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Ireland

## WASTE LICENCE

## PROPOSED DECISION

<b>Waste Licence Application Register Number:</b>	104-1
<b>Applicant:</b>	Advanced Environmental Solutions (Ireland) Limited
<b>Location of Facility:</b>	Cappincur, Tullamore, County Offaly

# 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 including a civic waste facility located at Cappincur, Tullamore, County Offaly.

The quantity of waste to be accepted at the facility is limited to 24,000 tonnes per annum consisting of household waste, commercial and industrial waste, C&D waste and household hazardous waste.

All waste will be processed inside the transfer station by segregating and baling recyclable waste and removing the residual to landfill for disposal. Receptacles will be provided at the civic waste facility for collection/storage of various recyclable wastes such as bottles, metals, white goods which will be sent for recycling/recovery off site. The facility is also licensed to accept a limited quantity of household hazardous waste (e.g. waste oil, fluorescent tubes and batteries) at the civic waste facility.

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 licence sets out in detail the conditions under which Advanced Environmental Solutions (Ireland) Limited will operate and manage this facility.

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# ***DECISION & REASONS FOR THE DECISION***

## ***Reasons for the Decision***

On the basis of the information before it, the Environmental Protection Agency is satisfied that the waste activity, or activities, licensed hereunder will comply with the requirements of Section 40(4) of the Waste Management Acts, 1996-2003.

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

### ***Part I Schedule of Activities Licensed***

In pursuance of the powers conferred on it by the Waste Management Acts, 1996-2003, the Environmental Protection Agency (the Agency) proposes, under Section 40(1) of the said Act to grant this Waste Licence to Advanced Environmental Solutions (Ireland) Limited to carry on the waste activities listed below at Cappincur, Tullamore, County Offaly 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 Acts, 1996-2003*

<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 the mixing of waste prior to baling/bulking.
<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/bulking of waste prior to the transfer for disposal off site.
<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 is produced.</b>  This activity is limited to the storage of waste prior to the baling/bulking and transfer for disposal off-site.

#### *Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Acts, 1996-2003*

<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 segregation and baling of plastics, cardboard and paper as well as collection of newsprint, textiles, timber, waste oils, wood, paints prior to recovery off-site.
<b>Class 3.</b>	<b>Recycling or reclamation of metals and metal compounds:</b>  This activity is limited to the segregation of aluminium cans, tin cans, scrap metal, batteries and white goods prior to recovery off-site.
<b>Class 4.</b>	<b>Recycling or reclamation of other inorganic materials:</b>  This activity is limited to the segregation of construction and demolition waste, DIY

waste, electronics, glass and tyres prior to recovery off-site.

**Class 12. Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule:**

This activity is limited to exchange of waste that can be reclaimed and reused such as timber pallets.

**Class 13. Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced:**

This activity is limited to the storage of waste types authorised by this licence at the facility prior to recovery off-site.

# 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>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, duly authorised under relevant law and technically suitable.
<b>BATNEEC</b>	Best Available Technology Not Entailing Excessive Cost as defined in Section 5(2) of the Act.
<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>	All movements of hazardous waste within Ireland must be accompanied by a “C1” consignment note issued by a local authority under the Waste Management (Movement of Hazardous Waste) Regulations (SI No. 147 of 1998).
<b>Construction and Demolition Waste</b>	All wastes which arise from construction, renovation and demolition activities.
<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

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
<b>Incident</b>	<p>The following shall constitute an incident for the purposes of this licence:</p> <ul style="list-style-type: none"><li>a) an emergency;</li><li>b) any emission which does not comply with the requirements of this licence;</li><li>c) any exceedance of the daily duty capacity of the waste handling equipment;</li><li>d) any trigger level specified in this licence which is attained or exceeded; and</li></ul> <p>any indication that environmental pollution has, or may have, taken place.</p>
<b>Industrial Waste</b>	As defined in Section 5(1) of the Act.
<b>Inert waste</b>	Waste as defined in SI 336 of 2002 Waste Management (Licensing) (Amendment) Regulations, 2002.
<b>Landfill Directive</b>	Council Directive 1999/31/EC.
<b>Licence</b>	A Waste Licence issued in accordance with the Act.
<b>Licensee</b>	Advanced Environmental Solutions (Ireland) Ltd.
<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>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>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>Wastewater</b>	Contaminated water including water that has been used, for washing, and/or flushing (including foul water).
<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.



