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

WASTE LICENCE

Waste Licence	82-1
Register Number:	
Licensee:	Cussen & Company (Crane Hire) Limited
Location of Facility:	Ballykeefe Townland, Waste Management Section, Dock Road, Limerick

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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 received from other parties and the report of its inspector.

No objection having been received to the proposed decision, the licence is granted in accordance with the terms of the proposed decision and the reasons therefor.

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 Cussen & Company (Crane Hire) Limited to carry on the waste activities listed below at Ballykeefe Townland, Waste Management Section, Dock Road, Limerick 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 12:* Repackaging prior to submission to any activity referred to a preceding paragraph of this Schedule.
- 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.

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).
- Class 3:* Recycling or reclamation of metals and metal compounds.
- Class 4:* Recycling or reclamation of other inorganic materials.
- 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.

INTERPRETATION

Act	The Waste Management Act, 1996 (No. 10 of 1996).
Adequate lighting	20 lux measured at ground level.
Agency	Environmental Protection Agency
Agreed	Agreed in writing.
Agreement	Agreement in writing.
Annually	All or part of a period of twelve consecutive months.
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.
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.
BATNEEC	Best Available Technology Not Entailing Excessive Cost as defined in section 5 (2) of the Act.
Biodegradable waste	Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food and garden waste, and paper and paperboard.
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 Schedule G.
Environmental Pollution	As defined in Section 5 (1) of the Act.
Facility	That area or areas defined under Condition 1.2

Foul Water	Any reference in this licence refers to wash water, truck washing, run-off from compost facility or contaminated firewater.
Hazardous Waste	As defined in Section 4 (2) of the Act.
Household Waste	As defined in Section 5 (1) of the Act.
Impulsive Noise	As defined in British Standard BS 4142, 1990. "Method for rating industrial noise affecting mixed residential and industrial areas".
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.
Instruction	Instruction in writing
Licence	A Waste Licence issued in accordance with the Act.
Licensee	Cussen & Company (Crane Hire) Ltd
Maintain	Keep in a fit state, including such regular inspection, servicing and repair as may be necessary to adequately perform its function.
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, eg. oil and petrol).
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.
Sanitary Authority	Limerick 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 Schedule G: Emission Limits of this licence.
Specified Engineering Works	Those engineering works listed in Schedule E: Specified Engineering Works 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.
Working Day	Monday to Saturday 7.00 a.m. to 8.30 p.m.

Part II: CONDITIONS

CONDITION 1 SCOPE

- 1.1. Waste activities at the facility shall be restricted to those listed and described in Schedule A: *Waste Activities* and required by this licence.
- 1.2. Within one month of the date of grant of this licence, the licensee shall submit to the Agency for its agreement, a Site Plan, showing the facility boundary outlined in red, incorporating (i) the areas outlined in red and green and blue shading on Drawing No. C98-101-B2-01 Rev1 received by the Agency on 1st September 1999 and (ii) the facility offices indicated in black on Drawing No. C98-101-D1-01 received by the Agency on 11th November 1998. Any reference in this licence to “facility” shall mean the area thus outlined in blue.
- 1.3. 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.
- 1.4. 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.
- 1.5. 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.

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

CONDITION 2 MANAGEMENT OF THE ACTIVITY

2.1 Environmental Management System

2.1.1 The licensee shall within eighteen months from the date of grant of this licence, 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.

2.1.2 The EMS shall include as a minimum those elements specified in the Conditions 2.2 to 2.7 below:

2.2 Schedule of Environmental Objectives and Targets

2.2.1 The licensee shall, within twelve months from the date of grant of this licence, submit to the Agency for its agreement a Schedule of Objectives and Targets. The objectives should be specific and the targets measurable.

2.2.2 The Schedule shall address a five year period as a minimum and shall be reviewed and submitted annually to the Agency for its agreement.

2.3 Environmental Management Programme

2.3.1 The licensee shall, within twelve months from the date of grant of this licence, submit to the Agency for its agreement an Environmental Management Programme (EMP). The EMP shall include a time-scale for achieving the Schedule of Objectives and Targets and shall comply with any other guidance issued by the Agency.

