



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

WASTE TRANSFER STATION

PROPOSED DECISION

Waste Licence Register Number:	44-2
Applicant:	Padraig Thornton Waste Disposal Limited
Location of Facility:	Thorntons Recycling Centre, Killeen Road, Ballyfermot, Dublin 10.

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 continued operation and development of a waste transfer station and recycling facility by Pdraig Thornton Waste Disposal Limited, (PTWDL) Reg. No. 44-1. The facility is located within the Kylemore Industrial Estate, Killeen Road, Ballyfermot, Dublin 10.

The waste intake is limited to 250,000 tonnes per annum of waste (including one tonne of hazardous waste). The waste types to be accepted at the facility include domestic, commercial, industrial, and construction/demolition waste. All wastes will be processed within waste transfer buildings, the recyclable materials (e.g. paper, wood, plastic and inert materials) removed, and the residual waste sent to landfill. This licence allows the operation of five new recycling operations at the facility; the destruction of containers of out of date beverages, the conversion of waste vegetable oil into biofuel, additional sorting of dry recyclables (cardboard, newspapers/magazines aluminium and steel cans), scrap metal recycling and the operation of a civic waste facility for waste electrical & electronic goods.

The existing facility consists of four buildings dedicated to waste handling, four administration buildings, two maintenance garages, two weighbridges, a weighbridge kiosk, one vehicle wash bay and fuel storage area. The licence allows for the use of an extension to the facility area, a second facility entrance/exit on Kylemore Park North, and the use of five new buildings (refer to Appendix 1 Drawing No. 500-2002-326 Site Services & Layout Plan).

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 Pdraig Thornton Waste Disposal Limited is required to operate and manage this facility.

Table of Contents

	Page No.
REASONS FOR THE DECISION	1
<i>PART I ACTIVITIES LICENSED</i>	1
INTERPRETATION	3
<i>PART II CONDITIONS</i>	6
CONDITION 1 SCOPE OF THE LICENCE	6
CONDITION 2 MANAGEMENT OF THE FACILITY	7
CONDITION 3 FACILITY INFRASTRUCTURE	8
CONDITION 4 RESTORATION AND AFTERCARE	13
CONDITION 5 FACILITY OPERATIONS	13
CONDITION 6 EMISSIONS	16
CONDITION 7 NUISANCE CONTROL	17
CONDITION 8 MONITORING	19
CONDITION 9 CONTINGENCY ARRANGEMENTS	20
CONDITION 10 RECORDS	21
CONDITION 11 REPORTS AND NOTIFICATIONS	22
CONDITION 12 CHARGES AND FINANCIAL PROVISIONS	24
SCHEDULE A : Waste Acceptance	26
SCHEDULE B : Specified Engineering Works	26
SCHEDULE C : Emission Limits	26
SCHEDULE D : Monitoring	28
SCHEDULE E : Recording and Reporting to the Agency	30
SCHEDULE F : Content of the Annual Environmental Report	31

DECISION & REASONS FOR THE DECISION

Reasons for the Decision

The Environmental Protection Agency (the Agency) is satisfied, on the basis of the information available, that the waste activity, or activities, licensed hereunder will comply with the requirements of Section 40(4) of the Waste Management Act, 1996.

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

Part I Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Act, 1996, the Agency proposes, under Section 40(1) of the said Act to grant this Waste Licence to Pdraig Thornton Waste Disposal Limited to carry on the waste activities listed below at Thorntons Recycling Centre, Killeen Road, Ballyfermot, Dublin 10, subject to conditions, with the reasons therefore 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 the bulking up of domestic, commercial and industrial wastes at the transfer station prior to transfer to landfills and the sorting of construction and demolition wastes at the facility.
Class 12.	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule. This activity is limited to baling and compacting of municipal waste and shredding of construction and demolition 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 was produced. This activity is limited to the temporary storage of waste prior to bulking and transfer to an appropriate facility.

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 cardboard & wood recycling.
Class 3.	Recycling or reclamation of metals and metal compounds: This activity is limited to steel, metal and beverage container recycling.
Class 4.	Recycling or reclamation of other inorganic materials: This activity is limited to recycling construction /demolition waste and plastics.
Class 8.	Oil re-refining or other re-uses of oil:

	<p>This activity is limited to refining of waste vegetable oil to bio-diesel fuel for use by Padraig Thornton Waste Disposal Limited vehicles.</p>
<p>Class 9.</p>	<p>Use of any waste principally as a fuel or other means to generate energy:</p>
	<p>This activity is limited to the use of refined waste vegetable oil as bio-diesel.</p>
<p>Class 11.</p>	<p>Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule:</p>
	<p>This activity is limited to the use of refined waste vegetable oil as bio-diesel.</p>
<p>Class 13.</p>	<p>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:</p>
	<p>This activity is limited to the temporary storage of waste prior to recycling or reclamation.</p>

INTERPRETATION

All terms in this licence should be interpreted in accordance with the definitions in the Waste Management Act, (the Act), unless otherwise defined in this section.

Adequate lighting	20 lux measured at ground level.
Agreement	Agreement in writing.
Annually	At approximately twelve monthly intervals.
Application	The application by the licensee for this waste licence.
Appropriate facility	A waste management facility, duly authorised under relevant law and technically suitable.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of the waste licence application.
BAT	Best Available Techniques as defined in Article 2(11) of Council Directive 96/61/EC concerning integrated pollution prevention and control.
Bi-annually	All or part of a period of six consecutive months.
Biodegradable waste	Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food, garden waste, sewage sludge, paper and paperboard.
Condition	A condition of this licence.
Consignment Note	All movements of hazardous waste within Ireland must be accompanied by a “C1” consignment note issued by a local authority under the Waste Management (Movement of Hazardous Waste) Regulations (SI No. 147 of 1998). Transfrontier shipment notification and movement/tracking form numbers are required for all exports of waste from, into or through the state under the Waste Management (Transfrontier Shipment of Waste) Regulations (SI No. 149 of 1998).
Construction and Demolition Waste	All wastes which arise from construction, renovation and demolition activities.
Containment boom	A boom which can contain spillages and prevent them from entering drains or watercourses.
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.
Emergency	Those occurrences defined in Condition 9.
Emission Limits	Those limits, including concentration limits and deposition levels established in <i>Schedule C: Emission Limits</i> of this licence.

