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P.O. Box 3000,
Johnstown Castle Estate
County Wexford, Ireland

WASTE LICENCE

Waste Licence	136-1
Register Number:	
Licensee:	Ahern Industrial Services Limited
Location of Facility:	Sarsfieldcourt Industrial Estate, Sarsfieldcourt, Glanmire, Co. Cork.

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 operation of a waste transfer station and recycling facility at Sarsfieldcourt Industrial Estate, Sarsfieldcourt, Glanmire, Co. Cork.

Ahern Industrial Services Ltd. will be licensed to accept non-hazardous wastes (primarily of commercial and industrial waste) only at this facility. The wastes will be processed within a waste transfer building with the recyclable materials (e.g. glass, metal, cardboard, wood, plastic, paper) removed and the residual waste sent to landfill. The quantity of waste to be accepted at the facility is limited to 50,000 tonnes in the first year of operation and increasing to a maximum of 95,000 tonnes in the fifth year.

The licensee must manage and operate the facility to ensure that the activities do not cause environmental pollution. The licensee is required to carry out regular environmental monitoring and submit all monitoring results, and a wide range of reports on the operation and management of the facility to the Agency.

The conditions of this licence set out in detail the legal constraints under which Ahern Industrial Services Ltd. will operate and manage this facility.

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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 40(4) of the Waste Management Act, 1996.

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

Part I: Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Act, 1996, the Environmental Protection Agency (the Agency), under Section 40(1) of the said Act hereby grants this Waste Licence to Ahern Industrial Services Ltd., Glanmire, Co. Cork to carry on the waste activities listed below at Sarsfieldcourt Industrial Estate, Sarsfieldcourt, Glanmire, Co. Cork subject to eleven conditions, with the reasons therefor and the associated schedules attached thereto set out in the licence.

Licensed waste disposal activities, in accordance with the Third Schedule of the Waste Management Act, 1996

Class 11.	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule: This activity is limited to bulking and transfer of waste.
Class 13.	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced: This activity is limited to storage prior to bulking and transfer of waste.

Licensed waste recovery activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996

Class 2.	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes): This activity is limited to the recovery of cardboard, paper, wood and plastic.
Class 3.	Recycling or reclamation of metals and metal compounds: This activity is limited to the recovery of steel and metals.
Class 4.	Recycling or reclamation of other inorganic materials: This activity is limited to the recovery of glass and other inert wastes.
Class 13.	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced: This activity is limited to the storage of waste prior to recovery.

INTERPRETATION

Act	The Waste Management Act, 1996 (No. 10 of 1996).
Adequate Lighting	20 lux measured at ground level.
Agency	Environmental Protection Agency
Agreement	Agreement in writing.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of the waste licence application.
Application	The application by the licensee for this waste licence, including any other material submitted to the Agency in writing by the licensee between the date of the application and the date of grant of this licence.
Annually	All or part of a period of twelve consecutive months.
Appropriate Facility	A waste management facility, duly authorised under relevant law and technically suitable.
Bi-annually	All or part of a period of six consecutive months.
Bund	A structure to provide containment for any loss of liquid from a storage tank and associated pipework. The Agency's Landfill Design Manual (draft) sets forth design criteria.
Commercial Waste	As defined in Section 5 (1) of the Act.
Condition	A condition of this licence. In any case where this licence refers to a numbered condition, the reference shall be taken to mean the condition and any sub-condition therein which the context of the reference requires that reference is made to.
Containment Boom	A boom which can contain spillages and prevent these from entering drains or watercourses.
Daily	Consecutive 24 hour periods
Day	A period from 0.00 hours to 2400 hours.
Daytime	8.00 a.m. to 10.00 p.m.
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.
Emission	As defined in Section 5 (1) of the Act.
Emission Limit Value	Those limits, including concentration limits and deposition levels established in <i>Schedule F: Emission Limits</i> of this licence.

Environmental Pollution	As defined in Section 5 (1) of the Act.
European Waste Catalogue (EWC)	The EWC is a harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 94/3/EC and any subsequent amendment published in the Official Journal of the European Community.
Facility	That area or areas defined under Condition 1.2
Foul Water	Sewage and drainage from waste transfer building, wheelwash, truck wash, ramp, weighbridges vehicle cleaning and ejector trailer parking areas.
Hazardous Waste	As defined in Section 4 (2) of the Act.
Household Waste	As defined in Section 5 (1) of the Act.
Incident	Any reference to an incident in this licence means an incident as defined in Condition 3.1.
Industrial Waste	As defined in Section 5 (1) of the Act.
Inert Waste	Waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater.
Impulsive Noise	As defined in British Standard BS 4142, 1990. "Method for rating industrial noise affecting mixed residential and industrial areas".
Instruction	Instruction in writing
Licence	A Waste Licence issued in accordance with the Act.
Licensee	Ahern Industrial Services Ltd., Glanmire, Co. Cork.
Liquid Waste	Any waste in liquid form and containing less than 2% dry matter.
Local Authority	Cork County Council
Maintain	Keep in a fit state, including such regular inspection, servicing and repair as may be necessary to adequately perform its function.
Mobile Plant	Self-propelled machinery used for the emplacement of wastes or for the construction of specified engineering works.
Monthly	At least 12 times per year, at approximately monthly intervals.
Municipal Waste	Municipal waste as defined in Section 5 (1) of the Act.
Night-time	10.00 p.m. to 8.00 a.m.

Noise Sensitive Location (NSL)	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.
Non-hazardous Waste	Non-Hazardous Waste is any waste which is not a hazardous waste as defined in the Act.
Oil Separator	Device installed according to the draft European Standard prEN 858 (Installations for the separation of light liquids, e.g. oil and petrol).
Putrescible Waste	Waste which is readily biodegradable such as vegetable matter, green waste, etc.
Quarterly	A period of three calendar months, the first period of which commences on the date of grant of this licence.
Recovery	As defined in Section 4 (4) of the Act.
Sample(s)	Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments.
Sanitary Authority	Cork County Council
Sludge	The accumulation of solids resulting from chemical coagulation, flocculation and/or sedimentation after water or wastewater treatment with between 2% and 14% dry matter.
Specified Emissions	Those emissions listed in <i>Schedule F: Emission Limits</i> of this licence.
Specified Engineering Works	Those engineering works listed in <i>Schedule D: Specified Engineering Works</i> of this licence.
Submit	Unless the context of this licence indicates otherwise, submit to the Agency in writing for agreement.
Tonal Noise	As defined in International Standards Organisation “Acoustics – description and measurement of environmental noise”, Part 2, 1996.
Trigger Level	A parameter value which when achieved or exceeded requires certain actions to be taken.
Waste	As defined in Section 4(1) of the Act.
Waste Disposal Activity	Includes the activities referred to in Section 4 of the Act and listed in the Third Schedule thereto.
Waste Recovery Activity	Includes the activities referred to in Section 4 of the Act and listed in the Fourth Schedule thereto.
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.
White Goods	Refrigerators, cookers, ovens and other similar appliances.
Working Day of the Facility	7.00 a.m. to 8.00 p.m. Monday to Friday inclusive; 7.00 a.m. to 3.00 p.m. on Saturdays.