2.3.2 The EMP shall include, as a minimum, the information specified in Schedule B: *Content of the Environmental Management Programme*. The EMP shall be reviewed and submitted to the Agency for its agreement annually.

2.4 Corrective Action

2.4.1 Within six months of the date of grant of this licence, the licensee shall establish and maintain written Corrective Action Procedures to ensure that corrective action is taken should specified requirements to this licence not be fulfilled.

2.5 Awareness and Training

2.5.1 Within six months of the date of grant of this licence, the licensee shall establish and maintain Awareness and Training Procedures for identifying training needs and for providing appropriate training, for personnel whose work is related to the licensed facility. Written records of training shall be maintained.

2.6 Management Structure

2.6.1 Within three months from the date of grant of this licence, the licensee shall submit written details of the management structure of the facility for the agreement of the Agency. These details shall include contingency arrangements for the absences of the named persons from the facility. Any

proposed changes in the management structure shall be submitted in writing to the Agency for its agreement.

2.7 Communications

2.7.1 Within twelve months from the date of grant of this licence, 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.

2.8 Annual Environmental Report

2.8.1 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).

2.8.2 The AER shall include as a minimum the information specified in Schedule C: *Content of Annual Environmental Report* and shall be prepared in accordance with any relevant written guidance issued by the Agency.

2.9 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.

2.10 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.

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 results in the contravention of any relevant standard, including any standard for an environmental medium, or any relevant emission limit value, prescribed under any relevant enactment;
- c) any emission which does not comply with the requirements of this licence;
- d) any trigger level specified in this licence which is attained or exceeded;
- e) any indication that environmental pollution has, or may have, taken place;
- f) any occurrence with the potential for environmental pollution; and,
- g) any emergency.

3.2 The written record shall include all aspects described in Condition 10.6(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 Shannon Regional Fisheries Board and Limerick County Council 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) be sent to the Agency's headquarters;
 - (b) comprise one original and three copies;
 - (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; and
 - (g) 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 D: *Recording and Reporting to the Agency* of this licence.
- 3.7 Unless otherwise agreed with the Agency, 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 4.6.
- 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.

- 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 name of the carrier;
 - b) the vehicle registration number;
 - c) the name of the producer(s)/collector(s) of the waste as appropriate;
 - d) a description of the waste;
 - e) the quantity of the waste accepted at the facility, recorded in tonnes;
 - f) the name of the person checking the load;
 - g) 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;
 - h) the quantity of waste leaving the facility, recorded in tonnes;
 - i) the destination of the load; and
 - j) any other information which might be required from time to time subject to prior agreement with the Agency.
- 3.11 The licensee shall record on a daily basis the total number of containers being stored overnight on a daily basis.
- 3.12 The licensee shall maintain a written record of the type and quantity, recorded in tonnes, of all waste recovered or disposed of at the facility.
- 3.13 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 discharged/transported; and
 - e) any incidents or spillages of foul water during its removal or transportation.
- 3.14 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.

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 or as instructed by the Agency.
- 4.2 Site Notice Board
- 4.2.1 The licensee shall provide and maintain a Site Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the identification 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 name, address and telephone number of the operator of the facility;
 - f) the licence reference number;
 - g) where and when environmental monitoring information relating to the facility can be obtained.
- 4.3 Site Security
- 4.3.1 Security and stockproof fencing and gates shall be installed and maintained as described in Attachment D1 of the waste licence application received by the Agency on 1st September 1999. The security fence and gates shall be at the locations shown on Drawing No. C98-101-D2-4 Rev 1 received by the Agency on 1st September 1999. The base of the fencing shall be set in the ground.
- 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.
- 4.3.4 Within three months of the date of grant of this licence, the licensee shall carry out a review of the site security arrangements for the site and submit to the Agency for its agreement a report to include any improvements considered necessary.
- 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 Within nine months of the date of grant of this licence, unless otherwise instructed by the Agency, the area indicated in blue shading on Drawing No C98-101-B2-05 shall be surfaced in concrete to British Standard 8110 specification, or to another standard agreed in advance by the Agency.