European Waste Catalogue (EWC)	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.
Green waste	Waste wood (excluding timber), plant matter such as grass cuttings, and other vegetation.
Hours of Operation	The hours during which the facility is authorised to be operational. The hours of operation of a facility are usually longer than the hours of waste acceptance to facilitate preparatory and completion works, such as the removal and laying of daily cover. Different activities within the facility, such as the civic waste facility, may have different hours of waste acceptance.
Hours of Waste Acceptance	The hours during which the facility is authorised to accept waste. Different activities within the facility, such as the civic waste facility, may have different hours of waste acceptance.
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 waterand/or groundwater.
Landfill Directive	Council Directive 1999/31/EC
Licence	A Waste Licence issued in accordance with the Act.
Licensee	Padraig Thornton Waste Disposal Limited
Liquid Waste	Any waste in liquid form and containing less than 2% dry matter. Any waste tankered to the facility.
Maintain	Keep in a fit state, including such regular inspection, servicing, calibration 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	A minimum of twelve times per year, at approximately monthly intervals.
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.
Oil Separator	Device installed according to the draft European Standard prEN 858 (Installations for the separation of light liquids, e.g. oil and petrol).

Recyclable Materials	Those waste types, such as cardboard, batteries, gas cylinders, etc, which may be recycled.
Quarterly	At approximately three monthly intervals.
Sanitary Authority	Dublin City Council, Civic Offices, Wood Quay, Dublin 8.
Sample(s)	Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments.
Specified Emissions	Those emissions listed in <i>Schedule C: Emission Limits</i> of this licence.
Specified Engineering Works	Those engineering works listed in <i>Schedule B: Specified Engineering Works</i> of this licence.
Tonal Noise	As defined in International Standards Organisation “Acoustics - description and measurement of environmental noise”, Part 2, 1996.
Trigger Level	A parameter value specified in the licence, the achievement or exceedance of which requires certain actions to be taken by the licensee.
Waste	As defined in Section 4(1) of the Act.
Wastewater	Water that has been used, for washing, flushing or in a manufacturing process.
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.
EPA Working Day	Refers to the following hours; 9.00 a.m. to 5.30 p.m. Monday to Friday inclusive.

PART II CONDITIONS

CONDITION 1 SCOPE OF THE LICENCE

- 1.1. Waste activities at the facility shall be restricted to those listed and described in Part I: Activities Licensed and authorised by this licence.
- 1.2. For the purposes of this licence, the facility is the area of land outlined in red on Figure No. A.1 (Revision B) Existing & Proposed Site Plan. 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. Only those waste categories and quantities listed in *Schedule A: Waste Acceptance* of this licence shall be accepted at the facility.
- 1.5. No animal waste or sludges shall be accepted at the facility.
- 1.6. No road sweepings and gully emptyings shall be accepted at the facility unless otherwise agreed with the Agency in advance.
- 1.7. No hazardous waste shall be accepted at the facility other than at the civic waste facility, unless otherwise agreed with the Agency in advance.
- 1.8. Waste Acceptance Hours and Hours of Operation
 - 1.8.1. The facility may operate twenty-four hours per day and seven days per week.
 - 1.8.2. Notwithstanding Condition 1.8.1. waste shall not be accepted and the facility shall not operate on Bank Holidays.
 - 1.8.3. The trommel, and the shredders shall only operate during daytime hours.
- 1.9. The following shall constitute an incident for the purposes of this licence:
 - a) an emergency;
 - b) any emission which does not comply with the requirements of this licence;
 - c) any exceedance of the daily duty capacity of the waste handling equipment;
 - d) any trigger level specified in this licence which is attained or exceeded; and
 - e) any indication that environmental pollution has, or may have, taken place.
- 1.10. Where the Agency considers that a non-compliance with any condition of this licence has occurred, it may serve a notice on the licensee specifying:
 - 1.10.1 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;
 - 1.10.2 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

- 1.10.3 That the licensee shall carry out any other requirement specified in the notice.
- 1.10.4 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 permission is received from the Agency.
- 1.11. Every plan, programme or proposal submitted to the Agency for its 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 and shall notify the licensee in writing of any such modification or alteration. Every such 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. Every such plan, programme or proposal agreed by the Agency shall be covered by the conditions of this licence.
- 1.12 This licence is being granted in substitution for the waste licence granted to the licensee on the 3rd December 1999 (Waste Licence Register No. 44-1).

REASON: <i>To clarify the scope of this licence.</i>

CONDITION 2 MANAGEMENT OF THE FACILITY

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 nominated, suitably qualified and experienced, deputy shall be present on the facility at all times during its operation.
- 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 assessment 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 experience, as required and shall be aware of the requirements of this licence.

2.2 Management Structure

- 2.2.1 Within three months from the date of grant of this licence the licensee shall submit written details of the management structure of the facility to the Agency. Any proposed replacement in the management structure shall be notified in advance in writing 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; and details of the relevant education, training and experience held by each of the persons nominated under a) above.
 - c) details of the relevant education, training and experience held by each of the persons nominated under a) above.

2.3 Environmental Management System (EMS)

2.3.1 The licensee shall establish and maintain an EMS. Within four months from the date of the grant of this licence, the licensee shall 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 its 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 Plan (EMP)

The EMP shall include, as a minimum, the following:

- (i) methods by which the objectives and targets will be achieved in the coming year and the designation of responsibility for targets;
- (ii) any other items required by written guidance issued by the Agency.

2.3.2.3 Corrective Action Procedures

The Corrective Action Procedures shall detail the corrective actions to be taken should any of the procedures detailed in the EMS not be followed.