Part II: CONDITIONS

CONDITION 1 SCOPE

- 1.1. Waste activities at the facility shall be restricted to those listed and described in Part I: Activities Licensed and required by the licence. All programmes required to be carried out under the terms of this licence become part of this licence.
- 1.2. Waste activities shall be restricted to the area of land outlined in red on Figure B.2.3 entitled 'Ahern Industrial Services, Site Location, Scale 1:2500' of the waste licence application. Any reference in this licence to "facility" shall mean the area thus outlined in red.
- 1.3. This licence is for the purposes of waste licensing under the Waste Management Act 1996 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. No hazardous wastes, liquid wastes, or animal wastes shall be accepted at the facility.
- 1.5. Only those waste categories and quantities listed in *Schedule G: Waste Acceptance* of this licence, shall be accepted at the facility.
- 1.6. Waste Acceptance Hours and Hours of Operation
 - 1.6.1. Waste shall only be accepted at the facility between the hours of 8.00 a.m. to 6.00 p.m. Monday to Friday inclusive and 8.00 a.m. to 2.00 p.m. on Saturdays. No waste shall be accepted at the facility on Sundays or on Bank Holidays.
 - 1.6.2. The facility shall only be operated during the hours of 7.00 a.m. to 8.00 p.m. Monday to Friday inclusive and 7.00 a.m. to 3.00 p.m. on Saturdays. The facility shall not be operated on Sundays or on Bank Holidays.
- 1.7. Where the Agency considers that a non-compliance with the Conditions of this licence has occurred, it may serve a notice on the licensee specifying:
 - a) that only those wastes as specified, if any, in the notice are to be accepted at the facility after the date set down in the notice;
 - b) that the licensee shall undertake the works stipulated in the notice, and/or otherwise comply with the requirements of the notice as set down therein, within the time-scale contained in the notice; and
 - c) that the licensee shall carry out any other requirement specified in the notice.

When the notice has been complied with, the licensee shall provide written confirmation that the requirements of the notice have been carried out. No waste, other than that which is stipulated in the notice, shall be accepted at the facility until written confirmation is received from the Agency that the notice is withdrawn.
- 1.8. Every plan, programme or proposal submitted to the Agency for agreement pursuant to any condition of this licence shall include a proposed timescale for its implementation. The Agency may modify or alter any such plan, programme or proposal in so far as it considers such modification or alteration to be necessary. Every plan, programme or proposal shall be carried out within the timescale fixed by the Agency but shall not be undertaken without the agreement of the Agency.

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

CONDITION 2 MANAGEMENT OF THE ACTIVITY

2.1 Facility Management

- 2.1.1 The licensee shall employ a suitably qualified and experienced facility manager who shall be designated as the person in charge. The facility manager, or a suitably qualified and experienced deputy, shall be present at all times during the operation of the facility.
- 2.1.2 Both the facility manager and deputy, and any replacement manager or deputy, shall successfully complete both the FAS waste management training programme (or equivalent agreed with the Agency) and associated on site appraisal within twelve months of appointment.
- 2.1.3 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and/or experience, as required, and shall be aware of the requirements of this licence.

2.2 Management Structure

- 2.2.1 Prior to the commencement of waste activities at this facility, the licensee shall submit written details of the management structure of the facility to the Agency. Any proposed changes in the management structure shall be submitted to the Agency. Written details of the management structure shall include the following information:
 - a) the names of all persons who are to provide the management and supervision of the waste activities authorised by the licence, in particular the name of the facility manager and any nominated deputies;
 - b) details of the responsibilities for each individual named under a) above;
 - c) details of the relevant experience, competence and qualifications held by each of the persons nominated under a) above.

2.3 Environmental Management System

- 2.3.1 The licensee shall, prior to the commencement of waste activities at this facility, submit to the Agency for its agreement a proposal for a documented Environmental Management System (EMS) for the facility. Following the agreement of the Agency, the licensee shall establish and maintain such a system. The EMS shall be updated on an annual basis with amendments being submitted to the Agency for agreement.

- 2.3.2 The EMS shall include, as a minimum, the following elements:

2.3.2.1 Schedule of Environmental Objectives and Targets

The objectives should be specific and the targets measurable. The Schedule shall address a five-year period as a minimum. The Schedule shall include a time-scale for achieving the objectives and targets and shall comply with any other written guidance issued by the Agency.

2.3.2.2 Environmental Management Programme (EMP)

The EMP shall include, as a minimum, the information specified in *Schedule A: Content of the Environmental Management Programme* of this licence, and shall comply with any other written guidance issued by the Agency.

2.3.2.3 Corrective Action Procedures

The Corrective Action Procedures should detail the corrective actions to be taken should specified requirements of this licence not be fulfilled.

2.3.2.4 Awareness and Training Programme

The Awareness and Training Programme shall identify training needs for personnel whose work is related to the licensed facility.

2.4 Communications Programme

2.4.1 Prior to the commencement of waste activities at this facility, the licensee shall submit for agreement to the Agency a Communications Programme to ensure that members of the public can obtain information concerning the environmental performance of the facility at all reasonable times.

2.5 Annual Environmental Report

2.5.1 The licensee shall submit to the Agency for its agreement, within thirteen months from the date of grant of this licence, and within one month of the end of the year thereafter, an Annual Environmental Report (AER).

2.5.2 The AER shall include, as a minimum, the information specified in *Schedule B: Content of Annual Environmental Report* of this licence, and shall be prepared in accordance with any relevant written guidance 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 NOTIFICATION AND RECORD KEEPING

3.1 The licensee shall make written records of the following incidents:

- a) any nuisance caused by the activity;
- b) any emission which does not comply with the requirements of this licence;
- c) any trigger level specified in this licence which is attained or exceeded;
- d) any indication that environmental pollution has, or may have, taken place; and
- e) any emergency.