- 4.4.3 The drainage from all concreted areas shall pass through oil separators agreed by the Agency within nine months of the date of grant of this licence.
- 4.5 Oil separator
- 4.5.1 Within three months of the date of grant of this licence, the licensee shall report to the Agency on the compatibility of the existing oil separator located on the storm water discharge line, as shown in Drawing "Monitoring Points" (No. 9811502, 01, Revision A, June 1998), with the class I separators as described in European Standard prEN 858 (Installations for the separation of light liquids).
- 4.5.2 If, in the opinion of the Agency, this comparison proves negative, the licensee shall install a suitable oil separator to replace the existing one within six months of such notification by the Agency.
- 4.5.3 The licensee shall install a new full retention class I oil separator on the surface water discharge line within nine months of the date of grant of this licence at the location indicated on Dwg. No. C98-101-C9-01 received by the Agency on the 11th November 1998 unless otherwise agreed by the Agency.
- 4.6 The licensee shall provide and maintain an office on the facility, at the location shown in Drawing No. C98-101-D1-01. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
- 4.7 The licensee shall provide and maintain a working telephone and facsimile machine in the office specified in Condition 4.6 above.
- 4.8 A waste quarantine area shall be provided and maintained at the facility within nine months of the date of grant of this licence. The location and details of this area shall be submitted to the Agency for its agreement. The licensee shall ensure that this area 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.
- 4.9 The licensee shall provide and maintain a weighbridge at the facility. Unless otherwise agreed with the Agency the location of the weighbridge shall be as shown on Drawing No. C98-101-D2-4 Rev.1 received by the Agency on the 1st September 1999.
- 4.10 The licensee shall provide and maintain vehicle cleaning facilities at the facility. The licensee shall recirculate all washings from the vehicle cleaning operation within three months of the date of grant of this licence. The system shall be desludged as necessary and properly maintained at all times. Until this date the washings shall be diverted to a dedicated tanker prior to removal off-site.
- 4.11 Facility Layout
- 4.11.1 The Transfer Station Building and Separation Compound shall be provided and maintained within three months of the date of grant of licence, as set out in Dwg. No. C98-101-D2-4 Rev 1 received by the Agency on the 1st September 1999 subject to any alteration(s) agreed in advance by the Agency.
- 4.11.2 The Bin Storage Area, Pallet storage area and Composting Area shall be provided and maintained within nine months of the date of grant of licence, as set out in Dwg. No. C98-101-D2-4 Rev 1 received by the Agency on the 1st September 1999 subject to any alteration(s) agreed in advance by the Agency.
- 4.11.3 The licensee shall submit as built drawings of the infrastructure referred to above to the Agency within one month of the date of completion of the works.
- 4.12 Holding Tanks

- 4.12.1 The licensee shall provide and maintain holding tanks for the retention of washings from the transfer station building and the composting area. All such tanks shall be fitted with high level alarms.
- 4.12.2 The licensee shall carry out visual and wall thickness tests and hydrostatic tests on all holding tanks upon construction and every three years thereafter.
- 4.13 Fuel Storage / Liquid Waste Storage
- 4.13.1 The licensee shall provide and maintain a bunded fuel storage area at the facility. Unless otherwise agreed with the Agency the location of the fuel storage area shall be as shown on Dwg. No. C98-101-D2-4 Rev 1. Surface water drainage from the fuel dispensing area of this tank, unless contained within the bund, shall be directed through an oil separator.
- 4.13.2 Prior to the storage of any liquid waste in tankers or containers at the facility, the licensee shall provide a bunded area clearly designated for that purpose.
- 4.13.3 All tank, drum and tanker storage areas shall be rendered impervious to the materials stored therein. In addition, tank and drum storage areas shall, as a minimum be bunded, either locally or remotely, to a volume not less than the greater of the following
- 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.
- 4.13.4 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 4.13.5 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 4.13.6 The integrity and water tightness of the diesel fuel storage bund 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 within 6 months of the date of grant of this licence. 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.
- 4.13.7 All tanks and containers shall be labelled to clearly indicate their contents.
- 4.14 Within nine months of granting of this licence, 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 site operation. Any alterations to the site drainage thereafter shall comply with this colour coding scheme within one week of such alterations.
- 4.15 The drainage system, bunds 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.
- 4.16 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.