2.3.2.4 Awareness and Training Programme

The Awareness and Training Programme shall identify training needs, for personnel who work in or have responsibility for the licensed facility.

2.4 Communications Programme

2.4.1 The licensee shall establish and maintain a Communications Programme to ensure that members of the public can obtain information at the facility, at all reasonable times, concerning the environmental performance of the facility. This programme shall be established within four months of the date of grant of this licence.

REASON:	<i>To make provision for the proper management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment.</i>
----------------	--

CONDITION 3 FACILITY INFRASTRUCTURE

3.1 The licensee shall establish all infrastructure referred to in this licence prior to the commencement of the licensed activities or as required by the conditions of this licence.

3.2 Specified Engineering Works

- 3.2.1 The licensee shall submit written proposals for all Specified Engineering Works, as defined in *Schedule B: Specified Engineering Works* of this licence, to the Agency for its agreement at least two months 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.
- 3.2.2 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.
- 3.2.3 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) drawings and sections showing the location of all samples and tests carried out;
 - e) daily record sheets/diary;
 - f) name(s) of contractor(s)/individual(s) responsible for undertaking the specified 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 to resolve those problems; and
 - i) any other information requested in writing by the Agency.

3.3 Facility Notice Board

- 3.3.1 The licensee shall 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.
- 3.3.2 The board shall clearly show:
- a) the name and telephone number of the facility;
 - b) the normal hours of opening;
 - c) the name of the licence holder;
 - d) an emergency out of hours contact telephone number;
 - e) the licence reference number; and
 - f) where environmental information relating to the facility can be obtained.

3.4 Facility Security

- 3.4.1 The licensee shall adapt the facility security Closed Circuit Television (CCTV) system to include the extended facility boundary.
- 3.4.2 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.

3.5 Facility Roads and Hardstanding

3.5.1 Effective facility roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.

3.5.2 The licensee shall provide an impermeable concrete hardstand for areas with vehicle movement, all existing and proposed waste processing/storage areas, the vehicle washing area and the fuel storage area within six months from the date of the grant of this licence. In addition, the floor of the buildings and hardstand areas at the facility shall be concreted and constructed to British Standard 8110.

3.6 Facility Office

3.6.1 The licensee shall provide and maintain an office at the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.

3.6.2 The licensee shall maintain a working telephone and a method for electronic transfer of information at the facility.

3.7 Waste Inspection and Quarantine Areas

3.7.1 A Waste Inspection Area and a separate Waste Quarantine Area shall be provided, and maintained in building No. 3, within four months of the date of grant of this licence.

3.7.2 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 clearly identified and segregated from each other.

3.8 Weighbridge

3.8.1 The licensee shall maintain a weighbridge at each entrance/exit to and from the facility including Kylemore Park North. The weighbridges shall be maintained in such condition as to accurately measure the weight of all vehicles entering/exiting the facility.

3.9 Wheel Cleaning

3.9.1 The licensee shall provide and maintain wheelwash(s) at all entrance/exits to the facility including Kylemore Park North, within six months of the date of the grant of this licence, so that all waste vehicles exiting the facility onto the public roads pass through a wheelwash.

3.10 Waste handling, ventilation and processing plant

3.10.1 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.
- 3.10.2 The licensee, shall within three months from the date of grant of this licence, submit a report to the Agency for agreement 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 A: Waste Acceptance* of this licence.
- 3.10.3 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.
- 3.11 Tank and Drum Storage Areas – Fuel & Liquids
- 3.11.1 All liquid storage areas shall be rendered impervious to the materials stored therein.
- 3.11.2 All liquid 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.
- 3.11.3 All liquid storage containers shall be stored within bunded storage areas.
- 3.11.4 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.11.5 All inlets, outlets, vent pipes, valves and gauges must be adequately secured to prevent leakage or within a bunded area.
- 3.11.6 The integrity and water tightness of all bunds and their resistance to penetration by water or other materials stored therein shall be confirmed by the licensee and shall be reported to the Agency within three months of the date of grant of this licence. This confirmation shall be repeated at least once every three years thereafter and reported to the Agency on each occasion. A written record of all integrity tests and maintenance or remedial work arising shall be maintained by the licensee.
- 3.11.7 The bund integrity test for Building 4 shall be submitted and agreed by the Agency prior to any processing of liquid waste at the facility.
- 3.12 Silt Traps and Oil Separators/Interceptors
- 3.12.1 The licensee shall install and maintain silt traps and oil interceptors at the facility to ensure that all surface water and wastewater from the facility, pass through a silt trap and oil interceptor prior to discharge. The surface water interceptors shall be a Class I interceptor and the silt traps and interceptors shall be in accordance with European Standard prEN 858 (installations for the separation of light liquids). For sewer interceptors, ‘Class II full retention’ interceptors apply.
- 3.13 Drainage system, pipeline testing
- 3.13.1 The surface water drainage and sewer systems shall be maintained as set out in the Article 16(1) response August 2002 C.9 Surface Water and C.9.3 Foul Sewer Systems, and Drawing No. 500-2002-326 Site Services & Layout Plan Scale 1:250.
- 3.13.2 Roof run-off from Building No 1, general offices, maintenance buildings and all other buildings in the southern portion of the facility shall drain to the surface water drainage system at SW 1.

