



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

WASTE LICENCE  
PROPOSED DECISION  
WASTE TRANSFER STATION

<b>Waste Licence</b>	3-3
<b>Register Number:</b>	
<b>Applicant:</b>	South Dublin County Council
<b>Location of Facility:</b>	Ballymount Baling Station, Ballymount Road, Walkinstown, Dublin 12.

# 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 municipal waste baling station prior to transport to landfill for disposal and also for the operation of a waste facility for the collection of recyclable and non-recyclable waste (Civic Waste Facility). The operating hours of the Baling Centre are limited to 6.30 a.m. to 9.00 p.m. Monday to Saturday. The Civic Waste Facility may be operated between 8.00 a.m. and 6.00 p.m. Monday to Sunday. The daily quantity of waste that can be accepted at the facility is limited to 324,480 tonnes per annum, excluding the Civic Waste Facility. The quantity of waste to be accepted for baling is limited to a maximum of 1,040 tonnes per day. No waste is to be accepted at the Baling Centre when both balers are inoperative.

The licensee must manage and operate the facility to ensure that the activities do not cause environmental pollution (which includes nuisances such as odour, noise etc.). The licensee has to carry out regular environmental monitoring and submit all monitoring results and reports on the development, operation and management of the facility, to the Agency.

The conditions of this licence set out in detail the legal constraints under which South Dublin County Council is allowed to operate and manage Ballymount Baling Station.

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# DECISION & REASONS FOR THE DECISION

## *Reasons for the Decision*

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

In reaching this decision the 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 South Dublin County Council to carry on the waste activities listed below at Ballymount Baling Station, Ballymount Road, Walkinstown, Dublin 12 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 12.</b>	<b>Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.</b> This activity is limited to the baling of Municipal 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 the storage of waste prior to transporting it to an appropriate facility.

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 the collection of recoverable organic substances in the Civic Waste Facility.
<b>Class 3.</b>	<b>Recycling or reclamation of metals and metal compounds:</b> This activity is limited to the collection of recoverable metals and metal compounds in the Civic Waste Facility.
<b>Class 4.</b>	<b>Recycling or reclamation of other inorganic materials:</b> This activity is limited to the collection of recoverable inorganic materials in the Civic Waste Facility.
<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 temporary storage of recoverable materials prior to transport to an appropriate 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.

<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>Application</b>	The application by the licensee for this waste licence.
<b>Appropriate facility</b>	A waste management facility, duly authorised under relevant law and technically suitable.
<b>Attachment</b>	Any reference to Attachments in this licence refers to attachments submitted as part of the waste licence application.
<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>Containment boom</b>	A boom which can contain spillages and prevent them from entering drains or 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, including concentration limits and deposition levels established 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 European Community.
<b>Green waste</b>	Waste wood (excluding timber), plant matter such as grass cuttings, and other vegetation.
<b>Hours of Operation</b>	The hours during which the facility is authorised to be operational.
<b>Hours of Waste Acceptance</b>	The hours during which the facility is authorised to accept waste. Different activities within the facility, such as the civic waste facility, may have different hours of waste acceptance.
<b>Licence</b>	A Waste Licence issued in accordance with the Act.

<b>Licensee</b>	South Dublin County Council.
<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>Putrescible waste</b>	Biodegradable waste with the potential to give rise to an offensive odour.
<b>Recyclable Materials</b>	Those waste types, such as cardboard, batteries, gas cylinders, etc, which may be recycled.
<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>Sanitary Authority</b>	South Dublin County Council.
<b>Specified Emissions</b>	Those emissions listed in <i>Schedule C: Emission Limits</i> of this licence.
<b>Specified Engineering Works</b>	Those 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>Waste</b>	As defined in Section 4(1) of the Act.
<b>Weekly</b>	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.
<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. to 5.30 p.m. Monday to Friday inclusive.
<b>Working Day</b>	Refers to any day that the facility is operated.

