTEGRATED POLLUTION CONTROL
PROPOSED DETERMINATION
OF REVIEW OF LICENCE

Licence Register Number:	680
Licensee:	Mr. Martin O'Donovan
Location of Activity:	Cooligboy Timoleague Bandon County Cork

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Glossary of Terms

The Agency	Environmental Protection Agency.
The Licensee	Mr. Martin O' Donovan, Cooligboy, Timoleague, Bandon, County Cork.
AER	Annual Environmental Report.
Annually	All or part of a period of twelve consecutive months.
BATNEEC	Best Available Technology Not Entailing Excessive Cost.
Bi – monthly	Every two months
BOD	5 day Biochemical Oxygen Demand.
Buffer zone	Area excluded from landspreading of waste.
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).
Digestate	The solid and liquid residues from the digestion process.
DO	Dissolved Oxygen.
EIS	Environmental Impact Statement.
EMP	Environmental Management Programme.
EWC	European Waste Catalogue (94/3/EEC 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.
IPC	Integrated Pollution Control.
Landspreading	The application of slurry/manure/digestate to farmland
Leq	Equivalent continuous sound level.
Local Authority	Cork County Council.
Monthly	At least 12 times per year at approximately monthly intervals.

Night-time	2200 hrs to 0800 hrs.
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	South Western Regional Fisheries Board.
Slurry/manure	Animal faeces, urine, washwater and any associated feed or bedding.
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 with the Agency.
Waste disposal activity	Means any of the activities included in the Third Schedule to the Waste Management Act 1996.
Waste recovery activity	Means any of the activities included in the Fourth Schedule to the Waste Management Act 1996.
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 Act, 1992.

In reaching this decision the Agency has considered the application and supporting documentation received from the Licensee, and the report of its inspector.

Activities Licensed

In pursuance of the powers conferred on it by the Environmental Protection Agency Act, 1992, the Agency proposes to determine the review of the existing licence (Reg. No. 621) granted to:

Mr. Martin O'Donovan, Cooligboy, Timoleague, Bandon, County Cork,

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

- : - the rearing of pigs in installations, whether within the same complex or within 100 metres of that complex, where the capacity exceeds 1,000 units on gley soils or 3,000 units on other soils and where units have the following equivalents: 1 pig = 1 unit, 1 sow = 10 units

and

- : - *the recovery or disposal of waste in a facility, within the meaning of the Waste Management Act, 1996, which facility is connected or associated with another activity specified in this Schedule in respect of which a licence or revised licence under Part IV is in force or in respect of which a licence under the said Part is or will be required* (for the proposed treatment of slurry generated on-site by anaerobic digestion and operation of associated plant including energy recovery),

at Cooligboy, Timoleague, Bandon, County Cork, 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 Control (IPC) 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 IPC licensing under the EPA Act, 1992 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 'Plot Ref. No. 23276_6_5', in the IPC 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 Act, 1992 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/digestate is aware of the nutrient management plan (condition 5.5.7), code of practise and buffer zones covering landspreading (condition 5.5.10) and of the requirements for storage of the slurry/manure/digestate (condition 5.5.3).

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 1st 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 licence to the 31st December of the same year.

2.5 Vermin Control

2.5.1 The licensee shall maintain sufficient and continuous vermin control at the site.

<p><i>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.</i></p>
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Condition 3 Notification

3.1 The licensee shall notify the Agency by both telephone and facsimile, if available, to the Agency's Headquarters in 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:

3.1.1 Any unauthorised emission from the facility.

3.1.2 Any release of environmental significance to atmosphere from any potential emission point.

3.1.3 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.

