



Headquarters, Ardavan
Wexford, Ireland

INTEGRATED POLLUTION CONTROL PROPOSED DETERMINATION

Licence Register Number:	175
Applicant :	Queally Pig Slaughtering Limited.
Location of Activity:	Grannagh, Co. Kilkenny

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Glossary of Terms

The Agency	Environmental Protection Agency.
The Licensee	Queally Pig Slaughtering Limited., Grannagh, Co. Kilkenny
AER	Annual Environmental Report.
Annually	All or part of a period of twelve consecutive months.
BATNEEC	Best Available Technology Not Entailing Excessive Costs.
Bi-annually	All or part of a period of six consecutive months.
BOD	5 day Biochemical Oxygen Demand.
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.
Day	Any 24hr period
Daytime	0800 hrs to 2200 hrs.
Daylight hours	Outside lighting-up time plus one hour.
dB(A)	Decibels (A weighted).
DO	Dissolved Oxygen.
EMP	Environmental Management Programme.
EWC	European Waste Catalogue (94/3/EEC, see also Agency Guidance Note on the EWC)
IPC	Integrated Pollution Control.
Leq	Equivalent continuous sound level.
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	Kilkenny 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.
Organic Waste Material	Dewatered Paunch Contents, Dewatered WWTP Sludge, Lairage Slurry
PER	Pollution Emission Register.
Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
SRM	Specified Risk Material
Standard Methods:	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) 19th Ed. 1995, American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA.
Waste disposal operation	Means any of the operations included in the Third Schedule to the Waste Management Act 1996.
Waste recovery operation	Means any of the operations 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.
WWTP	Waste Water Treatment Plant.

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 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, intermediates, products or wastes generated,
- or 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 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 in Figure 5.1 labelled 'Site Plan', of the IPC licence application.

Reason: To clarify the scope of this licence.

Condition 2 Management of the Activity

- 2.1 The licensee shall establish and maintain an Environmental Management System (EMS) which shall fulfil the requirements of this licence. The EMS shall assess all operations and review all practicable options for the use of cleaner technology, cleaner production and the reduction and minimisation of waste, and shall include as a minimum those elements specified in the Conditions 2.2 to 2.8 below:
- 2.2 A schedule of Environmental Objectives and Targets
- 2.2.1 The licensee shall prepare a schedule of Environmental Objectives and Targets. The schedule shall include time frames for the achievement of set targets. The schedule shall address a five year period as a minimum. The schedule shall be prepared to the satisfaction of the Agency and shall be submitted to the Agency within four months of date of grant of this licence. The schedule shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER) (see also Condition 2.8).

2.3 Environmental Management Programme (EMP)

2.3.1 The licensee shall, not later than six months from the date of grant of this licence, establish and maintain an EMP, including a time schedule, for achieving objectives and targets. The EMP shall thereafter, form part of the AER and shall be agreed with the Agency prior to implementation. It shall include:

- (i) designation of responsibility for targets;
- (ii) the means by which they may be achieved;
- (iii) the time within which they may be achieved.

2.3.2 A report on the programme, including the success in meeting agreed targets, shall be prepared and submitted to the Agency as part of the AER. Such reports shall be retained on-site for a period of not less than seven years and shall be available for inspection by authorised persons of the Agency.

2.4 Documentation

2.4.1 The licensee shall establish and maintain an environmental management documentation system which shall be to the satisfaction of the Agency.

2.4.2 The licensee shall issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

2.5 Corrective Action

2.5.1 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.

2.6 Awareness and Training

2.6.1 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.

2.6.2 Personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and/or experience, as required.

2.7 Responsibilities

2.7.1 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 at all times when the activity is in operation. The person in charge shall also be available to meet with authorised persons of the Agency at all reasonable times.

2.8 Communications

- 2.8.1 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. This programme shall be submitted for agreement to the Agency within six months of the date of grant of this licence.
- 2.8.2 The licensee shall submit to the Agency, eighteen months from the date of grant of this licence, and each calendar year thereafter, 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 and Reporting to the Agency* and shall be prepared in accordance with any relevant guidelines issued by the Agency.

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 Interpretation

- 3.1 Emission limit values for emissions to water in this licence shall be interpreted in the following way:-
- 3.1.1 Continuous monitoring:
- (i) No flow value shall exceed the specified limit.
 - (ii) No temperature value shall exceed the specified limit.
 - (iii) No pH value shall deviate from the specified range.
- 3.1.2 Non-Continuous Monitoring:
- (i) For parameters other than flow, temperature and pH, eight out of ten consecutive results, calculated as daily mean concentration on the basis of flow proportional composite sampling, shall not exceed the emission limit value. No individual result similarly calculated shall exceed 1.2 times the emission limit value.
 - (ii) For parameters other than pH, temperature and flow, no grab sample value shall exceed 1.2 times the emission limit value.