## ***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 No. 98-054-01-001 Rev.E – Site Layout Plan (Scale 1:500). 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 quantities of waste to be accepted at the facility shall not exceed those specified in *Schedule A: Waste Acceptance*, 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, unless subject to acceptance at the Civic Waste Facility in accordance with this licence.
- 1.6. No hazardous waste, asbestos waste, liquid waste, sludge or offal shall be accepted at the facility, unless subject to acceptance at the Civic Waste Facility in accordance with this licence.
- 1.7. Waste Acceptance Hours and Hours of Operation
  - 1.7.1. Baling Station
    - (i) The hours of operation shall be 6.30 a.m. to 9.00 p.m. Monday to Saturday inclusive.
    - (ii) Waste shall only be accepted between the hours of 6.30 a.m. to 8.00 p.m. Monday to Saturday inclusive.
  - 1.7.2. Civic Waste Facility

The hours of operation and waste acceptance shall be 8.00 a.m. to 6.00 p.m. Monday to Sunday inclusive.
- 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;
  - e) any breakdown of the baler(s) or associated equipment affecting the baling capacity at the facility; and
  - f) 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.
- 1.11. This licence is being granted in substitution for the waste licence granted to the licensee on 8<sup>th</sup> February 2001 and bearing Waste Licence Register No. 3-2. This licence supersedes the previous Waste Licence (Register No. 3-2).

<b>Reason:</b> <i>To clarify the scope of this licence.</i>
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## **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 updated 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 maintain an Environmental Management System (EMS). By 31<sup>st</sup> January 2003 the licensee shall submit to the Agency for its agreement a proposal for the updating of the EMS for the facility. 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 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 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 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.
- 3.3.2 The board shall clearly show:
- a) the name and telephone number of the facility;
  - b) the normal hours of opening;
  - c) the name of the licence holder;
  - d) an emergency out of hours contact telephone number;
  - e) the licence reference number; and
  - f) where environmental information relating to the facility can be obtained.

### 3.4 Facility Security

- 3.4.1 Security fencing and gates shall be maintained at the facility. The security fencing and gates shall be at the locations shown on Drawing No. 98-054-01-001 Rev.E – Site Layout Plan. The base of the fencing shall be set in the ground.
- 3.4.2 The licensee shall remedy any defect in the gates and/or fencing as follows:
- a) a temporary repair shall be made by the end of the working day; and,
  - b) a repair to the standard of the original gates and/or fencing shall be undertaken within three working days.

### 3.5 Facility Roads and Hardstanding

3.5.1 Effective site roads, including an access road to the civic amenity facility shall be provided and maintained as shown in Drawing No. 98-054-01-001 Rev.E – Site Layout Plan to ensure the safe movement of vehicles within the facility.

3.5.2 The hard standing areas of the facility shall be maintained by the licensee.

### 3.6 Facility Office

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

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

### 3.7 Waste Inspection and Quarantine Areas

3.7.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained at the facility. The Waste Quarantine Area shall be located as shown in Drawing No. 98-054-01-001 Rev.E – Site Layout Plan, unless otherwise agreed in advance with the Agency.

3.7.2 These areas shall be constructed and maintained in a manner suitable, and be of a size appropriate, for the inspection of waste and subsequent quarantine if required. The waste inspection area and the waste quarantine area shall be clearly identified and segregated from each other.

### 3.8 Weighbridge and Wheel Cleaning

3.8.1 The licensee shall provide and maintain two weighbridges at the facility. Unless otherwise agreed with the Agency the location of the weighbridges shall be as shown on Drawing No. 98-054-01-001 Rev.E – Site Layout Plan and shall be maintained in such condition as to accurately measure the weight of all vehicles using them.

3.8.2 Unless otherwise agreed with the Agency, vehicle cleaning facilities shall be provided and maintained at the location as shown in Drawing No. 98-054-01-001 Rev.E – Site Layout Plan and shall discharge to the sewer via Manhole No. F2 as shown in that drawing.

### 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 The licensee shall install and maintain a negative air pressure and emissions control system in the Waste Reception Area of the Baling Centre as shown in Drawing No. 98-054-01-001 Rev.E – Site Layout Plan.

3.9.3 The licensee shall provide and maintain an inventory of necessary spares sufficient to ensure that waste handling plant is available to process all waste accepted at the facility.