## ***PART III 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. B.2.1 *Site Map (Boundary in red)* of the Article 14 reply submitted 13/08/03. Any reference in this licence to “facility” shall mean this area outlined in red.
- 1.3 This licence is for the purposes of waste licensing under the Waste Management Acts, 1996-2003 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 Waste shall be accepted at the facility only from customers who are holders of a waste permit, unless exempted, under the Waste Management (Collection Permit) Regulations 2001 or from other licensed/permitted facilities.
- 1.5 Only those waste categories and quantities listed in *Schedule A: Waste Acceptance* of this licence, shall be accepted at the facility.
- 1.6 No hazardous wastes or liquid wastes (excluding household hazardous waste listed in *Schedule A: Waste Acceptance*) shall be accepted at the facility.
- 1.7 Waste Acceptance Hours and Hours of Operation
  - 1.7.1 Waste shall be accepted at the facility only between the hours of 8:00 to 19:00 Monday to Saturday inclusive.
  - 1.7.2 The facility shall be operated only during the hours of 7:00 to 20:00 Monday to Saturday inclusive.
  - 1.7.3 Waste shall not be accepted at the facility on Sundays or on Bank Holidays.
- 1.8 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 The Civic Waste Facility shall be supervised by an appropriately qualified and competent person at all times when waste may be accepted.

2.1.3 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 by the Agency) and associated on site assessment appraisal within twelve months of appointment.

2.1.4 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience, as required and shall be aware of the requirements of this licence.

## 2.2 Management Structure

2.2.1 Within three months from the date of grant of this licence, the licensee shall submit written details of the management structure of the facility to the Agency. Any proposed replacement in the management structure shall be notified in advance in writing to the Agency. Written details of the management structure shall include the following information.

- a) the names of all persons who are to provide the management and supervision of the waste activities authorised by the licence, in particular the name of the facility manager and any nominated deputies;
- b) details of the responsibilities for each individual named under a) above; and
- c) details of the relevant education, training and experience held by each of the persons nominated under a) above.

## 2.3 Environmental Management System (EMS)

2.3.1 The licensee shall establish and maintain an EMS. Within eighteen months from the date of grant of this licence, the licensee shall submit to the Agency for its agreement a proposal for a documented Environmental Management System (EMS) for the facility. Following the agreement of the Agency, the licensee shall establish and maintain such a system. The EMS shall be updated on an annual basis with amendments being submitted to the Agency for its agreement.

2.3.2 The EMS shall include as a minimum the following elements:

### 2.3.2.1 Schedule of Environmental Objectives and Targets

The objectives should be specific and the targets measurable. The Schedule shall address a five-year period as a minimum. The Schedule shall include a time-scale for achieving the objectives and targets and shall comply with any other written guidance issued by the Agency.

### 2.3.2.2 Environmental Management Plan (EMP)

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

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

2.3.2.3 Corrective Action Procedures

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

2.3.2.4 Awareness and Training Programme

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

2.4 Communications Programme

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

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

### CONDITION 3 FACILITY INFRASTRUCTURE

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

3.2 Specified Engineering Works

- 3.2.1 The licensee shall submit proposals for all Specified Engineering Works, as defined in *Schedule B: Specified Engineering Works* of this licence, to the Agency for its agreement at least two months prior to the intended date of commencement of any such works. No such works shall be carried out without the prior agreement of the Agency.

- 3.2.2 All specified engineering works shall be supervised by a competent person(s) and that person, or persons, shall be present at all times during which relevant works are being undertaken.

- 3.2.3 Following the completion of all specified engineering works, the licensee shall complete a construction quality assurance validation. The validation report shall be made available to the Agency on request. The report shall include the following information:-

- a) a description of the works;
- b) as-built drawings of the works;
- c) records and results of all tests carried out (including failures);
- d) drawings and sections showing the location of all samples and tests carried out;
- e) daily record sheets/diary;
- f) name(s) of contractor(s)/individual(s) responsible for undertaking the specified engineering works;
- g) name(s) of individual(s) responsible for supervision of works and for quality assurance validation of works;
- h) records of any problems and the remedial works carried out to resolve those problems; and
- i) any other information requested in writing by the Agency.