3.2 The written record shall include all aspects described in Condition 10.7(a-e).

3.3 Unless otherwise instructed in writing by the Agency, the licensee shall:

- a) notify the Agency as soon as practicable and in any case not later than 10.00 a.m. the following working day after the occurrence of any incident;
 - b) submit the written record required by this condition to the Agency as soon as practicable and in any case within five working days after the occurrence of any incident; and
 - c) in the event of any incident which relates to discharges to surface water, notify the South Western Regional Fisheries Board as soon as practicable and in any case not later than 10.00 a.m. on the following working day after such an incident.
 - d) in the event of an incident which relates to foul water tankered to the Wastewater treatment plant only which (a) does not comply with the requirements of this licence or (b) poses a threat to a Sanitary Authority sewer or to personnel working in connection with a sewer, notify the Sanitary Authority as soon as practicable and in any case not later than 10.00 a.m. on the following working day after such an incident.
- 3.4 Should any further actions be taken after the date of written notification, as a result of an incident occurring, the licensee shall forward a written report of those actions to the Agency as soon as practicable and no later than ten days after the initiation of those actions.
- 3.5 Unless otherwise agreed by the Agency, all documentation submitted to the Agency shall:
- (a) comprise one original and three copies;
 - (b) be formatted in accordance with any written instruction or guidance issued by the Agency;
 - (c) include whatever information as is specified in writing by the Agency;
 - (d) be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;
 - (e) be submitted in accordance to the relevant reporting frequencies specified by this licence; and
 - (f) in the case of results of any environmental monitoring, be accompanied by a written interpretation setting out their significance.
- 3.6 Copies of all environmental monitoring data obtained by the licensee which relates to the facility shall be forwarded to the Agency at the frequencies set out in *Schedule C: Recording and Reporting to the Agency* of this licence.
- 3.7 All documentation and records required to be made under this licence shall be retained by the licensee.
- 3.8 The licensee shall provide additional copies of any documentation and records referred to in this licence to the Agency upon written request, within the time specified in writing by the Agency.
- 3.9 The licensee shall keep the following documents at the facility office referred to in Condition 4.5.
- a) the current waste licence relating to the facility;
 - b) the current EMS for the facility;
 - c) the previous year's AER for the facility; and

- d) all written procedures produced by the licensee which relate to the licensed waste activities.
- 3.10 The licensee shall maintain a written record, or a record in a format to be agreed with the Agency, for each load of waste arriving at and departing from the facility. The licensee shall record the following:
- a) the date;
 - b) the name of the carrier (including, if appropriate, the waste carrier registration details);
 - c) the vehicle registration number;
 - d) the name of the producer(s)/collector(s) of the waste as appropriate;
 - e) a description of the waste including the associated EWC codes;
 - f) the quantity of the waste accepted at or removed from the facility, recorded in tonnes;
 - g) the name of the person checking the load;
 - h) where loads or wastes are removed or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed; and
 - i) the destination of the load (facility name and waste permit/licence register number as appropriate).
- 3.11 The licensee shall maintain a written record of the type (including associated EWC codes) and quantity, recorded in tonnes, of all waste recovered at the facility.
- 3.12 A written record shall be kept of each consignment of foul water removed from the facility. The record shall include the following:
- a) the name of the carrier;
 - b) the date and time of removal of foul water from the facility;
 - c) the volume of foul water, in cubic metres, removed from the facility on each occasion;
 - d) the name and address of the Waste Water Treatment Plant to which the foul water was transported;
 - e) any incidents or spillages of foul water during its removal or transportation.
- 3.13 The licensee shall maintain a written record of all complaints relating to the operation of the activity. Each such record shall give details of the following:
- a) date and time of the complaint;
 - b) the name of the complainant;
 - c) details of the nature of the complaint;
 - d) actions taken on foot of the complaint and the results of such actions; and,
 - e) the response made to each complainant.
- 3.14 Provision shall be made for the transfer of environmental information specified by the Agency, in relation to the waste activities carried on under this licence, to the Agency's computer system within a timescale specified in writing by the Agency.

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

CONDITION 4 SITE INFRASTRUCTURE

- 4.1 The licensee shall establish all infrastructure referred to in this licence prior to the commencement of the licensed waste activities or as instructed by the Agency.
- 4.2 Facility Notice Board
- 4.2.1 The licensee shall provide and maintain a Facility Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the board shall be 1200 mm by 750 mm.
- 4.2.2 The board shall clearly show:
- a) the name and telephone number of the facility;
 - b) the normal hours of opening;
 - c) the name, address and telephone number of the licence holder;
 - d) an emergency out of hours contact telephone number;
 - e) the licence reference number; and
 - f) where and when environmental monitoring information relating to the facility can be obtained.
- 4.3 Site Security
- 4.3.1 Security gates shall be installed and maintained at the entrances to the facility and a security wall shall be provided around the perimeter of the facility to a minimum height of 3 m. In addition and prior to the commencement of waste activities at this facility, the licensee shall install and provide a CCTV monitoring system at the facility and at the entrance to the industrial estate.
- 4.3.2 The licensee shall remedy any defect in the gates and/or fencing as follows:
- a) a temporary repair shall be made by the end of the working day; and,
 - b) a repair to the standard of the original gates and/or fencing shall be undertaken within three working days or as otherwise agreed with the Agency.
- 4.3.3 Gates shall be locked shut when the facility is unsupervised.
- 4.4 Site Roads and Hardstanding
- 4.4.1 Effective site roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.
- 4.4.2 The licensee shall provide, and maintain an impermeable hardstanding surface in the areas of the facility shown on Figure 4.10.1 (Revision A) entitled 'Ahern Industrial Services Ltd., Landscaping Plan'. In addition, the floor of the buildings and hardstanding areas at the facility shall be concreted and constructed to British Standard 8110.
- 4.5 The licensee shall provide and maintain an office on the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.

- 4.6 The licensee shall provide and maintain a working telephone and facsimile machine at the facility.
- 4.7 The licensee shall provide separate bays within the waste transfer building for all wastes for recovery.
- 4.8 Waste Inspection/Quarantine
- 4.8.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained at the facility.
- 4.8.2 The licensee shall ensure that these areas shall be constructed and maintained in a manner suitable and be of a size appropriate for the inspection of waste and subsequent quarantine if required. The waste inspection area and the waste quarantine area shall be suitably and clearly segregated from each other.
- 4.9 The licensee shall provide and maintain 2 No. weighbridges at the facility for the weighing of all waste vehicles entering and exiting the facility.
- 4.10 The licensee shall provide and maintain a wheelwash and vehicle cleaning facilities at the facility.
- 4.11 Waste Handling, Ventilation and Processing Plant
- 4.11.1 Items of plant deemed critical to the efficient and adequate processing of waste at the facility (including *inter alia* waste loading vehicles and ejector trailers) shall be provided on the following basis:
- 100% duty capacity;
 - 50% standby capacity available on a routine basis;
 - provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment.
- 4.11.2 Prior to the commencement of waste activities at this facility, the licensee shall provide a report for the agreement of the Agency detailing the duty and standby capacity in tonnes per day of all waste handling and processing equipment to be used at the facility. These capacities shall be based on the licensed waste intake, *as per Schedule G: Waste Acceptance* of this licence.
- 4.11.3 The quantity of waste to be accepted at the facility on a daily basis shall not exceed the duty capacity of the equipment at the facility. Any exceedance of this intake shall be treated as an incident.
- 4.11.4 The updated schedule of duty and standby plant shall be agreed with the Agency and reported in the Annual Environmental Report.
- 4.12 Storage
- 4.12.1 All tank, drum and fuel storage areas shall be rendered impervious to the materials stored therein. In addition, tank, drum and fuel storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:
- a) 110% of the capacity of the largest tank or drum within the bunded area; or
 - b) 25% of the total volume of substance which could be stored within the bunded area.

