



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

WASTE LICENCE
PROPOSED DECISION

Waste Licence	61-2
Register Number:	
Applicant:	Mr Binman Limited
Location of Facility:	Luddenmore, Grange, Kilmallock, County Limerick

INTRODUCTION

This introduction is not part of the licence and does not purport to be a legal interpretation of the licence.

“The facility is an existing licensed waste transfer station which accepts municipal, commercial, construction and demolition wastes. The application is for a review of the licence, principally for the purpose of increasing the allowable annual tonnage intake. Waste transported to the facility is either compacted and transported to landfill for disposal or separated for recycling. Infrastructure at the facility includes a picking station for the further segregation of separately collected dry recyclables, a cardboard baler, an aluminium can baler and a glass processing plant for glass recycling. A civic amenity site may be included at a later date subject to Agency agreement on certain design and operational details”.

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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 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 Mr. Binman Limited to carry on the waste activity/activities listed below at Luddenmore, Grange, Kilmallock, Co. Limerick subject to 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 in a preceding paragraph of this Schedule. Reason: This is the principal activity. It involves the compaction of waste in the transfer building prior to transportation to landfill.
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. Reason: This refers to the storage on-site of waste for disposal prior to removing it to an appropriate facility/premises

Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Act 1996

Class 2.	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes): This activity is limited to the removal of timber from waste and the composting of biodegradable waste (subject to a maximum intake of 5,000 tonnes per annum).
Class 3.	Recycling or reclamation of metals and metal compounds: This activity is limited to the recovery of metals from waste e.g. aluminium cans.
Class 4.	Recycling or reclamation of other inorganic materials: This activity is limited to the recovery of inorganic materials such as construction and demolition waste and glass.
Class 10.	The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system: This activity is limited to the landspreading of compost that has been produced on-site, subject to the agreement of the Agency.
Class 13.	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced: This activity is limited to the storage of recyclable materials that have been recovered from waste prior to further processing either on-site or at another facility.

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.
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.
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 9.4
Emission Limits	Those limits, including concentration limits and deposition levels established in <i>Schedule C: Emission Limits</i> , of this licence.
EPA Working Day	Refers to the following hours; 9.00 a.m. to 5.30 p.m. Monday to Friday inclusive.
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. Trucks may only enter and leave the facility during the hours of operation.
Hours of Waste Acceptance	The hours during which the facility is authorised to accept waste.
Industrial Waste	As defined in Section 5(1) of the Act.
Inert waste	Waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater.
Licence	A Waste Licence issued in accordance with the Act.
Licensee	Mr Binman Ltd.
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.
Monthly	A minimum of 12 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).
Quarterly	At approximately three monthly intervals.
Recyclable Materials	Those waste types, such as cardboard, batteries, gas cylinders, etc, which may be recycled
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.
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 water	Sewage and drainage from waste transfer building, and run-off from hardstanding areas associated with waste processing.
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.

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 the Drawing referred to as 'Site Location Map' of attachment B.2 of the application. Any reference in this licence to "facility" shall mean the area thus outlined in red.
- 1.3. This licence is for the purposes of waste licensing under the Waste Management Act 1996 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.4. The maximum tonnage to be accepted at the facility shall not exceed 105,000 tonnes per annum, subject to the restrictions set out in *Schedule A: Waste Acceptance* and Condition 11.4 of this licence.
- 1.5. Only those waste categories and quantities listed in *Schedule A: Waste Acceptance*, of this licence, shall be accepted at the facility.
- 1.6. No hazardous wastes or liquid wastes shall be accepted at the facility.
- 1.7. Waste Acceptance Hours and Hours of Operation
 - 1.7.1. Waste shall only be accepted at the facility between the hours of 8.00a.m. and 6.30p.m. Monday to Friday inclusive and 8.00a.m. to 2.00p.m. on Saturdays.
 - 1.7.2. The facility shall only be operated during the hours of 7.00a.m. and 7.00p.m. Monday to Friday inclusive and 7.00a.m. and 2.30p.m. on Saturdays.
 - 1.7.3. Waste shall not be accepted at the facility on Sundays or on Bank Holidays.
- 1.8. 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.
- 1.9. 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:
 - 1.9.1. 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;

1.9.2 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

1.9.3 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 permission is received from the Agency.

