

AMENDMENT UNDER SECTION 76(4) OF THE WASTE MANAGEMENT ACTS, 1996 to 2003

This licence was amended on 17/10/2005 under Section 76(4) of the Waste Management Acts, 1996 to 2003. The details of the amendment must be read in conjunction with the licence. The amendment document is titled 148-1S76(4)Amendment A.doc.

**LICENCE REG NO W0148-01 HAS BEEN TRANSFERRED.**  
**Please note that licence Reg No. W0148-01 was transferred to The City Bin Company Limited on 01/05/2007. For further information on this please refer to Transfer Notification on the Agency's website.**



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

## WASTE LICENCE

<b>Waste Licence Register Number:</b>	148-1
<b>Licensee:</b>	Dean Waste Company Limited
<b>Location of Facility:</b>	Townlands of Carrowmoneash, Oranmore, County Galway

# INTRODUCTION

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

This licence is for the operation of a waste transfer station in the townland of Carrowmoneash, Oranmore, County Galway.

Dean Waste Company Limited will be licensed to accept only non-hazardous wastes (household, commercial and industrial waste) and construction and demolition wastes at this facility. These wastes will be processed within a waste transfer building with some materials (e.g. metal, wood) being removed and recovered and the residual waste sent to landfill. Construction and demolition waste may also be processed and recovered. The quantity of waste to be accepted at the facility is limited to 60,000 tonnes within the first 2 years of operation rising to a maximum of 130,000 tonnes within 6 years of operation. The licensee will be required to have adequate equipment for the processing of whatever quantity of waste is accepted on site, subject to a maximum of 130,000 tonnes.

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

The conditions of this licence set out in detail the legal constraints under which Dean Waste Company Limited will operate and manage this facility.

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# DECISION & REASONS FOR THE DECISION

## *Reasons for the Decision*

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

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

## *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 Dean Waste Company Limited to carry on the waste activities listed below at the townlands of Carrowmoneash, Oranmore, County Galway 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*

<b>Class 11.</b>	<b>Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.</b>  This activity is limited to bulking and transfer of waste
<b>Class 13.</b>	<b>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.</b>  This activity is limited to storage prior to bulking and transfer of waste

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

<b>Class 2.</b>	<b>Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes):</b>  This activity is limited to recovery of paper, wood, plastic and organic waste
<b>Class 3.</b>	<b>Recycling or reclamation of metals and metal compounds:</b>  This activity is limited to the recovery of metals
<b>Class 4.</b>	<b>Recycling or reclamation of other inorganic materials:</b>  This activity is limited to recovery of glass and construction & demolition waste.
<b>Class 13.</b>	<b>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:</b>  This activity is limited to the storage of waste prior to recovery

# 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.

<b>Aerosol</b>	A suspension of solid or liquid particles in a gaseous medium.
<b>Adequate lighting</b>	20 lux measured at ground level.
<b>Agreement</b>	Agreement in writing.
<b>Annually</b>	At approximately twelve monthly intervals.
<b>Attachment</b>	Any reference to Attachments in this licence refers to attachments submitted as part of the waste licence application.
<b>Application</b>	The application by the licensee for this waste licence.
<b>Appropriate facility</b>	A waste management facility authorised under relevant law & technically suitable.
<b>Bi-annually</b>	All or part of a period of six consecutive months.
<b>Biodegradable waste</b>	Any waste that is capable of undergoing anaerobic or aerobic decomposition, such as food, garden waste, sewage sludge, paper and paperboard.
<b>Condition</b>	A condition of this licence.
<b>Consignment Note</b>	Movements of hazardous waste within Ireland must be accompanied by a “C1” consignment note issued by a local authority under Waste Management (Movement of Hazardous Waste) Regulations (SI No 147 of 1998). Transfrontier shipment notification & movement/tracking form numbers are required for all exports of waste from, into or through the state under Waste Management (Transfrontier Shipment of Waste) Regulations (SI No 149 of 1998).
<b>Construction and Demolition Waste</b>	All wastes which arise from construction, renovation and demolition activities.
<b>Containment boom</b>	A boom which contains spillages & prevents them entering drains/watercourses.
<b>Daytime</b>	8.00 a.m. to 10.00 p.m.
<b>Documentation</b>	Any report, record, result, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.
<b>Drawing</b>	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
<b>Emergency</b>	Those occurrences defined in Condition 9.4
<b>Emission Limits</b>	Those limits, concentration limits & deposition levels in <i>Schedule C: Emission Limits</i> , of this licence.
<b>European Waste Catalogue (EWC)</b>	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 EC.
<b>Foul water</b>	Sewage and drainage from waste transfer building, wheelwash, truck wash,

ramp, weighbridges vehicle cleaning and ejector trailer parking areas.