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

Condition 4 Notification

- 4.1 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:
- 4.1.1 Any release to atmosphere from any potential emission point.
- 4.1.2 Any emission which does not comply with the requirements of this licence.

- 4.1.3 Any malfunction or breakdown of control equipment or monitoring equipment set out in;

Schedule 1(ii) Effluent Treatment Control,

which is likely to lead to loss of control of the abatement system.

- 4.1.4 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, details of the occurrence, and the steps taken to minimise the emissions and avoid recurrence.

- 4.2 The licensee shall make a record of any incident as set out in Condition 4.1 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.
- 4.3 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.
- 4.4 In the case of any incident as set out in Condition 4.1.4 above which relates to discharges to water, the licensee shall notify the Southern Regional Fisheries Board as soon as practicable after such an incident.
- 4.5 In the event of any incident, as set out in Condition 4.1.4 having taken place, the licensee shall notify the 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 5 Emissions to Atmosphere

- 5.1 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.
- 5.2 Boilers shall be inspected and maintained annually and boiler combustion efficiency shall be tested annually and results reported as part of the AER.
- 5.3 Boilers shall be operated so as to give a smoke colour less than or equal to shade number 1 on the Ringelmann chart except during periods of start up. Such start up periods shall not exceed 30 minutes in any 24 hour period.

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

Condition 6 Emissions to Water

- 6.1 No specified emission to water shall exceed the emission limit values set out in *Schedule 1(i) Emissions to Water*, subject to Condition 3 of this licence. There shall be no other effluent emissions of environmental significance.
- 6.2 The equipment, including backup equipment, specified in *Schedule 1(ii) Effluent Treatment Control* of this licence, shall be provided on-site. All treatment/abatement,

control and monitoring equipment shall be calibrated and maintained at all times when in use, in accordance with the information submitted in Table 13A(iii) of the IPC licence application or as otherwise agreed with the Agency under the EMP.

- 6.3 Monitoring and analyses of each emission shall be carried out as specified in *Schedule 1(iii) Monitoring of Emissions to Water* of this licence. A report on the results of this monitoring shall be submitted to the Agency monthly.
- 6.4 A summary report of process effluent emissions 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.
- 6.5 The licensee shall install a fixed pH meter in the balance tank of the waste water treatment plant within six months of the date of grant of this licence.
- 6.6 The licensee shall install, within twelve months of the date of grant of this licence, sufficient balancing capacity prior to biological treatment to contain the daily maximum volumetric production of effluent.
- 6.7 No substance shall be discharged in a manner, or at a concentration which, following initial dilution, causes tainting of fish or shellfish.
- 6.8 The licensee shall report, within twelve months of the date of grant of this licence, on the adequacy of the outfall to ensure that the location and extent of the mixing zone is compatible with protection of the receiving water. The study shall include an analysis of the dispersion characteristics of the outfall location and address the necessity or otherwise of a tidal discharge regime. The licensee shall carry out any work necessary subsequent to this report.

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

Condition 7 Waste Management

- 7.1 Disposal or recovery of waste shall take place only as specified in *Schedule 2(i) Hazardous Wastes for Disposal or Recovery*, and *Schedule 2(ii) Other Wastes for Disposal or 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 or recovered off-site without prior notice to, and prior written agreement of the Agency.
- 7.2 Waste sent off-site for recovery or disposal shall only be conveyed to a waste contractor, as agreed by the Agency, and only transported from the site of the activity to the site of recovery or disposal in a manner which will not adversely affect the environment.
- 7.3 All waste by-products of blood, offal, hair, bones, fat, and WWTP sludge, sent off-site for disposal/recovery shall be transported in covered, water retaining containers.
- 7.4 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:
- 7.4.1 The names of the agent and transporter of the waste.

- 7.4.2 The name of the persons responsible for the ultimate disposal or recovery of the waste.
- 7.4.3 The ultimate destination of the waste.
- 7.4.4 Written confirmation of the acceptance and disposal or recovery of any hazardous waste consignments sent off-site.
- 7.4.5 The results of any analyses required under *Schedule 2(iii) Waste Analysis* of this licence.
- 7.4.6 The tonnages and EWC Code for the waste materials listed in *Schedule 2(i) Hazardous Wastes for Disposal or Recovery* and *Schedule 2(ii) Other Wastes for Disposal or Recovery*, sent off-site for disposal or recovery.
- 7.4.7 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.