### 3.3 Facility Notice Board

3.3.1 The licensee shall 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 Within six months from the date of grant of this licence, the licensee shall install and maintain security fencing, gates and closed circuit television (CCTV) around the facility boundary. 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 Site Surfaces

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

3.5.2 The licensee shall provide, and maintain an impermeable concrete surface in all areas of the facility, the surfaces shall be concreted and constructed to British Standard 8110 or an alternative as agreed by the Agency.

### 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 Within six months from the date of grant of this licence, the licensee shall provide and maintain a Waste Inspection Area and a separate Waste Quarantine Area at the facility.

- 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.
- 3.7.3 Drainage from these areas shall be diverted for collection and safe disposal.
- 3.7.4 The waste quarantine area shall be secured and rendered impervious to the material stored therein.
- 3.8 Weighbridge
- 3.8.1 The licensee shall provide and maintain a weighbridge at the facility.
- 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:-
- a) 100% duty capacity;
  - b) 50% standby capacity available on a routine basis; and
  - c) Provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment.
- 3.9.2 Within six months from the date of grant of this licence, the licensee shall provide a report for the agreement of the Agency detailing the duty and standby capacity in tonnes per day, of all waste handling and processing equipment to be used at the facility. These capacities shall be based on the licensed waste intake, as per *Schedule A: Waste Acceptance*, of this licence.
- 3.9.3 The quantity of waste to be accepted at the facility on a daily basis shall not exceed the duty capacity of the equipment at the facility. Any exceedance of this intake shall be treated as an incident.
- 3.10 Wastewater Treatment System
- 3.10.1 The licensee shall provide and maintain an on-site Wastewater Treatment System at the facility for the treatment of toilet and canteen wastewater. The treatment system and percolation area shall satisfy the criteria set out in the Wastewater Treatment Manual, *Treatment Systems for Single Houses*, published by the Environmental Protection Agency.
- 3.11 Tank and Drum Storage Areas
- 3.11.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein.
- 3.11.2 All tank and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:-
- a) 110% of the capacity of the largest tank or drum within the bunded area; or
  - b) 25% of the total volume of substance which could be stored within the bunded area.
- 3.11.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.11.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.

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 six months of the date of grant of this licence or 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.

### 3.12 Drainage system, pipeline testing

3.12.1 The drainage systems described below for wastewater and surface water run-off shall be installed within six months from the date of grant of this licence, unless otherwise agreed by the Agency.

3.12.2 Wastewater from toilets and canteen shall be discharged to the Wastewater Treatment System installed on site.

3.12.3 Wastewater excluding toilet and canteen wastewater shall be discharged to on-site storage tanks and tankered off-site in fully enclosed road tankers to an appropriate Wastewater Treatment Plant, agreed in advance by the Agency.

3.12.4 Surface water run-off from areas with waste storage/handling shall pass via a silt trap and a dedicated interceptor prior to being discharged to the piped drainage system discharging to Tullamore River.

3.12.4.1 On exceedance of the surface water emission limit values, the contaminated surface water run-off shall be tankered off-site in fully enclosed road tankers to an appropriate Wastewater Treatment Plant, agreed in advance by the Agency.

3.12.4.2 Within six months from the date of grant of this licence, the licensee shall submit a report assessing whether treatment of the process area surface water run-off is required.

3.12.4.3 The dedicated interceptor shall be a Class I full retention interceptor. The silt trap and interceptor shall be in accordance with European Standard prEN 858 (installations for the separation of light liquids).

3.12.4.4 The dedicated interceptor shall have the capacity to hold 1/100 of annual average rainfall from the outdoors waste storage/handling area(s).

3.12.4.5 A manual shut-off valve shall be installed at the interceptor.

3.12.5 Uncontaminated surface water run-off from non process areas shall be discharged to the piped drainage system discharging to Tullamore River.

3.12.5.1 The uncontaminated surface water run-off excluding run-off from roof buildings shall pass via a silt trap and oil interceptor. The interceptor shall be a Class I full retention interceptor. The silt trap and interceptor shall be in accordance with European Standard prEN 858 (installations for the separation of light liquids).

3.12.5.2 A manual shut-off valve shall be installed at the interceptor.

3.12.6 The licensee shall submit a drawing to the Agency within three months of the date of grant of this licence, indicating all drainage arrangement at the site as detailed in the licence.