<b>Green waste</b>	Waste wood (excluding timber) & plant matter <i>eg</i> grass cuttings & vegetation.
<b>Hours of Operation</b>	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 clean-up etc.
<b>Hours of Waste Acceptance</b>	The hours during which the facility is authorised to accept waste.
<b>Industrial Waste</b>	As defined in Section 5(1) of the Act.
<b>Landfill Directive</b>	Council Directive 1999/31/EC
<b>Licence</b>	A Waste Licence issued in accordance with the Act.
<b>Licensee</b>	Dean Waste Company Limited, Carrowmoneash, Oranmore, County Galway
<b>Liquid Waste</b>	Any waste in liquid form and containing less than 2% dry matter. Any waste tankered to the facility.
<b>Maintain</b>	Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to adequately perform its function.
<b>Mobile Plant</b>	Self-propelled machinery used for the emplacement of wastes or for the construction of specified engineering works.
<b>Monthly</b>	A minimum of 12 times per year, at approximately monthly intervals.
<b>Municipal waste</b>	As defined in Section 5(1) of the Act.
<b>Night-time</b>	10.00 p.m. to 8.00 a.m.
<b>Noise Sensitive Location (NSL)</b>	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.
<b>Oil Separator</b>	Device installed according to the draft European Standard prEN 858 (Installations for the separation of light liquids, e.g. oil and petrol).
<b>Quarterly</b>	At approximately three monthly intervals.
<b>Sample(s)</b>	Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments.
<b>Specified Emissions</b>	Those emissions listed in <i>Schedule C: Emission Limits</i> of this licence.
<b>Specified Engineering Works</b>	Engineering works listed in <i>Schedule B: Specified Engineering Works</i> of this licence.
<b>Trigger Level</b>	A parameter value specified in the licence, the achievement or exceedance of which requires certain actions to be taken by the licensee.
<b>Weekly</b>	During all weeks of plant operation, & in the case of emissions, when emissions are taking place, with no more than one measurement in one week.
<b>White Goods</b>	Refrigerators, cookers, ovens and other similar appliances.
<b>EPA Working Day</b>	Refers to the following hours; 9.00 a.m. - 5.30 p.m. Monday - Friday inclusive.

## ***PART II CONDITIONS***

### **CONDITION 1 SCOPE OF THE LICENCE**

- 1.1. Waste activities at the facility shall be restricted to those listed and described in Part I: Activities Licensed and authorised by this licence.
- 1.2. For the purposes of this licence, the facility is the area of land outlined in red on Drawing 104 (rev A) (labelled 'Site Plan') of the application (Risk Assessment Section 6). Any reference in this licence to "facility" shall mean the area thus outlined in red.
- 1.3. This licence is for the purposes of waste licensing under the Waste Management Act 1996 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.4. Only those waste categories and quantities listed in *Schedule A: Waste Acceptance*, of this licence shall be accepted at the facility.
- 1.5. No hazardous wastes or liquid wastes (apart from vegetable oils) shall be accepted at the facility. In addition no animal wastes shall be accepted at this facility.
- 1.6. Waste Acceptance Hours and Hours of Operation
  - 1.6.1 Waste shall only be accepted at the facility between the hours of 5:00am – 9:30pm, Monday to Saturday inclusive.
  - 1.6.2 Waste which is received from 5:00am to 8:00am, following its acceptance, shall be deposited on the floor, or stored inside, of the Waste Transfer Building. It shall not be further processed or removed from the site during this time.
  - 1.6.3 Waste may only be accepted on Sundays and Bank Holidays with the prior agreement of the Agency. Following its acceptance, it shall be placed into covered and enclosed containers within the Waste Transfer Building by the end of the working day.
  - 1.6.4 All other waste handling or processing (including bulking, shredding and removal off-site) shall be restricted to 8:00am-10:00pm from Monday to Saturday, unless otherwise agreed by the Agency.
- 1.7. 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.
- 1.8. 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:
  - 1.8.1. 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;

1.8.2. 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

1.8.3. 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.

