



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

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of licence Reg. No. W0169-01 granted on the 7<sup>th</sup> August 2003, and amended on 27<sup>th</sup> September 2006 and 16<sup>th</sup> December 2015, as well as any amendments noted herein, any emissions from the activity will comply with and not contravene any of the requirements of Section 83(5) of the Environmental Protection Agency Act 1992 as amended.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the activities, individually or in combination with other plans or projects are likely to have a significant effect on any European Site.

The activities are not directly connected with or necessary to the management of any European Site and the Agency considered, for the reasons set out below, that it can be excluded, on the basis of objective information, that the activities, individually or in combination with other plans or projects, will have a significant effect on any European Site and accordingly determined that an Appropriate Assessment of the activities was not required.

This determination is based on the fact that the technical amendment is adding more stringent conditions to the licence resulting in greater licence controls and thus further ensuring that the activity will not have a significant effect on any European Site.

## ***Technical Amendment***

In pursuance of the powers conferred on it by Section 96(1)(c) of the Environmental Protection Agency Act 1992 as amended, the Agency amends the licence granted to Mulleady's Limited, Cloonagh, Drumlish, County Longford for an installation located at Cloonagh, Drumlish, County Longford.

Henceforth, the licence shall be read in conjunction with a Section 76A(11) Amendment issued on 16<sup>th</sup> December 2015, Amendment A issued on 27<sup>th</sup> September 2006 and the amendments set out below.

This technical amendment is limited to the following Interpretation and Conditions of Licence Reg. No. W0169-01:

# Amendments

## Amend the Interpretation as follows:

*To be inserted into the Interpretation of the existing licence.*

- LoW**            List of Waste
- Storage**       Includes holding of waste

## New Conditions or Amended Conditions

*Insert New Condition 4.13, to read as follows:*

### Condition 4. Facility Operations

#### 4.13    Waste Storage

- 4.13.1    Unless otherwise agreed by the Agency, the maximum quantity of waste stored at the installation at any one time shall be restricted by the Waste Storage Plan as required under Condition 4.14.

*Insert New Condition 4.14, to read as follows:*

#### 4.14    Waste Storage Plan

- 4.14.1    The licensee shall, within twelve months of the date of this amendment, establish, maintain and implement a Waste Storage Plan for all waste stored at the installation.
- 4.14.2    The Waste Storage Plan shall be adequate to ensure compliance with all conditions of this licence.
- 4.14.3    The Waste Storage Plan shall be to the satisfaction of the Agency at all times.

4.14.4 The Waste Storage Plan shall incorporate:

- the recommendations of the Fire Risk Assessment required by Condition 8.6 of this licence;
- a limit on the total quantity of waste to be stored at the installation at any one time;
- maximum stockpile sizes in designated storage areas including maximum volume, height, length, width and area, and minimum separation distances;
- a limit on the maximum storage or holding period for each type of waste in designated storage areas;
- limitations, as may be necessary, on waste storage arrangements to be used to prevent odour nuisance;
- a drawing or plan of the location of each waste type and the means of storage for each waste type (e.g. as loose waste, baled, in sealed containers);
- details of the drainage system super-imposed on the above drawing or plan; and
- a designated fire quarantine area that is:
  - available at all times to aid separation and management of wastes during a fire incident; and
  - is different to the quarantine area set aside for unacceptable wastes.

4.14.5 Waste storage practices at the installation shall comply with the Waste Storage Plan at all times.

4.14.6 Where bales of waste are stored, the licensee shall maintain and implement a bale identity and tracking system. Each bale shall be labelled with:

- its date of production;
- its content and LoW code; and
- the name of the facility where the bale was produced and its licence register number.

4.14.7 Waste accepted or generated at the installation shall be stored only in designated areas that have been identified in the Waste Storage Plan.

4.14.8 All designated areas for storage of waste shall be:

- clearly labelled;
- appropriately segregated; and
- visibly or physically delineated by walls, dividers, painted lines or marks on the ground or other methods acceptable to the Agency.

4.14.9 The Emergency Response Procedure (as required under Condition 8.2) shall include an up-to-date copy of the Waste Storage Plan.

**Reason:** *To provide for the appropriate handling of material and the protection of the environment.*

*Insert New Condition 8.6, to read as follows:*

**Condition 8. Contingency Arrangements**

8.6 The licensee shall arrange, within six months of the date of this amendment and every three years thereafter or as directed by the Agency, for the completion, by an independent and appropriately qualified consultant, of a fire risk assessment for the facility. The assessment shall examine all relevant factors on site that impinge on fire risk and prevention. The assessment shall have regard to the EPA Guidance Note: *Fire Safety at Non-Hazardous Waste Transfer Stations, 2013* and the EPA Guidance on *Fire Risk Assessment for Non-Hazardous Waste Facilities, 2016*. Any recommendations in the fire risk assessment report shall be implemented by the licensee within twelve months of the date of this amendment.

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

This technical amendment shall be cited as Amendment B, to the licence.

**Sealed by the Seal of the Agency on this the 29th day of June, 2016**

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

*Patrick Geoghegan*

**Patrick Geoghegan, Authorised Person**



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

SECTION 76A(11) AMENDMENT  
TO  
INDUSTRIAL EMISSIONS LICENCE

|                                  |                                      |
|----------------------------------|--------------------------------------|
| <b>Licence Register Number:</b>  | W0169-01                             |
| <b>Licensee:</b>                 | Mulleady's Limited                   |
| <b>Location of Installation:</b> | Cloonagh, Drumlish, County Longford. |

## ***Reason for the Decision***

The Environmental Protection Agency has examined the terms of licence Reg. No. W0169-01 as required by the provisions of Section 76A(9)(a) of the Waste Management Act 1996 as amended, and determined that the licence can be brought into conformity with the provisions and requirements of Council Directive 2010/75/EU by the exercise of the powers conferred by Section 76A(11) of the Waste Management Act 1996 as amended.

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of licence Reg. No. W0169-01 granted on 7<sup>th</sup> August 2003, any amendments granted to date, as well as any amendments noted herein, the carrying on of the activity will comply with and not contravene any of the requirements of Section 40(4) of the Waste Management Act 1996 as amended.

## ***Amendment***

In pursuance of the powers conferred on it by Section 76A(11) of the Waste Management Act 1996 as amended, the Agency amends Licence Reg. No. W0169-01 granted to Mulleady's Limited, Cloonagh, Drumlish, County Longford.

Henceforth, the licence shall be read in conjunction with any other amendment to the licence and the amendments set out below.

From the date of this amendment, licence register number W0169-01 shall be deemed to be an Industrial Emissions Licence granted under Part IV of the Environmental Protection Agency Act 1992 as amended and shall not be a waste licence or revised waste licence.

This amendment is limited to the following Interpretation, Conditions and Activities Licensed of Licence Reg. No. W0169-01:

# Amendments

## Amend Interpretation as follows:

*To be inserted into the Interpretation of the existing licence or where relevant replace the existing term.*

**BAT  
conclusions**

A document containing the parts of a BAT reference document laying down the conclusions on best available techniques, their description, information to assess their applicability, the emission levels associated with the best available techniques, associated monitoring, associated consumption levels and, where appropriate, relevant site remediation measures.

**BAT reference  
document**

A document drawn up by the Commission of the European Union in accordance with Article 13 of the Industrial Emissions Directive, resulting from the exchange of information in accordance with that Article of that Directive and describing, in particular, applied techniques, present emissions and consumption levels, techniques considered for the determination of best available techniques as well as BAT conclusions and any emerging techniques.