- 3.12.7 Within three months from the date of grant of this licence, all foul sewer gullies, drainage grids and manhole covers shall be painted with red squares whilst all surface water discharge gullies, drainage grids and manhole covers shall be painted with blue triangles. These colour codes shall be maintained so as to be visible at all times during facility operation, and any identification designated in this licence (e.g. SW1) shall be inscribed on these manholes.
- 3.12.8 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.
- 3.12.9 The integrity and water tightness of all underground pipes and tanks (used for other than uncontaminated water) and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee and shall be reported to the Agency following their installation and prior to their use. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.

### 3.13 Civic Waste Facility

- 3.13.1 The licensee shall submit to the Agency for its agreement, a proposal detailing the layout and design of the Civic Waste Facility prior to commencement of waste activities at the Civic Waste Facility.
- 3.13.2 The household hazardous waste area shall be appropriately sized, secure, bunded and surfaced to deal with spillages of liquids.

### 3.14 Monitoring Infrastructure

#### 3.14.1 Groundwater

- (i) Within three months from the date of grant of this licence, the licensee shall install three groundwater monitoring points to allow for the sampling and analyses of groundwater at a location to be agreed by the Agency prior to installation. The existing well on site may be proposed for inclusion as one of the three boreholes to be installed, subject to assessment of suitability.

#### 3.14.2 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 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 All waste processing shall be carried out inside the waste transfer building.
- 5.2 Waste Acceptance and Characterisation Procedures
  - 5.2.1 Within six months of the date of grant of this licence, the licensee shall submit to the Agency for its agreement detailed written procedures for the acceptance and handling of all wastes.
  - 5.2.2 Waste arriving at the facility shall be inspected at the point of entry to the facility and subject to this inspection, weighed, documented and directed to the Waste Transfer Building. Each load of waste arriving at the Waste Transfer Building shall be inspected upon tipping within this building. Only after such inspections shall the waste be processed for disposal or recovery.
  - 5.2.3 Any waste deemed unsuitable for processing at the facility and/or in contravention of this licence shall be immediately separated and removed from the facility at the earliest possible time. Temporary storage of such wastes shall be in a designated Waste Quarantine Area. Waste shall be stored under appropriate conditions in the quarantine area to avoid putrefaction, odour generation, the attraction of vermin and any other nuisance or objectionable condition.
  - 5.2.4 A record of all inspections of incoming waste loads shall be maintained.
- 5.3 Operational Controls
  - 5.3.1 The floor of the waste transfer building shall be washed down weekly. The floor of the storage bays for recovered wastes shall be washed down and cleaned on each occasion such bays are emptied.
  - 5.3.2 Scavenging shall not be permitted at the facility.
  - 5.3.3 Gates shall be locked shut when the facility is unsupervised.
  - 5.3.4 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
  - 5.3.5 Fuels shall be stored only at appropriately bunded locations on the facility.
  - 5.3.6 All tanks and drums shall be labelled to clearly indicate their contents.
  - 5.3.7 No smoking shall be allowed on the facility (other than in the office).
- 5.4 Off-site Disposal and Recovery
  - 5.4.1 All waste transferred from the facility shall be transferred by an authorised or exempted carrier, and only to an appropriate facility agreed by the Agency. Any request for agreement of such a facility shall be forwarded to the Agency at least one month in advance of its proposed use and shall include the following;
    - (i) A copy of the waste permit or waste licence where applicable.
    - (ii) The proposed waste types and quantities.
    - (iii) Details of any limitations on waste types and quantities acceptable at the facility.
- 5.5 Civic Waste Facility



- 5.5.1 The Civic Waste Facility shall be used only by private vehicles. 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.
- 5.5.2 The following wastes shall be accepted at the Civic Waste Facility: glass, beverage cans, white goods, batteries, waste oils, papers, cardboard, plastic bottles, newsprint, paper, metals, textiles, DIY waste, electrical goods, wood, tyres, paint, green waste and juice/milk cartons, unless otherwise agreed by the Agency.
- 5.5.3 All waste deposited in the Civic Waste Facility shall be either:-
- (a) into a skip;
  - (b) into a receptacle for recovery;
  - (c) into a bunded area; or
  - (d) in the case where inspection is required, into a designated inspection area.
- 5.5.4 The licensee shall assign and clearly label each container at the Civic Waste Facility to indicate their contents.
- 5.5.5 At the end of the working day the floor of the Civic Waste Facility shall be cleared of waste.
- 5.5.6 All waste accepted at the Civic Waste Facility for disposal off-site shall be removed within 24 hours of its arrival on-site.
- 5.6 Maintenance
- 5.6.1 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 Landscaping
- 5.7.1 Landscaping of the facility shall be carried out within twelve months of the date of grant of this licence.
- 5.7.2 The existing hedgerow network which forms the northern boundary of the facility shall be retained by the licensee as indicated in Attachment C.7 Existing Environment – Landscape of the Additional Information to Supplement Original Application submitted 18/03/02.

