

**This licence was amended on 14<sup>th</sup> January 2013 under Section 42B(1)(c) of the Waste Management Acts, 1996 to 2011. The details of Amendment A must be read in conjunction with this licence. The amendment document is entitled “Technical Amendment A”**

**LICENCE REG. NO. W0143-01 HAS BEEN CEASED**

Please note that Licence Reg. No. W0143-01 ceased to have effect from 30th May 2005



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

## WASTE LICENCE

### **Waste Licence**

**Register Number:** 143-1

**Licensee:** McGrath Industrial Waste Limited

**Location of Facility:** Gortnafolla,  
Castlebar,  
Co. Mayo

# 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 Gortnafolla, Castlebar, Co. Mayo.

McGrath Industrial Waste Limited will be licensed to accept non-hazardous wastes (primarily construction and demolition waste) only at this facility. The facility is not permitted to accept waste until the proposed waste transfer/recycling building is constructed. The wastes are required to be processed within a waste transfer building with the recyclable materials (e.g. construction and demolition waste, timber, paper/cardboard, glass, metals) removed and the residual waste sent to landfill. The quantity of waste to be accepted at the facility is limited to 60,800 tonnes in the first year of operation and increasing to a maximum of 95,000 tonnes in the third year.

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

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

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# DECISION & REASONS FOR THE DECISION

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

In reaching this decision the Agency has considered the application and supporting documentation received from the applicant, all submissions and objections received from other parties and the reports of its inspectors.

## *Part I Activities Licensed*

In pursuance of the powers conferred on it by the Waste Management Act, 1996, the Agency (the Agency), under Section 40(1) of the said Act hereby grants this Waste Licence to McGrath Industrial Waste Limited, Turlough, Castlebar, Co. Mayo to carry on the waste activities listed below at Gortnafolla, Castlebar, Co. Mayo subject to conditions, with the reasons therefor and the associated schedules attached thereto set out in the licence.

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

<b>Class 11.</b>	<b>Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.</b> This activity is limited to bulking and transfer of waste.
<b>Class 12.</b>	<b>Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.</b> This activity is limited to bulking and transfer of waste.
<b>Class 13.</b>	<b>Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned was produced.</b> This activity is limited to storage prior to transfer of the waste.

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

<b>Class 3.</b>	<b>Recycling or reclamation of metals and metal compounds:</b> This activity is limited to the recovery of metals and metal compounds.
<b>Class 4.</b>	<b>Recycling or reclamation of other inorganic materials:</b> This activity is limited to the recovery of inert wastes (e.g. construction and demolition waste).
<b>Class 12.</b>	<b>Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule:</b> This activity is limited to the recovery of various segregated waste streams (e.g. paper/cardboard, timber).
<b>Class 13.</b>	<b>Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced:</b> This activity is limited to the storage of waste prior to recovery.

# INTERPRETATION

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

<b>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>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 9.4
<b>Emission Limits</b>	Those limits, including concentration limits and deposition levels established in <i>Schedule C: Emission Limits</i> , of this licence.
<b>European Waste Catalogue (EWC)</b>	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 94/3/EC and any subsequent amendment published in the Official Journal of the European Community.
<b>Foul water</b>	Domestic sewage and drainage from the waste transfer building, wheelwash and weighbridge.
<b>Hours of Operation</b>	The hours during which the facility is authorised to be operational.
<b>Hours of Waste</b>	The hours during which the facility is authorised to accept waste.