1.10 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.

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

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
- 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 eighteen months (shorter period for new facilities) from the date of 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 shall be established within three months of the date of grant of this licence.

REASON: *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.*

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 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 Roads and Hardstanding

- 3.4.1 Effective site roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.
- 3.4.2 The licensee shall provide, and maintain an impermeable hardstanding surface in all the areas of the facility used for truck parking and the handling and storage of waste.

3.5 Facility Office

- 3.5.1 The licensee shall maintain an office at the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
- 3.5.2 The licensee shall provide and maintain a working telephone and a method for electronic transfer of information at the facility.
- 3.6 Waste Inspection and Quarantine Areas
- 3.6.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained at the facility.
- 3.6.2 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.
- 3.6.3 Drainage from these areas shall be directed to the on-site wastewater treatment plant.
- 3.7 Weighbridge and Wheel Cleaning
- 3.7.1 The licensee shall provide and maintain a weighbridge and wheelwash/vehicle wash /dry wheel shake at the facility.
- 3.8 The glass processing area and glass and bottle storage bays shall be completely enclosed within twelve months of the date of grant of this licence.
- 3.9 Waste handling, ventilation and processing plant
- 3.9.1 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.
- 3.9.2 Within three months from the date of grant of this licence, the licensee shall provide a report for the agreement of the Agency detailing the duty and standby capacity in tonnes per day, of all waste handling and processing equipment to be used at the facility. These capacities shall be based on the licensed waste intake, as per *Schedule A: Waste Acceptance*, of this licence.
- 3.9.3 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.
- 3.10 Waste Water Treatment Plant
- The licensee shall provide and maintain a Waste Water Treatment plant at the facility for the treatment of waste water arising on-site. Any percolation area shall satisfy the criteria set out in the Wastewater Treatment Manual, *Treatment Systems for Single Houses*, published by the Environmental Protection Agency.
- 3.11 Tank and Drum Storage Areas

- 3.11.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein.
- 3.11.2 All 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.
- 3.11.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.11.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.11.5 The integrity and water tightness of all the 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.

3.12 Silt Traps and Oil Separators/Inceptors

The licensee shall install and maintain a silt trap and oil interceptor at the facility to ensure that all surface water discharges from the facility pass through a silt trap and Class 1 oil interceptor prior to discharge. The interceptor shall be in accordance with European Standard prEN 858 (installations for the separation of light liquids).

3.13 Drainage system, pipeline testing

- 3.13.1 Within three 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 discharge gullies, drainage grids and manhole covers shall be painted with blue triangles.
- 3.13.2 The drainage system, treatment plant, 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.
- 3.13.3 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 Construction and Demolition Waste Recovery Area

- 3.14.1 Within 12 months of the date of grant of this licence, the licensee shall provide and maintain an appropriately sized construction and demolition waste storage area. This infrastructure shall at a minimum comprise the following:
 - a) an impermeable concrete slab; and
 - 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.
- e) Within two months of the installation of the construction and demolition waste storage area the licensee shall review the measures in place to minimise dust generation at this facility and shall provide a report to the Agency for its agreement, making recommendations on the necessity of installing a sprinkling irrigation system for the control of dust nuisance from the facility. Any remedial works recommended in this report must be implemented within a time-scale to be agreed with the Agency.

3.15 Civic Waste Facility

3.15.1 Prior to the establishment of a Civic Waste Facility (CWF) for use by members of the public the licensee shall submit a report for the agreement of the Agency detailing the following:

- a) The location, size and design of the CWF,
- b) The types of waste proposed to be accepted at the facility and the names and waste permit/ licence numbers of the destination facilities of processed waste,
- c) The proposed hours of operation of the CWF,
- d) Any additional security control measures,
- e) Any necessary updates to the communications programme to provide information to members of the public in relation to the CWF,
- f) The details (including was permit/licence numbers) of the destination facilities for the wastes collected, any additional security measures proposed,
- g) Any necessary updates to the communications programme to provide information to members of the public in relation to the CWF.