- 4.17 The foul sewer systems shall be established and maintained as set out in Dwg. No. C98-101-D2-4 Rev 1 subject to any alterations agreed in advance by the Agency.
- 4.18 The licensee shall within six months of grant of this licence carry out a comprehensive hydrogeological investigation of the site. The scope, detail and programme, including report structure and reporting schedule, for this investigation must be agreed by the Agency prior to implementation. As agreed with the Agency, recommendations arising from a report or reports on this investigation must be implemented within six months of the date of agreement by the Agency.
- 4.19 Specified Engineering Works
- 4.19.1 The licensee shall submit written proposals for all Specified Engineering Works, as defined in Schedule E: *Specified Engineering Works*, 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.
- 4.19.2 All specified engineering works shall be supervised by a competent person(s) agreed in advance by the Agency and that person, or persons, shall be present at all times during which relevant works are being undertaken.
- 4.19.3 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;
 - i) any other information requested in writing by the Agency; and
 - j) a comprehensive drawing of the entire facility drainage network including foul sewerage, surface water drainage, fuel, raw material and waste storage locations, waste quarantine area, monitoring stations, cut-off valves, underground services such as electricity cables and their associated manhole covers, vehicle wash area, oil separators, gullies, manhole covers, buildings, truck parking area, pumps.

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

CONDITION 5 WASTE ACCEPTANCE AND HANDLING

- 5.1. Only the following non-hazardous wastes as listed in Schedule H *Waste Acceptance* shall be accepted at the facility:
 - 5.1.1. Commercial and Household Waste;
 - 5.1.2. Construction and Demolition Waste;
 - 5.1.3. Industrial Non-Hazardous Waste; and
 - 5.1.4. The wastes listed in Table E.1.3 of the waste licence application.
- 5.2. Where waste types are not permitted to be accepted at the facility, then those waste types shall not be accepted whether or not they have been packaged, placed in other containers or waste materials, or pre-treated by any form of solidification or encapsulation.
- 5.3. Waste Acceptance Procedures
 - 5.3.1. Waste must only be accepted at the facility from known customers or new customers subject to initial waste characterisation off-site. The written records of this off-site waste profiling 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.
 - 5.3.2. Each load of waste arriving at the transfer station shall be visually inspected prior to unloading in accordance with "Level 3: On-site Verification" outlined in the Agency's Draft Manual on Waste Acceptance. Any wastes deemed to be in contravention of this licence and/or unsuitable for recovery or disposal at this facility shall be removed for recovery or disposal at an appropriate alternative facility.
 - 5.3.3. 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.
- 5.4. All industrial waste accepted at the facility shall be classified according to the European Waste Catalogue code prior to its acceptance at the facility.
- 5.5. All waste shall be processed as detailed in D2 Facility operations and D.3 Materials Management of the waste licence application. Any waste deemed unsuitable and/or in contravention of this waste licence shall be immediately separated and at the earliest possible time removed for recovery or disposal at an appropriate alternative facility.
- 5.6. The licensee shall submit a written proposal on any proposed new waste processing procedure, along with relevant details, to the Agency for its agreement prior to any such processes or associated works being carried out.
- 5.7. The licensee shall within six months of the date of grant of this licence submit a written procedure for (i) the management of unacceptable wastes received at the facility for the agreement of the Agency and (ii) in the event that the receiving disposal/recovery facility is unable to accept wastes. These procedures will detail unacceptable waste types, handling procedures, waste quarantine procedures, record keeping and levels of staff responsibility.