## Acceptance

<b>Industrial Waste</b>	As defined in Section 5(1) of the Act.
<b>Inert waste</b>	Waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater.
<b>Licence</b>	A Waste Licence issued in accordance with the Act.
<b>Licensee</b>	McGrath Industrial Waste Limited, Turlough, Castlebar, Co. Mayo.
<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 twelve times per year, at approximately monthly intervals.
<b>Municipal waste</b>	As defined in Section 5(1) of the Act.
<b>Night-time</b>	10.00 p.m. to 8.00 a.m.
<b>Noise Sensitive Location (NSL)</b>	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
<b>Oil Separator</b>	Device installed according to the draft European Standard prEN 858 (Installations for the separation of light liquids, e.g. oil and petrol).
<b>Recyclable Materials</b>	Those waste types, such as cardboard, batteries, gas cylinders, etc, which may be recycled
<b>Quarterly</b>	At approximately three monthly intervals.
<b>Sample(s)</b>	Unless the context of this licence indicates to the contrary, samples shall include measurements by electronic instruments.
<b>Specified Emissions</b>	Those emissions listed in <i>Schedule C: Emission Limits</i> , of this licence.
<b>Specified Engineering Works</b>	Those engineering works listed in <i>Schedule B: Specified Engineering Works</i> , of this licence.
<b>Trigger Level</b>	A parameter value specified in the licence, the achievement or exceedance of which requires certain actions to be taken by the licensee.
<b>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 red on Drawing No. 706407/01/602, Revision A entitled 'Site Plan', Scale 1:500 of the waste licence application. Any reference in this licence to "facility" shall mean the area thus outlined in red.
- 1.3. This licence is for the purposes of waste licensing under the Waste Management Act 1996 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.4. 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, animal wastes or sludges shall be accepted at the facility.
- 1.6. Within twelve months of commencement of activities the licensee shall, as a minimum, recover 25% of all waste accepted at the facility.
- 1.7. Waste Acceptance Hours and Hours of Operation
  - 1.7.1. Waste shall only be accepted and processed at the facility between the hours of 8.30 a.m. to 7.00 p.m. Monday to Saturday inclusive.
  - 1.7.2. The facility shall only be operated during the hours of 8.00 a.m. to 8.00 p.m. Monday to Saturday inclusive.
  - 1.7.3. Waste shall not be accepted at the facility on Sundays or on Bank Holidays.
- 1.8. The following shall constitute an incident for the purposes of this licence:
  - a) an emergency;
  - b) any emission which does not comply with the requirements of this licence;
  - c) any exceedance of the daily duty capacity of the waste handling equipment;
  - d) any trigger level specified in this licence which is attained or exceeded; and
  - e) any indication that environmental pollution has, or may have, taken place.
- 1.9. Where the Agency considers that a non-compliance with any condition of this licence has occurred, it may serve a notice on the licensee specifying:
  - 1.9.1. That only those wastes as specified, if any, in the notice are to be accepted at the facility after the date set down in the notice;
  - 1.9.2. That the licensee shall undertake the works stipulated in the notice, and/or otherwise comply with the requirements of the notice as set down therein, within the time-scale contained in the notice; and
  - 1.9.3. That the licensee shall carry out any other requirement specified in the notice.

When the notice has been complied with, the licensee shall provide written confirmation that the requirements of the notice have been carried out. No waste, other than that which is stipulated in the notice, shall be accepted at the facility until written permission is received from the Agency.
- 1.10. Every plan, programme or proposal submitted to the Agency for its agreement pursuant to any Condition of this licence shall include a proposed timescale for its implementation. The Agency

may modify or alter any such plan, programme or proposal in so far as it considers such modification or alteration to be necessary and shall notify the licensee in writing of any such modification or alteration. Every such plan, programme or proposal shall be carried out within the timescale fixed by the Agency but shall not be undertaken without the agreement of the Agency. Every such plan, programme or proposal agreed by the Agency shall be covered by the conditions of this licence.

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

## **CONDITION 2 MANAGEMENT OF THE FACILITY**

### **2.1 Facility Management**

- 2.1.1 The licensee shall employ a suitably qualified and experienced facility manager who shall be designated as the person in charge. The facility manager or a nominated, suitably qualified and experienced, deputy shall be present on the facility at all times during its operation.
- 2.1.2 Both the facility manager and deputy, and any replacement manager or deputy, shall successfully complete both the FAS waste management training programme (or equivalent agreed with the Agency) and associated on site assessment appraisal within twelve months of date of grant of the licence.
- 2.1.3 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience, as required and shall be aware of the requirements of this licence.

### **2.2 Management Structure**

- 2.2.1 Prior to the commencement of waste activities at this facility, the licensee shall submit written details of the management structure of the facility to the Agency for its agreement. 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 of the commencement of waste activities at this facility, 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 specified requirements to this licence not be fulfilled.