3.2 The licensee shall include as part of the notification, the date and time of the incident, details of the occurrence, and the steps taken to minimise the emissions and avoid recurrence. 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 necessary odour management measures appropriate for the site. 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 with prior written agreement of the Agency.
- 5.3 Waste sent off-site for recovery or disposal shall be conveyed only by an agreed waste haulier, and transported only 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/digestate via the public road shall be carried out in sealed containers such that no spillage can occur.
- 5.4 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:
- 5.4.1 The names of the agent and carrier of the waste, and their permit details (to include issuing authority).
- 5.4.2 The name of the persons responsible for the ultimate disposal/recovery of the waste.
- 5.4.3 The ultimate destination of the waste.
- 5.4.4 Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.
- 5.4.5 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.
- 5.4.6 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.
- 5.5 Where wastes are destined for landspreading the following conditions apply:
- 5.5.1 Monitoring of available storage capacity for slurry/manure/digestate shall be undertaken as outlined in *Schedule 2(iii) Waste Monitoring and Analysis*. 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.
- 5.5.2 Slurry/digestate composition shall be analysed as outlined in *Schedule 2(iii) Waste Monitoring and Analysis* and a summary report included as part of the AER.
- 5.5.3 In cases where there is transfer of slurry, manure or digestate from the facility to storage provided on farms in the clients list table 11 B(i) of the application, the licensee shall ensure that it is contained in a purpose built holding structure adequate for the protection of groundwater and surface water. Such transfer during November to January shall not be undertaken without the prior written agreement of the Agency.
- 5.5.4 Landspreading from this activity shall only take place on lands identified in *Schedule 2(iv) Lands where Landspreading of Organic Wastes from this Facility are Approved*. Additions to the lands listed in *Schedule 2(iv)* must be agreed in advance in writing with the Agency.
- 5.5.5 Agreements between the licensee and recipients of wastes for landspreading shall not conflict with any conditions in this licence.
- 5.5.6 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.
- 5.5.7 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 with the Agency.

- 5.5.8 Where insufficient slurry/digestate 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 with the Agency.
- 5.5.9 Landspreading shall be carried out in accordance with *Schedule 2(v) Buffer Zones for Landspreading of Organic Waste* and *Schedule 2(vi) 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.
- 5.5.10 Landspreading shall be undertaken using soil injection, bandspreading, or low trajectory splashplate methods. Any other method must receive prior written agreement from the Agency.
- 5.5.11 A register of landspread slurry/manure/digestate ('Slurry/Manure/Digestate 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/digestate
 - (ii) Name of person who transported the slurry/manure/digestate
 - (iii) Name of contractor/person who landspread the slurry/manure/digestate, when landspread by or on behalf of the licensee.
 - (iv) Name of farmer who received the slurry/manure/digestate
 - (v) The quantity of slurry/manure/digestate in each consignment
 - (vi) The quantity of nitrogen and phosphorus in each consignment of slurry/manure/digestate.
- 5.5.12 The details, as per Condition 5.5.11, from the register shall be reported to the Agency bi-monthly, and annually as part of the AER.
- 5.6 A proposal for discharge of domestic sewage from the facility to a septic tank or other suitable treatment system shall be submitted and agreed with the Agency not later than three months from date of grant of this licence.

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.
- 6.3 The licensee shall carry out a noise survey of the site operations within twelve months of date of grant of licence. The survey programme shall be undertaken in accordance with the methodology specified in the 'Environmental Noise Survey Guidance Document' as published by the Agency.

The licensee shall consult with the Agency on the timing of the survey. A record of the survey results shall be available for inspection by any authorised persons of the Agency.

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. The drainage system shall discharge through one outfall as identified in *Schedule 3(i) Surface Water Discharge Monitoring*. The licensee shall provide an inspection chamber at the 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/digestate storage capacity at the site. The minimum storage capacity on site shall be 11,712 m³.
- 7.7 The licensee shall ensure that a freeboard of at least 100mm from the top of covered slurry/digestate storage tanks and 500mm from the top of uncovered slurry/digestate storage tanks is maintained, as a minimum, at all times.
- 7.8 The licensee shall develop procedures for the operation and maintenance of sluice gates to manage slurry/digestate storage and slurry/digestate removal on-site, within three months of date of grant of licence.
- 7.9 The licensee shall install a spillage collection system around the slurry extraction point within six months from the date of grant of licence. A high level alarm shall be installed in the slurry extraction tank within three months of the date of grant of licence.
- 7.10 Underground, partly underground or overground concrete storage facilities shall conform to the Department of Agriculture, Food and Forestry specifications (S108, S123) or equivalent standard.
- 7.11 New underground tanks or storage basins shall be fitted with leak detection facilities and shall conform to the Department of Agriculture, Food and Forestry specifications (S126) or equivalent standard. Design details shall be submitted and agreed with the Agency prior to installation.

- 7.12 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/digestate 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.
- 7.13 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.
- 7.14 The licensee shall carry out ambient 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. 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. 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 and Analysis

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.

<p><i>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.</i></p>
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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

Headquarters as specified in this licence. The format of these reports shall be to the satisfaction of the Agency. One original and three 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 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 €2,201, 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 Act, 1992. 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 Act 1992, and all such payments shall be made within one month of the date upon which demanded by the Agency.