- 7.5 Where wastes are destined for landspreading the following conditions apply:
 - 7.5.1 The licensee shall ensure that within eighteen months of the date of grant of this licence, there is adequate storage capacity available at all times for the storage of wastes for landspreading.
 - 7.5.2 Organic waste produced at the site shall be analysed in accordance with *Schedule 2(iii) Waste Analysis* of this licence.
- 7.6 An organic waste register shall be maintained on site 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) the results of any analysis required under *Schedule 2(iii) Waste Analysis*.

Details from the organic waste register shall be reported to the Agency monthly and a summary submitted annually as part of the AER.

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

Condition 8 Noise

- 8.1 Activities on-site shall not give rise to noise levels off site, at any noise sensitive location, which exceed the following sound pressure limits (Leq,T):
 - 8.1.1 Daytime: 55 dB(A)
 - 8.1.2 Night-time: 45 dB(A).
- 8.2 There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise sensitive location.
- 8.3 The licensee shall carry out a noise survey of the site operations once per year, with the first survey commencing within two months from the date of grant of this licence. A report on the survey shall be forwarded to the Agency within three months from the date of grant of this licence and annually thereafter. The licensee shall consult with the Agency on the timing, nature and extent of the survey and shall develop a survey programme to the satisfaction of the Agency. The survey programme shall be submitted to the Agency in writing at least one month before the survey is to be carried out.

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

Condition 9 Non-Process Water

9.1 Surface water

- 9.1.1 A visual examination of the surface water discharges shall be carried out daily.
- 9.1.2 The licensee shall carry out any works necessary to the site drainage system to ensure that only uncontaminated surface water run-off is discharged from the surface water drainage system. Any surface water arising from process related activities shall be discharged to the WWTP. Any surface water originating from outside the boundary of the activity shall be diverted from the licensee's surface water drainage system. A report detailing this work shall be submitted to the Agency within twelve months of the date of grant of this licence.
- 9.1.3 The licensee shall determine the normal levels of conductivity for uncontaminated surface water and shall, within twelve months of the date of grant of this licence, submit proposals to the Agency for the setting of warning and action levels, and establish a response programme when such agreed action levels are reached.
- 9.1.4 The licensee shall monitor surface water discharges in accordance with *Schedule 3 (i) Surface Water Discharge Monitoring* of this licence.
- 9.1.5 In the event that any analyses or observations made on the quality or appearance of surface water runoff 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 as soon as is practicable.

9.2 Groundwater

- 9.2.1 The licensee shall commission the borehole included in figure 5.1 of the IPC application as a monitoring borehole, the construction of which shall be agreed with the Agency, and shall submit a report on a groundwater analysis from the borehole within twelve months of the date of grant of this licence.

9.3 Facilities for the Protection of Groundwater and Surface Water

- 9.3.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein. In addition, tank and drum storage areas shall, 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 three years. A report on such tests shall be included in the AER.

- 9.3.2 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 to the satisfaction of the Agency and shall be reported to the Agency within twelve months from the date of grant of this licence.
- 9.3.3 The loading and unloading of materials shall be carried out in designated areas protected against spillage and leachate run-off. While awaiting disposal, all materials shall be collected and stored in designated areas protected against spillage and leachate run-off.
- 9.3.4 All pump sumps or other treatment plant chambers from which spillage might occur shall be fitted with high liquid level alarms within twelve months from the date of grant of this licence.
- 9.3.5 The licensee shall undertake a programme of testing and inspection of underground tanks and pipelines to ensure that all underground effluent and foul sewer pipes are tested at least once every three years. A report on such tests shall be included in the AER.
- 9.3.6 The licensee shall undertake a programme of testing and inspection of all WWTP tanks to ensure that they are tested at least once every three years. A report on such tests shall be included in the AER.
- 9.3.7 An inspection for leaks on all flanges and valves on over-ground pipes used to transport materials other than water shall be carried out weekly.
- 9.3.8 The licensee shall have in storage an adequate supply of containment booms and suitable absorbent material to contain and absorb any spillage.

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

Condition 10 Monitoring

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

Schedule 1(ii) Effluent Treatment Control

Schedule 1(iii) Monitoring of Emissions to Water

Schedule 2(iii) Waste Analysis

Schedule 3 (i) Surface Water Discharge Monitoring

of this licence.

- 10.2 Where the ability to measure a parameter is affected by mixing before emission, then, with prior written agreement from the Agency, the parameter may be assessed before mixing takes place.
- 10.3 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring has been agreed in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring facilities shall

be put in place. Prior written agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.