**Facility**

A site or premises used for the purpose of the recovery or disposal of waste or an installation.

**Groundwater**

Has the meaning assigned to it by Regulation 3 of the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010).

**Industrial  
Emissions  
Directive**

Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (Recast).

**Installation**

A stationary technical unit or plant where the activity concerned referred to in the First Schedule of EPA Act 1992 is or will be carried on, and shall be deemed to include any directly associated activity, which has a technical connection with the activity and is carried out on the site of the activity.

**Waste**

Any substance or object which the holder discards or intends or is required to discard.

**Waste licensing  
under the  
Waste  
Management  
Act 1996**

Any reference within Condition 1: *Scope* of this licence to "waste licensing under the Waste Management Act 1996" or any similar construed reference shall be deemed to mean a reference to "industrial emissions licensing under the Environmental Protection Agency Act 1992 as amended."



*Amend the 'Schedule of Activities Licensed' as follows:*

The licensed activities are amended to be as follows:

- 11.4(b)** Recovery, or a mix of recovery and disposal, of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities, (other than activities to which the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) apply):
- (i) biological treatment.
  - (ii) pre-treatment of waste for incineration or co-incineration.
- 11.1** The recovery or disposal of waste in a facility, within the meaning of the Act of 1996, which facility is connected or associated with another activity specified in this Schedule in respect of which a licence or revised licence under Part IV is in force or in respect of which a licence under the said Part is or will be required.

Notwithstanding the foregoing, any limitations on waste recovery and disposal activities specified in this Part in accordance with the Third Schedule and Fourth Schedule of the Waste Management Act 1996 as amended including, where applicable, any refused waste disposal and recovery activities from the Third Schedule and Fourth Schedule of the Waste Management Act 1996 as amended shall continue to apply.

## New Conditions or Amended Conditions

*Insert New Condition 1.9, to read as follows:*

### Condition 1. Scope

1.9. No alteration to, or reconstruction in respect of, the activity, or any part thereof, that would, or is likely to, result in

(i) a material change or increase in:

- the nature or quantity of any emission;
- the abatement/treatment or recovery systems;
- the range of processes to be carried out;
- the fuels, raw materials, intermediates, products or wastes generated, or

(ii) any changes in:

- site management, infrastructure or control with adverse environmental significance;

shall be carried out or commenced without prior notice to, and without the agreement of, the Agency.

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

*Replace existing Condition 2.3.2.3 of the licence, with the following:*

### Condition 2. Management of the Facility

2.3.2.3 Corrective and Preventative Action

- (i) The licensee shall establish, maintain and implement procedures to ensure that corrective and preventative action is taken should the specified requirements of this licence not be fulfilled. The responsibility and authority for persons initiating further investigation and corrective and preventative action in the event of a reported non-conformity with this licence shall be defined.
- (ii) Where a breach of one or more of the conditions of this licence occurs, the licensee shall without delay take measures to restore compliance with the conditions of this licence in the shortest possible time and initiate any feasible preventative actions to prevent recurrence of the breach.
- (iii) All corrective and preventative actions shall be documented.

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

*Insert New Condition 4.12, to read as follows:*

**Condition 4. Facility Operations**

4.12 Materials Handling

- 4.12.1 The licensee shall ensure that waste generated in the carrying on of the activity shall be prepared for re-use, recycling or recovery or, where that is not technically or economically possible, disposed of in a manner which will prevent or minimise any impact on the environment.

**Reason:** *To provide for the appropriate handling of material and the protection of the environment.*

*Insert New Condition 8.1(g) to read as follows:*

**Condition 8. Contingency Arrangements**

- 8.1(g) notify the Agency and other relevant authorities.

*Insert New Condition 8.1.1 to read as follows:*

- 8.1.1 Where an incident or accident that significantly affects the environment occurs, the licensee shall, without delay take measures to limit the environmental consequences of the incident or accident and to prevent further incident or accident.

*Insert New Condition 8.2.1, to read as follows:*

- 8.2.1 The Emergency Response Procedure referred to in condition 8.2 shall be reviewed annually and updated as necessary.

*Insert New Condition 8.5, to read as follows:*

- 8.5 The licensee shall, within six months of date of this amendment, ensure that a documented Accident Prevention Procedure is in place that addresses the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary.

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

*Replace existing Condition 10.2(a) of the licence, with the following:*

**Condition 10. Reports And Notifications**

- 10.2(a) notify the Agency by both telephone and either email or webform, to the Agency's headquarters in Wexford, or to such other Agency office as may be specified by the Agency, as soon as practicable after the occurrence of any of the following:
- (i) an incident or accident that significantly affects the environment;
  - (ii) any release of environmental significance to atmosphere from any potential emissions point including bypasses;
  - (iii) any breach of one or more of the conditions attached to this licence;
  - (iv) any malfunction or breakdown of key control equipment or monitoring equipment as set out in this licence which is likely to lead to loss of control of the abatement system;
  - (v) any incident with the potential for environmental contamination of surface water or groundwater, or posing an environment threat to air or land, or requiring an emergency response by the Local Authority.

The licensee shall include as part of the notification, date and time of the incident, summary details of the occurrence, and where available, the steps taken to minimise any emissions.

*Reason: To provide for the collection and reporting of adequate information on the activity.*

*Replace existing Condition 10.3 of the licence with the following:*

10.3 Decommissioning & Residuals Management

10.3.1 Following termination, or planned cessation for a period greater than six months, of use or involvement of all or part of the site in the licensed activity, the licensee shall, to the satisfaction of the Agency, decommission, render safe or remove for disposal/recovery any soil, subsoil, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution.

10.3.2 Decommissioning Management Plan (DMP)

10.3.2.1 The licensee shall prepare, to the satisfaction of the Agency, a fully detailed and costed plan for the decommissioning or closure of the site or part thereof. This plan shall be submitted to the Agency for agreement within six months of the date of this amendment.

10.3.2.2 The plan shall be reviewed annually and proposed amendments thereto notified to the Agency for agreement as part of the AER. No amendments may be implemented without the agreement of the Agency.

10.3.2.3 The licensee shall have regard to the Environmental Protection Agency's Guidance on Assessing and Costing Environmental Liabilities (2014) and, as appropriate, Guidance on Financial Provision for Environmental Liabilities (2015) and, where available, the baseline report, when implementing Conditions 10.3.2.1 and 10.3.2.2 above.

10.3.3 The Decommissioning Management Plan shall include, as a minimum, the following:

- (i) a scope statement for the plan;
- (ii) the criteria that define the successful decommissioning of the activity or part thereof, which ensures minimum impact on the environment;
- (iii) a programme to achieve the stated criteria;
- (iv) where relevant, a test programme to demonstrate the successful implementation of the decommissioning plan; and
- (v) details of the costings for the plan and the financial provisions to underwrite those costs.

- 10.3.4 A final validation report to include a certificate of completion for the Decommissioning Management Plan, for all or part of the site as necessary, shall be submitted to the Agency within three months of execution of the plan. The licensee shall carry out such tests, investigations or submit certification, as requested by the Agency, to confirm that there is no continuing risk to the environment.