- 3.10 The Baling Centre, incorporating the Waste Reception Area and Baling/Loading Area shall be maintained as located in Drawing No. 98-054-01-001 Rev.E – Site Layout Plan.
- 3.11 The licensee shall provide and maintain a Civic Waste Facility at the location shown in Drawing No. 98-054-01-001 Rev.E – Site Layout Plan.
- 3.12 Wastewater Treatment System
- 3.12.1 The licensee shall provide and maintain a wastewater treatment system as described in Section 2.3.9 of the Environmental Assessment Report of the application and as located on Drawing No. 98-054-01-001 Rev.E – Site Layout Plan, unless otherwise instructed or agreed with the Agency.
- 3.12.2 Within three months of the date of grant of this licence the licensee shall provide and maintain pH adjustment equipment to augment the wastewater treatment system.
- 3.13 Tank, Drum and Fuel Storage Areas
- 3.13.1 All tank, drum and fuel storage areas shall be rendered impervious to the materials stored therein.
- 3.13.2 All tank, drum and fuel storage areas including waste oil storage in the Civic Waste Facility 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.
- 3.13.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.13.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.13.5 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, except where previously demonstrated and reported to the Agency in 2001.
- This confirmation shall be repeated for all bunds at least once every three years thereafter and reported to the Agency on each occasion.
- 3.14 Drainage Systems
- 3.14.1 The surface water and sewer systems shall be established and maintained as set out in Drawings No. 98-054-01-001 Rev.F – Site Layout Plan of the application unless where otherwise instructed or agreed by the Agency.
- 3.14.2 Within three months from the date of grant of this licence the licensee shall submit a report on the effectiveness of the existing drainage systems and detail recommendations on any improvements that should be made to the systems. This shall also include proposals on;
- (i) upgrading the drainage system in the Civic Waste Facility such that potentially contaminated runoff is minimised and directed to the onsite wastewater treatment system;
  - (ii) collection and use of clean roof run-off or the diversion of it such that it discharges directly off-site; and
  - (iii) the provision of suitable controls such as cut-off valves to enable containment in the event of incidents such as spillages.

Any works agreed by the Agency shall be carried out within three months of the date of such agreement.

3.14.3 All foul sewer gullies, drainage grids and manhole covers shall be painted with red squares whilst all surface water discharge gullies, drainage grids and manhole covers shall be painted with blue triangles. These colour codes shall be maintained so as to be visible at all times during facility operation, and any identification designated in this licence (e.g. SW1) shall be inscribed on these manholes.

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

### 3.15 Fire Control

3.15.1 The licensee shall provide and maintain a firewater retention facility as described in Attachment D.1.o.

### 3.16 Monitoring Infrastructure

#### 3.16.1 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 DECOMMISSIONING AND AFTERCARE**

4.1. A proposal for a Decommissioning and Aftercare Plan for the facility shall be submitted to the Agency within six months of the date of grant of 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 Only municipal waste shall be accepted at the Baling Centre. All waste processing shall be carried out inside the Baling Centre.

### 5.2 Waste Acceptance and Characterisation Procedures

5.2.1 Unless otherwise agreed with the Agency, Waste Acceptance Procedures shall be carried out in accordance with the acceptance procedures in Section 2.5.3 of the Environmental Assessment Report of the application.

5.2.2 All suspect materials identified by the visual inspection of the waste shall be diverted to the Waste Quarantine Area for further examination and classification. Materials

other than those permitted by this licence shall be submitted to an alternative appropriate facility.

- 5.2.3 Subject to Conditions 1.4, 5.2.5 and 9.5, the quantity of waste to be accepted at the Baling Centre over a working day shall not exceed 1,040 tonnes.
- 5.2.4 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.
- 5.2.5 If the processing of waste is not in accordance with Condition 5.3.5 and/or the floor of the Baling Centre is not being cleared of waste in accordance with Condition 5.4.1, the licensee shall reduce the quantity of waste being accepted at the facility to a level that will ensure compliance with this licence in accordance with any instruction of the Agency.