- 3.13.3 Within six months from the date of grant of this licence, all sewer gullies, drainage grids and manhole covers shall be painted with red squares whilst all surface water drainage 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, and any identification designated in this licence (e.g. SW 1, SW 2) shall be inscribed on these manholes.
- 3.13.4 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.
- 3.13.5 Within six months from the date of grant of this licence, all sewer and surface water drainage cut off valves shall be installed and labelled to indicate the purpose of the cut off valve and the open/closed positions for each valve.
- 3.13.6 A surface water cut-off valve (Co3) shall be provided downstream of the oil separator (Pi 5) within six months of the date of grant of this licence.
- 3.13.7 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.
- 3.14 Vehicle Fuelling
- 3.14.1 The designated vehicle fuelling area (Building 6) shall be rendered impervious to the materials stored therein. All drainage from the bunded vehicle fuelling area shall be diverted for collection and safe disposal.
- 3.14.2 The vehicle fuelling area shall not be used for any purpose other than fuelling of plant and vehicles associated with this facility.
- 3.15 Construction and Demolition Waste Recovery Area.
- 3.15.1 The licensee shall extend and maintain the construction and demolition waste recovery area (building 5) such that all construction and demolition waste recovery occurs indoors. This infrastructure shall at a minimum comprise the following:
- a) an impermeable concrete slab;
 - b) collection and disposal infrastructure for all run-off.
 - c) appropriate bunding to provide visual and noise screening
 - d) All stockpiles shall be adequately contained to minimise dust generation.
- 3.16 Civic Waste Facility
- 3.16.1 The following wastes may be accepted at the Civic Waste Facility; Cookers, Fridges, Freezers, Washing Machines, Tumble Dryers, Microwaves, Computers, Computer monitors, Televisions, unless otherwise agreed with the Agency.
- 3.16.2 All waste deposited in the Civic Waste Facility shall be supervised, and deposited into either a receptacle for recovery or in the case where inspection/quarantine is required, into a designated civic waste inspection/quarantine area.

- 3.16.3 The licensee shall assign and clearly label each container at the Civic Waste Facility to indicate their contents.
- 3.16.4 The storage of waste at the Civic Waste Facility shall be on a bunded impermeable concreted area. This area shall be fenced off and the access locked when not in use.
- 3.16.5 All waste refrigeration equipment accepted at the Civic Waste Facility shall comply with the following:
- a) Foodstuffs and loose material shall be removed.
 - b) The door shall be adequately secured to prevent unauthorised opening or the door seal and latch removed.
- 3.16.6 All waste electrical and electronic goods shall be removed from the Civic Waste Facility public drop off point, and loaded onto containers within 24 hours of arrival at the facility. These containers shall be appropriate, fully enclosed and adequately secured to prevent spillage, pending removal from the facility.
- 3.16.7 Prior to the acceptance of waste refrigeration equipment the licensee shall submit to the Agency for agreement, written details of the off-site facility proposed to ensure the full removal of CFC gas and the foam insulate.

3.17 Monitoring Infrastructure

- 3.17.1 Monitoring infrastructure which is damaged or proves to be unsuitable for its purpose shall be replaced within three months of it being damaged or recognised as being unsuitable.

3.18 Fire Control

- 3.18.1 Within nine months of the date of grant of this licence the licensee shall extend, and maintain a system for the detection of fire inside all new and existing buildings. A written record shall be kept of the inspections, testing and maintenance of this system.

<i>REASON:</i>	<i>To provide appropriate infrastructure for the protection of the environment.</i>
----------------	---

CONDITION 4 RESTORATION AND AFTERCARE

- 4.1. The Decommissioning and Aftercare Plan for the facility shall be carried out as detailed in section G1 and G2 of the waste licence application. This plan shall be updated when required by the Agency.

<i>REASON:</i>	<i>To provide for the restoration of the facility</i>
----------------	---

CONDITION 5 FACILITY OPERATIONS

- 5.1 All waste processing shall be carried out inside the waste transfer buildings.
- 5.2 Yard areas shall be kept free of waste.

- 5.3 All putrescible waste for disposal shall be removed from the facility within forty-eight hours of its arrival at the facility. At Bank Holiday weekends, waste shall be removed from the facility within seventy two hours of its arrival at the facility.
- 5.4 Green waste accepted at the facility shall be stored in Building 2, prior to removal off-site to a facility agreed by the Agency. Green waste shall not be shredded on-site.
- 5.5 Waste tyres accepted at the facility shall be stored in Building 2, prior to removal off-site to a facility agreed by the Agency.
- 5.6 Waste Acceptance and Characterisation Procedures
- 5.6.1 Waste Acceptance Procedures shall be carried out in accordance with Attachment E3 of the application, and the Article 13 Compliance Submission, unless otherwise provided for in the licence. The licensee shall establish and maintain detailed written procedures for the acceptance and handling of wastes.
- 5.6.2 All waste arriving at the facility, other than waste in closed containers, shall be inspected at the point of entry to the facility and subject to this inspection, weighed, documented and directed to the Waste Transfer Buildings. Waste loads in closed containers shall be inspected upon tipping at the Waste Transfer Buildings. Only after such inspections shall the waste be processed for disposal or recovery.
- 5.6.3 Any waste deemed unsuitable for processing at the facility and/or in contravention of this licence shall be immediately separated and removed from the facility at the earliest possible time. Temporary storage of such wastes shall be in a designated Waste Quarantine Area. Waste shall be stored under appropriate conditions in the quarantine area to avoid putrefaction, odour generation, the attraction of vermin and any other nuisance or objectionable condition.
- 5.6.4 The licensee shall submit to the Agency for its agreement, proposals in relation to any re-location of waste activities at the facility. The re-location of the waste activities at the facility shall not take place unless otherwise agreed with the Agency.
- 5.6.5 A record of all inspections of incoming waste loads shall be maintained.
- 5.6.6 Waste (other than waste received at the Civic Waste Facility) shall only be accepted at the facility, from customers who are holders of a waste permit under the Waste Management (Collection Permit) Regulations 2001.
- 5.6.7 All waste accepted at the facility as per condition 5.6.6 shall be subject to initial waste profiling and waste characterisation.
- 5.6.8 The licensee shall retain copies of these waste permits on-site, and written records of off-site waste profiling and characterisation, for all active customers for a two year period following termination of licensee/customer agreements.
- 5.6.9 Public access to the facility shall be restricted to the Civic Waste Facility drop-off point in yard 3 only.
- 5.7 Operational Controls
- 5.7.1 The floor of the waste transfer buildings, where putrescible waste is handled, shall be cleaned down and cleared of all waste at least once every 24 working hours, and a written record kept. The floor of the storage bays for recovered wastes shall be washed down and cleaned on each occasion such bays are emptied.