3.15.2 The CWF shall only be used by private vehicles.

3.15.3 All waste deposited in the CWF shall be either:

- (a) into a skip;
- (b) into the hopper of the compactor for disposal;
- (c) into a receptacle for recovery; or
- (d) in the case where inspection is required, into a designated inspection area.

3.15.4 The licensee shall assign and clearly label each container at the CWF to indicate their contents.

3.15.5 All waste accepted at the CWF for disposal off-site shall be removed within 24 hours of its arrival on-site.

3.16 Composting Infrastructure

Unless otherwise agreed with the Agency the licensee shall maintain composting infrastructure at the facility as described in Section D.1.r of the response to Article 16 notice received y the Agency on 16/02/02.

3.17 Monitoring Infrastructure

Groundwater

- 3.17.1 Within six months from the date of grant of this licence, the licensee shall install one upgradient and one downgradient groundwater monitoring borehole to allow for the sampling and analyses of groundwater.

3.18 Replacement of Infrastructure

- (i) 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.

REASON: *To provide appropriate infrastructure for the protection of the environment.*

CONDITION 4 RESTORATION AND AFTERCARE

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

REASON: *To provide for the restoration of the facility*

CONDITION 5 FACILITY OPERATIONS

- 5.1 Unless otherwise agreed with the Agency all waste processing shall be carried out inside the waste transfer building or other enclosed structures as agreed with the Agency.
- 5.2 Waste Acceptance and Characterisation Procedures
- 5.2.1 The licensee shall maintain detailed written procedures for the acceptance and handling of wastes. These procedures should be updated and submitted to the Agency prior to the commencement of any new waste processing operations.
- 5.2.2 Waste arriving at the facility shall be inspected at the point of entry to the facility and subject to this inspection, weighed, documented and directed to the Waste Transfer Building, the glass processing area or other enclosed structure as agreed with the Agency. Each load of waste arriving at the Waste Transfer Building shall be inspected upon tipping within this building. Only after such inspections shall the waste be processed for disposal or recovery.
- 5.2.3 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.
- 5.2.4 A record of all inspections of incoming waste loads shall be maintained.

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

5.3 Operational Controls

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

5.3.2 Unless otherwise agreed with the Agency a maximum of six full enclosed articulated trucks and ten full enclosed bin trucks may be stored at the facility overnight.

5.3.3 Scavenging shall not be permitted at the facility.

5.3.4 Gates shall be locked shut when the facility is unsupervised.

5.3.5 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.

5.3.6 Fuels shall only be stored at appropriately bunded locations on the facility.

5.3.7 All tanks and drums shall be labelled to clearly indicate their contents.

5.3.8 No smoking shall be allowed on the facility, other than in designated areas, as agreed with the Agency.

5.4 Compost

5.4.1 Compost of Class 2 Standard shall be considered a product. All landspreading of compost Class 2 Standard shall be in accordance with best agronomic practice. Notwithstanding this, it shall be used in a quantity not exceeding 30 tonnes dry matter per hectare (on a three year average).

5.4.2 Compost of Class 1 Standard shall be considered a product. All landspreading of compost of Class 1 Standard shall be in accordance with best agronomic practice.

5.4.3 The recovery or disposal of compost not reaching the standards designated Class 1 or Class 2, shall be recorded as required under Condition 10.2.

5.4.4 All waste water from composting operations shall drain to the waste water treatment system.

5.4.5 No waste shall be deposited outside the biodegradable waste composting vessel.

5.4.6 Unless otherwise agreed with the Agency, only garden waste and separately collected compostable kitchen waste shall be accepted for composting at the facility.

5.4.7 In the course of the in vessel composting process the entire quantity of the biowaste shall be mixed and exposed to a temperature of $\geq 60^{\circ}\text{C}$ for a period of one week.