**Reason:** *To make provision for the proper closure of the activity ensuring protection of the environment.*

*Insert New Condition 12, to read as follows:*

**Condition 12. Resource Use and Energy Efficiency**

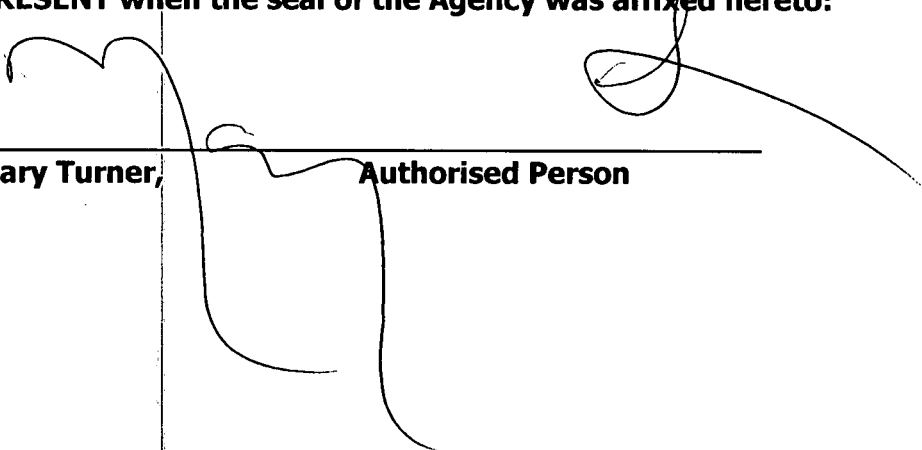
- 12.1 The licensee shall carry out an audit of the energy efficiency of the site within one year of the date of this amendment. The audit shall be carried out in accordance with the guidance published by the Agency, "Guidance Note on Energy Efficiency Auditing". The energy efficiency audit shall be repeated at intervals as required by the Agency.
- 12.2 The audit shall identify all practicable opportunities for energy use reduction and efficiency and the recommendations of the audit will be incorporated into the Environmental Management System (EMS) under Condition 2 above.
- 12.3 The licensee shall identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible. Reductions in water usage shall be incorporated into the Environmental Management System (EMS).
- 12.4 The licensee shall undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into the Environmental Management System (EMS).

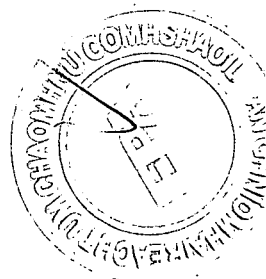
**Reason:** *To provide for the efficient use of resources and energy in all site operations.*

This amendment shall be cited as a Section 76A(11) Amendment and should be read in conjunction with licence Reg. No. W0169-01 granted on 7<sup>th</sup> August 2003.

**Sealed by the seal of the Agency on this the 16<sup>th</sup> day of December 2015**

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

  
\_\_\_\_\_  
**Mary Turner, Authorised Person**



This licence was amended on 27 September 2006 under Section 42B(1) of the Waste Management Acts, 1996 to 2005. The details of Amendment A must be read in conjunction with this licence. The amendment document is entitled S42B(1)AmendmentA.



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

## WASTE LICENCE

|                              |                                     |
|------------------------------|-------------------------------------|
| <b>Waste Licence</b>         | 169-1                               |
| <b>Register Number:</b>      |                                     |
| <b>Licensee:</b>             | Mulleady's Limited                  |
| <b>Location of Facility:</b> | Cloonagh, Drumlish, County Longford |



# 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 and recycling facility at Cloonagh, Drumlish, County Longford.

Mulleady's Limited will be licensed to accept non-hazardous wastes only at this facility. The waste types to be accepted at this facility include household, commercial, industrial and construction and demolition wastes. No hazardous or liquid wastes may be accepted at the facility. A programme of infrastructural development at the facility is required by this licence with such works including provision of waste handling plant, wastewater and surface water management systems, dust and odour control systems. The licence also provides for the construction and operation of a composting unit and a civic waste facility at the facility. The maximum quantity of waste to be accepted at the facility per annum is 95,000 tonnes.

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

This licence sets out in detail the conditions under which Mulleady's Limited are required to operate and manage this facility.

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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, an objection received and the reports of its inspector.

## *Part I Activities Licensed*

In pursuance of the powers conferred on it by the Waste Management Act, 1996, the Agency, under Section 40(1) of the said Act hereby grants this Waste Licence to Mulleady's Limited to carry on the waste activities listed below at Cloonagh, Drumlish, County Longford subject to conditions, with the reasons therefore and the associated schedules attached thereto set out in the licence.

Licensed Waste Disposal Activities, in accordance with the Third Schedule  
of the Waste Management Act 1996

|                  |   |
|------------------|---|
| <b>Class 11.</b> | <b>Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.</b><br>This activity is limited to the bulking and transfer of waste at the facility  |
| <b>Class 12.</b> | <b>Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.</b><br>This activity is limited to the bulking and transfer of waste at the facility  |
| <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><br>This activity is limited to the storage of wastes at the facility prior to movement off-site for disposal |

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><br>This activity is limited to composting biodegradable wastes at the facility  |
| <b>Class 3.</b>  | <b>Recycling or reclamation of metals and metal compounds:</b><br>This activity is limited to the collection of metals at the facility for recovery  |
| <b>Class 4.</b>  | <b>Recycling or reclamation of other inorganic materials:</b><br>This activity is limited to the collection of inorganic wastes at the facility (e.g. waste glass, construction and demolition wastes)   |
| <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><br>This activity is limited to the storage of wastes at the facility prior to removal off-site for recovery |

# INTERPRETATION

All terms in this licence should be interpreted in accordance with the definitions in the Waste Management Act, (the Act), unless otherwise defined in this section.