- 5.7.2 Scavenging shall not be permitted at the facility.
- 5.7.3 Gates shall be locked shut when the facility is unsupervised.
- 5.7.4 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 5.7.5 Fuels shall only be stored at appropriately banded locations on the facility.
- 5.7.6 All tanks and drums shall be labelled to clearly indicate their contents.
- 5.7.7 No smoking shall be allowed in any other area of the facility other than in the "Smoker's Shed" adjacent to building No. 6, as shown on Drawing No. 500-2002-326 Site Services & Layout Plan, Article 16(1) response October 2002.
- 5.7.8 No waste shall be burned at the facility.
- 5.8 Off-site Disposal and Recovery
 - 5.8.1 Waste sent off-site for recovery or disposal shall only be conveyed by a waste carrier agreed in advance with the Agency. Any request for such agreement of a waste carrier shall include the following;
 - (i) Copies of the waste carrier's permit(s) under the Waste Management (Collection Permit) Regulations 2001.
 - (ii) Details of the waste types it is proposed the carrier will transfer from the facility.
 - 5.8.2 All waste transferred from this facility shall be to an appropriate facility agreed in advance with the Agency. Any request for agreement of such a facility shall be forwarded to the Agency at least one month in advance of its proposed use and shall include the following;
 - (i) A copy of the waste permit or waste licence where applicable.
 - (ii) The proposed waste types and quantities.
 - (iii) Details of any limitations on waste types and quantities acceptable at the facility.
 - 5.8.3 All wastes removed off-site for recovery or disposal shall be transported from the facility to the facility agreed under Condition 5.8.2 in a manner which will not adversely affect the environment.
- 5.9 Construction and Demolition Waste Recovery
 - 5.9.1 Only Construction and Demolition waste shall be accepted and handled in Building 2 and Building 5. Wastes which are capable of being recovered shall be separated and stored temporarily indoors prior to being subjected to other recovery activities at the facility or transport off site.
 - 5.9.2 All construction and demolition waste stockpiles shall be maintained indoors so as to minimise dust generation.
- 5.10 Maintenance

- 5.10.1 All process 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.
- 5.10.2 The licensee shall maintain and clearly label and name all sampling and monitoring locations.
- 5.10.3 The wheel-wash(s) shall be inspected on a daily basis and drained as required. Silt, stones and other accumulated material shall be removed as required from the wheel-wash and disposed of appropriately.

REASON: To provide for appropriate operation of the facility to ensure protection of the environment.

CONDITION 6 EMISSIONS

- 6.1. No specified emission from the facility shall exceed the emission limit values set out *in Schedule C: Emission Limits* of this licence. There shall be no other emissions of environmental significance.
- 6.2. The licensee shall ensure that the activities shall be carried out in a manner such that odours, dust, surface water and wastewater emissions do not result in significant impairment of, or significant interference with, amenities or the environment beyond the facility boundary.
- 6.3. Emission limits for emissions to atmosphere in this licence shall be interpreted in the following way:-
 - 6.3.1. Non-Continuous Monitoring
 - (i) For any parameter where, due to sampling/analytical limitations, a 30 minute samples is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value.
 - (ii) For all other parameters, no 30 minute mean value shall exceed the emission limit value.
 - (iii) For flow, no hourly or daily mean value shall exceed the emission limit value.
- 6.4. There shall be no direct or indirect emissions to groundwater.
- 6.5. There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at the noise sensitive locations.
- 6.6. Emissions to Sewer
 - 6.6.1. No wastewater shall be discharged to surface water.
 - 6.6.2. Unless otherwise agreed in advance with the Agency and the Sanitary Authority, the following shall apply for the discharge of wastewater, which shall be via the wastewater sewer indicated on Figure No. C.9.1 d Proposed Foul Drainage System. There shall be no other discharge or emissions to sewer of environmental significance.
 - 6.6.2.1 No substance shall be present in emissions to sewer 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.

- 6.6.2.2 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.
- 6.6.2.3 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.
- 6.6.2.4 The liquid waste arising from the beverage cans shall be treated as liquid waste and not discharge to sewer.
- 6.6.2.5 Wastewater (e.g. firewater, accidental spillage) which occurs on-site shall not be discharged to the sewer without the prior authorisation of the Sanitary Authority.
- 6.6.2.6 The licensee shall provide and maintain an inspection chamber in a suitable position in connection with each pipe through which a discharge or emission is being made. Each such inspection chamber or manhole shall be constructed and maintained by the licensee so as to permit the taking of samples of the discharge.
- 6.6.2.7 The licensee shall submit monitoring results to the Sanitary Authority on an annual basis.
- 6.7. Emission limit values for wastewater emissions to sewer in this licence shall be interpreted in the following way:-
- a) Continuous monitoring : No value shall exceed the specified limit.
 - b) Non-Continuous monitoring.
No pH value shall deviate from the specified range.
No temperature value shall exceed the emission limit value.
For parameters other than pH, temperature and flow, eight out of ten consecutive results, calculated as daily mean concentration or mass emission values 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.
 - c) For parameters other than pH, temperature and flow, no grab sample shall exceed 1.2 times the emission limit value.
- 6.8. Materials classified as hazardous under the Waste Management Act, 1996 shall not be discharged to sewer.

<p><i>REASON: To control emissions from the facility and provide for the protection of the environment.</i></p>

CONDITION 7 NUISANCE CONTROL

- 7.1 The licensee shall ensure that vermin, birds, flies, mud, dust, noise, litter and odours do not give rise to nuisance at the facility or in the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution.