5.5 Off-site Disposal and Recovery

5.5.1 Waste sent off-site for recovery or disposal shall only be conveyed by a waste contractor agreed by the Agency;

- 5.5.2 All waste transferred from the facility shall only be transferred to an appropriate facility agreed by the Agency;
- 5.5.3 All wastes removed off-site for recovery or disposal shall be transported from the facility to the consignee in a manner which will not adversely affect the environment.
- 5.6 Construction and Demolition Waste Recovery Area
- 5.6.1 Only Construction and Demolition waste shall be accepted at this Area. Wastes which are capable of being recovered shall be separated and shall be stored temporarily in this area prior to being subjected to other recovery activities at the facility or transport off the facility.
- 5.6.2 All stockpiles shall be maintained so as to minimise dust generation.
- 5.7 Wastewater Management
- 5.7.1 Within six months of the date of grant of this licence the licensee should ensure the following:
- a) that clean roof runoff is directed to a soakpit or otherwise directed from the wastewater treatment plant, as stated in Section D.1.1 of the application.
 - b) that runoff from all impermeable hardstanding areas of the site other than those used for the handling and storage of waste, other than inert waste, should be directed to a silt trap and discharged via a soakpit.
 - c) canteen effluent should be discharged to the wastewater treatment plant via an appropriate oil interceptor.
 - d) the on-site wastewater treatment plant should be assessed in terms of its capacity to treat the required volumes and types of wastewater arising at the facility and a report submitted to the Agency detailing any necessary upgrades to the system, and timeframes for their implementation.
 - e) effluent from the vehicle washing system should be quantified and characterised within three months of the date of grant of this licence. A report should be submitted to the Agency outlining the most appropriate treatment options for this effluent.
- 5.7.2 Within two months of the date of grant of this licence the licensee should seek agreement from the owners/operators of an appropriate wastewater treatment plant to tanker effluent generated at the facility offsite, as and when it is necessary. The details of any such agreement should be submitted to the Agency for approval.
- 5.7.3 In the case that odour, visual inspection or monitoring of the treatment system indicates that the system is not operating effectively or not meeting the specified emission limits in this licence, arrangements should immediately be made to tanker waste water off-site in fully enclosed road tankers to a Wastewater Treatment Plant as agreed with the Agency and disposed of there. An appropriate tanker should be made available for this purpose.
- 5.7.4 Within two months of the date of grant of this licence, and until such time as the works required to comply with Condition 5.7.1 have been carried out, waste water generated at the facility shall be stored on-site in appropriate storage tanks and tankered off-site in fully enclosed road tankers to a Wastewater Treatment Plant as agreed with the Agency for disposal.

5.7.5 The exact location of the local group water scheme pipework in the environs of the facility should be discovered and recorded. A report should be prepared regarding same. The report should be maintained at the facility for the information of the public.

5.8 Maintenance

5.8.1 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.

5.8.2 The licensee shall maintain and clearly label and name all sampling and monitoring locations.

5.8.3 The wheel-wash 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.

5.8.4 The licensee shall maintain the balers, compactors, hoppers and shredder in accordance with the manufacturer/supplier or installer's instructions.

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 emissions do not result in significant impairment of, or significant interference with 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 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.

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

CONDITION 7 NUISANCE CONTROL

- 7.1 The licensee shall ensure that vermin, birds, flies, mud, dust, 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 F.5 shall be applied to control litter at the facility.
- 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 licence, 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.
- 7.3.3. The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.
- 7.4 Dust/Odour Control
- 7.4.1 All waste for disposal stored overnight at the facility, shall be stored in suitably covered and enclosed containers within the Waste Transfer Building, and shall be removed from the facility within forty eight hours of its arrival at the facility.
- 7.4.2 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.
- 7.5 Prior to exiting the facility, all waste vehicles shall use the wheelwash.
- 7.6 Noise
- 7.6.1. The use of noise generating equipment or the carrying out of noise generating activities at the facility, other than trucks leaving the facility, shall not commence before 8a.m. each morning.
- 7.7 Traffic awaiting access to the facility shall queue along the facility site access road only, and not along the public road.
- 7.8 The licensee shall limit the use of security lighting at night, to avoid nuisance and visual intrusion.