|  |   |
|--|---|
| <b>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>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>Commercial Waste</b>                  | As defined in Section 5(1) of the Act.  |
| <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). Transfrontier shipment notification and movement/tracking form numbers are required for all exports of waste from, into or through the state under the Waste Management (Transfrontier Shipment of Waste) Regulations (SI No. 149 of 1998). |
| <b>Construction and Demolition Waste</b> | All wastes which arise from construction, renovation and demolition activities.   |
| <b>Containment boom</b>                  | A boom which 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 8.4  |
| <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 Waste Acceptance</b>      | The hours during which the facility is authorised to accept waste.  |
| <b>Incident</b>                       | An incident for the purposes of this licence is defined as <ul style="list-style-type: none"> <li>• An emergency;</li> <li>• Any emission which does not comply with the requirements of this licence;</li> <li>• Any trigger level specified in this licence which is attained or exceeded;</li> <li>• Any indication that environmental pollution has, or may have, taken place; and</li> <li>• any exceedance of the daily duty capacity of the waste handling equipment.</li> </ul> |
| <b>Industrial Waste</b>               | As defined in Section 5(1) of the Act.  |
| <b>Inert waste</b>                    | Inert waste as defined in Article 5 of 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>                       | Mulleady's Limited  |
| <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>Monthly</b>                        | A minimum of 12 times per year, at approximately monthly intervals.   |
| <b>Municipal waste</b>                | As defined in Section 5(1) of the Act.  |
| <b>Night-time</b>                     | 10.00 p.m. to 8.00 a.m.   |
| <b>Noise Sensitive Location (NSL)</b> | Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.  |
| <b>Oil Separator</b>                  | Device installed according to the draft European Standard prEN 858 (Installations for the separation of light liquids, e.g. oil and petrol).  |
| <b>Quarterly</b>                      | At approximately three monthly intervals.   |
| <b>Sanitary Authority</b>             | Longford Town Council   |
| <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 Schedule C: Emission Limits of this licence.  |
| <b>Specified Engineering Works</b>    | Those engineering works listed in Schedule B: Specified Engineering Works 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, flushing or in the composting process at the facility including run-off from any waste storage/handling areas. |
| <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 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 orange on Drawing entitled “Land Registry, Longford 1:250, O.S. 4/16, 8/4” which was received by the Agency on 21/12/01. Any reference in this licence to “facility” shall mean the area thus outlined in orange.
- 1.3. This licence is for the purposes of waste licensing under the Waste Management Act 1996 only and nothing in this licence shall be construed as negating the licensee’s statutory obligations or requirements under any other enactments or regulations.
- 1.4. Only those waste categories and quantities listed in *Schedule A: Waste Acceptance*, of this licence shall be accepted at the facility.
- 1.5. No hazardous wastes, liquid wastes or animal wastes shall be accepted at the facility.
- 1.6. Waste Acceptance Hours and Hours of Operation
  - 1.6.1 Waste shall only be accepted at the facility between the hours of 6.30am to 6.30pm Monday to Friday inclusive and from 6.30am to 3.30pm on Saturdays.
  - 1.6.2 Waste shall only be handled between the hours of 6.00am to 7.00pm Monday to Friday inclusive and from 6.00am to 4.00pm on Saturdays.
  - 1.6.3 Waste shall not be accepted at the facility on Sundays or on Bank Holidays.
- 1.7. 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:
  - 1.7.1 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.
  - 1.7.2 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.
  - 1.7.3 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.
- 1.8. 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 facility manager with experience commensurate with the level expertise required 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 month 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 **six** 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 Within three months of the date of grant of this licence, the licensee shall establish and maintain a Communications Programme to inform and involve the local community and 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 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 one month prior to its 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) name(s) of individual(s) responsible for supervision of works and for quality assurance validation of works;
  - f) records of any problems and the remedial works carried out to resolve those problems; and
  - g) 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 and stockproof fencing/walls and gates shall be installed and maintained around the perimeter of the facility. The base of the fencing shall be set in the ground.
- 3.4.2 Within three months of the date of grant of this licence, there shall be no vehicular access to the facility other than through the new facility entrance as shown on *Drawing 1* of the waste licence application.
- 3.4.3 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 Site roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.
- 3.5.2 Unless otherwise agreed with the Agency, the licensee shall within nine months of the date of grant of the licence ensure that the facility is surfaced as per Drawing No. 04 of the waste licence application.

#### 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 Waste Inspection Area(s) and a Waste Quarantine Area(s) shall be provided and maintained within each building at the facility where waste is accepted.
- 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(s) and the waste quarantine area(s) shall be clearly identified and segregated from each other.
- 3.7.3 Drainage from these areas shall be directed to the on-site wastewater storage tank.

#### 3.8 Waste handling, ventilation and processing plant

- 3.8.1 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.

3.8.2 Within three months from the date of grant of this licence, the licensee shall provide a report for the agreement of the Agency detailing the duty and standby capacity in tonnes per day, of all waste handling and processing equipment to be used at the facility. These capacities shall be based on the licensed waste intake, as per *Schedule A: Waste Acceptance*, of this licence.

3.8.3 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.

### 3.9 Wastewater/Sewage Collection

3.9.1 Within six months of the date of grant of this licence, the licensee shall provide a wastewater collection system to ensure that all wastewaters generated at the facility (other than sewage and run-off from the weighbridge) are collected and drain to the wastewater storage tank for tankering off-site.

3.9.2 Within three months of the date of grant of this licence, the licensee shall install high level alarms in the wastewater collection tank. The alarms shall be connected to a display system in the facility office/control room.

3.9.3 Unless otherwise agreed with the Agency, all sewage generated at the facility and run-off from the weighbridge shall be collected and treated at the on-site wastewater treatment system.

3.9.4 Within six months of the date of grant of this licence, the licensee shall provide a wastewater treatment system at the facility. The treatment system shall be of appropriate size as recommended by the manufacturer and the type and size of the system shall be agreed in advance with the Agency. Any percolation area shall satisfy the criteria set out in the Wastewater Treatment Manual, *Treatment Systems for Single Houses*, published by the Environmental Protection Agency.

### 3.10 Surface Water Collection

3.10.1 The licensee shall provide a surface water drainage system at the facility. All roof waters and drainage from all clean paved areas shall be collected and shall pass through a silt trap and Class I oil interceptor prior to discharge. The interceptors shall be a Class I interceptors and the silt traps and interceptors shall be in accordance with European Standard prEN 858 (installations for the separation of light liquids).

3.10.2 The licensee shall provide a shut-off valve on the surface water drainage system downstream of the oil interceptor and prior to the discharge point.

### 3.11 Vehicle Wash Area

3.11.1 Following the installation of the vehicle wash the licensee shall construct a kerb/drain around the wash area so as to prevent washwaters entering the surface water drainage system. Wastewaters from the vehicle wash area shall drain to the wastewater collection system.

### 3.12 Tank and Drum Storage Areas

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

3.12.2 All tank and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:

- (a) 110% of the capacity of the largest tank or drum within the bunded area; or
- (b) 25% of the total volume of substance which could be stored within the bunded area.

- 3.12.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.12.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.12.5 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 following its installation and prior to its use as a storage area. This confirmation shall be repeated at least once every three years thereafter and reported to the Agency on each occasion.
- 3.13 Drainage system, pipeline testing
- 3.13.1 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.
- 3.13.2 The integrity and water tightness of all underground pipes and tanks and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated within six months of the date of grant of this licence. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
- 3.13.3 Within three months from the date of grant of this licence, all wastewater, sewage and surface water gullies, drainage grids and manhole covers shall be clearly marked so as to clearly indicate which drainage system they are part of. This marking system 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 Construction and Demolition Waste Recovery Area.
- 3.14.1 Prior to acceptance of more than 3,000 tonnes per annum of construction and demolition waste at the facility the licensee shall provide and maintain a dedicated construction and demolition waste recovery area. This infrastructure shall at a minimum comprise the following.
- a) A building of appropriate size and construction that is suitable for housing any construction and demolition waste handling plant;
  - b) The installation of adequate noise and dust control;
  - c) Storage bays for the storage of processed construction and demolition waste; and
  - d) collection infrastructure for all run-off.
- 3.15 Civic Waste Facility
- 3.15.1 The licensee may provide and maintain a Civic Waste Facility.
- 3.15.2 The licensee shall provide and maintain the receptacles at the Civic Waste Facility as shown in Drawing No. 1-A of the application unless otherwise agreed with the Agency.
- 3.16 Waste Storage Areas
- 3.16.1 All areas used for the storage of waste shall be impermeable concrete and shall drain to the wastewater drainage system. All waste storage areas shall be clearly defined and labelled.

### 3.17 Compost facility

3.17.1 Appropriate infrastructure for the acceptance, pre-treatment, storage and composting of biodegradable waste shall be established and maintained at the facility prior to any waste being composted. This infrastructure shall at a minimum comprise the following:

- a) A waste reception area which shall be located inside the compost building and shall be of appropriate size for the movement of waste vehicles;
- b) A composting system that shall be designed so as to allow for the continuous aeration of the organic waste during the composting process;
- c) The compost building shall be of appropriate size to ensure that efficient screening and processing of waste and compost can be carried out within the building;
- d) All wastewater generated from this activity shall either be reused in the composting process or collected in the on-site wastewater collection tank and sent off-site for treatment; and
- e) All areas used for the storage, processing and handling of segregated organic waste, green waste and compost shall be fully enclosed.