#### 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 Prior to the commencement of waste activities at this facility, the licensee shall establish and maintain a Communications Programme to ensure that members of the public can obtain information at the facility, at all reasonable times, concerning the environmental performance of the facility.

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

## CONDITION 3 FACILITY INFRASTRUCTURE

- 3.1 All infrastructure required by Condition 3 of this licence shall be installed and provided prior to the acceptance of waste at the facility unless otherwise specified under the conditions of this licence. No waste shall be accepted at the facility without the prior written agreement of the Agency.
- 3.2 Specified Engineering Works
  - 3.2.1 The licensee shall submit proposals for all Specified Engineering Works, as defined in *Schedule B: Specified Engineering Works* of this licence, to the Agency for its agreement at least two months prior to the intended date of commencement of any such works. No such works shall be carried out without the prior agreement of the Agency.
  - 3.2.2 All specified engineering works shall be supervised by a competent person(s) and that person, or persons, shall be present at all times during which relevant works are being undertaken.
  - 3.2.3 Following the completion of all specified engineering works, the licensee shall complete a construction quality assurance validation. The validation report shall be made available to the Agency on request. The report shall include the following information;
    - a) a description of the works;
    - b) as-built drawings of the works;
    - c) records and results of all tests carried out (including failures);
    - d) drawings and sections showing the location of all samples and tests carried out;

- e) daily record sheets/diary;
- f) name(s) of contractor(s)/individual(s) responsible for undertaking the specified engineering works;
- g) name(s) of individual(s) responsible for supervision of works and for quality assurance validation of works;
- h) records of any problems and the remedial works carried out to resolve those problems; and
- i) any other information requested in writing by the Agency.

### 3.3 Facility Notice Board

3.3.1 The licensee shall provide and maintain a Facility Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the board shall be 1200 mm by 750 mm.

3.3.2 The board shall clearly show:

- a) the name and telephone number of the facility;
- b) the normal hours of opening;
- c) the name of the licence holder;
- d) an emergency out of hours contact telephone number;
- e) the licence reference number; and
- f) where environmental information relating to the facility can be obtained.

### 3.4 Facility Security

3.4.1 Security gates shall be installed and maintained at the entrance to the facility and adequate security fencing shall be provided around the perimeter of the facility. In addition, the licensee shall install and provide a CCTV monitoring system at the facility.

3.4.2 The licensee shall remedy any defect in the gates and/or fencing as follows:

- a) a temporary repair shall be made by the end of the working day; and,
- b) a repair to the standard of the original gates and/or fencing shall be undertaken within three working days.

### 3.5 Facility Roads and Hardstanding

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

3.5.2 The facility entrance area, access roads, parking areas, vehicle fuelling area, all areas where vehicle movement takes place and all waste handling and storage areas shall be impermeable hardstand. The floor of the buildings and all hardstanding areas at the facility shall be concreted and constructed to British Standard 8110 or other standard agreed in advance with the Agency.

### 3.6 Facility Office

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

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

### 3.7 Waste Inspection and Quarantine Areas

3.7.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained within the waste transfer building.

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

### 3.8 Weighbridge, Wheel Cleaning

3.8.1 The licensee shall provide and maintain a weighbridge and wheelwash at the facility.

### 3.9 Waste Transfer building

3.9.1 The licensee shall ensure that all doors, other than personnel doors, remain shut where practicable except during the movement and transfer of waste into and out of the building. In addition the commercial and domestic waste delivery door and the construction and demolition waste delivery door shall have automatic open/close mechanisms fitted and used. Acoustic curtains shall also be provided inside all non-personnel doors.

3.9.2 The entire building shall be acoustically screened and low noise equipment/plant shall be used where available. In addition, the air extraction system shall be contained within an acoustic enclosure in order to minimise noise emissions.

3.9.3 All waste acceptance, processing and storage areas within the waste transfer building shall be clearly segregated from each other.

3.9.4 All buildings constructed on the facility shall have regard to the guidance given in the Department of Environments 1994 publication "Protection of New Buildings and Occupants from Landfill Gas" and any subsequent revisions.