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. Unless otherwise specified by this licence, all

environmental monitoring shall commence no later than two months after the date of grant of 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.

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. 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 fire water 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;

9.4.4. In the event that monitoring of local wells indicates that the facility is having a significant adverse effect on the quantity and/or quality of the water supply this shall be treated as an emergency and the licensee shall provide an alternative supply of water to those affected;

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

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.

10.2 The licensee shall maintain a written record for each load of waste arriving at and departing from the facility, excluding those arriving at the Civic Waste Facility. The licensee shall record the following:

- a) the date;
- b) the name of the carrier (including if appropriate, the waste carrier registration details);
- c) the vehicle registration number;
- d) the name of the producer(s)/collector(s) of the waste as appropriate;
- e) 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; and,
- 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,
- 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; and
- 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, in a format to be agreed with the Agency, shall be kept of each consignment of waste water removed from the facility.
- 10.6 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.
- 10.7 A written record shall be kept at the facility of the programme for the control and eradication of vermin and fly 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.

REASON: *To provide for the keeping of proper records of the operation of the facility*

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 Regional Inspectorate, Inniscarra, Cork;
 - (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 with 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; and
- c) 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 Waste Recovery Reports

Within nine months of the date of grant of this licence, a report examining waste recovery options shall be submitted to the Agency for its agreement. This report shall address methods to contribute to the achievement of the recovery targets stated in national and European Union waste policies and shall include 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 from the waste;
- c) the recovery of Construction and Demolition Waste;
- d) the recovery of metal waste and white goods including written procedures for the de-gassing of CFC's from refrigerators;
- e) the recovery of commercial waste, including cardboard;
- f) composting of biodegradable or green waste at the facility having regard to good practice and sustainability;
- g) inert waste to be used for cover/restoration material at the facility;

11.4 Waste Tonnage

Should the licensee propose to increase the annual throughput of the facility over 87,500 tonnes per annum any such proposal, (refer to *Schedule A: Waste Acceptance*, of this licence) must, as a minimum demonstrate that the facility is capable of dealing with the proposed tonnage increase, and the licensee must obtain the written agreement of the Agency.

11.5 Monitoring Locations

Within three months of the date of grant of this licence, the licensee shall submit to the Agency an appropriately scaled drawing(s) showing all the monitoring locations that are stipulated in this licence. The drawing(s) shall include the reference code of each monitoring point.

11.6 Annual Environmental Report

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

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

11.7 Groundwater Monitoring Boreholes

A report by a qualified hydrogeologist detailing the groundwater flow direction and the proposed locations of the groundwater monitoring boreholes should be submitted to the Agency for agreement within six months of the date of grant of this licence. The report should include all relevant hydrogeological data.

REASON: *To provide for proper reporting and notification of the Agency.*

CONDITION 12 CHARGES AND FINANCIAL PROVISIONS

12.1 Agency Charges

12.1.1 The licensee shall pay to the Agency an annual contribution of €15,777 or such sum as the Agency from time to time determines, towards the cost of monitoring the activity or otherwise in performing any functions in relation to the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996. The licensee shall in 2002 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Public Sector Average Earnings Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 2002 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 Closure, Restoration and Aftercare

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 six 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. Such provision shall be maintained by the licensee 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) ^{Note 1}	MAXIMUM (TONNES PER ANNUM) (subject to Condition 11.4) ^{Note 2}
Commercial	30,000	(to be agreed)
Domestic	55,000	(to be agreed)
Construction and Demolition	2,500	(to be agreed)
TOTAL	87,500	105,000

Note 1: This refers to the maximum tonnes per annum until the requirements of Condition 11.4 have been met, and the written agreement of the Agency has been given.

Note 2: This refers to an increase in the allowable annual tonnage over 87,500 at the facility, to a possible maximum of 105,000, subject to compliance with Condition 11.4.