3.17.2 Unless otherwise agreed with the Agency the licensee shall provide and maintain an odour abatement system in the composting building which satisfies the following requirements.

- a) Air management system to ensure no significant escape of odours or dust, including negative pressure throughout the building;
- b) Installation of an odour abatement system to consist of a biofilter of appropriate size and structure;
- c) 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; and
- d) Emissions from the biofilter shall not exceed those ELV's as set out in *Schedule C: Emission Limits*, of this licence.

### 3.18 Monitoring Infrastructure

#### 3.18.1 Groundwater

- (i) The licensee shall maintain the existing groundwater monitoring point at the facility to allow for the sampling and analyses of groundwater.

#### 3.18.2 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 FACILITY OPERATIONS**

- 4.1 All waste processing shall be carried out indoors.
- 4.2 Waste Acceptance and Characterisation Procedures
  - 4.2.1 Within one month of the date of grant of this licence, the licensee establish and maintain detailed written procedures for the acceptance and handling of wastes.
  - 4.2.2 Waste arriving at the facility shall be documented and directed to the waste transfer building(s) or composting building as appropriate. Each load of waste arriving at the waste transfer/compost buildings shall be inspected upon tipping within this building. Only after such inspections shall the waste be processed for disposal or recovery.
  - 4.2.3 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.
  - 4.2.4 A record of all inspections of incoming waste loads shall be maintained.
- 4.3 Operational Controls
  - 4.3.1 The floor of the waste transfer building and all waste handling/processing plant shall be cleared of waste and washed down on a daily basis. The floor of the storage bays for recovered wastes shall be washed down and cleaned on each occasion such bays are emptied.
  - 4.3.2 Scavenging shall not be permitted at the facility.
  - 4.3.3 Gates shall be locked shut when the facility is unsupervised.
  - 4.3.4 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
  - 4.3.5 Fuels shall only be stored at appropriately bunded locations on the facility.
  - 4.3.6 All tanks and drums shall be labelled to clearly indicate their contents.
  - 4.3.7 The licensee shall ensure that the facility is not used for the cleaning and washing out of vehicles other than those associated with waste collection, transfer and handling.
- 4.4 Composting Operations
  - 4.4.1 The licensee shall not use soil as a medium for the treatment of biodegradable waste at the facility.
  - 4.4.2 Prior to the treatment of any biodegradable waste at the facility the licensee shall agree procedures with the Agency for the acceptance, handling and processing of the biodegradable waste including details of any proposed process monitoring for the composting process.
  - 4.4.3 The maximum quantity of organic waste to be composted at the facility shall not exceed 10,000 tonnes per annum.

- 4.5 Compost Quality/Use
- 4.5.1 In order not to be considered a waste, compost produced by the facility shall comply with the quality standards established in *Schedule F: Standards for Compost Quality*, of this licence. Analysis of the compost shall be in accordance with the requirements of that Schedule.
- 4.5.2 Compost of Class 1 and Class 2 Standards shall be considered a product.
- 4.5.3 The recovery or disposal of compost not reaching the standards designated Class 1 or Class 2, shall be recorded as required under Condition 9.2.
- 4.6 Off-site Disposal and Recovery
- 4.6.1 Waste sent off-site for recovery or disposal shall only be conveyed by a waste carrier agreed in advance by the Agency. Any request for such agreement of a waste carrier shall include the following:
- i) Copies of the waste carrier's permit(s) under the Waste Management (Collection Permit) Regulations 2001.
  - ii) Details of the waste types it is proposed the carrier will transfer from the facility.
- 4.6.2 All waste transferred from the facility shall only be transferred 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.
- 4.6.3 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.
- 4.7 Civic Waste Facility
- 4.7.1 The Civic Waste Facility shall only be used 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.
- 4.7.2 All waste deposited in the Civic Waste Facility shall be either:
- (a) into a skip;
  - (b) into the hopper of the compactor for disposal;
  - (c) into a receptacle for recovery; or
  - (d) in the case where inspection is required, into a designated inspection area.
- 4.7.3 The licensee shall assign and clearly label each container at the Civic Waste Facility to indicate their contents.
- 4.7.4 At the end of the working day the floor of the Civic Waste Facility, the hopper and the compactor shall be cleared of waste.
- 4.7.5 All waste accepted at the Civic Waste Facility for disposal off-site shall be removed within 24 hours of its arrival on-site.

#### 4.8 Waste Storage

- 4.8.1 Only clean baled plastic, glass and segregated construction and demolition wastes shall be stored outdoors. Wastes stored outdoors shall be covered during periods of rain and high winds so as to avoid the generation of litter.
- 4.8.2 Wastes stored outdoors shall not be more than 3m in height and any waste paper and cardboard shall not be kept outdoors for more than a period of one week.

#### 4.9 Wastewater Management

- 4.9.1 Unless otherwise agreed with the Agency, wastewater stored in the on-site storage tanks shall be tankered off-site in fully enclosed road tankers to Longford Wastewater Treatment Plant for treatment.
- 4.9.2 The licensee shall ensure that the volume of liquid in the wastewater storage tank at the facility does not exceed 90% of its capacity at any time.

#### 4.10 Maintenance

- 4.10.1 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.
- 4.10.2 All storage tanks on the facility shall be inspected and certified fit for purpose within six months of the date of grant of this licence and every three years thereafter by an independent and appropriately qualified chartered engineer.
- 4.10.3 The licensee shall maintain and clearly label and name all sampling and monitoring locations.
- 4.10.4 The licensee shall maintain all waste handling plant in accordance with the manufacturers instructions.

#### 4.11 Landscaping

- 4.11.1 Apart from the removal of hedgerow to facilitate the facility entrance, the licensee shall retain the existing hedgerow network that forms the boundary of the facility.
- 4.11.2 Within twelve months of the date of grant of this licence, the licensee shall implement a landscaping programme to include details on (but not limited to):
- a) the time-frame for landscaping works in relation to facility development;
  - b) species and minimum age composition and the suitability of the hedge/tree mix for the area;
  - c) total area(s) to be planted;
  - d) tree protection; and
  - e) post planting management.

**REASON:** *To provide for appropriate operation of the facility to ensure protection of the environment.*

## CONDITION 5 EMISSIONS

- 5.1 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.



- 5.2 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.
- 5.3 Emission limits for emissions to atmosphere in this licence shall be interpreted in the following way:-
- 5.3.1 Non-Continuous Monitoring
- (i) For any parameter where, due to sampling/analytical limitations, a 30 minute samples is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value.
  - (ii) For all other parameters, no 30 minute mean value shall exceed the emission limit value.
  - (iii) For flow, no hourly or daily mean value shall exceed the emission limit value.
- 5.4 Emissions to Surface Water
- 5.4.1 The trigger levels for surface water discharges from the facility measured at monitoring point(s) SD1 are:
- (a) BOD 25mg/l
  - (b) Suspended Solids 35mg/l
- 5.4.2 There shall be no surface water discharges from the facility other than those discharged at SD1 via the silt trap and oil interceptor.
- 5.4.3 No substance shall be discharged in a manner, or at a concentration which, following initial dilution causes tainting of fish or shellfish.
- 5.5 There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at the noise sensitive locations.
- 5.6 Disposal of wastewater
- 5.6.1 No wastewater shall be discharged to surface water.
- 5.7 Discharges of wastewater tankered to Wastewater Treatment plant
- 5.7.1 Unless otherwise agreed in advance with the Agency and the Sanitary Authority, the following shall apply for the discharge of wastewater, which shall be tankered to the wastewater treatment plant.
- 5.7.2 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.
- 5.7.3 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.
- 5.7.4 No discharge or emission to sewer shall take place which might give rise to any reaction within the sewer or to the liberation of by-products which may be of environmental significance.
- 5.7.5 The licensee shall ensure that the discharge shall not contain dissolved methane, petroleum spirits or organic solvents (including chlorinated organic solvents), at concentrations which would give rise to flammable or explosive vapours in the sewer.