1.9. 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 FÁS waste management training programme (or equivalent agreed with the Agency) and associated on site assessment appraisal within twelve months of date of grant of this licence.

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 The management structure of the facility shall be as outlined in Attachment L2 of this application. 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 Within twelve months from the commencement of waste activities, 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

Prior to the commencement of waste activities on this site, 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.

2.3.2.4 Awareness and Training Programme

Prior to the commencement of waste activities on this site, the licensee shall establish and maintain an Awareness and Training programme. This programme shall identify training needs, for personnel who work in or have responsibility for the licensed facility.

2.3.2.5 Communications Programme

Prior to the commencement of waste activities on this site, 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.

**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. No waste shall be accepted at the facility without the prior agreement of the Agency.

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 one month 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, where appropriate;
- 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 provide and maintain a Facility Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the board shall be 1200 mm by 750 mm. This notice board shall be installed prior to commencement of waste activities.
- 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 Waste transfer building
- 3.4.1 All wall and roof cladding of the Waste transfer building shall consist of insulated panels for the purposes of sound insulation. Low noise plant and equipment shall be used where appropriate.
- 3.5 Facility Security
- 3.5.1 Security walls, and gates shall be installed and maintained around the site to a minimum height of 2.4m. The base of any fencing shall be set in the ground.
- 3.5.2 The licensee shall remedy any defect in the gates, walls 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, walls and/or fencing shall be undertaken within three working days.

### 3.6 Facility Roads and Site Surfaces

- 3.6.1 Effective site roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.
- 3.6.2 The licensee shall provide, and maintain an impermeable concrete hardstand surface at the facility entrance area, parking area, all areas where vehicle movement takes place and the waste handling and storage area. All hardstand areas at the facility shall be concreted and constructed to British Standard 8110.

### 3.7 Facility Office

- 3.7.1 The licensee shall provide and maintain an office at the facility. The office shall be constructed and maintained in a manner suitable for the processing and storing of documentation.
- 3.7.2 The licensee shall provide and maintain a working telephone and a method for electronic transfer of information at the facility.

### 3.8 Waste Inspection and Quarantine Areas

- 3.8.1 A Waste Quarantine Area shall be provided and maintained at the facility. This Quarantine area shall also include a facility for the bunded storage of containers holding liquids, with an adequate bund capacity (minimum 1.1m<sup>3</sup>).
- 3.8.2 These areas shall be constructed and maintained in a manner suitable, and be of a size appropriate, for the quarantine of waste required. The waste quarantine area shall be clearly identified and segregated from each other.

### 3.9 Weighbridge

- 3.9.1 The licensee shall provide and maintain a weighbridge at the facility.

### 3.10 Waste handling, ventilation and processing plant

- 3.10.1 Items of plant deemed critical to the efficient and adequate processing of waste at the facility (including *inter alia* waste loading vehicles and ejector trailers) shall be provided on the following basis:
  - 100% duty capacity;
  - 50% standby capacity available on a routine basis;
  - Provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment.
- 3.10.2 Prior to the commencement of waste activities 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 waste intake.
- 3.10.3 The quantity of waste to be accepted at the facility on a daily basis shall not exceed the daily duty capacity of the equipment at the facility. Any exceedance of this intake by greater than 10% shall be treated as an incident.

### 3.11 Domestic Waste Water Treatment System

3.11.1 The licensee shall provide and maintain a Domestic Waste Water Treatment system at the facility for the treatment of Domestic waste water arising on-site. The system to be provided shall satisfy the criteria set out in the Wastewater Treatment Manual, *Treatment Systems for Single Houses*, published by the Environmental Protection Agency.

### 3.12 Tank and Drum Storage Areas

3.12.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein.

3.12.2 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.

3.12.3 All drainage from bunded areas shall be diverted for collection and safe disposal.

3.12.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.

The integrity and water tightness of all the bunds and below ground pits 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 following its installation and prior to its use as a storage area.

This confirmation shall be repeated at least once every three years thereafter and reported to the Agency on each occasion.

### 3.13 Silt Traps and Oil Separators/Interceptors

a) The licensee shall install and maintain a silt trap and an oil interceptor at the facility to ensure that all surface water discharges from the facility pass through a silt trap and oil interceptor prior to discharge. This interceptor shall be a full retention Class 1 interceptor. It shall be sized in accordance with prEN 858.