- 5.8. All waste accepted into the Transfer Station for compaction shall be compacted within 12 hours unless otherwise agreed in advance with the Agency.
- 5.9. At the end of the working day the floor of the Transfer Station and the hopper shall be cleaned of all waste.
- 5.10. The quantity of wastes to be accepted at the facility shall not exceed 75,000 tonnes per annum unless otherwise agreed in advance with the Agency.
- 5.11. Except in emergency circumstances, waste shall only be accepted at the facility between the hours of 7.30 and 20.00 on Monday to Saturday, inclusive. Any operation at the facility outside of normal working hours or on a Sunday shall be notified to the Agency by 10:00 on the morning of the next working day. The notification shall detail the operations carried out, the reason for carrying them out and the hours during which they were carried out.
- 5.12. Storage/Designated Areas
- 5.12.1. Within two months of the date of grant of this licence, no waste shall be stored overnight at the facility other than in designated secure storage areas.
- 5.12.2. The licensee shall assign and clearly label a unique reference code to each container at the site.
- 5.12.3. Unless subject to the prior agreement of the Agency, a maximum of 18 enclosed waste containers (including sealed containers of compacted waste or fully enclosed collection vehicles containing waste), shall be stored on the facility overnight. These containers shall be stored at the areas clearly designated for this purpose as indicated on Dwg. No. C98-101-D2-4 Rev 1 or as otherwise agreed with the Agency.
- 5.13. Scavenging shall not be permitted at the facility.
- 5.14. Waste sent off-site for recovery or disposal shall only be conveyed to a waste contractor, as outlined in Section 3.6 Materials Management of the waste licence application received by the Agency on the 1st September 1999 or as otherwise agreed by the Agency. The ultimate recovery or disposal facility for all wastes shall be 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.

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

CONDITION 6 ENVIRONMENTAL NUISANCES

- 6.1. All compacted waste shall be removed from the facility within seventy two hours of being compacted, unless subject to the prior agreement of the Agency.
- 6.2. 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.
- 6.3. 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.

- 6.4. All loose litter accumulated within the facility and its environs shall be removed and appropriately disposed of on a daily basis.
- 6.5. 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.
- 6.6. The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered, and that there shall be no liquid discharges from the waste transported therein.
- 6.7. Dust Control
 - 6.7.1. In dry weather, site roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
 - 6.7.2. Water sprinklers shall be operated in the transfer station, separation compound, and the composting areas as and when required.
- 6.8. 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 or contravene any national statutory protection granted in respect of protected species.
- 6.9. The licensee shall submit to the Agency, for its agreement, within four months of the date of grant of this licence a programme for the assessment of the odours arising from the facility.

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 G: *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 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. There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at the facility boundary
- 7.4. Sewage Treatment
 - 7.4.1. The licensee shall within three months of date of grant of this licence install an on-site percolation system that satisfies the design criteria set out in the guidance document SR6 Septic Tank Systems (NSAI 1991) or any future guidance prepared by the Agency. A proposal for any remedial works necessary must be submitted to the Agency for its agreement within four

months of the date of grant of this licence. A report on the installation of the on-site system shall be submitted within four months of the date of grant of this licence.

- 7.4.2. Sewage from the facility may be discharged to the on-site treatment plant and percolation system only following agreement of the Agency as required in Condition 7.4.1. This plant shall be maintained in accordance with the manufacturers specification and de-sludged at least annually and records should be maintained by the licensee. Until this time sewage shall be directed to the existing septic tank and percolation area indicated on Dwg. No. C98-101-D2-4 Rev 1.

7.5. Foul Water Handling

- 7.5.1. Foul water from the waste transfer operations and the composting operations shall be directed to dedicated holding tanks.
- 7.5.2. The contents of the holding tanks are to be tankered off-site to a Waste Water Treatment Plant subject to Condition 3.13. The frequency of removal shall be such that a minimum of 10% spare capacity is maintained at all times in the holding tanks.
- 7.5.3. Upon completion of the Limerick Main Drainage Scheme foul water may be discharged from the facility using a foul sewer connection subject to the written permission of the Sanitary Authority. Discharge procedures shall be in accordance with any written requirements of the Sanitary Authority.
- 7.5.4. Emission limit values shall be as set in Schedule G.1 *Sewer Emission Limits* for discharges to sewer unless otherwise agreed with the Agency and the Sanitary Authority.