- 5.7.6 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.
- 5.7.7 The licensee shall submit monitoring results to the Sanitary Authority prior to removal of each load of wastewater from the facility.
- 5.8 Emission limit values for waste water tankered to the wastewater treatment plant in this licence shall be interpreted in the following way:-
- a) Non-Continuous monitoring.
- Eight out of ten consecutive results, calculated as daily mean concentration or mass emission values on the basis of flow proportional composite sampling shall exceed 1.2 times the emission limit value.
- b) No grab sample shall exceed 1.2 times the emission limit value.

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

## **CONDITION 6 NUISANCE CONTROL**

- 6.1 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.
- 6.2 The road network in the vicinity of the facility and all facility roads and surfaces shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay.
- 6.3 Litter Control
- 6.3.1 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.
- 6.3.2 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.
- 6.4 Dust/Odour Control
- 6.4.1 All waste for disposal stored overnight at the facility, shall be stored in suitably covered and enclosed containers within the Waste Transfer Building, and shall be removed from the facility within forty eight hours of its arrival at the facility.
- 6.4.2 In dry weather, site roads and any other areas used by vehicles, within the boundary of the facility, shall be sprayed with water as and when required to minimise airborne dust nuisance.
- 6.4.3 All stockpiles of construction and demolition waste shall be maintained so as to minimise dust generation.
- 6.4.4 Within six 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 from the waste transfer buildings, including fugitive dust emissions, from the facility. Such measures shall at a minimum include the following:

- 6.4.4.1 The licensee shall provide an enclosed conveyor system (or other technology to be agreed with the Agency) for the movement of the segregated fine material from the waste transfer building to the compost unit.
- 6.4.4.2 Within nine months of the date of grant of this licence the licensee shall install a localised dust/odour suppression system at the waste shredder and trommel. A similar system shall be installed at any other location as may be instructed by the Agency.
- 6.4.4.3 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.
- 6.4.4.4 The effectiveness of the odour and dust control measures as required by this licence shall be reviewed on an annual basis and a report submitted to the Agency.

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

## CONDITION 7 MONITORING

- 7.1. The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule D: Monitoring*, of this licence and as specified in this licence. Unless otherwise specified by this licence, all environmental monitoring shall commence no later than two months after the date of grant of this licence.
- 7.2. 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.
- 7.3. 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.
- 7.4. 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.
- 7.5. 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.
- 7.6. 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.
- 7.7. Noise Monitoring
  - 7.7.1. The licensee shall carry out noise monitoring at the locations set out in *Schedule D: Monitoring*, of this licence.
- 7.8. Surface Water Monitoring
  - 7.8.1. The licensee shall carry out surface water monitoring at the locations set out in *Schedule D: Monitoring*, of this licence.

7.9. Emissions to Atmosphere & Air Quality Monitoring

7.9.1. Emissions to Atmosphere & Air Quality Monitoring shall be undertaken as set out in *Schedule D: Monitoring*, of this licence.

7.10. Nuisance Monitoring

7.10.1. The licensee shall, on a daily basis, 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 8 CONTINGENCY ARRANGEMENTS

8.1. 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.

8.2. The licensee shall, within six months of the date of grant of this licence, submit a written Emergency Response Procedure (ERP) to the Agency for its agreement. The ERP shall address any emergency situations which may originate on the facility and shall include provision for minimising the effects of any emergency on the environment. 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.

8.3. 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.

8.4. Emergencies

8.4.1. 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.

8.4.2. 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.

- 8.4.3. 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.
- 8.4.4. 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 incident. The licensee shall supply an alternative equivalent 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 9 RECORDS

- 9.1 The licensee shall keep the following documents at the facility office.
- the current waste licence relating to the facility;
  - the current EMS for the facility;
  - the previous year's AER for the facility;
  - all written procedures produced by the licensee which relate to the licensed activities.
- 9.2 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:
- the date;
  - the name of the carrier (including the waste collection permit details);
  - the vehicle registration number;
  - the name of the producer(s)/collector(s) of the waste as appropriate;
  - the name of the waste facility (if appropriate) from which the load originated including the waste licence or waste permit register number;
  - a description of the waste including the associated EWC codes;
  - the quantity of the waste, recorded in tonnes;
  - the name of the person checking the load;
  - 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
  - where applicable a consignment note number (including transfrontier shipment notification and movement/tracking form numbers, as appropriate).
- 9.3 Written Records
- The following written records shall be maintained by the licensee:
- 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;
  - all training undertaken by facility staff;
  - results from all integrity tests of bunds and other structures and any maintenance or remedial work arising from them;
  - details of all nuisance inspections;
  - details of daily washdowns of the facility floor and waste plant; and

- f) 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.
- 9.4 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.
- 9.5 A written record shall be kept of each consignment of wastewater 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 from the facility;
  - c) the volume of waste water, in cubic metres, removed from the facility on each occasion;
  - d) the name and address of the Waste Water Treatment Plant to which the waste water was transported; and
  - e) any incidents or spillages of waste water during its removal or transportation.
- 9.6 A written record shall be kept for each load of waste departing from the Civic Waste Facility. The following shall be recorded:
- a) the name of the carrier;
  - b) the vehicle registration number;
  - c) the destination of the waste (facility name and waste licence/permit number as appropriate);
  - d) a description of the waste (if recovered or rejected waste, the specific nature of the waste);
  - e) the quantity of waste, recorded in tonnes;
  - f) the name of the person checking the load; and,
  - g) the time and date of departure.
- 9.7 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 10 REPORTS AND NOTIFICATIONS

- 10.1 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 & 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.
- 10.2 In the event of an incident occurring on the facility, the licensee shall.
- a) notify the Agency as soon as practicable and in any case not later than 10.00 am the following working day after the occurrence of any incident;
  - b) submit a written record of the incident, including all aspects described in Condition 9.1(a-e), to the Agency as soon as practicable and in any case within five working days after the occurrence of any incident;
  - c) in the event of any incident which relates to discharges to surface water, notify the Shannon Regional Fisheries Board 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.
- 10.3 Restoration and Aftercare
- 10.3.1 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 this plan when required by the Agency.
- 10.4 Waste Recovery Report
- 10.4.1 Within nine months of the date of grant of this licence, a report examining waste recovery options shall be submitted to the Agency for its agreement. This report shall address methods to contribute to the achievement of the recovery targets stated in national and European Union waste policies and shall include the following:
- a) proposals for the contribution of the facility to the achievement of targets for the reduction of biodegradable waste to landfill as specified in the Landfill Directive;
  - b) the separation of recyclable materials from the waste;
  - c) the recovery of Construction and Demolition Waste;
  - d) the recovery of metal waste and white goods;
  - e) the recovery of commercial waste, including cardboard; and

- f) composting of biodegradable or green waste at the facility having regard to good practice and sustainability;

#### 10.5 Monitoring Locations

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

#### 10.6 Annual Environmental Report

- 10.6.1 The licensee shall submit to the Agency for its agreement, within thirteen months from the date of grant of this licence, and one month after the end of each calendar year thereafter, an Annual Environmental Report (AER).
- 10.6.2 The AER shall include as a minimum the information specified in *Schedule H: 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 11 CHARGES AND FINANCIAL PROVISIONS

#### 11.1 Agency Charges

- 11.1.1 The licensee shall pay to the Agency an annual contribution of €9,114 or such sum as the Agency from time to time determines, towards the cost of monitoring the activity or otherwise in performing any functions in relation to the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996. The licensee shall in 2004 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Public Sector Average Earnings Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 2003, the licensee shall pay a pro rata amount from the date of this licence to 31<sup>st</sup> December. This amount shall be paid to the Agency within one month of the date of grant of this licence.
- 11.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased the licensee shall contribute such sums as determined by the Agency to defraying its costs.