### 5.3 Processing of wastes

- 5.3.1 All waste shall be processed as detailed in handling procedures in Section 2.5.3 of the Environmental Assessment Report of the application unless where otherwise provided for in this licence. Any waste deemed unsuitable and/or in contravention of this licence shall be immediately separated and at the earliest possible time removed for recovery or disposal at an appropriate alternative facility.
- 5.3.2 Waste arriving at the Waste Reception Area (as shown in Drawing No. 98-054-01-001 Rev.E – Site Layout Plan of the application) shall be deposited on the floor. Only following visual inspection and assessment shall the waste be loaded onto the conveyors for baling. The bales shall be ejected onto waiting trailers which, when fully loaded shall be removed from the facility.
- 5.3.3 The doors of the Baling Centre are to be kept closed as far as is practicable. Unless otherwise agreed with the Agency, the licensee shall provide and maintain heavy duty plastic sheeting along the top of these door openings and which extend as far down as is compatible with the safe passage of facility vehicles through the doorways.
- 5.3.4 The licensee shall submit a written proposal on any proposed new waste processing procedure, along with relevant details, to the Agency for its agreement prior to any such processes or associated works being carried out.
- 5.3.5 Notwithstanding Condition 1.7, all waste accepted into the Baling Centre for compaction shall be compacted on the day of acceptance, except where the waste is dealt with in accordance with the contingency arrangements required by this licence.

### 5.4 Operational Controls

- 5.4.1 The floor of the Baling Centre 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. The conveyor belt and balers shall be cleared of all waste at the end of the working day.
- 5.4.2 Scavenging shall not be permitted at the facility.
- 5.4.3 Gates shall be locked shut when the facility is unsupervised.
- 5.4.4 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 5.4.5 Fuels shall only be stored at appropriately bunded locations in the facility.
- 5.4.6 All tanks and drums shall be labelled to clearly indicate their contents.

- 5.4.7 No smoking shall be allowed on the facility other than in designated areas in the facility offices.
- 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 Civic Waste Facility
- 5.6.1 Unless otherwise agreed with the Agency the following wastes only shall be accepted at the Civic Waste Facility:
- (i) Paper and cardboard
  - (ii) Glass
  - (iii) Clothing
  - (iv) Waste oil
  - (v) Batteries
  - (vi) Scrap metal
  - (vii) Wood
  - (viii) Food cans
  - (ix) Beverage cans
  - (x) Household putrescible waste
  - (xi) Green garden waste
  - (xii) D.I.Y. waste
  - (xiii) White goods.
- 5.6.2 Unless otherwise agreed with the Agency, putrescible household waste accepted at the Civic Waste Facility in accordance with this licence shall be either;
- (i) compacted at the Baling Centre on the day of acceptance, or
  - (ii) removed off site to an alternate facility on the day of acceptance.
- 5.6.3 Green waste shall only be accepted at the Civic Waste Facility prior to recovery at a facility agreed with the Agency. Any such green waste shall not be stored on site for a period longer than 48 hours before removal to the agreed recovery facility.
- 5.6.4 Only private vehicles shall use the Civic Waste Facility. The facility shall not be used as a transfer station for disposal of waste by commercial waste disposal contractors or local authority waste collection vehicles.
- 5.6.5 The licensee shall assign and clearly label each container at the Civic Waste Facility to indicate their contents.
- 5.7 Maintenance
- 5.7.1 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.
- 5.7.2 The licensee shall maintain and clearly label and name all sampling and monitoring locations.

- 5.7.3 The licensee shall maintain the baling equipment and other plant 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. The licensee shall ensure that all operations on-site are carried out in a manner such that air emissions or odours do not result in a significant impact beyond the site boundary. Air emissions from the emissions control system required under Condition 3.9 shall not exceed the emission limit values set out in *Schedule C: Emission Limits* of this licence.
- 6.4. Emission limits for emissions to atmosphere in this licence shall be interpreted in the following way:-
- 6.4.1. 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.
- 6.5. Dust Emissions
- 6.5.1. The trigger level for PM<sub>10</sub> from the facility measured at any location on the boundary of the facility is:
- (a) PM<sub>10</sub> greater than 50µg/m<sup>3</sup> for a daily sample.
- 6.6. Emissions to Surface Water
- 6.6.1. All surface waters arising on the site shall be collected and directed via the site drainage system as set out in Drawing No. 98-054-01-001 Rev.F – Site Layout Plan of the application unless where otherwise instructed or agreed with the Agency.
- 6.6.2. The trigger levels for surface water discharges from the facility measured at the surface water monitoring points specified in Schedule D.1 are:
- (a) BOD 25mg/l
  - (b) Suspended Solids 35mg/l
- 6.6.3. No substance shall be discharged in a manner, or at a concentration which, following initial dilution causes tainting of fish or shellfish.