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 and submit amendments to the Agency for its agreement.
- 8.2. The licensee shall take into account the requirements of the European Communities Natural Habitats Regulation 1997 for any proposed works within the facility with potential to impact on the habitats and hydrological regime within the proposed Special Area of Conservation: Lower River Shannon (Site Code 002165).

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 F: *Monitoring* and as specified in the Conditions of this licence.

- 9.2. The licensee shall within three months from the date of grant of this licence, submit to the Agency for its agreement twelve figure National Grid References for all the environmental monitoring locations listed in Schedule F.
- 9.3. Noise monitoring as specified in Schedule F.5: *Noise* shall be carried out on an annual basis during operational hours. The first such monitoring shall be undertaken within six months of the date of the grant of this licence.
- 9.4. The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and off-site points (subject to the agreement of the relevant landowners) as required by the Agency. All ditches and drains located around the perimeter of the facility are to be kept clear such that monitoring can be carried out successfully.
- 9.5. The licensee shall maintain all sampling and monitoring points, and clearly label and name (including national grid number) all sampling and monitoring locations, so that they may be used for representative sampling and monitoring. All on-site monitoring points shall be tagged in situ with their agreed sampling point codes within ten months of the granting of this licence.
- 9.6. 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 or discharge or environmental parameter
- 9.7. 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.
- 9.8. Unless otherwise agreed with the Agency, a written record shall be kept of the names, qualifications and a summary of relevant experience 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.

Reason: *To ensure compliance with the requirements of other conditions of this licence by provision of a satisfactory system of measurement and monitoring of emissions.*

CONDITION 10 CONTINGENCY ARRANGEMENTS

- 10.1. 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.
- 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 burnt 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, within six months from the date of grant of this licence submit a report, including recommendations on the risk assessment to the Agency for its agreement. The Chief Fire Officer of Limerick County Council shall be consulted by the licensee during this assessment.
- 10.6. 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 reoccurrence 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 £7,320 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 2001 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Consumer Price Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 2000, the licensee shall pay a pro rata amount from the date of this licence to 31st December 2000. 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 activities to which this licence relates. A report on this assessment shall be submitted to the Agency for its agreement within six months of 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 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 :Waste Activities

Activities authorised by the licence shall be restricted to those described below.

Waste Management Act, 1996: Third Schedule ^{Note 1}	
Class 12.	<p>Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.</p> <p>This activity is limited to the transfer of non-recoverable waste into large articulated vehicles for transfer to landfill.</p>
Class 13.	<p>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.</p> <p>This activity is limited to the temporary storage of non-recoverable wastes prior to dispatch to landfill.</p>

Note 1: Any reference to an activity Class is to be taken as being from the Third Schedule of the Waste Management Act, 1996, unless otherwise stated.

Waste Management Act, 1996: Fourth Schedule ^{Note 1}	
Class 2.	<p>Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes):</p> <p>This activity is limited to temporary storage and recovery of cardboard and wood products separated from waste accepted at the facility and also to composting of wastes on site to a limit of 1,000 m³ at any one time at the facility subject to the prior written agreement of the Agency.</p>
Class 3.	<p>Recycling or reclamation of metals and metal compounds:</p> <p>This activity is limited to the recovery and temporary storage of metal waste separated from waste accepted at the facility.</p>
Class 4.	<p>Recycling or reclamation of other inorganic materials:</p> <p>This activity is limited to the segregation of glass bottles and to possible future recovery and temporary storage of construction and demolition wastes subject to the prior written agreement of the Agency.</p>
Class 13.	<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 storage of materials on site prior to recovery at the facility or removal to a recovery facility off-site.</p>

Note 1: Any reference to an activity Class is to be taken as being from the Fourth Schedule of the Waste Management Act, 1996, unless otherwise stated.