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

- 11.2.1 The licensee shall arrange for 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, on the neighbours of the facility and on adjoining land-uses. 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. The risk assessment shall be submitted to the Agency for its agreement within six months of the date of grant of this licence.
- 11.2.2 The amount of financial provision, held under Condition 11.2.1 shall be reviewed and revised as necessary, but at least annually. Any proposal for such a revision shall be submitted to the Agency for its agreement.
- 11.2.3 The licensee shall within two weeks of purchase, renewal or revision of the financial provision required under Condition 11.2.2, forward to the Agency written proof of such indemnity.



11.2.4 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)     |
|--|--------------------------------|
| Municipal, Commercial and Industrial Waste | 68,000                         |
| Construction and Demolition                | 17,280 <sup>Note 1</sup>       |
| Road Sweepings                             | 970                            |
| Farm Plastics                              | 8,750                          |
| <b>TOTAL</b>                               | <b>95,000<sup>Note 2</sup></b> |

**Note 1:** Only 3,000 tonnes per annum of construction and demolition wastes to be accepted per annum up to and until a dedicated construction and demolition waste handling area has been provided as per Condition 3.14.

**Note 2:** The quantity of municipal, commercial, industrial and construction and demolition waste may be altered with the agreement of the Agency, provided the total tonnage of 95,000 tonnes of waste accepted per annum is not exceeded.

## SCHEDULE B : Specified Engineering Works

### Specified Engineering Works

Installation of silt traps, oil interceptors and drainage systems.

Installation of dust/odour control system.

Installation of waste handling, processing, recycling/recovery infrastructure and installation of increased waste processing capacity.

Installation of Compost Facility.

Installation of Construction and Demolition Waste Recovery area.

Development of any areas of the Facility that are currently not developed.

Any other works notified in writing by the Agency.

## SCHEDULE C : Emission Limits

### C.1 Noise Emissions: (Measured at the 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.1.2*).

| 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 Surface Water Discharge Limits:** (Measured at the monitoring point SD1 indicated in Table D.1.1)

| Parameter    | Emission Limit Value (mg/l) |
|--------------|-----------------------------|
| PH           | 6-9                         |
| Mineral oils | 5mg/l                       |

**C.4 Emission Limits for Waste water Being Tankered to Wastewater Treatment Plant:**  
(Measured at the monitoring point indicated in Table D.1.1)  
Maximum volume to be emitted in any one day: 22m<sup>3</sup>

| Parameter                       | Emission Limit Value            |                             |
|---------------------------------|---------------------------------|-----------------------------|
|                                 | Daily Mean Concentration (mg/l) | Daily Mean Loading (kg/day) |
| BOD                             | 400                             | 10                          |
| COD                             | 1600                            | 40                          |
| Ammoniacal Nitrogen             | 100                             | 2                           |
| Suspended solids                | 400                             | 10                          |
| PH                              | 6-9                             |                             |
| Temperature                     | < 35 °C                         |                             |
| Sulphates (as SO <sub>4</sub> ) | 1000                            | 20                          |
| Phosphates                      | 10                              | 0.22                        |
| Oils, Fats and Greases          | 100                             | 2                           |

**C.5 Treated Sewage emissions to the percolation area from the on-site sewage treatment unit** (Measured at the monitoring point as indicated on Table D.1.1)

| Parameter               | Emission Limit Value (mg/l with exception of pH) |
|-------------------------|--|
| PH                      | 6-9  |
| BOD                     | 20   |
| Suspended Solids        | 30   |
| Total Ammonia as (as N) | 5  |

### C.6 Emission Limit Values from Biodegradable Waste Composting

Emission Point Reference No.: CE-1 (Emission point from biofilter at the waste composting unit)

| Parameter         | Emission Limit Value |
|-------------------|----------------------|
| Ammonia           | 50 (ppm v/v)         |
| Mercaptans        | 5 (ppm v/v)          |
| Hydrogen Sulphide | 5 (ppm v/v)          |

## SCHEDULE D : Monitoring

Monitoring to be carried out as specified below.

### D.1 Monitoring Locations

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

**Table D.1.1 Noise, surface water and waste water Monitoring Locations**

| TREATED SEWAGE             | SURFACE WATER              | GROUNDWATER                | WASTE WATER                     |
|----------------------------|----------------------------|----------------------------|---------------------------------|
| STATIONS <sup>Note 1</sup> | STATIONS <sup>Note 2</sup> | STATIONS <sup>Note 3</sup> | STATIONS                        |
| SG-1                       | SD-1<br>SW-1<br>SW-2       | GW-1                       | On-site Wastewater Storage Tank |

**Note 1:** Sampling location to be provide at the discharge point from the on-site sewage treatment unit

**Note 2:** Three locations to be provided, one immediately downstream of the oil interceptor (SD-1) and one upstream and downstream of the surface water discharge point (SW-1 & SW-2)

**Note 3:** The existing groundwater monitoring point

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

| NOISE                      | DUST                       | MICRO-ORGANISMS<br>Applicable to composting | EMISSIONS FROM BIOFILTER   |
|----------------------------|----------------------------|---|----------------------------|
| STATIONS <sup>Note 1</sup> | STATIONS <sup>Note 2</sup> | STATIONS <sup>Note 3</sup>                  | STATIONS <sup>Note 4</sup> |
| N1<br>N2<br>N3             | D1<br>D2<br>D3<br>D4       | AB1<br>AB2<br>AB3<br>AB4                    | CE-1                       |

**Note 1:** Three locations to be agreed with the Agency, one at the facility and two at the nearest sensitive receptors.

**Note 2:** Four locations to be provided, one along each boundary of the facility (i.e. north, south, east and west).

**Note 3:** Four locations to be provided, three to be used during monitoring, 1 upwind and 2 downwind.

**Note 4:** One location to be provided at the outlet from the biofilter.

## D.2 Dust and Airborne Microbe Monitoring

**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>       |
| Airborne Microbes                  | Annually                             | Standardised Protocol <sup>Note 3</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.

**Note 3:** Monitoring to be completed as per "The Composting Association" publication "Standardised Protocol for the Sampling and Enumeration of Airborne Micro-Organisms at Composting Facilities".