- 7.2 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.
- 7.3 Litter Control
- 7.3.1 The measures and infrastructure as described in Attachment F5 shall be applied to control litter.
- 7.3.2 All loose litter or other waste, placed on or in the vicinity of the facility, other than in accordance with the requirements of this licences, shall be removed, subject to the agreement of the landowners, immediately and in any event by 10.00am of the next working day after such waste is discovered.
- 7.4 Dust/Odour Control
- 7.4.1 In dry weather, facility roads, yards and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
- 7.4.2 Within nine months of the date of the grant of this the licensee shall install and maintain 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:
- 7.4.2.1 Dust curtains shall be maintained on the entry/exit points from the waste transfer buildings, all other doors in these buildings shall be kept closed where possible.
- 7.4.2.2 Installation of an odour management system.
- 7.4.2.3 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.
- 7.4.3 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered, and that there is no liquid discharge from the waste transported therein.
- 7.5 Within six months of the date of grant of this licence the licensee shall submit to the Agency, for agreement, an odour assessment of the entire facility. This odour assessment shall, as a minimum include:
- 7.5.1 Identification and quantification of all potential significant odour releases from the facility.
- 7.5.2 A review of the effectiveness of odour controls employed at the facility.
- 7.5.3 Prior to exiting the facility, all waste vehicles shall use the wheelwash.
- 7.6 Noise Control
- 7.6.1 Within six months of the date of grant of this licence, the licensee shall submit to the Agency for agreement, a day-time and night-time noise assessment at noise sensitive locations. This noise assessment shall, as a minimum, include:
- (i) Identification and quantification of all significant noise emissions arising from operation of the facility.
- (ii) A review of the effectiveness of noise control employed at the facility to mitigate noise emissions at the noise sensitive locations.

REASON: To provide for the control of nuisances

CONDITION 8 MONITORING

- 8.1. The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule D: Monitoring* of this licence and as specified in this licence.
- 8.2. The licensee shall amend the frequency, locations, methods and scope of monitoring as required by this licence 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.
- 8.3. Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturers' instructions (if any) so that all monitoring results accurately reflect any emission, discharge or environmental parameter.
- 8.4. The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 8.5. 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.
- 8.6. 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.
- 8.7. Within one month of the date of grant of this licence, 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.
- 8.8. 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.
- 8.9. Nuisance Monitoring
 - 8.9.1. The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by litter, 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.

REASON: To ensure compliance with the conditions of this licence by provision of a satisfactory system of monitoring of emissions

CONDITION 9 CONTINGENCY ARRANGEMENTS

- 9.1. In the event of an incident 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 arising therefrom;
 - c) isolate the source of any such 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 of the incident occurring to:
 - i) identify and put in place measures to avoid reoccurrence of the incident; and
 - ii) identify and put in place any other appropriate remedial action.
- 9.2. The licensee shall within six months of the date of grant of this licence, 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. This shall include a risk assessment to determine the requirements at the facility for fire fighting and firewater retention facilities. The Fire Authority shall be consulted by the licensee during this assessment.
- 9.3. 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.
- 9.4. Emergencies
- 9.4.1. 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.
- 9.4.2. 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;
- 9.4.3. No waste shall be burnt within the boundaries of the facility. A fire at the facility shall be treated as an emergency and immediate action shall be taken to extinguish it and notify the appropriate authorities.

REASON:	<i>To ensure compliance with the conditions of this licence by provision of a satisfactory system of monitoring of emissions</i>
----------------	--

CONDITION 10 RECORDS

- 10.1 The licensee shall keep the following documents at the facility office.
- 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;
 - d) all written procedures produced by the licensee which relate to the licensed activities.
 - e) All documentation relating to Waste Licence Application Reg. No. 44-2.
 - f) All correspondence between the Agency and the Licensee.
- 10.2 The licensee shall maintain a written record for each load of waste arriving at and departing from the facility, excluding waste arriving at the Civic Waste Facility. The licensee shall record the following:
- a) the date;
 - b) the name of the carrier (including if appropriate, details of waste collection permit);
 - c) the vehicle registration number;
 - d) the name of the producer(s)/collector(s) of the waste as appropriate;
 - e) the name of the waste facility (if appropriate) from which the load originated including the waste licence or waste permit register number;
 - f) a description of the waste including the associated EWC codes;
 - g) the quantity of the waste, recorded in tonnes
 - h) the name of the person checking the load
 - i) 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, including waste licence and waste permit register number of these facilities as appropriate; and
 - j) where applicable a consignment note number (including transfrontier shipment notification and movement/tracking form numbers, as appropriate).
- 10.3 Written Records
- The following written records shall be maintained by the licensee:
- a) the types and quantities of waste recovered at the facility each year. These records shall include the relevant EWC Codes;
 - b) all training undertaken by facility staff;
 - c) results from all integrity tests of bunds and other structures and any maintenance or remedial work arising from them;
 - d) details of all nuisance inspections.
 - e) the names and qualifications of all persons who 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.
- 10.4 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.

10.5 A written record shall be kept for each load of waste departing from the Civic Waste Facility. The following shall be recorded:

- a) the name of the carrier;
- b) the vehicle registration number;
- c) the destination of the waste (facility name and waste licence/permit number as appropriate);
- d) a description of the waste (if recovered or rejected waste, the specific nature of the waste);
- e) the quantity of waste, recorded in tonnes;
- f) the name of the person checking the load; and,
- g) the time and date of departure.
- h) Consignment notes and Transfrontier shipment notifications as appropriate.

10.6 A written record shall be kept at the facility of the programme for the control and eradication of vermin and insect infestations at the facility. These records shall include as a minimum the following:

- a) the date and time during which spraying of insecticide is carried out;
- b) contractor details;
- c) contractor logs and site inspection reports;
- d) details of the rodenticide(s) and insecticide(s) used;
- e) operator training details;
- f) details of any infestations;
- g) mode, frequency, location and quantity of application; and,
- h) measures to contain sprays within the facility boundary.