SCHEDULE B : Specified Engineering Works

Specified Engineering Works
Installation of dust/odour system
Installation of waste handling, processing, recycling/recovery infrastructure and installation of increased waste processing capacity
Installation of Civic Waste Facility
Installation of trommel and rubble crusher
Installation of any additional composting infrastructure/ processing capacity
Any other works notified in writing by the Agency.

SCHEDULE C : Emission Limits

C.1 Noise Emissions: (Measured at the monitoring points indicated in [Table D.1.1](#)).

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 Waste Water Emissions Limits

Emission Point Reference No. TE1
 Volume to be emitted: Maximum in any week 2.5m³/week ^(Note 1)
 Maximum rate per hour: 0.45 m³/hr

Parameter	Emission Limit Value
	Grab Sample (mg/l)
PH	6-9
BOD	20
Suspended solids	30
Oils, fats and grease	None visible

Note 1: This volume can be increased subject to the agreement of the Agency

C.4 Emission Limit Values from Biodegradable Waste Composting

Emission Point Reference No. BW1 (emission point from Biodegradable waste composting unit)

Parameter	Emission Limit Value
Total Particulates	50 mg/m ³
Ammonia	50 (ppm v/v)
Amines	5 (ppm v/v)
Hydrogen Sulphide & Mercaptans	5 (ppm v/v)

SCHEDULE D : Monitoring

Monitoring to be carried out as specified below.

D.1 Monitoring Locations

Monitoring locations shall be those as set out in Table D.1.1.

Table D.1.1 Noise, dust and waste water Monitoring Locations

NOISE STATIONS Note 1	DUST STATIONS Note 2	WASTE WATER STATIONS Note 3	COMPOSTING UNIT STATIONS Note 4	GROUNDWATER STATIONS Note 5
1	G	TE1	BW1	GW1
2	C			GW2
3	E			

Note 1: Noise monitoring location 1 refers to the Ryan residence, No 2 the Power residence and 3 the Henessy residence as referred to in Attachment J.7 of the application.

Note 2: Dust monitoring locations are those labelled as G, C and E of the application drawing entitled 'Location of passive dust collectors'.

Note 3: FE1 is the emission point from the outlet of the wastewater treatment plant prior to entry to the percolation area.

Note 4: BW1 is the outlet vent from the biodegradable waste treatment vessel.

Note 5: GW1 refers to an upstream groundwater monitoring location, and GW2 refers to a downstream groundwater monitoring location to be agreed with the Agency, as per Condition 3.16.

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

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

D.4 Waste water Emissions

Table D.4.1 Waste water Monitoring Frequency and Techniques

Parameter	Monitoring Frequency	Analysis Method/Technique
PH	Biannually	Electrometry
Biological Oxygen Demand	Biannually	Standard Methods ^{Note 1}
Suspended Solids	Biannually	Standard Methods ^{Note 1}
Fats, Oils, Grease	Biannually	Standard Methods ^{Note 1}
Temperature	Biannually	Temperature probe
Ammoniacal nitrogen	Biannually	Standard Methods ^{Note 1}
Volume	Biannually	To be agreed

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 Groundwater Monitoring

Parameter	Monitoring Frequency	Analysis Method/Technique
PH	Biannually	Electrometry
Electrical Conductivity	Biannually	Standard Methods ^{Note 1}
Total Organic Carbon	Biannually	Standard Methods ^{Note 1}
Ammoniacal nitrogen	Biannually	Standard Methods ^{Note 1}
Total Phosphorus	Biannually	Standard Methods ^{Note 1}
Total Nitrogen	Biannually	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.

SCHEDULE E : Recording and Reporting to the Agency

Report	Reporting Frequency ^{Note 1}	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 calendar year thereafter.
Record of incidents	As they occur	Within five days of the incident.
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.
Specified Engineering Works reports	As they arise	Prior to the works commencing.
Monitoring of Groundwater Quality	Biannually	Ten days after end of the period being reported on.
Monitoring of Waste water	Biannually	Ten days after end of the period being reported on.
Dust Monitoring	Three times a year	Ten days after the period being reported on.
Noise Monitoring	Biannually	Ten days after the period being reported on.
Compost Monitoring	Upon commencement and biannually	Ten days after the period being reported on.
Any other monitoring	As they occur	Within ten days of obtaining results.