**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 Emissions to Surface Water
- 6.3.1 No wastewater shall be discharged to surface water drains and water courses.
- 6.3.2 The trigger levels for surface water discharges from the facility measured at the discharge points into the piped drainage ditch are:-
- a) BOD 25mg/l
  - b) Suspended Solids 35mg/l
- 6.3.3 No substance shall be discharged in a manner, or at a concentration which, following initial dilution causes tainting of fish or shellfish.
- 6.4 There shall be no direct emissions to groundwater.
- 6.5 There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at the noise sensitive locations.

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

## **CONDITION 7 NUISANCE CONTROL**

- 7.1 The licensee shall ensure that vermin, birds, flies, mud, dust, litter and odours do not give rise to nuisance at the facility or in the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution.
- 7.2 The road network in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay.
- 7.3 Litter Control
- 7.3.1 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.
- 7.3.2 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.
- 7.4 Dust/Odour Control
- 7.4.1 All putrescible 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, except at Bank Holiday weekends. At Bank Holiday weekends, putrescible waste for disposal shall be removed from site within seventy-two hours of its arrival on site.
- 7.4.2 In dry weather, site roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
- 7.4.3 All stockpiles of construction and demolition waste shall be maintained so as to minimise dust generation.

7.4.4 Within nine months of the date of grant of this licence, 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:-

7.4.4.1 Dust curtains shall be maintained on the entry/exit points from the waste transfer building, all other doors in this building shall be kept closed where possible.

7.4.4.2 Installation of an odour management system.

7.4.4.3 Provision of 100% duty capacity and 50% stand by capacity, back ups and spares must be provided for the air handling, ventilation and abatement plant.

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

## CONDITION 8 MONITORING

8.1 The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule D: Monitoring* of this licence. Unless otherwise specified by this licence, all environmental monitoring shall commence no later than two months after the date of grant of this licence.

8.2 The licensee shall amend the frequency, locations, methods and scope of monitoring as required by this licence only upon the written instruction of the Agency and shall provide such information concerning such amendments as may be requested in writing by the Agency. Such alterations shall be carried out within any timescale nominated by the Agency.

8.3 Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturers' instructions (if any) so that all monitoring results accurately reflect any emission, discharge or environmental parameter.

8.4 The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.

8.5 The licensee shall maintain all sampling and monitoring locations and clearly label and name all sampling and monitoring locations, so that they may be used for representative sampling and monitoring.

8.6 Within three months of the date of grant of this licence, the licensee shall submit to the Agency an appropriately scaled drawing(s) showing all the monitoring locations that are stipulated in this licence including any noise sensitive locations to be monitored. The drawing(s) shall include the eight-digit national grid reference of each monitoring point.

8.7 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.

8.8 Within one month of the date of grant of this licence, the following information shall be submitted to the Agency for its agreement: the names, qualifications and a summary of relevant experience of all persons that will carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring. Any proposed changes to the above shall be submitted in writing to the Agency for its agreement.

- 8.9 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.
- 8.10 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; and
  - f) provide a proposal to the Agency for its agreement within one month of the incident occurring to:-
    - i) identify and put in place measures to avoid reoccurrence of the incident; and
    - ii) identify and put in place any other appropriate remedial action.
- 9.2. Within six months of the date of grant of this licence, submit a written Emergency Response Procedure (ERP) to the Agency for its agreement. The ERP shall address any emergency situations which may originate on the facility and shall include provision for minimising the effects of any emergency on the environment. This shall include a risk assessment to determine the requirements at the facility for fire fighting and fire water retention facilities. The Fire Authority shall be consulted by the licensee during this assessment.
- 9.3. The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility. Once used the absorbent material shall be disposed of at an appropriate facility.
- 9.4. Emergencies
- 9.4.1. In the event of a complete breakdown of equipment or any other occurrence which results in the closure of the transfer station building, any waste arriving at or already collected at the facility shall be transferred directly to appropriate landfill sites or any other appropriate facility until such time as the transfer station building is returned to

a fully operational status. Such a breakdown event will be treated as an emergency and rectified as soon as possible.