### 3.10 Waste handling, ventilation and processing plant

3.10.1 Items of plant deemed critical to the efficient and adequate processing of waste at the facility (including *inter alia* waste loading vehicles and ejector trailers) shall be provided on the following basis:

- 100% duty capacity;
- 50% standby capacity available on a routine basis;
- Provision of contingency arrangements and/or back up and spares in the case of breakdown of critical equipment.

The duty and standby capacities shall be based on the licensed waste intake, as per *Schedule A: Waste Acceptance* of this licence.

3.10.2 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.

### 3.11 Foul Water Treatment System

3.11.1 The licensee shall provide and maintain a foul water treatment system at the facility which is capable of treating foul water arising on-site. The system shall incorporate the following:

- (i) a silt trap and Class II full retention oil interceptor
- (ii) septic tank

- (iii) Puraflo system and associated percolation area
- (iv) the removal of all waste which has been historically deposited in the locations designated for installation of the percolation areas and such percolation areas shall be constructed using imported soil having a 'T' value in the range 15-30
- (v) the septic tank, Puraflo system and percolation areas shall satisfy the criteria set out in the Wastewater Treatment Manual, *Treatment Systems for Single Houses*, published by the Environmental Protection Agency.

### 3.12 Tank and Drum Storage Areas

- 3.12.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein.
- 3.12.2 All tank and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:
  - (a) 110% of the capacity of the largest tank or drum within the bunded area; or
  - (b) 25% of the total volume of substance which could be stored within the bunded area.
- 3.12.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.12.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 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 their installation and prior to their use. This confirmation shall be repeated at least once every three years thereafter and reported to the Agency on each occasion.

### 3.13 Silt Traps and Oil Separators/Interceptors

- 3.13.1 The licensee shall install and maintain a silt trap and Class I full retention oil interceptor at the facility to ensure that all surface water discharges from the facility pass through a silt trap and oil interceptor prior to discharge.
- 3.13.2 In addition, two silt traps shall also be provided adjacent to the processed construction and demolition storage area.
- 3.13.3 All silt traps and oil interceptors shall be in accordance with European Standard prEN 858 (installations for the separation of light liquids).

### 3.14 Drainage system, pipeline testing

- 3.14.1 All foul sewer gullies, drainage grids and manhole covers shall be painted with red squares whilst all surface water discharge gullies, drainage grids and manhole covers shall be painted with blue triangles. These colour codes shall be maintained so as to be visible at all times during facility operation, and any identification designated in this licence shall be inscribed on these manholes.
- 3.14.2 The drainage system, bunds, silt traps and oil separators shall be inspected weekly, desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal. A written record shall be kept of the inspections, desludging, cleaning, disposal of associated waste products, maintenance and performance of the interceptors, bunds and drains.
- 3.14.3 The integrity and water tightness of all underground pipes and tanks and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee and shall be reported to the Agency following their installation and prior to their use. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. A written

record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.

3.14.4 The licensee shall provide a shut-off valve on the surface water and foul water network to stop the discharge if so required.

### 3.15 Vehicle Fuelling

3.15.1 Unless otherwise agreed with the Agency, the licensee shall provide a vehicle fuelling area at the facility, which shall be designed so as to prevent drainage to the surface water or foul water systems. All drainage and any spillages contained within this area shall be removed off-site for recovery or disposal.

### 3.16 Storage Area for Processed Construction and Demolition Waste and White Goods

3.16.1 The licensee shall provide storage bay(s) for storing processed construction and demolition waste and white goods external to the waste transfer building. A containment kerb shall be provided at such bays.

### 3.17 Water Storage/Firewater storage

3.17.1 The licensee shall provide holding tanks/ponds at the facility for the purposes of storing (i) water for use in the event of a fire at the facility and (ii) firewater which has been used for fire-fighting at the facility. The capacity of such structures shall meet the requirements of the Chief Fire Officer of Mayo County Council and the requirements of Condition 9.2.