- 4.12.2 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 4.12.3 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 4.12.4 The integrity and water tightness of all the bunds, tanks and containers and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee and shall be reported to the Agency following their installation and prior to their use. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. The licensee shall also submit to the Agency for its agreement in each case a written report on the storage of fuels on site. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
- 4.13 Prior to the commencement of waste activities at the facility, all foul sewer gullies, drainage grids and manhole covers shall be painted with red squares whilst all surface water discharge gullies, drainage grids and manhole covers shall be painted with blue triangles. These colour codes shall be maintained so as to be visible at all times during facility operation. Any alterations to the drainage thereafter shall comply with this colour coding scheme within one week of such alterations.
- 4.14 The drainage system, bunds, silt traps and oil separators 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. A written record shall be kept of the inspections, desludging, cleaning, disposal of associated waste products, maintenance and performance of the interceptors, bunds and drains.
- 4.15 Silt Traps and Oil Separators/Interceptors
- 4.15.1 The licensee shall install and maintain silt traps and oil interceptors at the facility to ensure that all surface water discharges (with the exception of rainwater draining to the soakpit at northern end of facility) from the facility pass through a silt trap and oil interceptor prior to discharge. The interceptors shall be full Class I interceptors and shall be in accordance with European Standard prEN 858 (installations for the separation of light liquids).
- 4.16 All foul water shall drain to the underground storage tanks prior to tankering off-site. The tanks shall be fitted with high liquid level alarms prior to the commencement of waste activities at the facility.
- 4.17 All skips shall be cleaned prior to their storage in the area designated 'Proposed skip parking area' on Drawing No. A6144-COO2-C entitled 'Site Drainage Layout'.
- 4.18 The existing septic tank system at the facility shall be removed and decommissioned prior to the commencement of waste activities at the facility.
- 4.19 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 4.20 Specified Engineering Works
- 4.20.1 The licensee shall submit written proposals for all Specified Engineering Works, as defined in *Schedule D: Specified Engineering Works* of this licence, to the Agency for its agreement at least two weeks prior to the intended date of commencement of any such works. No such works shall be carried out without the prior agreement of the Agency.
- 4.20.2 All specified engineering works shall be supervised by a competent person(s) and that person, or persons, shall be present at all times during which relevant works are being undertaken.

4.20.3 Following the completion of all specified engineering works, the licensee shall complete a construction quality assurance validation. The validation report shall be made available to the Agency on request. The report shall include the following information;

- a) a description of the works;
- b) as-built drawings of the works;
- c) records and results of all tests carried out (including failures);
- d) where relevant, a drawing and sections showing the location of all samples and tests carried out;
- e) where relevant, daily records sheets/diary;
- f) name(s) of contractor(s)/individual(s) responsible for undertaking the engineering works;
- g) name(s) of individual(s) responsible for supervision of works and for quality assurance validation of works;
- h) records of any problems and the remedial works carried out; and
- i) any other information requested in writing by the Agency.

4.21 Landscape

4.21.1 The existing hedgerow network along the western boundary shall be retained by the licensee and the security wall referred to in Condition 4.3.1 shall be provided inside the existing boundary hedgerow. Notwithstanding this and prior to the date of commencement of the waste activities at the facility, the licensee shall submit to the Agency a revised landscaping programme (based on the plan submitted as part of the information received by the Agency on 10/08/00) to include details on (but not limited to):

- a) the time-frame for landscaping works in relation to site development;
- b) species composition and the suitability of the hedge/tree mix for the area;
- c) total area(s) to be planted;
- d) planting method and fertiliser requirement;
- e) tree protection; and
- f) post planting management.

4.22 The integrity and water tightness of all underground pipes and tanks and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee and shall be reported to the Agency following their installation and prior to their use. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.

4.23 The licensee shall provide and install a holding tank for the purposes of storing water in the event of a fire at the facility. The capacity of this tank shall meet the requirements of the Chief Fire Officer of Cork County Council and also as agreed under Condition 10.5.

Reason: <i>To provide for the protection of the environment.</i>

CONDITION 5 WASTE ACCEPTANCE AND HANDLING

5.1. Waste Acceptance Procedures

- 5.1.1. Prior to the commencement of waste activities at this facility, the licensee shall establish and maintain detailed written procedures for the acceptance and handling of wastes.
- 5.1.2. Waste arriving at the facility shall be inspected at the point of entry to the facility and subject to this inspection, weighed, documented and directed to the Waste Transfer Building. Each load of waste arriving at the Waste Transfer Building shall be inspected upon tipping within this building. Only after such inspections shall the waste be processed for disposal or recovery.
- 5.1.3. All suspect materials identified by the visual inspection of the waste shall be diverted to the Waste Quarantine Area, or other designated area as agreed in advance by the Agency, for further examination and classification. Materials other than those permitted by this licence shall be submitted to an alternative appropriate facility.

5.2. A record of all inspections of incoming waste loads shall be maintained.

5.3. Waste shall only be accepted at the facility from known customers or new customers subject to initial waste profiling and waste characterisation off-site. The written records of this off-site waste profiling and characterisation shall be retained by the licensee for all active customers and for a two year period following termination of licensee/customer agreements. There shall be no casual public access to the facility.

5.4. All wastes removed off-site for recovery, reuse or disposal shall only be conveyed to facilities as agreed in advance with the Agency. All wastes removed off-site for recovery or disposal shall be transported from the facility to the consignee in a manner which will not adversely affect the environment.

5.5. All containers accepted at the facility shall be whole and sound. Any leaking or otherwise ruptured containers shall immediately be overdrummed or the contents transferred to a sound container in a manner which will not adversely affect the environment. Any spillages should be cleaned up so as not to adversely affect the environment or the performance of the oil interceptor.