- 9.4.2. All significant spillages occurring at the facility shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects.
- 9.4.3. No waste shall be burnt within the boundaries of the facility. A fire at the facility shall be treated as an emergency and immediate action shall be taken to extinguish it and notify the appropriate authorities.
- 9.4.4. In the event that monitoring of local wells indicates that the facility is having a significant adverse effect on the quantity and/or quality of the water supply this shall be treated as an emergency and the licensee shall provide an alternative supply of water to those affected.

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

## **CONDITION 10 RECORDS**

10.1 The licensee shall keep the following documents at the facility office:-

- a) the current waste licence relating to the facility;
- b) the current EMS for the facility;
- c) the previous year's AER for the facility;
- d) all written procedures produced by the licensee which relate to the licensed activities; and
- e) licence application(s);

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 collection permit 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 including the waste licence and waste permit register number of these facilities as appropriate; and
- j) where applicable a consignment note number (including transfrontier shipment notification and movement/tracking form numbers, as appropriate).

10.3 Written Records

The following written records shall be maintained by the licensee:-

- a) the types and quantities of waste recovered at the facility each year. These records shall include the relevant EWC Codes and any details required to complete national reports on waste statistics;
  - 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) results from monitoring of process area surface water run-off.
- 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 wastewater/contaminated surface water run-off removed from the facility. The record shall include the following:-
- a) the name of the carrier;
  - b) the date and time of removal of wastewater/contaminated surface water run-off from the facility;
  - c) the volume of wastewater/contaminated surface water run-off, in cubic metres, removed from the facility on each occasion;
  - d) the name and address of the Waste Water Treatment Plant to which the wastewater/contaminated surface water run-off was transported; and
  - e) any incidents or spillages of wastewater/contaminated surface water run-off during its removal or transportation.
- 10.6 A written record shall be kept for each load of waste departing from the Civic Waste Facility. The following shall be recorded:-
- a) the name of the carrier including permit number as appropriate;
  - 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 including the associated EWC codes (if recovered or rejected waste, the specific nature of the waste);
  - e) the quantity of waste, recorded in tonnes;
  - f) the name of the person checking the load; and,
  - g) the time and date of departure.
- 10.7 A written record shall be kept at the facility of the programme for the control and eradication of vermin and fly infestations at the facility. These records shall include as a minimum the following:-

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

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

## **CONDITION 11 REPORTS AND NOTIFICATIONS**

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

- a) be sent to the Agency's Headquarters;
- b) comprise one original and three copies unless additional copies are required;
- c) be formatted in accordance with any written instruction or guidance issued by the Agency;
- d) include whatever information as is specified in writing by the Agency;
- e) be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;
- f) be submitted in accordance to the relevant reporting frequencies specified by this licence, such as in *Schedule E: Recording and Reporting to the Agency* of this licence;
- g) be accompanied by a written interpretation setting out their significance in the case of all monitoring data; and
- h) be transferred electronically to the Agency's computer system if required by the Agency.

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

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

### 11.3 Waste Recovery Reports

Within six months of the date of grant of this licence, a report examining waste recovery options shall be submitted to the Agency for its agreement. This report shall address methods to contribute to the achievement of the recovery targets stated in national and European Union waste policies and shall include the following:-

- a) proposals for the contribution of the facility to the achievement of targets for the reduction of biodegradable waste to landfill as specified in the Landfill Directive;
- b) the separation of recyclable materials from the waste;
- c) the recovery of Construction and Demolition Waste;
- d) the recovery of metal waste and white goods; and
- e) the recovery of commercial waste, including cardboard;

### 11.4 Annual Environmental Report

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

11.4.2. 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 € **12,278** 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 Acts, 1996-2003. The licensee shall in 2005 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 2004, 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 in regard to items not covered by the said annual contribution.