## 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          |
|--------------------------|----------------------|------------------------------------|
| Visual Inspection        | Daily                | -                                  |
| PH                       | Quarterly            | Electrometry                       |
| Biological Oxygen Demand | Quarterly            | Standard Methods <sup>Note 1</sup> |
| Chemical Oxygen Demand   | Quarterly            | Standard Methods <sup>Note 1</sup> |
| Electrical Conductivity  | Quarterly            | Electrometry                       |
| Suspended Solids         | Quarterly            | Standard Methods <sup>Note 1</sup> |
| Ammonia                  | 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 Emissions

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

| Parameter                            | Monitoring Frequency | Analysis Method/Technique          |
|--------------------------------------|----------------------|------------------------------------|
| <b>PH</b>                            | Once per load        | Electrometry                       |
| <b>Biological Oxygen Demand</b>      | Once per load        | Standard Methods <sup>Note 1</sup> |
| <b>Chemical Oxygen Demand</b>        | Once per load        | Standard Methods <sup>Note 1</sup> |
| <b>Suspended Solids</b>              | Once per load        | Standard Methods <sup>Note 1</sup> |
| <b>Fats, Oils, Grease</b>            | Once per load        | Standard Methods <sup>Note 1</sup> |
| <b>Temperature</b>                   | Once per load        | Temperature probe                  |
| <b>Sulphates (as SO<sub>4</sub>)</b> | Once per load        | Standard Methods <sup>Note 1</sup> |
| <b>Ammoniacal nitrogen</b>           | Once per load        | Standard Methods <sup>Note 1</sup> |
| <b>Phosphates</b>                    | Once per load        | 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 Treated Sewage Emissions to Percolation Area

**Table D.6.1 Treated Sewage Monitoring Frequency and Techniques**

| Parameter                       | Monitoring Frequency | Analysis Method/Technique          |
|---------------------------------|----------------------|------------------------------------|
| <b>PH</b>                       | Annually             | Electrometry                       |
| <b>Biological Oxygen Demand</b> | Annually             | Standard Methods <sup>Note 1</sup> |
| <b>Suspended Solids</b>         | Annually             | Standard Methods <sup>Note 1</sup> |
| <b>Total Ammonia</b>            | Annually             | Standard Methods <sup>Note 1</sup> |
| <b>Nitrate</b>                  | 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.7 Emissions from Biodegradable Waste Composting Unit and Biofilter Monitoring

**Table D.7.1 Emissions to Atmosphere: Abatement/Treatment Control at Biodegradable Waste Composting Plant**

Emission Point Reference No.: CE-1 (emission point from biofilter at organic waste composting unit).

Description of Treatment: Biofilter

Monitoring and Backup Equipment at the Organic Waste Composting Plant shall be as set out below:

| Control Parameter           | Monitoring Required | Monitoring Equipment                           | Backup Equipment |
|-----------------------------|---------------------|--|------------------|
| <b>Biofilter</b>            |                     |  |                  |
| <b>Inlet Gas</b>            |                     |  |                  |
| Temperature                 | Daily               | Temperature sensor                             | -                |
| <b>Inlet and Outlet Gas</b> |                     |  |                  |
| Ammonia                     | Monthly             | Colorimetric Indicator Tubes <sup>Note 1</sup> | Spare tubes      |
| Hydrogen sulphide           | Monthly             | Colorimetric Indicator Tubes <sup>Note 1</sup> | Spare tubes      |
| Mercaptans                  | Monthly             | Colorimetric Indicator Tubes <sup>Note 1</sup> | Spare tubes      |
| <b>Bed Media</b>            |                     |  |                  |
| Condition <sup>Note 2</sup> | Daily               | Visual Inspection                              | -                |
| Moisture content            | Monthly             | Standard laboratory method <sup>Note 1</sup>   | -                |

|                                     |                       |                                      |             |
|-------------------------------------|-----------------------|--------------------------------------|-------------|
| Total viable counts                 | Bi-Annually           | Standard laboratory method<br>Note 1 | -           |
| <b>General</b>                      |                       |                                      |             |
| Sprinkler System                    | Check operation Daily | Visual Inspection                    | -           |
| Fan                                 | Check operation Daily | Visual Inspection                    |             |
| Negative Pressure <sup>Note 3</sup> | Monthly               | Air Current Tubes                    | Spare Tubes |

All measurements shall be made at peak bed loading.

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

**Note 2:** The biofilter shall be examined to ensure that no channelling is evident. Turning, restructuring and the addition of supplementary bed materials, or total bed replacement shall be carried out, as required, subject to bed performance.

**Note 3:** To be carried out on all buildings under negative pressure. A log shall be kept on - site with records of the date and time of analysis, building tested and weather on date of testing.

## ***D.8 Groundwater Monitoring***

**Table D.8.1 Groundwater Monitoring Frequency and Techniques**

| Parameter                        | Monitoring Frequency | Analysis Method/Technique          |
|----------------------------------|----------------------|------------------------------------|
| <b>Ammonia</b>                   | Bi-Annually          | Standard Methods <sup>Note 1</sup> |
| <b>Diesel Range Hydrocarbons</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.

## 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 Waste water                     | As they arise                        | One week after having received the results of analysis.  |
| 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.   |
| Groundwater Monitoring                        | Bi-Annually                          | Ten days after the period being reported on.   |
| Compost Quality                               | Variable                             | Two weeks after the period being reported on.  |
| Biofilter Monitoring                          | Quarterly                            | Ten days after end of the quarter being reported on.   |
| Any other monitoring                          | As they occur                        | Within ten days of obtaining results.  |

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



# SCHEDULE F : Standards for Compost Quality

Compost shall meet the standards below if not more than 25% of samples fail the criteria below. No sample shall exceed 1.2 times the quality limit values set.

[The following criteria (where they apply to compost) are deemed a quality standard for the use of compost as a soil improver and should not be deemed as criteria for fertiliser. In addition N, P, K, NH<sub>4</sub>-N, NO<sub>3</sub>-N, pH and dry matter content should also be measured]

## 1. Maturity (Compost only)

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

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

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

## 2. Trace Elements (Compost and Digestate) <sup>Note 1</sup>

### Maximum Trace Element Concentration Limits <sup>Note 2</sup>

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

- Note 1:** These limits apply to the compost just after the composting phase and prior to mixing with any other materials.
- Note 2:** The above alone should not be taken as an indication of suitability for addition to soil as the cumulative metal additions to soil should be first calculated.
- Note 3:** Normalised to 30% organic matter content.
- Note 4:** Compost must not contain any sharp foreign matter measuring over a 2 mm dimension that may cause damage or injury to humans, animals and plants during or resulting from its intended use.

### 3. Pathogens

Pathogenic organism content must not exceed the following limits:

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

Where: n = Number of samples to be tested;

### 4. Monitoring

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

The analyses shall be carried out:

- (a) every three months when the facility is producing more than 500 and up to 1 000 tonnes of treated biowaste per year;
- (b) at intervals of at least every month when the facility is producing more than 1 000 tonnes of treated biowaste per year.

# **SCHEDULE G : Content of the Annual Environmental Report**

## **Annual Environmental Report Content** <sup>Note 1</sup>

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.

Report on the removal efficiency of the biofilter at the facility based on actual on-site monitoring results.

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

Resource and energy consumption summary.

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

Schedule of Environmental Objectives and Targets for the forthcoming year.

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

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

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

Reported Incidents and Complaints summaries.

Review of Nuisance Controls.

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

Volume of waste water produced and volume of waste water transported off-site.

Any other items specified by the Agency.

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

**Sealed by the seal of the Agency on this 7<sup>th</sup> day of August 2003**

PRESENT when the seal of the Agency  
was affixed hereto:

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Padraic Larkin, Director/Authorised Person