- 6.7. There shall be no direct emissions to groundwater.
- 6.8. There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at the noise sensitive locations.
- 6.9. Emissions to Sewer
- 6.9.1. No substance shall be present in emissions to sewer in such concentrations as would constitute a danger to sewer maintenance personnel working in the sewerage system, or as would be damaging to the fabric of the sewer, or as would interfere with the biological functioning of a downstream wastewater treatment works.
- 6.9.2. The licensee shall permit authorised persons of the Agency and the Sanitary Authority to inspect, examine and test, at all reasonable times, any works and apparatus installed, in connection with the discharge or emission, and to take samples of the discharge or emission.
- 6.9.3. No emission to sewer shall take place which gives rise to any reaction within the sewer or to the liberation of by-products which may be of environmental significance. In particular the emission shall not contain any liquid matter (including petroleum spirits or organic solvents) or thing which is or may be liable to set or congeal at average sewer temperature or is capable of giving off any flammable or explosive gas or any acid, alkali or other substance in sufficient concentration to cause corrosion to sewer pipes, penstock and sewer fittings or the general integrity of the sewer.
- 6.9.4. Effluent shall be screened prior to discharge to remove solids and avoid blockages in the sewer.
- 6.9.5. Non-trade effluent wastewater (e.g. firewater, accidental spillage) which occurs on-site shall not be discharged to the sewer without the prior authorisation of the Sanitary Authority.
- 6.9.6. The licensee shall provide and maintain an inspection chamber in a suitable position in connection with each pipe through which a discharge or emission is being made. Each such inspection chamber or manhole shall be constructed and maintained by the licensee so as to permit the taking of samples of the discharge.

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

## **CONDITION 7    NUISANCE CONTROL**

- 7.1 All baled waste shall be removed from the facility within forty-eight hours of being baled, unless subject to the prior agreement of the Agency.
- 7.2 The licensee shall ensure that vermin, birds, flies, mud, dust and odours do not give rise to nuisance at the facility or the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution or contravene any national statutory protection granted in respect of protected species or cause significant interference with amenities or the environment beyond the site boundary.
- 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 Any waste placed on or in the vicinity of the facility, other than in accordance with the requirements of this licences, shall be removed by the licensee immediately and in any event by 10.00am of the next working day after such waste is discovered. Such waste shall be recovered/disposed of at an appropriate facility.
- 7.4.2 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered, and that there shall be no liquid discharges from the waste transported therein.
- 7.5 Unless subject to the prior agreement of the Agency, a maximum of 25 enclosed waste containers (including sealed containers of compacted waste or fully enclosed collection vehicles containing waste), shall be stored on the facility at any one time. Waste, once baled, may be stored on the facility for a maximum of 48 hours. These containers shall be stored at areas clearly designated for this purpose.
- 7.6 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.
- 7.7 No waste shall be placed, or allowed to accumulate outside the Waste Reception Area of the Baling Centre, except baled waste in fully enclosed trailers pending removal from the site, or waste in the Civic Waste Facility which is placed in specified and appropriate containers.
- 7.8 Odour Control
- 7.8.1 The licensee shall submit to the Agency a report on the effectiveness of the negative air pressure and emissions control system three months after its installation including recommendations on improvements where necessary.

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

## **CONDITION 8 MONITORING**

- 8.1. The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule D: Monitoring* of this licence and as specified in this licence.
- 8.2. The licensee shall amend the frequency, locations, methods and scope of monitoring as required by this licence only upon the written instruction of the Agency and shall provide such information concerning such amendments as may be requested in writing by the Agency. Such alterations shall be carried out within any timescale nominated by the Agency.
- 8.3. Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturers' instructions (if any) so that all monitoring results accurately reflect any emission, discharge or environmental parameter.
- 8.4. The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 8.5. The licensee shall maintain all sampling and monitoring points, and clearly label and name all sampling and monitoring locations, so that they may be used for representative sampling and monitoring.
- 8.6. The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.

- 8.7. 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.
- 8.8. Unless otherwise specified by this licence or agreed by the Agency, all requirements for environmental monitoring shall be effective immediately after the date of grant of this licence.
- 8.9. Surface Water Emissions
- 8.9.1. The licensee shall ensure that the samples obtained from the surface water discharge locations specified under this licence are representative of emissions from the facility. Any amendments to these locations to satisfy this condition should be agreed in advance with the Agency.
- 8.10. Odour Audit
- 8.10.1. The licensee shall undertake an annual odour audit of the facility. Within three months of the date of grant of this licence the licensee shall submit to the Agency for its agreement a proposal on the extent and timing of these audits.
- 8.11. Nuisance Monitoring
- 8.11.1. 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.
- 8.12. All persons conducting the sampling, monitoring and interpretation as required by this licence shall be suitably competent.