SCHEDULE B :Content of the Environmental Management Programme

Environmental Management Programme

Details of Operator

Name and Address of Operator and Site. Included should be contact names in respect of persons with managerial responsibility for site operations, including the facility manager. Relevant telephone numbers should also be given. All relevant drawings should be included in the EMP.

Types of Waste Accepted

A detailed description of the types of waste that can be accepted on the site should be given.

Quantity of Wastes Accepted

Details should be given on the annual quantity of waste taken into the site.

Engineering Details

Details of all significant site engineering works should be included. Where applicable the information should cover:

- fencing, gates and other security
- site access roads and secondary site roads
- offices, fuel stores etc.
- site infrastructure etc.

Operational Matters

These should include:

- description of the operations
- measures for the control of environmental nuisances
- measures for the control of emissions
- site opening and operating times
- access control
- waste acceptance procedures
- procedures for dealing with unacceptable wastes
- equipment to be utilised
- site personnel, including qualifications, duties and responsibilities
- monitoring and maintenance procedures
- trigger levels for emissions
- operational and safety rules (including safety statement)
- emergency procedures

Objectives and Targets

Objectives and targets for improving the environmental performance of the facility shall be detailed. These should include:

- emissions
- resource use
- wastes recycled.

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 C :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, disposed of and recovered during the reporting period and each previous year and the total amount of waste being held at the facility at the time of the report.

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.

Report on development works undertaken during the reporting period, and a timescale for those proposed for the coming year.

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, and bund testing and inspection report.

Reported Incidents and Complaints summaries.

Review of Nuisance Controls.

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

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

Any other items specified by the Agency.

SCHEDULE D :Recording and Reporting to the Agency

Table D.1 Recurring Reports

Report	Reporting Frequency <small>Note1</small>	Report Submission Date
Environmental Management System Updates	Annually	One month after the end of the year reported on.
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 and container integrity assessment	Every three years	Six months from the date of grant of licence and one month after end of the three year period being reported on.
Tank integrity assessment	5 yearly	Eighteen months from the date of grant of licence and one month after end of the year 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.
Any other monitoring	As they occur	Within ten days of obtaining results.

Note 1: Unless altered at the request of the Agency

SCHEDULE E : Specified Engineering Works

Specified Engineering Works
Development of waste storage areas.
Installation of sumps or other drainage controls.
Installation of groundwater control and/or monitoring systems.
Installation of bunded fuel storage areas.
Installation of increased waste processing capacity.
Installation of waste processing or other equipment.
Any other works notified by the Agency.

SCHEDULE F : Monitoring

Monitoring to be carried out as specified below.

F.1: Surface Water

Table F.1.1 Surface Water Monitoring Locations

STATION	EASTING	NORTHING
WS1	Note 1,2	Note 1,2
WS1a	Note 1,2	Note 1,2
WS1b	Note 1,2	Note 1,2
WS2	Note 1,2	Note 1,2
WS3	Note 1,2	Note 1,2
WS5 ^{Note 3}	Note 2	Note 2

Note 1: Locations as indicated on C98-101-C9-02 received by the Agency on the 7th April 1999.

Note 2: Grid references to be provided within 3 months of the date of grant of licence (Condition 9.2).

Note 3: Additional Location on eastern boundary of facility to be agreed with the Agency.

Table F.1.2 Monitoring Frequency for Surface Water

Parameter	Surface Water Monitoring Frequency
Visual Inspection	Weekly
Ammoniacal nitrogen	Quarterly
BOD	Quarterly
Suspended Solids	Quarterly
Fats, Oil, Grease	Quarterly
Dissolved Oxygen	Quarterly
Electrical Conductivity	Quarterly
Phosphorus (total)	Biannually
Volumes	Quarterly (Note 1)

Note 1: Volume of flow from on-site sewage treatment plant only

F.2: Monitoring of Emissions to Groundwater

Table F.2.1 Monitoring of sewage treatment plant

STATION	EASTING	NORTHING
WS4 ^{Note 1}	Note 2	Note 2

Note 1: Emission point at outlet from on-site sewage treatment plant.

Note 2: Grid references to be provided within 3 months of the date of grant of licence (Condition 9.2).