### 3.14 Drainage system, pipeline testing

3.14.1 Prior to the commencement of waste activities all sewer manhole covers shall be painted with red squares whilst all surface water drainage gullies, grids and manhole covers shall be painted with blue triangles. These colour codes shall be maintained so as to be visible at all times during facility operation, and any identification designated in this licence (e.g. SE1) shall be inscribed on these manholes.

3.14.2 The drainage system, bunds, silt traps and oil separators shall be inspected weekly, desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal. A written record shall be kept of the inspections, desludging, cleaning, disposal of associated waste products, maintenance and performance of the interceptors, bunds and drains.

3.14.3 The storm water drainage system shall be established and maintained as set out in Drawing No. 1 labelled "Site Layout Plan" of the EIS subject to any alterations agreed in advance by the Agency.

3.14.4 A solid ramp of at least 10cm high shall be maintained on the floor of the waste transfer station at all entry/exit points to the Waste handling area in order to contain minor spills and wash water.

### 3.15 Monitoring Infrastructure

3.15.1 Groundwater

- (i) The licensee shall install the stone filled groundwater trenches as outlined in Drawing 111 Rev. A [Proposed site plan and development] of the Risk Assessment as submitted on 6/6/02. These trenches shall incorporate manholes for the purposes of monitoring the shallow groundwater. There shall be at least two access manholes in the upgradient trenches and two in the downgradient trenches.
- (ii) The existing bedrock boreholes at the facility shall be fully decommissioned and sealed within three months of the date of grant of this licence.

#### 3.15.2 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 twelve months of the date of commencement of waste activities. 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 Subsequent to the construction of the building all waste processing shall be carried out inside the waste transfer building.
- 5.2 Unless otherwise agreed with the Agency, the licensee shall implement the recommendations of the Risk Assessment Report (RAR), as submitted to the Agency on 16/4/02, prior to the commencement of construction of the waste transfer facility. A report on the implementation of the Risk Assessment recommendations shall be submitted to the Agency including all sampling and monitoring information carried out to confirm that remaining soils conform to the remediation criteria defined in the RAR.
- 5.3 Subsequent to the implementation of the recommendations of the Risk Assessment Report, the licensee shall report to the Agency on the following items:
  - a) a description of all soil waste including the associated EWC codes and level of contamination removed from the site;
  - b) the quantity of each waste type, recorded in tonnes;
  - c) details of waste permit/licence holder to which the waste was removed, as appropriate;
  - d) ultimate disposal destination of waste;
  - e) where applicable a consignment note number (including transfrontier shipment notification and movement/tracking form numbers, as appropriate).
- 5.4 Within nine months of the date of commencement of waste activities, the licensee shall provide a report to the Agency indicating whether there is continued impact on identified receptors due to the remaining soils at the facility. This report shall be based on monitoring of shallow groundwater and the CIE and Carrowmoneash watercourses as required under Schedule D.5 of

this licence. If significant impact is noted, this report shall include further abatement measures as appropriate (e.g. pumping and treatment of contaminated groundwater).

## 5.5 Waste Acceptance and Characterisation Procedures

- 5.5.1 Prior to commencement of waste acceptance at the facility, the licensee establish and maintain detailed written procedures for the acceptance and handling of wastes.
- 5.5.2 Waste arriving at the facility shall be weighed, documented and directed to the Waste Transfer Building for inspection. Each load of waste arriving at the Waste Transfer Building shall be inspected upon tipping within the building. Only after such inspections shall the waste be processed for disposal or recovery.
- 5.5.3 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.
- 5.5.4 A record of all inspections of incoming waste loads shall be maintained.
- 5.5.5 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. Any waste accepted through casual access to the facility shall be inspected and recorded.

## 5.6 Operational Controls

- 5.6.1 The floor of the waste transfer building shall be washed down and cleaned on a daily basis. The floor of the storage bays for recovered waste shall be washed down and cleaned as required.
- 5.6.2 Cleaning of the floor shall be carried out using either a water spray or a self contained cleaning system. A system for collection and adequate treatment of wastewater shall be installed. Where wastewater is to be tankered off-site for disposal it shall be to a location agreed with the Agency, and records of dates and volumes removed shall be maintained.
- 5.6.3 Scavenging shall not be permitted at the facility.
- 5.6.4 Gates shall be locked shut when the facility is unsupervised.
- 5.6.5 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 5.6.6 Fuels shall only be stored at appropriately bunded locations on the facility.
- 5.6.7 All tanks and drums shall be labelled to clearly indicate their contents.
- 5.6.8 No smoking shall be allowed within the main waste transfer building.