5.6. The licensee shall, as a minimum, recover 25% of all waste accepted at the facility.

5.7. Notwithstanding Condition 5.6, the licensee shall, within six months of date of grant of this licence, submit proposals for increasing the separation and recovery of appropriate components of the waste being accepted at the facility to the Agency for its agreement. The licensee shall aim to achieve the targets set out in "Waste Management, Changing Our Ways" (Department of the Environment and Local Government, 1998).

5.8. Storage/Designated Areas

- 5.8.1. The floor of the waste transfer building (other than the storage bays for recovered wastes) shall be washed down and cleared of all waste at the end of the working day. The floor of the storage bays for recovered wastes shall be washed down and cleaned on each occasion such bays are emptied.

5.9. Scavenging shall not be permitted at the facility.

Reason: *To provide for the acceptance and management of wastes authorised under this waste licence.*

CONDITION 6 ENVIRONMENTAL NUISANCES

- 6.1. All waste for disposal stored overnight at the facility shall be stored in suitably covered and enclosed containers within the Waste Transfer Building, and shall be removed from the facility within forty eight hours of its arrival at the facility except at Bank Holiday weekends. At Bank Holiday weekends, waste shall be removed from site within seventy two hours of its arrival on site.
- 6.2. All processing of wastes shall take place indoors within the Waste Transfer building.
- 6.3. No waste shall be stored external to the Waste Transfer building.
- 6.4. The licensee shall, at a minimum of one-week intervals, inspect the facility and its immediate surrounds for nuisances caused by vermin, birds, flies, mud, dust and odours. Written records shall be made of all inspections and any actions taken as a result of these inspections.
- 6.5. The road network in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay.
- 6.6. Litter Control
 - 6.6.1. All loose litter accumulated within the facility and its environs shall be removed and appropriately disposed of on a daily basis.
- 6.7. Any waste placed on or in the vicinity of the facility, other than in accordance with the requirements of this licence, shall be removed by the licensee immediately and in any event by 10.00 a.m. of the next working day, after such waste is discovered. Such waste shall be disposed of at an appropriate facility.
- 6.8. The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered, fully enclosed and adequately secured to prevent spillage.
- 6.9. Dust Control
 - 6.9.1. In dry weather, facility roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
 - 6.9.2. Prior to the date of commencement of the waste activities at the facility the licensee shall install and provide adequate measures for the control of odours and dust emissions, including fugitive dust emissions, from the facility. Such measures shall, at a minimum, include the following:
 - (i) Dust curtains shall be maintained on the entry/exit points from the waste transfer building; all other doors in this building shall be kept closed where possible.
 - (ii) Installation and maintenance of integrity and negative pressure throughout the building to ensure no significant escape of odours or dust.
 - (iii) Installation of an odour management system.

- (iv) Provision of 100% duty capacity and 50% stand by capacity, back ups and spares must be provided for the air handling, ventilation and abatement plant.
- 6.10. The licensee shall ensure that vermin, birds, flies, mud, dust and odours do not give rise to nuisance at the facility or the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution.
- 6.11. Prior to the date of commencement of the waste activities at the facility, the licensee shall implement a programme for the control and eradication of vermin and fly infestations at the facility. This programme should include, as a minimum, details on the rodenticide(s) and insecticide(s) to be used, operator training, mode and frequency of application and measures to contain sprays within the facility boundary.

Reason: To provide for the control of nuisance.

CONDITION 7 EMISSIONS AND ENVIRONMENTAL IMPACTS

- 7.1. No specified emission from the facility shall exceed the emission limit values set out in *Schedule F: Emission Limits* of this licence. There shall be no other emissions of environmental significance.
- 7.2. All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer. Written records of the calibrations and maintenance shall be made and kept by the licensee.
- 7.3. The licensee shall ensure that the waste activities shall be carried out in a manner such that emissions do not result in significant impairment of, or significant interference with the environment beyond the facility boundary.
- 7.4. There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at the noise sensitive locations.
- 7.5. Emissions to Surface Water
 - 7.5.1. No substance shall be discharged in a manner, or at a concentration which, following initial dilution causes tainting of fish or shellfish.
 - 7.5.2. There shall be no visible oil in the discharge.
- 7.6. There shall be no direct emissions to groundwater.
- 7.7. Disposal of Foul Water/Foul Water Tankered to Wastewater Treatment lant
 - 7.7.1. Any foul water removed from the facility shall be transported to Carrigtwohill wastewater treatment plant and disposed of there unless otherwise agreed in advance by the Agency. Disposal procedures for the foul water shall be in accordance with any written requirements of the Sanitary Authority.
 - 7.7.2. Unless otherwise agreed in advance with the Agency and the Sanitary Authority, the emission limit values specified in Schedule F.4 of this licence shall apply for leachate tankered to the wastewater treatment plant. There shall be no other discharge or emission of environmental significance.

- 7.7.3. Monitoring and analyses of foul water tankered to the wastewater treatment plant shall be carried out as specified in Schedule E.5 of this licence.
- 7.7.4. No substance shall be present in such concentrations as would constitute a danger to sewer maintenance personnel working in the sewerage system, or as would be damaging to the fabric of the sewer, or as would interfere with the biological functioning of a downstream wastewater treatment works.
- 7.7.5. The licensee shall permit authorised persons of the Agency and the Sanitary Authority to inspect, examine and test, at all reasonable times, any works and apparatus installed, in connection with the discharge or emission, and to take samples of the discharge or emission.
- 7.7.6. No discharge or emission to sewer shall take place which gives rise to any reaction within the sewer or to the liberation of by-products which may be of environmental significance.
- 7.7.7. The licensee shall ensure that the discharge shall not contain dissolved methane, petroleum spirits or organic solvents (including chlorinated organic solvents), at concentrations which would give rise to flammable or explosive vapours in the sewer.
- 7.7.8. Non-trade effluent wastewater (e.g. firewater, accidental spillage) which occurs at the facility shall not be discharged to the sewer without the prior authorisation of the Sanitary Authority.
- 7.7.9. The licensee shall submit monitoring results to the Sanitary Authority on a quarterly basis.
- 7.7.10. Grit removal measures shall be incorporated in the drainage from waste transfer building, wheelwash, truck wash, ramp, weighbridges, ejector trailer parking area and underground holding tank.
- 7.8. Emission limit values for foul water tankered to the wastewater treatment plant in this licence shall be interpreted in the following way:-
 - 7.8.1. Non-Continuous monitoring
 - 7.8.1.1. No flow value shall exceed the specified limit.
 - 7.8.1.2. No pH value shall deviate from the specified range.
 - 7.8.1.3. For parameters other than pH and flow, no grab sample or daily mean concentration sample shall exceed the emission limit value.