<i>REASON:</i> <i>To provide for the keeping of proper records of the operation of the facility</i>

CONDITION 11 REPORTS AND NOTIFICATIONS

11.1 Unless otherwise agreed by the Agency, all reports and notifications submitted to the Agency shall:

- (a) be sent to the Agency's headquarters;
- (b) comprise one original and three copies unless additional copies are required;
- (c) be formatted in accordance with any written instruction or guidance issued by the Agency;
- (d) include whatever information as is specified in writing by the Agency;

- (e) be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;
- (f) be submitted in accordance to the relevant reporting frequencies specified by this licence, such as in *Schedule E: Recording and Reporting to the Agency* of this licence;
- (g) be accompanied by a written interpretation setting out their significance in the case of all monitoring data; and
- (h) be transferred electronically to the Agency's computer system if required by the Agency.

11.2 In the event of an incident occurring on the facility, the licensee shall:

- a) notify the Agency as soon as practicable and in any case not later than 10.00 am the following working day after the occurrence of any incident;
- b) submit a written record of the incident, including all aspects described in Condition 9.1(a-e), to the Agency as soon as practicable and in any case within five working days after the occurrence of any incident;
- c) in the event of any incident which relates to discharges to surface/sewer water, notify the Eastern Regional Fisheries Board and Dublin City Council as soon as practicable and in any case not later than 10:00am on the following working day after such an incident; and
- d) Should any further actions be taken 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.

11.3 Vermin and Flies

- 11.3.1 Within three months of the date of this licence, the licensee shall submit to the Agency for its agreement a proposal for the control and eradication of vermin and insect infestations at the facility. This proposal should include as a minimum, operator training, details on the rodenticide(s) and insecticide(s) to be used, mode and frequency of application and measures to contain sprays within the facility boundary.

11.4 Monitoring Locations

- 11.4.1. Within three months from the date of grant of this licence, the licensee shall provide to the Agency for agreement, revised boundary noise, dust, surface water and sewer monitoring points, shown on appropriately scaled drawing(s) and national grid reference (8 digit) code for each monitoring point.

11.5 Annual Environmental Report

- 11.5.1. The licensee shall submit to the Agency for its agreement, within one month after the end of each calendar year, an Annual Environmental Report (AER).
- 11.5.2. The AER shall include as a minimum the information specified in *Schedule F: Content of Annual Environmental Report* of this licence, and shall be prepared in accordance with any relevant written guidance issued by the Agency.

REASON: <i>To provide for proper reporting and notification of the Agency.</i>

CONDITION 12 CHARGES AND FINANCIAL PROVISIONS

12.1 Agency Charges

12.1.1 The licensee shall pay to the Agency an annual contribution of €21,131.75 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 2004 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 2003, the licensee shall pay a pro rata amount from the date of this licence to 31st December. This amount shall be paid to the Agency within one month of the date of grant of this licence.

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

12.2 Financial Provision for Decommissioning

12.2.1 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 activities to which this licence relates. A report on this assessment shall be submitted to the Agency for its agreement within nine months of date of grant of this licence.

12.2.2 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 activities to which this licence relates. The licensee shall maintain such provision unless otherwise agreed by the Agency.

12.2.3 The amount of financial provision, held under condition 12.2.2 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.

12.2.4 The licensee shall within two weeks of purchase, renewal or revision of the financial provision required under condition 12.2.2, forward to the Agency written proof of such indemnity.

12.2.5 Unless otherwise agreed any revision to the fund shall be computed using the following formula:

$$\text{Cost} = (\text{ECOST} \times \text{WPI}) + \text{CiCC}$$

Where:

Cost = Revised restoration and aftercare cost

ECOST = Existing restoration and aftercare cost

WPI = Appropriate Wholesale Price Index [Capital Goods, Building & Construction (i.e. Materials & Wages) Index], as published by the Central Statistics Office, for the year since last closure calculation/revision.

CiCC = Change in compliance costs as a result of change in site conditions, changes in law, regulations, regulatory authority charges, or other significant changes.

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

SCHEDULE A : Waste Acceptance

A.1 Waste Acceptance

Table A.1 Waste Categories and Quantities

Waste Type	Maximum (Tonnes Per Annum)
Household.	115,000
Commercial waste	30,000
Construction and Demolition waste	30,000
Industrial Non Hazardous Solids	74,000
Hazardous Waste	1,000
TOTAL	250,000

SCHEDULE B : Specified Engineering Works

Specified Engineering Works
Waste Quarantine Area
Waste Inspection Area
Modifications to Surface Water Drainage System
Modifications to Sewer System
Fuel and Liquid Bunding
Dust control Infrastructure for Buildings 5 and 7.
Any other works notified in writing by the Agency.

SCHEDULE C : Emission Limits

C.1 Noise Emissions: (Measured at any noise sensitive locations).

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

C.2 Dust Deposition Limits: (Measured at the monitoring points indicated in Table D. 1.1)

Level (mg/m ² /day) ^{Note 1}
350

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

C.3 Emissions to Surface Water:

(Measured at the surface water emission points indicated in Table D.1.1).

Parameter	Emission Limit Value
Biological Oxygen Demand	25 mg/l
Suspended Solids	35 mg/l
Mineral oils	5 mg/l for discharges from Class I interceptor to receiving water or 100 mg/l for discharges from Class II interceptor to sewer

C.4 Emission to Sewer

Emission Point Reference No.

Point F1

Emission to Sewer

225 mm Foul Sewer in Industrial Estate to the South of the facility.