## 5.7 Off-site Disposal and Recovery

- 5.7.1 Waste sent off-site for recovery or disposal shall only be conveyed by a waste contractor agreed by the Agency.
- 5.7.2 All waste transferred from the facility shall only be transferred to an appropriate facility agreed by the Agency.

- 5.7.3 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.
- 5.8 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 licensee shall maintain the compactor and shredder in accordance with the manufacturers 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. Emissions to Surface Water
- 6.4.1. The trigger levels for surface water discharges from the facility measured at monitoring point(s) SE1 are:
- (a) BOD 25mg/l
- (b) Suspended Solids 60mg/l
- 6.5. There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at noise sensitive locations.
- 6.6. Activities on-site shall not give rise to noise levels off-site, at noise sensitive locations, which exceed the sound pressure limits outlined in Table C1.
- 6.7. Disposal of wastewater

- 6.7.1. No wastewater shall be discharged to surface water.
- 6.7.2. Only domestic wastewater (sinks, toilets etc.) shall be discharged to the treatment/percolation system, unless otherwise agreed with the Agency.

**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 licensee shall apply the vermin and fly control measures as outlined in Appendix 3 of the EIS. These measures shall consist of at least the following:
- Rodent bait boxes.
  - Fly control units.
  - Appropriate bird control, if necessary.
  - A minimum of eight visits per year by a pest control contractor.
- 7.3 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.
- 7.4 Litter Control
- 7.4.1 All loose litter or other waste, placed on or in the vicinity of the facility, other than in accordance with the requirements of this licences, shall be removed, subject to the agreement of the landowners, immediately and in any event by 10.00am of the next working day after such waste is discovered.
- 7.4.2 The licensee shall install a CCTV system at the facility. This system and its location shall be agreed with the Agency prior to installation, and shall be operational within three months of commencement of waste activities.
- 7.4.3 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.
- 7.5 Dust/Odour Control
- 7.5.1 All waste for disposal stored overnight at the facility, shall be stored in suitably covered and enclosed containers within the waste transfer building, and shall be removed from the facility within forty eight hours of its arrival at the facility except at Bank Holiday weekends. At Bank Holiday weekends, waste for disposal shall be removed from site within seventy two hours of its arrival on site.
- 7.5.2 No waste shall be stored external to the waste transfer building with the exception of separated materials and baled material destined for recovery.
- 7.5.3 During construction and operation of the facility, site roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance. This shall include rubble piles, hardcore areas and other areas as appropriate.
- 7.5.4 Prior to the date of commencement of the waste activities at the facility, the licensee shall install and provide adequate measures for the control of odours and dust emissions,



including fugitive dust emissions, from the facility. Such measures shall at a minimum include the following:

- 7.5.4.1 Installation and maintenance of a dust extraction system as outlined in Section 2.4.4 of the EIS.
- 7.5.4.2 Dust extraction ducts shall also be maintained on the perimeter of the entry/exit doors from the waste transfer building. All other doors in this building shall be kept closed where possible.
- 7.5.4.3 Installation and maintenance of odour abatement equipment listed in Section 2.6.6 of the EIS to ensure that odours and dust do not give rise to environmental pollution.
- 7.5.4.4 Provision of 100% duty capacity and 50% stand by capacity, back ups and spares must be provided for the air handling, ventilation and abatement plant.
- 7.5.5 The licensee shall provide a report to the Agency, within 12 months of date of commencement of waste activities, assessing the requirement for further odour abatement measures at this facility. This should include an assessment of the level of odour complaints (if any), air monitoring results and requirement for adjustment of waste handling practices. Any odour abatement measures required shall be installed and maintained at the direction of the Agency.

**REASON:** *To provide for the control of nuisances*

## **CONDITION 8 MONITORING**

- 8.1. The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule D: Monitoring*, of this licence and as specified in this licence. Unless otherwise specified by this licence, all environmental monitoring shall commence no later than two months after the commencement of waste activities at this facility.
- 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. Prior to the commencement of waste activities at this facility the following information shall be submitted to the Agency for its agreement: the names, qualifications and a summary of relevant experience of all persons that will carry out all sampling and monitoring as required by this

licence and who carry out the interpretation of the results of such sampling and monitoring. Any proposed changes to the above shall be submitted in writing to the Agency for its agreement.