Reason: *To control emissions from the facility and provide for the protection of the environment.*

CONDITION 8 RESTORATION AND AFTERCARE

- 8.1. A proposal for a Decommissioning and Aftercare Plan for the facility shall be submitted to the Agency within six months of the date of grant of the licence. The licensee shall update these schemes when required by the Agency.

Reason: *To provide for decommissioning of the facility and aftercare of the site on which the facility is located.*

CONDITION 9 ENVIRONMENTAL MONITORING

- 9.1. The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule E: Monitoring* of this licence and as specified in the Conditions of this licence.
- 9.2. Prior to commencement of waste activities at the facility, the licensee shall submit to the Agency for its agreement, a drawing detailing monitoring points for noise, surface water and emission(s) to sewer.
- 9.3. Foul Water Monitoring
 - 9.3.1. The monitoring point(s) for the representative sampling of the foul water tankered to the wastewater treatment plant must have the prior agreement of the Agency.
- 9.4. Surface Water Monitoring
 - 9.4.1. Prior to commencement of waste activities at this facility, the licensee shall provide, install and maintain, a monitoring point(s) for the representative sampling of the final surface water discharges from the facility. A shut-off valve shall be incorporated in the design to stop this discharge if so required.
- 9.5. Dust Monitoring
 - 9.5.1. The first dust monitoring shall be undertaken within three months of the commencement of waste activities at the facility.
- 9.6. Noise Monitoring
 - 9.6.1. The first noise monitoring shall be undertaken within three months of the commencement of waste activities at the facility.
 - 9.6.2. Monitoring shall be carried out during day and night time periods and shall include a traffic count at the entrance to the facility.
- 9.7. The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and off-site points as required by the Agency.
- 9.8. The licensee shall maintain all sampling and monitoring points, and clearly label and name all sampling and monitoring locations, so that they may be used for representative sampling and monitoring.
- 9.9. Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturer's instructions (if any) so that all monitoring results accurately reflect any emission or discharge or environmental parameter.
- 9.10. The licensee shall amend the frequency, locations, methods and scope of monitoring, sampling, analyses and investigations only upon the written instruction of the Agency and shall provide such information concerning such amendments as may be requested in writing by the Agency. Such alterations shall be carried out within any timescale nominated by the Agency.
- 9.11. Prior to the commencement of waste activities at this facility, the following information shall be submitted to the Agency for its agreement: the names, qualifications and a summary of relevant experience of all persons that will carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results

of such sampling and monitoring. Any proposed changes to the above shall be submitted in writing to the Agency for its agreement.

- 9.12. 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.
- 9.13. 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.
- 9.14. Unless otherwise specified by this licence or agreed by the Agency, all environmental monitoring shall commence no later than two months after the date of grant of this licence.

<p>Reason: <i>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>

CONDITION 10 CONTINGENCY ARRANGEMENTS

- 10.1. The licensee shall, at least three months prior to the commencement of waste activities, submit a written Emergency Response Procedure (ERP) to the Agency for its agreement. The ERP shall address any emergency situations which may originate on the facility and shall include provision for minimising the effects of any emergency on the environment.
- 10.2. The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility. Once used the absorbent material shall be disposed of at an appropriate facility.
- 10.3. All significant spillages occurring at the facility shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects.
- 10.4. No waste shall be burned within the boundaries of the facility. A fire at the facility shall be treated as an emergency. Immediate action shall be taken to extinguish it and the appropriate authorities notified.
- 10.5. The licensee shall carry out a risk assessment to determine the requirements at the facility for fire fighting and fire water retention facilities and shall, at least three months prior to the commencement of waste activities, submit a report, including recommendations on the risk assessment to the Agency. The Chief Fire Officer of Cork County Council shall be consulted by the licensee during this assessment.
- 10.6. In the event of a complete breakdown of equipment or any other occurrence which results in the closure of the transfer station building, any waste arriving at or already collected at the facility shall be transferred directly to appropriate landfill sites or any other appropriate facility until such time as the transfer station building is returned to a fully operational status. Such a breakdown event will be treated as an emergency and rectified as soon as possible.

- 10.7. Unless otherwise notified in writing by the Agency in the event that any monitoring, sampling or observations indicate that an incident has, or may have, taken place, the licensee shall immediately:
- a) identify the date, time and place of the incident;
 - b) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission;
 - c) isolate the source of the emission;
 - d) evaluate the environmental pollution, if any, caused by the incident;
 - e) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
 - f) provide a proposal to the Agency for its agreement within one month to:
 - (i) identify and put in place measures to avoid recurrence of the incident; and
 - (ii) identify and put in place any other appropriate remedial action.

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

CONDITION 11 CHARGES AND FINANCIAL PROVISIONS

11.1 Agency Charges

11.1.1 The licensee shall pay to the Agency an annual contribution of £9,175 (€11,650) or such sum as the Agency from time to time determines, towards the cost of monitoring the activity or otherwise in performing any functions in relation to the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996. The licensee shall in 2002 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Public Sector Average Earnings Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 2001, the licensee shall pay a pro rata amount from the date of this licence to 31st December 2001. This amount shall be paid to the Agency within one month of the date of grant of this licence.

11.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased or decreased the licensee shall contribute such sums as determined by the Agency to defraying its costs.

11.2 Financial Provision for Closure, Restoration and Aftercare

11.2.1 The licensee shall arrange for the completion of a comprehensive and fully costed Environmental Liabilities Risk Assessment for the facility which will address liabilities arising from the carrying on of the waste activities to which this licence relates. A report on this assessment shall be submitted to the Agency for its agreement within six months of the date of grant of this licence.

11.2.2 Within nine months of the date of grant of this licence, the licensee shall make a Proposal for Financial Provision to the Agency for its agreement to cover any liabilities incurred by the licensee in carrying on the waste activities to which this licence relates. Such provision shall be maintained by the licensee unless otherwise agreed by the Agency.

11.2.3 The amount of financial provision, held under Condition 11.2.2 shall be reviewed and revised as necessary, but at least annually. Any proposal for such a revision shall be submitted to the Agency for its agreement.

11.2.4 The licensee shall within two weeks of purchase, renewal or revision of the financial provision required under Condition 11.2.2, forward to the Agency written proof of such indemnity.