13.1.2 The licensee shall in addition discharge all costs incurred by the Agency in relation to reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency 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

Animal Class	Numbers ^{Note 1, 2}
Farrowing/Suckling Sows	215 220 ie figures will be rounded to nearest ten
Dry Sows	935 940 ie figures will be rounded to nearest ten
Maiden Gilts	165 170 ie figures will be rounded to nearest ten
Boars	15 20 ie figures will be rounded to nearest ten
Weaners	4600 4600 ie figures will be rounded to nearest hundred
Finishers	5900 5900 ie figures will be rounded to nearest hundred

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

Waste Materials	Further Treatment On-Site	On-site Recovery, Reuse or Recycling	Method of Off-Site Disposal
Veterinary Waste	None	None	Agreed contractor
Animal tissue or carcasses	None	None	Agreed contractor
Fluorescent Tubes	None	None	Agreed contractor
Other ^{Note 1}			

Note 1: No other 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

Waste Materials	Further Treatment On-Site	On-Site Recovery, Reuse or Recycling ^{Note 1}	Method of Off-Site Disposal/Recovery
Domestic and canteen waste	None	None	Agreed disposal contractor.
Animal slurry/manure/digestate	Anaerobic digestion of slurry. Separation of liquid and solid phase digestate	Recovery of biogas	Landspreading
Other ^{Note 2}			

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 and Analysis

Waste Monitoring Reference(s): As labelled in Site Layout Map, Appendix 3 of EIS:

Waste Materials	Frequency	Parameter	Waste Monitoring Reference
Digestate	Annually	Total N, total P, total K	Outlet of second digester
Slurry/Manure/Digestate	Weekly	Available storage capacity	House No.s 4, 7, 9, 10 -15



Schedule 2(iv) Lands where Landspreading of Organic Wastes from this Facility are Approved

Location ^{Note 1}
All areas approved by applicant in Maps from Appendix 1 of the EIS, with the exception of the following: All of Farm No. 54 Farm 10 excessive sloped area of plot 7, Farm 14 plot 3, Farm 19 plot 10 and 14, Farm 27 plot 5, Farm 30 section of plot 6 adjoining Argideen river, Farm 40 excessive sloped area of plot 7, Farm 44 wet section of plot 3, Farm 50 plot 4, Farm 56 plot 5.

Note 1: The above list is subject to annual written approval by the Agency following submission of a NMP by the licensee. The list may be changed by the Agency following the submission of additional/new information by the licensee.



Schedule 2(v) 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 written 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.

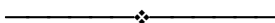


Schedule 2(vi) Code of Practice for Landspreading of Organic Waste ^{Note 1}

Spreading shall not take place:
<ul style="list-style-type: none"> 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:
<ul style="list-style-type: none"> 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:
<ul style="list-style-type: none"> 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 250 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.

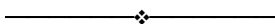
Note 2: As defined in *Groundwater Protection Schemes*, DoELG/EPA/GSI joint publication 1999.



Schedule 3(i) Surface Water Discharge Monitoring

Emission Point Reference No’s.: SW1 (Storm water outfall at Southern boundary of site)

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^{Note 1:}

Well labelled GW1 in Site Layout Map of EIS (Appendix 3)
Well labelled GW2 in Site Layout Map of EIS (Appendix 3)

Note :Wells shall be on site

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

Note 1: Additional monitoring points may be necessary with amendments to the spreadlands.



Schedule 3(iii) Soil Monitoring

Monitoring Point Reference No's^{Note 1,2:}

For all spreadlands utilised in this IPC licence

Conditions	Monitoring frequency	Analysis Method/Technique
Where no soil test available	Within 12 months of grant of licence	Morgan's P test ^{Note 3}
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 land use 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.



Schedule 4(i) Recording and Reporting to the Agency

Completed reports shall be submitted to:

The Environmental Protection Agency
P.O. Box 3000
Johnstown Castle Estate
Wexford

or Any other address as may be
specified by the Agency

Reports are required to be forwarded as set out below:

Recurring Reports:

Report	Reporting Frequency	Report Submission Date
Slurry/manure/digestate register	Bi-Monthly	Ten days after end of the two months being reported on.
Available slurry/manure/digestate 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 the first of February annually
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/Digestate 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
Energy efficiency audit

Once-off Reports:

Report	Report Submission Date
Energy Efficiency audit proposal	Prior to implementation
Odour management Programme	Within twelve months of date of grant of licence
Proposal to treat domestic sewage	Within three months of date of grant of licence



Signed on behalf of the Agency

Patrick J. Nolan

Authorised person

Dated this day 3rd of October 2003.