8.8. Noise, Groundwater, Wastewater, Surface Water and Air Monitoring

8.8.1. The licensee shall carry out the above monitoring at the locations set out in *Schedule D: Monitoring*, of this licence.

8.9. Surface Water Monitoring

8.9.1. The Licensee shall provide, install and maintain a monitoring chamber for the representative sampling of the final surface water discharge from the facility to the adjacent watercourse. A shut-off valve shall be incorporated in the design which will allow this discharge to be stopped.

8.9.2. This shut-off valve shall be clearly labelled, and its use incorporated into the Emergency Response Procedure as required under Condition 9.2.

8.10. Nuisance Monitoring

8.10.1. 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. Prior to commencement of waste activities, the licensee shall 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. 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;
  - 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; and
  - j) where applicable a consignment note number (including transfrontier shipment notification and movement/tracking form numbers, as appropriate).
- 10.3 **Written Records**

The following written records shall be maintained by the licensee:

  - a) the types and quantities of waste recovered at the facility each year. These records shall include the relevant EWC Codes;
  - b) all training undertaken by facility staff;

- c) results from all integrity tests of bunds and other structures and any maintenance or remedial work arising from them;
  - d) details of all nuisance inspections;
  - e) the names and qualifications of all persons who carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring; and
  - f) details of daily floor washing and cleaning.
- 10.4 The licensee shall maintain a written record of all complaints relating to the operation of the activity. Each such record shall give details of the following:
- a) date and time of the complaint;
  - b) the name of the complainant;
  - c) details of the nature of the complaint;
  - d) actions taken on foot of the complaint and the results of such actions; and,
  - e) the response made to each complainant.
- 10.5 A written record shall be kept of each consignment of wash 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 wash water from the facility;
  - c) the volume of wash 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 wash water was transported;
  - e) any incidents or spillages of wash water during its removal or transportation.
- 10.6 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 headquarters;
  - (b) comprise one original and three copies unless additional copies are required;
  - (c) be formatted in accordance with any written instruction or guidance issued by the Agency;
  - (d) include whatever information as is specified in writing by the Agency;

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

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

- a) notify the Agency as soon as practicable and in any case not later than 10.00 am the following working day after the occurrence of any incident;
- b) submit a written record of the incident, including all aspects described in Condition 9.1(a-e), to the Agency as soon as practicable and in any case within five working days after the occurrence of any incident.
- c) in the event of any incident which relates to discharges to surface water, notify the Western Regional Fisheries Board and Galway County Council as soon as practicable and in any case not later than 10:00am on the following working day after such an incident.
- d) Should any further actions be taken as a result of an incident occurring, the licensee shall forward a written report of those actions to the Agency as soon as practicable and no later than ten days after the initiation of those actions.

11.3 Waste Recovery Reports

Within six months of the commencement of waste activities, 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 as a minimum a target of recovery of 25% of all waste received at the facility. This report 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;
- e) the recovery of commercial waste, including cardboard;
- f) the recovery of non-hazardous inorganic waste.

11.4 Monitoring Locations

11.4.1. Within three months of the commencement of waste activities, 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.

11.5 Annual Environmental Report

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

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

**REASON:** 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 €13,802 or such sum as the Agency from time to time determines, towards the cost of monitoring the activity or otherwise in performing any functions in relation to the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996. The licensee shall in 2004 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Public Sector Average Earnings Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 2003, the licensee shall pay a pro rata amount from the date of this licence to 31<sup>st</sup> 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 twelve months of the date of commencement of waste activities.
- 12.2.2 Within eighteen months of the date of commencement of waste activities, 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

Table A.1 Waste Acceptance Categories and Quantities

Waste Type	Maximum Tonnage Per Annum
Household waste	20,000
Commercial waste	20,000
Construction and Demolition waste	80,000
Industrial non-hazardous wastes	10,000
<b>Total</b>	<b>130,000</b>

## SCHEDULE B : Specified Engineering Works

Specified Engineering Works
Installation of a Civic Waste Facility.
Installation of waste handling, processing, recycling/recovery infrastructure and installation of increased waste processing capacity (e.g. picking lines).
Installation of domestic wastewater treatment system (including Biocycle and percolation technologies).
Any other works notified in writing by the Agency.