- 10.4 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the emission or discharge.
- 10.5 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.
- 10.6 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.
- 10.7 The licensee shall provide safe and permanent access to the following sampling and monitoring points:
- 10.7.1 Final effluent as discharged from the site,
 - 10.7.2 WWTP,
 - 10.7.3 Noise sources and sampling points on-site,
 - 10.7.4 Waste storage areas on-site,
 - 10.7.5 Surface waters discharge,
 - 10.7.6 On-site groundwater monitoring wells,
- 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, calibrations 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, during the month following such complaints, 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, calibrations and maintenance as set out in *Schedule 4(i) Recording and Reporting to the Agency* of 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 Provision shall also be made for the transfer of environmental information, in relation to this licence, to the Agency's computer system, as may be requested by the Agency.
- 11.7 All reports shall be certified accurate and representative by the licensee's Plant Manager or other senior officer designated by the Plant Manager.
- 11.8 All written procedures controlling operations affecting this licence shall be available on-site for inspection by the Agency at all reasonable times.
- 11.9 The frequency and scope of reporting, as set out in this licence, may be amended with the written agreement of the Agency following evaluation of test results.

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

Condition 12 Emergency Response

- 12.1 The licensee shall ensure that an Emergency Response Procedure is in place which shall address any emergency situation which may originate on-site. This Procedure shall include provision for minimising the effects of any 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 a minimum annual contribution of £4,590 or such greater sum as the Agency from time to time determines, towards the cost of monitoring the emissions as the Agency considers necessary for the performance of its functions under the Environmental Protection Agency Act, 1992. The licensee shall in 1998 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Consumer Price Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 1997, the licensee shall pay a pro rata amount from the date of this licence to December 31, 1997. This amount shall be paid to the Agency within one month of the date of grant of this licence.

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

Schedule 1 (i) Emissions to Water

Emission Point Reference No.: EW-1
Name of Receiving Waters : River Suir
Location : E256851 N114197

Volume to be emitted: Maximum in any one day : 1800 m³
 Maximum rate per hour : 90 m³

Parameter	Emission Limit Value	
	Until 31 December 1999 mg/l	From 1 January 2000 mg/l
pH	6 - 9	
Temperature ^{Note 1}	25°C	
COD	500	200
BOD	100	40
Suspended Solids	40	40
Nitrates (as N)	50	20
Total Ammonia (as N)	10	10
Total Phosphorus (as P)	10	2
Orthophosphate	5	1
Detergents	5	5
Fats, oils and grease	15	15

Note 1: The ambient temperature of the receiving water shall not be artificially increased by more than 1.5°C. The temperature of the receiving water downstream of the outfall shall not be artificially increased above 21.5°C during May to October and 10°C during November to April.



Schedule 1(ii) Effluent Treatment Control

Emission Point Reference No.: EW-1

Description of Treatment: Waste Water Treatment Plant

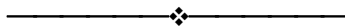
Monitoring :

Monitoring to be Carried Out	Monitoring Frequency	Monitoring Equipment/Method
Equalisation / Balancing :		
pH	Continuous	Fixed pH probe ^{Note 1}
COD	Daily	Standard Methods
Total N (as N)	Weekly	Standard Methods
Total Ammonia (as N)	Weekly	Standard Methods
Total Phosphorus (as P)	Weekly	Standard Methods
Aeration Tanks :		
Dissolved Oxygen	Continuous	Fixed DO meters
Mixed liquor suspended solids	Weekly	Standard Laboratory Test
Sludge Volume Index	Daily	Standard Laboratory Test
Secondary Clarifier :		
Floating Solids	Daily	Visual

Note 1: To be installed within three months of the date of grant of licence.

Equipment:

Control Parameter	Equipment	Backup equipment
Pre-Treatment :		
Fat, grease, suspended solids	Dissolved Air Flotation Unit	Spares held on site
Balancing :		
Suspended solids	Surface Aerator	Spares held on site
Flow	Forward feed pumps	Spares held on site
Aeration Stage :		
Dissolved Oxygen	Surface aerators	Spares held on site
Clarification :		
Suspended solids	Scraper Mechanism	Spares held on site
	Sludge Return Pumps	Spares held on site
Dewatering :		
Suspended solids	Belt Press	Spares held on site



Schedule 1(iii) Monitoring of Emissions to Water

Emission Point Reference No.: EW-1

Location of Monitoring Point: After clarifier in treatment plant.