### 12.2 Financial Provision for Closure, Restoration and Aftercare



- 12.2.1 The licensee shall arrange for an independent third party risk assessment of the facility to be carried out. The risk assessment shall have particular regard to any accidents, emergencies, or other incidents, which might occur at the facility and their effect on the environment. The risk assessment shall include a comprehensive and fully costed Environmental Liabilities Risk Assessment for the facility together with a proposal for Financial Provision arising from the carrying on of the activities to which this licence relates including the restoration of the facility. The risk assessment shall be submitted to the Agency for its agreement within six months of the date of grant of this licence
- 12.2.2 The licensee shall within six months of the date of grant of this licence establish and maintain a fund, or provide a written guarantee for the costs determined under condition 12.2.1. The type of fund established and means of its release/recovery shall be agreed by the Agency prior to its establishment.
- 12.2.3 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.

- 12.2.4 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 solid waste	6,500
Commercial & Industrial waste <sup>Note 2</sup>	14,100
C&D Waste	3,300
Household Hazardous Waste (as listed in A.2 below)	100
<b>TOTAL</b>	<b>24,000</b>

**Note 1:** The quantities of the individual waste types may be adjusted, only with the agreement of the Agency, subject to the total waste quantity remaining the same.

**Note 2:** The Commercial & Industrial waste shall only consist of dry recyclables and not contain any putrescible waste.

### A.2 Household Hazardous Waste to be accepted at the site<sup>Note 1</sup>

WASTE TYPE	EWC Code
Batteries	20 01 33*
Paint	20 01 27*
Waste Oil	13 02 04* - 13 02 08*
White goods	16 02 11* / 20 01 23*
Fluorescent Tubes	20 01 23*
Electrical goods	20 01 36*

**Note 1:** Unless otherwise agreed by the Agency.

## SCHEDULE B : Specified Engineering Works

Specified Engineering Works
Installation of dust/odour system.
Installation of waste handling, processing, recycling/recovery infrastructure and installation of increased waste processing capacity.
Installation of Civic Waste Facility.
Installation of wastewater and surface water run-off drainage systems.
Installation of silt traps and oil interceptors.
Installation of leachate treatment system.
Installation of groundwater monitoring wells.
Installation of Waste Quarantine Area.
Installation of bunds.
Any other works notified in writing by the Agency.

## SCHEDULE C : Emission Limits

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

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

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

Level (mg/m <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 Surface Water Discharge Limits:** Measured at any discharge points into the piped drainage ditch. Locations to be documented in a plan to be submitted to the Agency within three months of date of grant of the licence.

Parameter	Emission Limit Value
Mineral oils	5mg/l
Ammonical Nitrogen	0.02 mg/l N
Chloride	250 mg/l Cl
Biological Oxygen Demand	≤ 5 mg/l O <sup>2</sup>
Suspended Solids	≤ 25 mg/l
Conductivity	1000 μS/cm
PH	6.0 – 9.0

## SCHEDULE D: Monitoring

Monitoring to be carried out as specified below.

### D.1 Monitoring Locations

Monitoring locations shall be those as set out in Table D.1.1 and Drawing J.1.1 *Location of all monitoring points at the Rentabin site* of Art.14 reply submitted 27/01/03.

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

NOISE	DUST	SURFACE WATER	GROUNDWATER	WASTEWATER
STATIONS	STATIONS	STATIONS	STATIONS	STATIONS
N1	D1	AES S01	Three monitoring wells <sup>Note 2</sup>	One wastewater monitoring location <sup>Note 3</sup>
N2	D2	AES S03		
N3	D3	Two surface water monitoring locations <sup>Note 1</sup>		
N4	D4			
N5				
Any noise sensitive locations				

**Note 1:** The monitoring locations to be agreed by the Agency shall be located at the discharge points into the piped drainage ditch.

**Note 2:** The location of the groundwater monitoring wells to be agreed by the Agency prior to installation in accordance with Condition 3.15.

**Note 3:** The location of the wastewater monitoring point to be agreed by the Agency prior to installation.

### D.2 Dust

**Table D.2.1 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.3 Noise

**Table D.3.1 Noise Monitoring Frequency and Technique**

Parameter	Monitoring Frequency	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."

### D.4 Surface Water Emissions

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

Parameter	Monitoring Frequency	Analysis Method/Technique
<b>PH</b>	Quarterly	Electrometry
<b>Biological Oxygen Demand</b>	Quarterly	Standard Methods <sup>Note 1</sup>
<b>Chemical Oxygen Demand</b>	Quarterly	Standard Methods <sup>Note 1</sup>
<b>Ammoniacal Nitrogen</b>	Quarterly	Standard Methods <sup>Note 1</sup>
<b>Chloride</b>	Quarterly	Standard Methods <sup>Note 1</sup>
<b>Suspended Solids</b>	Quarterly	Standard Methods <sup>Note 1</sup>
<b>Conductivity</b>	Quarterly	Standard Methods <sup>Note 1</sup>
<b>Mineral Oils</b>	Quarterly	Standard Methods <sup>Note 1</sup>
<b>Fats, Oils, Grease</b>	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.