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

## **CONDITION 9 CONTINGENCY ARRANGEMENTS**

- 9.1. In the event of an incident the licensee shall immediately:
- a) identify the date, time and place of the incident;
  - b) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission arising therefrom;
  - c) isolate the source of any such emission;
  - d) evaluate the environmental pollution, if any, caused by the incident;
  - e) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
  - f) provide a proposal to the Agency for its agreement within one month of the incident occurring to:
    - i) identify and put in place measures to avoid reoccurrence of the incident; and
    - ii) identify and put in place any other appropriate remedial action.

- 9.2. The licensee shall, within three 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.
- 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 baling equipment or any other occurrence which results in the closure of the Baling Centre, no municipal waste shall be accepted at the facility until the Baling Centre becomes operational. Any municipal waste on site at the time of the closure shall be removed off site in accordance with this licence. 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.
- 9.5. Contingency Arrangements for Baling Centre
- (i) Contingency arrangements for the Baling Centre shall include;
- (a) In the event of a baler becoming inoperable the licensee shall
- immediately calculate the amount of waste already accepted that day at the facility and the amount of waste in the Baling Centre unbaled.
  - immediately calculate the amount that the facility can process for the remainder of the working day.
  - remove the waste that can not be baled offsite to an appropriate facility at the latest by the end of the working day.
  - arrange for the diversion of waste to appropriate facilities prior to it arriving at the Baling Centre when it can not process the waste.
- (b) Arrangements with appropriate facilities to accept unbaled waste removed offsite and waste diverted prior to arrival at the Baling Centre. Details of the maximum quantities that such facilities can accept for this purpose should be included.
- (c) No waste shall be accepted at the Baling Centre when both balers are inoperable.
- (ii) Within three months of the date of grant of this licence the licensee shall submit a report to the Agency for its agreement on the effectiveness of the contingency arrangements and any recommendations deemed necessary.

**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;
  - 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; 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 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.

**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; and
  - c) in the event of any incident which relates to discharges to surface water or sewer, notify the Eastern Regional Fisheries Board and/or the Sanitary Authority 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 Unless otherwise instructed by the Agency the licensee shall submit to the Agency a monthly report on the quantities of waste received at the facility and baling details to include the following;
- (i) Daily quantity of waste received at the Baling Centre.
  - (ii) Daily quantity of waste baled at the facility.
  - (iii) Details of days and associated quantities of waste transferred from the Baling Centre offsite without baling and to where.

- (iv) Details of the hourly operational status of both of the balers i.e. whether operating, on standby, inoperable due to breakdown or inoperable due to scheduled maintenance.
- 11.4 Within eighteen months of the date of grant of this licence the licensee shall submit proposals to the Agency on actions to be taken by the licensee, in relation to wastes accepted at the facility, which address the requirements of the Landfill Directive on the achievement of recovery targets and the treatment of wastes going to landfill.
- 11.5 Annual Environmental Report
- 11.5.1 The licensee shall submit to the Agency for its agreement, an Annual Environmental Report (AER), by the 31<sup>st</sup> January 2003 and each year thereafter.
- 11.5.2 The AER shall include as a minimum the information specified in *Schedule G: 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 €19,169.00 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 2003 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 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 Decommissioning

- 12.2.1 The licensee shall from a date to be set by the Agency establish and maintain a fund, or provide a written guarantee, that is adequate to assure the Agency that the licensee is at all times financially capable of implementing the Decommissioning and Aftercare Plan required by Condition 4. The type of fund established and means of its release/recovery shall be agreed by the Agency prior to its establishment.
- 12.2.2 Any fund established shall be maintained in an amount always sufficient to underwrite the current Decommissioning and Aftercare Plan.
- 12.2.3 The licensee shall revise the cost of restoration and aftercare annually and any details of the necessary adjustments to the fund or guarantee must, within two weeks of the revision, be forwarded to the Agency for its agreement. Any adjustment agreed by the Agency shall be effected within four weeks of said written agreement.
- 12.2.4 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) <sup>Note 1</sup>
Municipal waste at the Baling Centre	324,480
<b>TOTAL</b>	324,480

**Note 1:** Subject to Conditions 1.7, 5.2.3 and 5.2.5

## SCHEDULE B : Specified Engineering Works

Specified Engineering Works
Modifications to wastewater treatment works.
Modifications to surface water management system.
Development of waste storage areas.
Installation of bunded fuel storage areas.
Installation of waste processing or other equipment.
Installation of negative air pressure and emissions control system
Any other works notified by the Agency.