Parameter	Monitoring Frequency	Analysis Method/Technique
Outlet Flow	Continuous	On-line flow meter with recorder
pH	Continuous	pH electrode/meter and recorder
Temperature	Continuous	Thermometer
COD	Daily	Standard Methods
Suspended Solids	Daily	Gravimetric
Total Ammonia (as N)	Daily	Standard Methods
BOD	Weekly	Standard Methods
Nitrates (as N)	Weekly	Standard Methods
Total Phosphorus (as P)	Weekly	Standard Methods
Oils, fats & greases	Weekly	Standard Methods
Detergents	Weekly	Standard Methods



Schedule 2(i) Hazardous Wastes for Disposal or Recovery

Waste Materials	Further Treatment Recovery/Recycling	Method of off-site disposal
Waste Oils	None	Agreed disposal contractor
Any infectious waste ^{Note 1}	None	Specialist, licensed rendering facilities

Note 1 : As defined by Category H9 of Annex III to the EU Hazardous Waste Directive (91/689/EEC)



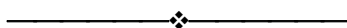
Schedule 2(ii) Other Wastes for Disposal/Recovery

Waste Materials ^{Note 1}	Further Treatment On Site	Method of off-site Disposal or Recovery ^{Note 2}
Imported process waste water from Dawn Meats (Exports) Ltd.	Waste Water Treatment Plant	Post treatment discharge to River Suir
Dewatered sludge from the WWTP	None	Landspreading by Dawn Meats (Exports) Ltd.
Offal	None	Agreed rendering facility
Bones	None	Agreed rendering facility
Blood	None	Agreed rendering facility
Heads	None	Agreed rendering facility
Domestic Refuse	None	Agreed disposal contractor
Packaging and office waste	None	Agreed disposal contractor
Other ^{Note 3}		-

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

Note 2: Any variation from those contractors named in the IPC Licence application, or subsequent agreements, must have the prior written agreement of the Agency

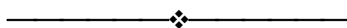
Note 3: No other waste shall be disposed of or recovered off-site without prior notice to, and prior written agreement of the Agency.



Schedule 2(iii) Waste Analysis

Waste Class	Frequency	Parameter	Method
WWTP Sludge	Bi-annually	% Dry Matter, total N, total P, total K	Standard Methods
	Daily	Volume/Mass	As agreed with the Agency
Other ^{Note 1}	-	-	-

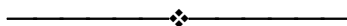
Note 1: No other waste shall be disposed of or recovered off-site without prior notice to, and prior written agreement of the Agency.



Schedule 3 (i) Surface Water Discharge Monitoring

Emission Point Reference No.: EW-3

Parameter	Monitoring Frequency	Analysis Method/Technique
Conductivity	Continuous	Conductivity electrode
COD	Monthly	Standard Methods
Total Ammonia	Quarterly	Standard Methods
Suspended Solids	Quarterly	Gravimetric
Chloride	Quarterly	Standard Methods
Fats, oils, grease	Quarterly	Standard Methods
Visual Inspection	Weekly	Not Applicable



Schedule 4(i) Recording and Reporting to the Agency

Completed reports shall be submitted to:

The Environmental Protection Agency
Headquarters
Ardcavan
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
Emissions to Water	Monthly	Ten days after end of the month being reported on.
Surface Water	Monthly	Ten days after end of the month being reported on.
Complaints (where these arise)	Monthly	Ten days after end of the month being reported on.
Organic Waste Register	Monthly	Ten days after end of the month being reported on.
Annual Environmental Report (AER)	Annually	Eighteen months from the date of grant of licence and each year thereafter.
Noise Survey Programme	Annually	One month prior to noise survey.

Annual Environmental Report Content	Items to be Addressed in the EMP
Emissions to water summary Waste management record Organic Waste Register Schedule of Environmental Objectives and Targets Complaints summary Environmental management programme - proposal Environmental management programme - report Tank and pipeline testing and inspection report Reported incidents summary Boiler combustion efficiency results Noise survey report	Improvement in effluent quality from WWTP Improvements in WWTP operation and control Reduction of noise emissions Investigation of natural gas as a fuel source Reduction in Water Usage



Once-off Reports:

Report	Report Submission Date
Environmental Management Programme.	Within six months of the date of grant of licence.
Programme for public information.	Within six months of the date of grant of licence.
Adequacy of outfall location as per Condition 6.8	Within twelve months of the date of grant of licence.
Noise survey report as per Condition 8.3	Within three months of the date of grant of licence.
Conductivity warning level proposal.	Within twelve months of the date of grant of licence.
Groundwater Analysis as per Condition 9.2.1	Within twelve months of the date of grant of licence.
Bund integrity assessment.	Within twelve months of the date of grant of licence.
Schedule of Environmental Objectives and Targets	Within four months of the date of grant of licence