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

SCHEDULE A : Content of the Environmental Management Programme

Environmental Management Programme

Items specified to be contained in an Environmental Management Plan in the Landfill Operational Practices Manual published by the Agency, or otherwise as agreed with the Agency

Objectives and Targets

- Objectives and targets for improving the environmental performance of the facility shall be detailed
- Timescale for achieving the objectives and targets listed in the Schedule of Objectives and Targets
- Designation of Responsibility for Achieving Targets and Objectives

Other items specified by the Agency

SCHEDULE B : Content of the Annual Environmental Report

Annual Environmental Report Content

Reporting Period.

Waste activities carried out at the facility.

Quantity and Composition of waste recovered, received and disposed of during the reporting period and each previous year (relevant EWC codes to be used).

Summary report on emissions (Certified results/data sheets to be attached as Appendices).

Summary of results and interpretations of environmental monitoring, including a location plan of all monitoring locations along with their respective 12 digit grid references.

Resource and energy consumption summary.

Development / Infrastructural works, in place and planned, to process waste quantities projected for the following year (including plant operating capacity, provision of adequate standby capacity and provision of contingency, backup and spares in the case of breakdown).

Schedule of Environmental Objectives and Targets for the forthcoming year.

Report on the progress towards achievement of the Environmental Objectives and Targets contained in previous year's report.

Full title and a written summary of any procedures developed by the licensee in the year which relates to the facility operation.

Tank, drum, pipeline and bund testing and inspection report.

Reported Incidents and Complaints summaries.

Review of Nuisance Controls.

Reports on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information.

Volume of foul water produced and volume of foul water transported off-site.

Any other items specified by the Agency.

SCHEDULE C : Recording and Reporting to the Agency

Table C.1 Recurring Reports

Report	Reporting Frequency <small>Note1</small>	Report Submission Date
Environmental Management System	Annually	Prior to commencement of waste activities and annually thereafter as part of the AER.
Annual Environment Report (AER)	Annually	Thirteen months from the date of grant of licence and one month after the end of each year thereafter.
Record of incidents	As they occur	Within five days of the incident.
Specified Engineering Works reports	As they arise	Prior to the works commencing.
Bund, tank, container, underground pipe and tank integrity assessment	Every three years	Upon completion of initial testing and one month after end of the three year period being reported on.
Monitoring of emissions to surface water	Quarterly	Ten days after end of the quarter being reported on.
Noise Monitoring	Annually	One month after the completion of the monitoring.
Dust Monitoring	Three times a year	One month after the completion of the monitoring.
Groundwater monitoring	Bi-annually	Ten days after end of the period being reported on.
Any other monitoring	As they occur	Within ten days of obtaining results.

Note 1: Unless altered at the request of the Agency

SCHEDULE D : Specified Engineering Works

Specified Engineering Works
<p>Installation of silt traps and oil interceptors</p> <p>Installation of dust/odour system</p> <p>Installation of waste handling, processing, recycling/recovery infrastructure and installation of increased waste processing capacity.</p> <p>Installation of foul water drainage network, storage tanks and associated infrastructure</p> <p>Installation of surface water and groundwater control and/or monitoring systems.</p> <p>Any other works notified by the Agency.</p>

SCHEDULE E : Monitoring

Monitoring to be carried out as specified below.

E.1: Dust

Dust monitoring shall be carried out at dust monitoring locations D1, D2, D3 and D4 as specified in Figure J.1 entitled 'Ahern Industrial Services, Monitoring Locations' of the waste licence application.

Table E.1.1 Dust Monitoring Frequency and Technique

Parameter (mg/m²/day)	Monitoring Frequency	Analysis Method/Technique
Dust	Three times a year ^{Note 2}	Standard Method ^{Note 1}

Note 1: Standard method VDI2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute). A modification (not included in the standard) which 2 methoxy ethanol may be employed to eliminate interference due to algae growth in the gauge.

Note 2: Twice during the period May to September, or as otherwise specified in writing by the Agency.

E.2: Noise

Noise monitoring shall be carried out at noise monitoring locations N1, N2, N3, N4, N5, N6, N7, N8 and N9 as specified in Figure 2.3.1 (Revised) entitled 'Ahern Industrial Services, Location of Noise Measurement' which was received by the Agency on 10/08/00.

Table E.2.1 Noise Monitoring Frequency and Technique

Parameter	Monitoring Frequency	Analysis Method/Technique
L(A)_{Eq} [30 minutes]	Annual	Standard ^{Note 1}
L(A)₁₀ [30 minutes]	Annual	Standard ^{Note 1}
L(A)₉₀ [30 minutes]	Annual	Standard ^{Note 1}
Frequency Analysis(1/3 Octave band analysis)	Annual	Standard ^{Note 1}

Note 1: "International Standards Organisation. ISO 1996. Acoustics - description and Measurement of Environmental noise. Parts 1, 2 and 3."

E.3: Surface Water

Surface Water monitoring shall be carried out at the following locations: (i) final discharge(s) from the facility and (ii) receiving stream (upstream and downstream of discharge) to which the surface water from the facility discharges. The locations of the monitoring stations shall have the prior agreement of the Agency.

Table E.3.1 Surface Water Monitoring Parameters and Frequencies

Parameter	Monitoring Frequency	Analysis Method/Technique
Visual Inspection (Odour/oil presence)	Weekly	Not applicable
TOC ^{Note 2}	Continuous	On-line TOC meter with recorder
pH	Quarterly	Electrometry
Temperature	Quarterly	Thermometry
Electrical Conductivity	Quarterly	Electrometry
COD	Quarterly	Standard Methods ^{Note 1}
BOD	Quarterly	Standard Methods ^{Note 1}
Ammoniacal Nitrogen	Quarterly	Standard Methods ^{Note 1}
Dissolved Oxygen	Quarterly	Electrometry
Chloride	Quarterly	Standard Methods ^{Note 1}
Total Suspended Solids	Quarterly	Standard Methods ^{Note 1}
Mineral Oils	Quarterly	Standard Methods ^{Note 1}
Oils, Fats & Grease	Quarterly	Standard Methods ^{Note 1}
Cadmium	Annually	Standard Methods ^{Note 1}
Calcium	Annually	Standard Methods ^{Note 1}
Copper	Annually	Standard Methods ^{Note 1}
Chromium	Annually	Standard Methods ^{Note 1}
Iron	Annually	Standard Methods ^{Note 1}
Lead	Annually	Standard Methods ^{Note 1}
Magnesium	Annually	Standard Methods ^{Note 1}
Manganese	Annually	Standard Methods ^{Note 1}
Mercury	Annually	Standard Methods ^{Note 1}
Nickel	Annually	Standard Methods ^{Note 1}
Potassium	Annually	Standard Methods ^{Note 1}
Sodium	Annually	Standard Methods ^{Note 1}
Sulphate	Annually	Standard Methods ^{Note 1}
Zinc	Annually	Standard Methods ^{Note 1}
Total Oxidised Nitrogen	Annually	Standard Methods ^{Note 1}
Total Organic Carbon	Annually	Standard Methods ^{Note 1}
Total Alkalinity	Annually	Standard Methods ^{Note 1}
Coliforms (total, faecal)	Annually	Membrane filtration or MPN using referenced procedures

Note 1: "Standards 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., American Public Health Association, 1015 Fifteenth Street, Washington DC 20005, USA.