## SCHEDULE C : Emission Limits

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

Day dB(A) L <sub>Aeq</sub> (30 minutes)	Night dB(A) L <sub>Aeq</sub> (30 minutes)
55	45
<b>Maximum Noise Levels</b>	<b>Fixed Plant:</b> 85dB(A) at 2m from source <b>Mobile Plant:</b> 85dB(A) at 10 from source

### C.2 Dust Deposition Limits: (Measured at the dust monitoring points indicated in Table D.1.2).

Level (mg/m <sup>2</sup> /day) <sup>Note 1</sup>
350

**Note 1:** 30 day composite sample with the results expressed as mg/m<sup>2</sup>/day.

**C.3 Emissions to Surface Water:** Measured at the surface water emission points indicated in Table D.1.1).

Parameter	Emission Limit Value
Mineral oils	5mg/l
COD	150mg/l

**C.4 Emissions to Sewer**

Emission Point Reference No.

Monitoring Location F.6

Parameter	Emission Limit Value		
	Grab Sample (mg/l)	Daily Mean Concentration (mg/l)	Daily Mean Loading (kg/day)
Biological Oxygen Demand	10,000	8,000	800
Chemical Oxygen Demand	30,000	2,400	2,400
Suspended solids	2,000	1,600	160
Oils, Fats and Greases	100		10
PH	5-10		
Maximum Temperature	42°C		
Detergents (as MBAS)	100		10
Sulphates (as SO <sub>4</sub> )	500	400	40
Ammonia	50		5

**C.5 Emissions to Air:**

Emission point grid references (12 digit) to be submitted to the Agency for agreement.

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

## SCHEDULE D : Monitoring

Monitoring to be carried out as specified below.

### D.1 Monitoring Locations

Monitoring locations shall be those as set out in Tables D.1.1 & D.1.2 as indicated in Drawing No. 98-054-01-003 Rev.D of the application.

**Table D.1.1 Noise, Surface Water and Wastewater Monitoring Locations**

NOISE	SURFACE WATER	WASTEWATER
STATIONS	STATIONS	STATIONS
N1	S1	F.6
N2	S2	
N3	S3	
N4	SWE1A	
N5	SWE1B	

**Table D.1.2 Emissions to Atmosphere Monitoring Locations**

DUST	PM <sub>10</sub>	Air Pressure & Emissions Control System
STATIONS	STATIONS	STATIONS
D.1	Note 1	Note 2
D.2		
D.3		

**Note 1:** Locations to be as per dust monitoring locations above.

**Note 2:** Emission point(s) to be agreed with the Agency in accordance with Condition 3.9.

### D.2 Noise

**Table D.2.1 Noise Monitoring Frequency and Technique**

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

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

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

### D.3 Dust

**Table D.3.1 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.4 Surface Water

**Table D.4.1 Surface Water Monitoring Frequency and Techniques**

Parameter	Monitoring Frequency	Analysis Method/Technique
pH	Quarterly	Electrometry
Biological Oxygen Demand	Quarterly	Standard Methods <sup>Note 1</sup>
Chemical Oxygen Demand	Quarterly	Standard Methods <sup>Note 1</sup>
Suspended Solids	Quarterly	Standard Methods <sup>Note 1</sup>
Mineral Oils	Quarterly	Standard Methods <sup>Note 1</sup>