## SCHEDULE C :Emission Limits

**C.1 Noise Emission Limits:** (Measured at the noise sensitive locations indicated in Table D.1)

Day dB(A) $L_{Aeq}(30 \text{ minutes})$	Night dB(A) $L_{Aeq}(30 \text{ minutes})$
55	45

**C.2 Dust Deposition Limits:** (Measured at the monitoring points indicated in Table D.1).

Level ( $\text{mg}/\text{m}^2/\text{day}$ ) <sup>Note 1</sup>
350

Note 1: 30 day composite sample with the results expressed as  $\text{mg}/\text{m}^2/\text{day}$ .

**C.3 Dust Emission Limits:** (Measured at the monitoring point AE-1).

Level ( $\text{mg}/\text{m}^3$ )
50

**C.4 Surface Water Discharge Limits:** Measured at the monitoring point SE-1

Parameter	Emission Limit Value
Mineral oils	5mg/l



# SCHEDULE D : Monitoring

## D.1 Monitoring Locations (Monitoring locations shall be those as set out below)

Dust Monitoring Locations (as per Fig 3.7.3 EIS)
AE-1 (Air emission from dust handling unit)
D1, D2 and D3 <sup>Note 2</sup>
Noise Monitoring Locations (as per Fig 3.8.1 EIS)
N1, N2, N3, N4, NSL5, NSL6 <sup>Note 2</sup> , and NSL7 <sup>Note 2</sup>
Shallow groundwater trenches (Drawing 111 Rev. A [Proposed site plan and development])
U/G (a sample from each of the two upgradient trenches mixed together) & D/G (a mix of two samples from the downgradient trench)
Foul water (wash water from the transfer building)
FW1 <sup>Note 1</sup>
Surface Water Monitoring Locations (as per Fig 3.1.1 EIS)
SE1 (interceptor discharge), SW1 and SW2

*Note 1: Location to be agreed with the Agency*

*Note 2: Alternative locations may be agreed with the Agency*

## D.2 Dust deposition

### Dust Monitoring Frequency and Technique

Parameter (mg/m <sup>2</sup> /day)	Monitoring Frequency	Analysis Method/Technique
Dust	Three times a year <sup>Note 2</sup>	Standard Method <sup>Note 1</sup>

**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

### Noise Monitoring Frequency and Technique

Parameter	Monitoring Frequency	Analysis Method/Technique
L(A) <sub>EQ</sub> [30 minutes] <sup>Note 1</sup>	Bi-Annual <sup>Note 2</sup>	Standard <sup>Note 3</sup>
L(A) <sub>10</sub> [30 minutes] <sup>Note 1</sup>	Bi-Annual <sup>Note 2</sup>	Standard <sup>Note 3</sup>
L(A) <sub>90</sub> [30 minutes] <sup>Note 1</sup>	Bi-Annual <sup>Note 2</sup>	Standard <sup>Note 3</sup>
Frequency Analysis(1/3 Octave band analysis) <sup>Note 1</sup>	Bi-Annual <sup>Note 2</sup>	Standard <sup>Note 3</sup>

**Note 1:** Monitoring shall be carried out during day and night time (5am-8am) periods and shall include a traffic count at the entrance to the facility, and note general traffic movements in the area, and waste activities at the facility during the monitoring period.

**Note 2:** The first such monitoring event shall be undertaken within three months of the commencement of activities at this facility.

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

#### ***D.4 Surface Water and Wastewater***

##### **Surface water Monitoring Frequency and Techniques**

<b>Parameter</b>	<b>Monitoring Frequency</b>	<b>Analysis Method/Technique</b>
<b>PH</b>	Quarterly	Electrometry
<b>Biological Oxygen Demand</b>	Quarterly	Standard Methods <sup>Note 1</sup>
<b>Suspended Solids</b>	Quarterly	Standard Methods <sup>Note 1</sup>
<b>Total Ammonia (as N)</b>	Quarterly	Standard Methods <sup>Note 1</sup>
<b>Fats, Oils, Grease</b>	Quarterly	Standard Methods <sup>Note 1</sup>
<b>Hydrocarbons &amp; PCB's as per Schedule D5 (Surface water only)</b>	as per Schedule D.5	as per Schedule D.5