Note 2: Applicable to final surface water discharge from the facility.

E.4: Groundwater

Groundwater monitoring shall be carried out at groundwater monitoring locations W1 and W2 as specified in Figure J.1 entitled 'Ahern Industrial Services, Monitoring Locations' of the waste licence application.

Table E.4.1 Groundwater Monitoring Parameters and Frequencies

Parameter	Monitoring Frequency	Analysis Method/Technique
Groundwater levels	Bi-annually	Not applicable
pH	Bi-annually	Electrometry
Temperature	Bi-annually	Thermometry
Electrical Conductivity	Bi-annually	Electrometry
Residue on evaporation	Bi-annually	Standard Methods ^{Note 1}
Ammoniacal Nitrogen	Bi-annually	Standard Methods ^{Note 1}
Dissolved Oxygen	Bi-annually	Electrometry
Chloride	Bi-annually	Standard Methods ^{Note 1}
Cadmium	Bi-annually	Standard Methods ^{Note 1}
Calcium	Bi-annually	Standard Methods ^{Note 1}
Chromium	Bi-annually	Standard Methods ^{Note 1}
Copper	Bi-annually	Standard Methods ^{Note 1}
Cyanide	Bi-annually	Standard Methods ^{Note 1}
Iron	Bi-annually	Standard Methods ^{Note 1}
Lead	Bi-annually	Standard Methods ^{Note 1}
Magnesium	Bi-annually	Standard Methods ^{Note 1}
Manganese	Bi-annually	Standard Methods ^{Note 1}
Mercury	Bi-annually	Standard Methods ^{Note 1}
Nickel	Bi-annually	Standard Methods ^{Note 1}
Potassium	Bi-annually	Standard Methods ^{Note 1}
Sodium	Bi-annually	Standard Methods ^{Note 1}
Sulphate	Bi-annually	Standard Methods ^{Note 1}
Zinc	Bi-annually	Standard Methods ^{Note 1}
Total Alkalinity	Bi-annually	Standard Methods ^{Note 1}
Total Oxidised Nitrogen	Bi-annually	Standard Methods ^{Note 1}
Total Organic Carbon	Bi-annually	Standard Methods ^{Note 1}
Arsenic	Annually	Standard Methods ^{Note 1}
Barium	Annually	Standard Methods ^{Note 1}
Boron	Annually	Standard Methods ^{Note 1}
Fluoride	Annually	Standard Methods ^{Note 1}
Phenol	Annually	Standard Methods ^{Note 1}
Phosphorous	Annually	Standard Methods ^{Note 1}
Selenium	Annually	Standard Methods ^{Note 1}
Silver	Annually	Standard Methods ^{Note 1}
Hydrocarbons	Note 2	Standard Methods ^{Note 1}

Note 1: "Standards 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., American Public Health Association, 1015 Fifteenth Street, Washington DC 20005, USA.

Note 2: Once off and thereafter as required by the Agency.

E.5: Monitoring of Foul Water Tankered to Wastewater treatment Plant

Monitoring of Foul water tankered off-site shall take place as agreed with the Agency under Condition 9.3.

Table E.5.1 Monitoring of Foul water tankered to Wastewater Treatment Plant- Parameters /Frequency

Parameter	Monitoring Frequency	Analysis Method/Technique ^{Note}
		1
Flow	Each Load	Flow meter / recorder
Biochemical Oxygen Demand	One load in four (Grab)	Standard Method ^{Note 2}
Chemical Oxygen Demand	One load in four (Grab)	Standard Method ^{Note 2}
Ammoniacal nitrogen	One load in four (Grab)	Standard Method ^{Note 2}
Suspended Solids	One load in four (Grab)	Gravimetric
Sulphates	One load in four (Grab)	Standard Method ^{Note 2}
pH	One load in four (Grab)	pH meter/recorder
Temperature	One load in four (Grab)	Thermometry
Mineral Oils	One load in four (Grab)	Standard Method ^{Note 2}

Note 1: Or an equivalent method acceptable to the Agency.

Note 2: "Standards 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".

SCHEDULE F : Emission Limits

F.1 Dust Deposition Limits: (Measured at the monitoring points indicated in Section E.1 above).

Level (mg/m ² /day) ^{Note 1}
350

Note 1: 30 day composite sample with the results expressed as mg/m² /day.

F.2 Noise Emissions: (Measured at the monitoring points indicated in Section E.2 above).

Day dB(A) L _{Aeq} (30 minutes)	Night dB(A) L _{Aeq} (30 minutes)
55	45

F.3 Emissions to Surface Water (Measured at the final surface water discharge point(s) from the facility as agreed under Section E.3 above)

Parameter	Emission Limit Value
Biological Oxygen Demand	20 mg/l
Suspended Solids	30 mg/l
Fats, Oils, Grease	10 mg/l
pH	6 –9

F.4 Emission Limits for Foul Water Being Tankered to Wastewater Treatment Plant:

Emission Point Reference No: To be agreed with the Agency
 Emission To: Batch Discharge to Carrigtwohill Sewage Treatment Plant
 Volume to be emitted: Maximum in any one week: 100 m³
 Maximum in any one day: 20 m³
 Maximum rate per hour: 3 m³

Parameter	Emission Limit Value
pH	6 – 9
BOD	400 mg/l
COD	1,000 mg/l
Ammoniacal Nitrogen (NH ₄ -N)	100 mg/l
Suspended Solids	250 mg/l
Mineral Oils	100 mg/l

SCHEDULE G : Waste Acceptance

Table G.1 Waste Categories and Quantities

WASTE TYPE	MAXIMUM WASTE QUANTITY TO BE ACCEPTED DURING RELEVANT TIME PERIODS				
	Year 1	Year 2	Year 3	Year 4	Year 5 onwards
Household waste	610	756	915	1,074	1,159
Commercial & Industrial	49,000	60,760	73,500	86,240	93,100
Construction & Demolition	3,250	3,575	3,933	4,326	4,758
TOTAL	52,860	65,091	78,348	91,640	99,017

Sealed by the seal of the Agency on this 26th day of July, 2001.

PRESENT when the seal of the Agency was affixed hereto:

Padraic Larkin Director/Authorised Person