**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 Wastewater

**Table D.5.1 Wastewater Monitoring Frequency and Techniques**

Parameter	Monitoring Frequency	Analysis Method/Technique
Flow to Sewer	Daily	Water meter reading
Biological Oxygen Demand	Quarterly	Standard Methods <sup>Note 1</sup>
Chemical Oxygen Demand	Quarterly	Standard Methods <sup>Note 1</sup>
Suspended Solids	Quarterly	Standard Methods <sup>Note 1</sup>
Oils, Fats, and Greases	Quarterly	Standard Methods <sup>Note 1</sup>
Temperature	Quarterly	Temperature probe
PH	Quarterly	Electrometry
Sulphate	Quarterly	Standard Methods <sup>Note 1</sup>
Ammonia	Quarterly	Standard Methods <sup>Note 1</sup>
Detergents (as MBAs)	Quarterly	Standard Methods <sup>Note 1</sup>

**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.6 Air

**Table D.6.1 PM<sub>10</sub> and Odour Monitoring Frequency and Technique**

Parameter <sup>Note 1</sup>	Monitoring Frequency	Analysis Method/Technique
PM <sub>10</sub> ( µg/m <sup>3</sup> )	Annually	See <sup>Note 2</sup>
Odour <sup>Note 4</sup>	Quarterly <sup>Note 3</sup>	See <sup>Note 3</sup>

**Note 1:** Meteorological monitoring to be carried out concurrently with all above monitoring.

**Note 2:** As described in prEN12341 "Air Quality - field test procedure to demonstrate reference equivalence of sampling methods for PM10 fraction of particulate matter" or an alternative agreed in writing with the Agency.

**Note 3:** Odour measurements shall be by olfactometric measurement and analysis for mercaptans, hydrogen sulphide, ammonia, amines as set out in Table D.6.2.

**Note 4:** Location for odour sampling to be agreed with the Agency.

**Table D.6.2 Emissions to Atmosphere from Negative Air Pressure & Emissions Control System**

Control Parameter	Monitoring Required <sup>Note 2</sup>	Monitoring Equipment	Backup Equipment
Ammonia	Weekly	Colorimetric Indicator Tubes <sup>Note 1</sup>	Spare tubes
Hydrogen sulphide	Weekly	Colorimetric Indicator Tubes <sup>Note 1</sup>	Spare tubes
Mercaptans	Weekly	Colorimetric Indicator Tubes <sup>Note 1</sup>	Spare tubes
Amines	Bi-annually	NIOSH method 2010 <sup>Note 1</sup>	
Odour units	Bi-annually	Olfactometric	
Particulates	Bi-annually	Isokinetic/Gravimetric	

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

**Note 2:** Records shall be kept at the facility of all monitoring and visual checks.

## SCHEDULE E : Recording and Reporting to the Agency

Report	Reporting Frequency <sup>Note1</sup>	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 Surface Water Quality	Quarterly	Ten days after end of the quarter being reported on.
Monitoring of Groundwater Quality	Quarterly	Ten days after end of the quarter being reported on.
Monitoring of Foul water	Quarterly	Ten days after end of the quarter being reported on.
Dust Monitoring	Three times a year	Ten days after the period being reported on
Noise Monitoring	Annually	One month after end of the year being reported on.
PM <sub>10</sub> Monitoring	Annually	One month after end of the year being reported on.
Monitoring of Emissions to Atmosphere & Air quality	Quarterly	Ten days after end of the quarter being reported on.
Odour monitoring	Annually	One month after end of the year being reported on.
Waste quantities received and baling details	Monthly	Five days after the end of each month 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 : Content of the Annual Environmental Report

## Annual Environmental Report Content

Reporting Period.

Waste activities carried out at the facility.

Quantity and Composition of waste baled at the baling station during the reporting period and each previous year.

Quantity of waste received at the civic waste facility during the reporting period and each previous year.

Destinations to where the above wastes were transferred during the reporting period.

Summary report on emissions.

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

Resource and energy consumption summary.

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

Schedule of Environmental Objectives and Targets for the forthcoming year.

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

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

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

Reported Incidents and Complaints summaries, including summary of actions taken to remedy and to mitigate against such incidents/complaints re-occurring.

Report on the use of any funding arising from the waste management operations of the facility which is used on environmental improvement projects in the vicinity of the facility.

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.

Ventilation plant capacity and spares.

Duty and standby capacity of waste handling plant.

Report on the Contingency Arrangements employed at the facility.

Report on the negative air pressure and emissions control system.

Any other items specified by the Agency.

**Signed on behalf of the said Agency**  
on the 8th day of November 2002

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Patrick J. Nolan, Authorised Person