Note 1: Unless altered at the request of the Agency

SCHEDULE F : Standards for Compost Quality

Compost shall be deemed unsatisfactory if more than 25% of samples fail the criteria below. No sample shall exceed 1.2 times the quality limit values set.

The following criteria are deemed a quality standard for the use of compost as a soil improver and should not be deemed as criteria for fertiliser. In addition N, P, K, NH₄-N, NO₃-N, pH and dry matter content should also be measured.

1. Maturity (Compost)

The state of the curing pile must be conducive to aerobic biological activity.

Compost shall be deemed to be mature if it meets two of the following groups of requirements:

1. Respiration activity after four days AT₄ is ≤10mg/O₂/g dry matter or Dynamic Respiration Index is ≤1,000mgO₂/kg VS/h.
2. Germination of cress (*Lepidium sativum*) seeds and of radish (*Raphanus sativus*) seeds in compost must be greater than 90 percent of the germination rate of the control sample, and the growth rate of plants grown in a mixture of compost and soil must not differ more than 50 percent in comparison with the control sample.
3. Compost must be cured for at least 21 days; and
Compost will not reheat upon standing to greater than 20°C above ambient temperature.
4. If no other determination of maturity is made, the compost must be cured for a six month period. In addition, offensive odours from the compost shall be minimal for the compost to be deemed mature.
5. Or other maturity tests as may be agreed with the Agency.

2. Trace Elements (Compost) ^{Note 1 & 2}

Maximum Trace Element Concentration Limits ^{Note 3}

Parameter (mg/kg, dry mass)	Compost/Digestate Quality Standards ^{Note 4}		Stabilised Biowaste
	Class 1	Class 2	
Cadmium (Cd)	0.7	1.5	5
Chromium (Cr)	100	150	600
Copper (Cu)	100	150	600
Mercury (Hg)	0.5	1	5
Nickel (Ni)	50	75	150
Lead (Pb)	100	150	500
Zinc (Zn)	200	400	1500
PolyChlorinated Biphenyls (PCB's)	-	-	0.4
Polynuclear Aromatic Hydrocarbons (PAH's)	-	-	3
Impurities >2mm ^{Note 5}	<0.5%	<0.5%	<3%
Gravel and Stones >5mm ^{Note 5}	<5%	<5%	-

Note 1: These limits apply to the compost just after the composting phase and prior to mixing with any other materials.

Note 2: Incoming sludges shall be monitored quarterly (on a client by client basis) for the parameters outlined in this table.

Note 3: The above alone should not be taken as an indication of suitability for addition to soil as the cumulative metal additions to soil should be first calculated.

Note 4: Normalised to 30% organic matter content

Note 5: Compost must not contain any sharp foreign matter measuring over a 2 mm dimension that may cause damage or injury to humans, animals and plants during or resulting from its intended use.

3. Pathogens (Compost)

Pathogenic organism content must not exceed the following limits:

<i>Salmonella sp.</i>	Absent in 50g	n=5
<i>Faecal Coliforms</i>	≤ 1000 Most Probable Number (MPN) in 1g	n=5

Where: n = Number of samples to be tested;

4. Monitoring

The licensee shall submit to the Agency for its agreement, prior to commencement of compost operations, details of methods of analyses, methods of sampling and sample numbers.

The analyses shall be carried out: every six months.

SCHEDULE G :Content of the Annual Environmental Report

Annual Environmental Report Content

Reporting Period.

Waste activities carried out at the facility.

Review of security measures required at the facility, and a report on the implementation on any proposed new measures.

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

Summary report on emissions

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 waste water produced and volume of waste 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 10th day of October 2002

Claire Fahy, **Authorised Person**