F.3: Monitoring of Emissions to Sewer

Table F.3.1 Foul Water Monitoring Locations

STATION	EASTING	NORTHING
FW1	Note 1,2	Note 1,2
FW2	Note 1,2	Note 1,2

Note 1: FW1 refers to holding tank for washing of transfer building. FW2 refers to holding tanks for run-off from compost operations

Note 2: Grid references to be provided within 3 months of the date of grant of licence (Condition 9.2).

F.3.2 Sewer Monitoring Location

Location to be agreed upon agreement with the Sanitary Authority.

Grid reference to be submitted to the Agency within one month of the date of connection to sewer.

Table F.3.3 Sewer Monitoring Parameters and Frequencies

(upon connection to Limerick Main Drainage Scheme)

Parameter	Monitoring Frequency	Analysis Method/Technique
Flow	Weekly	Flowmeter
Ammoniacal Nitrogen	Quarterly	ISE / Colorimetry
BOD	Quarterly	Electrometry / Titrimetry with nitrification inhibitor
COD	Quarterly	Digestion, Colorimetry / Titrimetry
Fats, oils, grease	Quarterly	Extraction with solvent and gravimetry
Detergents (as MBAS)	Quarterly	Standard Method
Odour / Visual Inspection	Quarterly	Not applicable
pH	Quarterly	Electrometry
Temperature	Quarterly	Thermometry
Total Suspended Solids	Quarterly	Gravimetry
Sulphate (as SO ₄)	Annually	Ion Chromatography / Turbidimetric / Colorimetry

F.4: Dust

Dust monitoring locations shall be those as set out in Table F.4.1.

Table F.4.1 Dust Monitoring Locations ^{Note 1}

STATION	EASTING	NORTHING
DM1	Note 2	Note 2
DM2	Note 2	Note 2
DM3	Note 2	Note 2

Note 1: Locations as indicated on C98-101-C1-01 received by the Agency on the 11th November 1998.

Note 2: Grid references to be provided within 3 months of the date of grant of licence (Condition 9.2).

Table F.4.2 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, or as otherwise specified in writing by the Agency.

F.5: Noise

Noise monitoring locations shall be those as set out in Table F.5.1.

Table F.5.1 Noise Monitoring Locations

STATION	EASTING	NORTHING
NI1	Note 1	Note 1
NI2	Note 1	Note 1
NI3	Note 1	Note 1
NI4	Note 1	Note 1

Note 1: Grid references to be provided within three months of the date of grant of this licence (Condition 9.2).

Table F.5.2 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."

SCHEDULE G :Emission Limits

G.1: Sewer Emission Limits (upon completion of Limerick Main Drainage Connection)
 Emission Point Reference No: Location to be agreed with the Limerick County Council
 Volume to be emitted: Maximum in any one day: 6 m³

Table G.1 Sewer Emission Limits (Note 1)

Parameter	Emission Limit Value
	Daily Mean Concentration (mg/l)
BOD	10,000
COD	30,000
Suspended solids	2000
Fats, Oils, Grease	100
Ammoniacal Nitrogen	50
Temperature	42
Sulphates (as SO ₄)	500
Detergents (as MBAS)	500
PH	6-9

Note 1: Sewer connection reference point to be provided upon connection to Sanitary Authority sewer.

G.2 Dust Deposition Limits: (Measured at the monitoring points indicated in Table F.4.1).

Level (mg/m ² /day) ^{Note 1}
350

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

G.3 Noise Emissions: (Measured at the monitoring points indicated in Table F.5.1).

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

SCHEDULE H : Waste Acceptance

Table H.1 Waste Categories and Quantities

WASTE TYPE	MAXIMUM TONNES PER ANNUM
Commercial and Household	42,000
Construction and Demolition Waste	30,000
Industrial Non-hazardous Wastes	3,000
TOTAL	75,000

Sealed by the seal of the Agency on this 19th day of May, 2000

**PRESENT when the seal
Was affixed hereto:**

Anne Butler Director/Authorised Person