### 3.18 Monitoring Infrastructure

#### 3.18.1 Replacement of Infrastructure

(i) Monitoring infrastructure which is damaged or proves to be unsuitable for its purpose shall be replaced within three months of it being damaged or recognised as being unsuitable.

#### 3.18.2 Landfill Gas Monitoring

(i) The licensee shall provide three landfill gas monitoring wells at the facility at locations to be agreed with the Agency.

#### 3.18.3 Groundwater monitoring wells

(i) Prior to the commencement of construction of the waste transfer building and associated infrastructure, the licensee shall install and provide (subject to landowners agreement) one bedrock groundwater monitoring well upgradient and one downgradient at locations to be agreed with the Agency.

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

## CONDITION 4 RESTORATION AND AFTERCARE

4.1. A proposal for a Decommissioning and Aftercare Plan for the facility shall be submitted to the Agency within twelve months of the commencement of waste activities at this facility. The licensee shall update these schemes when required by the Agency.

## 4.2 Landscape

- 4.2.1 The existing hedgerow network along the boundary of the facility shall be retained by the licensee.
- 4.2.2 The wetland area at the south east corner of the facility shall remain undisturbed and shall be retained in situ by the licensee.
- 4.2.3 Prior to the commencement of waste activities at the facility, an acoustic screen (external to waste transfer building) shall be provided at the level at which the waste transfer building is located.
- 4.2.4 Notwithstanding the above and prior to commencement of the waste activities at the facility, the licensee shall submit to the Agency for its agreement a revised landscaping programme to include details on (but not limited to):
  - a) the time-frame for landscaping works in relation to site development;
  - b) species composition and the suitability of the hedge/tree mix for the area (at least 20% of tree stock planting shall be greater than 1m in height at the time of planting)
  - c) total area(s) to be planted;
  - d) planting method and fertiliser requirement;
  - e) tree protection

Landscaping measures shall be managed and kept adequate for the purposes of screening.

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

## **CONDITION 5 FACILITY OPERATIONS**

### 5.1. Waste Acceptance and Characterisation Procedures

- 5.1.1. Prior to the commencement of waste activities at this facility, the licensee shall establish and maintain detailed written procedures for the acceptance and handling of wastes.
- 5.1.2. Waste arriving at the facility shall be inspected at the point of entry to the facility and subject to this inspection, weighed, documented and directed to the waste transfer building. Each load of waste arriving at the waste transfer building shall be inspected upon tipping within this building. Only after such inspections shall the waste be processed for disposal or recovery.
- 5.1.3. All suspect materials identified by the visual inspection of the waste shall be diverted to the Waste Quarantine Area, or other designated area as agreed in advance by the Agency, for further examination and classification. 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. Materials other than those permitted by this licence shall be submitted to an alternative appropriate facility.
- 5.1.4. A record of all inspections of incoming waste loads shall be maintained.
- 5.1.5. Waste shall only be accepted at the facility from known customers or new customers subject to initial waste profiling and waste characterisation off-site. The written records of this off-site waste profiling and characterisation shall be retained by the

licensee for all active customers and for a two year period following termination of licensee/customer agreements. There shall be no casual public access to the facility.

- 5.1.6. All containers accepted at the facility shall be whole and sound. The contents of any leaking or otherwise ruptured containers shall immediately be transferred to a sound container in a manner which will not adversely affect the environment. Any spillages should be cleaned up so as not to adversely affect the environment or the performance of the oil interceptor.

## 5.2 Operational Controls

- 5.2.1 The floor of the waste transfer building shall be cleaned down and cleared of all waste at the end of the working day. The floor of the storage bays for recovered wastes shall be washed down and cleaned on each occasion such bays are emptied.
- 5.2.2 Dust emissions from all stockpiles of processed construction and demolition waste which are stored external to the waste transfer building shall be controlled by appropriate covering of such materials. The cover material to be used shall be agreed with the Agency.
- 5.2.3 All doors of the waste transfer building shall be kept fully shut with acoustic curtains in place when the concrete crusher, trommel or timber shredder are in operation.
- 5.2.4 Scavenging shall not be permitted at the facility.
- 5.2.5 Gates shall be locked shut when the facility is unsupervised.
- 5.2.6 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 5.2.7 Fuels shall only be stored at appropriately bunded locations on the facility.
- 5.2.8 All tanks and drums shall be labelled to clearly indicate their contents.