**Note 2:** The contaminated surface water run-off held in a dedicated oil interceptor shall be monitored prior to discharge to the piped drainage ditch for the following parameters: pH, Chemical Oxygen Demand, Ammoniacal Nitrogen, Chloride and Conductivity. The licensee shall maintain a written record of these monitoring results.

### D.5 Wastewater Emissions

**Table D.5.1 Wastewater tankered off-site - Monitoring Frequency and Techniques**

Parameter	Monitoring Frequency	Analysis Method/Technique
<b>pH</b>	Bi-annually	Electrometry
<b>Biological Oxygen Demand</b>	Bi-annually	Standard Methods <sup>Note 1</sup>
<b>Chemical Oxygen Demand</b>	Bi-annually	Standard Methods <sup>Note 1</sup>
<b>Suspended Solids</b>	Bi-annually	Standard Methods <sup>Note 1</sup>
<b>Ammoniacal nitrogen</b>	Bi-annually	Standard Methods <sup>Note 1</sup>
<b>Mineral Oil</b>	Bi-annually	Standard Methods <sup>Note 1</sup>
<b>Fats, Oils, Grease</b>	Bi-annually	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 Groundwater

**Table D 6.1 Groundwater - Parameters /Frequency**

<b>PARAMETER</b> <sup>Note 1</sup>	<b>MONITORING FREQUENCY</b>
<b>Visual Inspection/Odour</b>	<b>Monthly</b>
<b>Ammoniacal Nitrogen</b>	<b>Quarterly</b>
<b>Electrical Conductivity</b>	<b>Quarterly</b>
<b>pH</b>	<b>Quarterly</b>
<b>Diesel Range Organic</b>	<b>Quarterly</b>
<b>Groundwater Level</b>	<b>Annually</b>
<b>Chloride</b>	<b>Annually</b>
<b>Temperature</b>	<b>Annually</b>
<b>Metals / non metals</b> <sup>Note 2</sup>	<b>Annually</b>
<b>Cyanide (Total)</b>	<b>Annually</b>
<b>Fluoride</b>	<b>Annually</b>
<b>List I/II organic substances</b> <sup>Note 3</sup>	<b>Annually</b>
<b>Arsenic</b>	<b>Annually</b>
<b>Mercury</b>	<b>Annually</b>
<b>Sulphate</b>	<b>Annually</b>
<b>Total Alkalinity</b>	<b>Annually</b>
<b>Total Organic Carbon</b>	<b>Annually</b>
<b>Faecal Coliforms</b>	<b>Annually</b>
<b>Total Coliforms</b>	<b>Annually</b>

**Note 1:** All the analysis shall be carried out by a competent laboratory using standard and internationally accepted procedures.

**Note 2:** Metals and elements to be analysed by AA/ICP should include as a minimum: boron, cadmium, calcium, chromium (total), copper, iron, lead, magnesium, manganese, nickel, potassium, sodium and zinc.

**Note 3:** Samples screened for the presence of organic compounds using Gas Chromatography / Mass Spectrometry (GC/MS) or other appropriate techniques and using the list I/II Substances from EU Directive 76/464/EEC and 80/68/EEC as a guideline. Recommended analytical techniques include: volatiles (US Environmental Protection Agency method 524 or equivalent), semi-volatiles (USEPA method 525 or equivalent, and pesticides (USEPA method 608 or equivalent).

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

Summary report on emissions.

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

Resource and energy consumption summary.

Development / Infrastructural works in place and planned, to process waste quantities projected for the following year (including plant operating capacity, provision of adequate standby capacity and provision of contingency, backup and spares in the case of breakdown).

Schedule of Environmental Objectives and Targets for the forthcoming year.

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

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

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

Reported Incidents and Complaints summaries.

Review of Nuisance Controls.

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

Report on training of staff.

Volume of wastewater produced and volume of wastewater transported off-site.

Any other items specified by the Agency.

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

**Signed on behalf of the said Agency**  
on the 22nd day of January 2004

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Ray Cullinane **Authorised Person**