Volume to be emitted:

Maximum in any one day at F1: 12 m³

Parameter	Emission Limit Value		
	Grab Sample (mg/l)	Daily Mean Concentration (mg/l)	Daily Mean Loading (kg/day)
Biological Oxygen Demand	4000	3000	36
Chemical Oxygen Demand	8000	6000	72
Suspended Solids	1000	800	9.6
pH	6-10		
Temperature °C	42		
Phosphate (as PO ₄ -P)	50	50	0.6
Detergents	100	100	1.2
Mineral Oils	20	10	0.12
Fats, Oil & Grease	100	100	1.2

Emission Point Reference No. Point F2

Emission to Sewer 225 mm Foul Sewer in Kylemore Park North

Volume to be emitted: Maximum in any one day at F1: 20 m³

Parameter	Emission Limit Value		
	Grab Sample (mg/l)	Daily Mean Concentration (mg/l)	Daily Mean Loading (Kg/day)
Biological Oxygen Demand	4,000	3,000	60
Chemical Oxygen Demand	8,000	6,000	120
Suspended Solids	1,000	800	16
pH	6 to 10		
Temperature °C	42		
Phosphate (as PO ₄ -P)	50	50	1.0
Detergents	100	100	2.0
Mineral Oils	20	10	0.2
Fats, Oil & Grease	100	100	2.0

SCHEDULE D : Monitoring

Monitoring to be carried out as specified below.

D.1 Monitoring Locations

Monitoring locations shall be those as set out in Tables D.1.1 as indicated in Figure No. A.7 (Revision B) Monitoring Locations.

Table D.1.1 Monitoring Locations

NOISE	SURFACE WATER	FOUL WATER	DUST
STATIONS	STATIONS	STATIONS	STATIONS
N7	SW 1	F1	D2
N8	SW 2	F2	D3
N9			D4
			D7
			D8 (proposed)

D.2 Dust

Table D.2.1 Dust Monitoring Frequency and Technique

Parameter (mg/m ² /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.

D.3 Noise

Table D.3.1 Noise Monitoring Frequency and Technique

Parameter	Monitoring Frequency ^{Note 2}	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.”

Note 2: To be carried out for both daytime and night-time operations.

D.4 Surface Water Emission

Table D.4.1 Surface Water Monitoring Frequency and Techniques

Parameter	Monitoring Frequency	Analysis Method/Technique
pH	Quarterly	Electrometry
Biological Oxygen Demand	Quarterly	Standard Methods ^{Note 1}
Chemical Oxygen Demand	Quarterly	Standard Methods ^{Note 1}
Suspended Solids	Quarterly	Standard Methods ^{Note 1}
Conductivity	Quarterly	Standard Methods ^{Note 1}
Mineral Oils	Quarterly	Standard Methods ^{Note 1}
Fats, Oils & Grease	Quarterly	Standard Methods ^{Note 1}
Temperature	Quarterly	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.

D.5 Emissions to Sewer

Table D.5.1 Monitoring Frequency and Techniques

Parameter	Monitoring Frequency	Analysis Method/Technique
Flow to Sewer	Daily	Flow Rate Monitor
Biological Oxygen Demand	Quarterly	Standard Method 24 Hour Composite ^{Note 1}
Chemical Oxygen Demand	Quarterly	Standard Method 24 Hour Composite ^{Note 1}
Suspended Solids	Quarterly	Standard Method 24 Hour Composite ^{Note 1}
Temperature	Monthly	Temperature probe/Grab
pH	Monthly	Electrometry/ Grab
Other parameters		
Phosphate (as PO ₄ -P)	Quarterly	Standard Method 24 Hour Composite ^{Note 1}
Detergents	Quarterly	Standard Method 24 Hour Composite ^{Note 1}
Mineral Oils	Quarterly	Standard Method 24 Hour Composite ^{Note 1}
Fats, Oil & Grease	Quarterly	Standard Method 24 Hour Composite ^{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.

SCHEDULE E : Recording and Reporting to the Agency

Report	Reporting Frequency ^{Note1}	Report Submission Date
Environmental Management System Proposal		Within three months from the date of grant of this licence.
Environmental Management System Update	Annually	One month after the end of the year reported on.
Communications Programme		Within four months from the date of grant of this licence.
Specified Engineering Works Reports	As they arise	Two months prior to the works commencing.
Duty & Standby Capacity		Within three months from the date of grant of this licence.
Bund Integrity Assessment	Every three years	Within three months from the date of grant of this licence, and every three years after.
Annual Environment Report (AER)	Annually	Reported one month after the end of the year reported on.
Emergency Response Procedure		Within six months from the date of grant of this licence.
Revised Monitoring Points		Within three months from the date of grant of this licence.
Monitoring of Surface Water Quality	Quarterly	Ten days after end of the quarter being reported on.
Monitoring of Emissions to Sewer	Quarterly	Ten days after end of the quarter being reported on.
Dust Monitoring	Three times a year	Ten days after the period being reported on
Noise Monitoring	Annually	Within six months from the date of grant of this licence. And one month after the end of the year being reported on.
Odour Assessment		Within six months from the date of grant of this licence.
Any other monitoring	As they occur	Within ten days of obtaining results.
Record of incidents	As they occur	Within five days of the incident.
Environmental Liabilities Risk Assessment		Within nine months from the date of grant of this licence.
Financial Provisions		Within nine months from the date of grant of this licence.

Note 1: Unless altered at the request of the Agency

SCHEDULE F : Content of the Annual Environmental Report

Annual Environmental Report Content

Reporting Period.

Waste activities carried out at the facility.

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

Contribution to the achievement of the recovery targets stated in national and European Union waste policies including the following;

- a) proposals for the contribution of the facility to the achievement of targets for the reduction of biodegradable waste to landfill as specified in the Landfill Directive;
- b) the separation of recyclable materials (paper, wood, plastic, inert materials) from the waste;
- c) the recovery of Construction and Demolition Waste;
- d) the recovery of metal waste and white goods including proposals for the de-gassing of CFC's from refrigerators;
- e) recovery of commercial waste, including cardboard, newspapers/magazines, aluminium, and steel cans;
- f) the conversion of waste vegetable oil into biofuel;
- g) recovery facilities proposed to accept shredded or whole tyres;

Summary report on emissions.

Summary of results and interpretations of environmental monitoring, including a location plan of all monitoring locations.

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.

Note 1: Content to be revised subject to the agreement of the Agency after cessation of waste acceptance at the facility.

Signed on behalf of the said Agency
on the 7th day of February 2003

Patrick J. Nolan, **Authorised Person**