## 5.3 Off-site Disposal and Recovery

- 5.3.1 Waste sent off-site for recovery or disposal shall only be conveyed by a waste contractor agreed by the Agency;
- 5.3.2 All waste transferred from the facility shall only be transferred to an appropriate facility agreed by the Agency;
- 5.3.3 All wastes removed off-site for recovery or disposal shall be transported from the facility to the consignee in a manner which will not adversely affect the environment.

## 5.4 Maintenance

- 5.4.1 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer. Written records of the calibrations and maintenance shall be made and kept by the licensee.
- 5.4.2 The licensee shall maintain and clearly label and name all sampling and monitoring locations.
- 5.4.3 The condition of the bag filters on the dust abatement system shall be inspected as a minimum on a weekly basis and appropriate actions taken where necessary.

- 5.4.4 The wheel-wash shall be inspected on a daily basis and drained as required. Silt, stones and other accumulated material shall be removed as required from the wheel-wash and disposed of appropriately.
- 5.4.5 The licensee shall maintain waste handling and processing plant in accordance with the manufacturers instructions.

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

## CONDITION 6 EMISSIONS

- 6.1. No specified emission from the facility shall exceed the emission limit values set out *in Schedule C: Emission Limits* of this licence. There shall be no other emissions of environmental significance.
- 6.2. The licensee shall ensure that the activities shall be carried out in a manner such that emissions do not result in significant impairment of, or significant interference with the environment beyond the facility boundary.
- 6.3. There shall be no clearly audible tonal component or impulsive component in the noise emissions from the activity at the noise sensitive locations.
- 6.4. Landfill Gas
- 6.4.1. The following are the trigger levels for landfill gas emissions from the facility measured in any service duct or manhole on, at or immediately adjacent to the facility and/or at any other point located outside the body of the waste:
- (i) Methane, greater than or equal to 1.0% v/v; and
  - (ii) Carbon dioxide, greater than or equal to 1.5% v/v.
- 6.5. Dust Emissions to atmosphere from dust abatement system
- 6.5.1. Emission limits for dust emissions to atmosphere from the dust abatement system shall be interpreted in the following way:
- 6.5.1.1. 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.
- 6.6. Emissions to Surface Water
- 6.6.1. The trigger levels for surface water discharges from the facility measured at monitoring point ST1 are:
- (a) BOD 25mg/l
  - (b) Suspended Solids 35mg/l
- 6.6.2. No substance shall be discharged in a manner, or at a concentration which, following initial dilution causes tainting of fish or shellfish.
- 6.6.3. No foul water shall be discharged to surface water drainage system.



- 6.6.4. Non-trade effluent wastewater (e.g. firewater, accidental spillage) which occurs on-site shall not be discharged to the foul water or surface water drainage system.
- 6.6.5. Roof-water from the on-site buildings shall be discharged to the surface water or used on site, in a manner to be agreed with the Agency.
- 6.7. Emission limit values for treated foul water prior to entering the percolation areas shall be interpreted in the following way:
  - 6.7.1. No pH value shall deviate from the specified range.
  - 6.7.2. For parameters other than pH and flow, no grab sample or daily mean concentration sample shall exceed the emission limit value.