**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 Water***

##### **Ground water Monitoring Frequency and Techniques**

<b>Parameter</b> <sup>Note 1</sup>	<b>GROUNDWATER</b> <b>Monitoring Frequency</b> <sup>Note 2</sup>	<b>Analysis Method/Technique</b>
<b>Electrical Conductivity</b>	Quarterly	Standard Method
<b>Total PolyChlorinated BiPhenyls</b>	Quarterly	Standard Method
<b>Total Petroleum Hydrocarbons</b>	Quarterly	IR
<b>Mineral Oils</b>	Quarterly	GC
<b>Diesel Range Organics</b>	Quarterly	GC-FID
<b>Petrol Range Organics</b>	Quarterly	GC-FID
<b>Benzene</b>	Quarterly	GC
<b>Toluene</b>	Quarterly	GC
<b>Ethyl benzene</b>	Quarterly	GC
<b>Xylene</b>	Quarterly	GC
<b>Total PAH's</b>	Quarterly	GC

**Note 1:** All the analysis shall be carried out by a competent laboratory using standard and internationally accepted procedures. The testing laboratory and the testing procedures shall be agreed with the Agency in advance.

**Note 2:** Monitoring shall be carried out for nine months for the report required under Condition 5.4 (minimum of 3 sample events) and may be adjusted with the agreement of the Agency thereafter.

#### ***D.6 Air***

##### **Dust Emissions Monitoring Frequency and Technique**

<b>Parameter</b>	<b>Monitoring Frequency</b>	<b>Analysis Method/Technique</b>
<b>Total Particulates</b>	Annually	Isokinetic/Gravimetric

## SCHEDULE E : Recording and Reporting to the Agency

Report	Reporting Frequency <sup>Note 1</sup>	Report Submission Date
<b>Environmental Management System Updates</b>	Annually	One month after the end of the year reported on.
<b>Annual Environment Report (AER)</b>	Annually	Thirteen months from the date of commencement of waste activities & one month after the end of each calendar year thereafter.
<b>Record of incidents</b>	As they occur	Within five days of the incident.
<b>Bund, tank and container integrity assessment</b>	Every three years	Six months from the date of commencement of waste activities and one month after end of the three year period being reported on.
<b>Specified Engineering Works reports</b>	As they arise	Prior to the works commencing.
<b>Monitoring of Surface Water Quality</b>	Quarterly	Ten days after end of the quarter being reported on.
<b>Monitoring of Groundwater Quality</b>	Quarterly	Ten days after end of the quarter being reported on.
<b>Monitoring of Wastewater</b>	Quarterly	Ten days after end of the quarter being reported on.
<b>Dust Monitoring</b>	Three times a year	Ten days after the period being reported on.
<b>Noise Monitoring</b>	Annually	One month after end of the year being reported on.
<b>Any other monitoring</b>	As they occur	Within ten days of obtaining results.

**Note 1:** Unless altered at the request of the Agency.

## SCHEDULE F : Content of the Annual Environmental Report

Annual Environmental Report Content
<p>Reporting Period.</p> <p>Waste activities carried out at the facility.</p> <p>Quantity and Composition of waste recovered, received and disposed of during the reporting period and each previous year (relevant EWC codes to be used).</p> <p>Summary report on emissions.</p> <p>Summary of results and interpretations of environmental monitoring, including a location plan of all monitoring locations.</p> <p>Resource and energy consumption summary.</p> <p>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)</p> <p>Schedule of Environmental Objectives and Targets for the forthcoming year.</p> <p>Report on the progress towards achievement of the Environmental Objectives and Targets contained in previous year's report.</p> <p>Full title and a written summary of any procedures developed by the licensee in the year which relates to the facility operation.</p> <p>Tank, drum, pipeline and bund testing and inspection report.</p> <p>Reported Incidents and Complaints summaries.</p> <p>Review of Nuisance Controls.</p> <p>Reports on financial provision made under this licence, management and staffing structure of the facility, and a programme for public information.</p> <p>Volume of foul water produced and volume of foul water transported off-site.</p> <p>Any other items specified by the Agency.</p>

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

**Sealed by the Seal of the Agency on this 18<sup>th</sup> day of February 2003.**

**PRESENT when the seal of the Agency was  
affixed hereto:**

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**Anne Butler, Director General/Authorised Person**