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

## **CONDITION 7    NUISANCE CONTROL**

- 7.1 All processing of wastes shall take place indoors within the waste transfer building.
- 7.2 No waste shall be stored external to the waste transfer building with the exception of processed construction and demolition waste and white goods destined for recovery.
- 7.3 All waste for disposal stored overnight at the facility, shall be stored in suitably covered and enclosed containers within the waste transfer building, and shall be removed from the facility within forty eight hours of its arrival at the facility except at Bank Holiday weekends. At Bank Holiday weekends, waste for disposal shall be removed from site within seventy two hours of its arrival on site.
- 7.4 The licensee shall ensure that vermin, birds, flies, mud, dust, litter and odours do not give rise to nuisance at the facility or in the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution.
- 7.5 The road network in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay. Prior to exiting the facility, all waste vehicles shall use the wheelwash.
- 7.6 Vermin/Fly Control
  - 7.6.1 Prior to the date of commencement of the waste activities at the facility, the licensee shall submit to the Agency for its agreement, a programme for the control and eradication of vermin and fly infestations at the facility. This programme should include, as a minimum, details on the rodenticide(s) and insecticide(s) to be used, operator training, mode and frequency of application and measures to contain sprays within the facility boundary.
- 7.7 Litter Control
  - 7.7.1 All loose litter or other waste, placed on or in the vicinity of the facility, other than in accordance with the requirements of this licence, shall be removed, subject to the agreement of the landowners, immediately and in any event by 10.00 a.m. of the next working day after such waste is discovered.
  - 7.7.2 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered and adequately secured to prevent spillage.

7.8 Dust/Odour Control

- 7.8.1 In dry weather, site roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
- 7.8.2 Prior to the date of commencement of the waste activities at the facility, the licensee shall install and provide the odour and dust abatement systems based on the Article 16 response received by the Agency on 01/10/01. In addition, the following additional measures shall be included:
- (i) A system for the maintenance of integrity and negative pressure shall be installed and maintained throughout the waste transfer building to ensure no significant escape of odours or dust. A report which confirms the negative and integrity pressure within the waste transfer building shall be submitted to the Agency for its agreement prior to the date of commencement of the waste activities at the facility.
  - (ii) Provision of 100% duty capacity and 50% stand by capacity, back ups and spares must be provided for the air handling, ventilation and abatement plant.

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

## CONDITION 8 MONITORING

- 8.1. The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule D: Monitoring* of this licence and as specified in this licence. Unless otherwise specified by this licence or agreed by the Agency, all environmental monitoring shall commence no later than two months of the commencement of waste activities at the facility.
- 8.2. The licensee shall amend the frequency, locations, methods and scope of monitoring as required by this licence only upon the written instruction of the Agency and shall provide such information concerning such amendments as may be requested in writing by the Agency. Such alterations shall be carried out within any timescale nominated by the Agency.
- 8.3. Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturers' instructions (if any) so that all monitoring results accurately reflect any emission, discharge or environmental parameter.
- 8.4. The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 8.5. The licensee shall maintain all sampling and monitoring points, and clearly label and name all sampling and monitoring locations, so that they may be used for representative sampling and monitoring.
- 8.6. The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 8.7. Prior to the commencement of waste activities at this facility, the following information shall be submitted to the Agency for its agreement: the names, qualifications and a summary of relevant experience of all persons that will carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring. Any proposed changes to the above shall be submitted in writing to the Agency for its agreement.
- 8.8. All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on, unless alternative sampling

or monitoring has been agreed, in writing, by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring facilities shall be put in place. Prior written agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.

8.9. Nuisance Monitoring

8.9.1. The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by litter, vermin, birds, flies, mud, dust and odours.

8.10. Groundwater Monitoring

8.10.1. Groundwater monitoring shall commence prior to the commencement of construction of the waste transfer building and associated infrastructure.

<p><b>Reason:</b> <i>To ensure compliance with the conditions of this licence by provision of a satisfactory system of monitoring of emissions</i></p>
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## CONDITION 9 CONTINGENCY ARRANGEMENTS

9.1. In the event of an incident the licensee shall immediately:

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

9.2. Prior to commencement of waste activities, the licensee shall submit a written Emergency Response Procedure (ERP) to the Agency for its agreement. The ERP shall address any emergency situations which may originate on the facility and shall include provision for minimising the effects of any emergency on the environment. This shall include an assessment of the proposed storage facilities which will be provided as required by Condition 3.17 of this licence in the event of a fire at the facility. The Chief Fire Officer of Mayo Co. Co. shall be consulted by the licensee during this assessment.

9.3. The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the facility. Once used the absorbent material shall be disposed of at an appropriate facility.

9.4. Emergencies

9.4.1. In the event of a complete breakdown of equipment or any other occurrence which results in the closure of the transfer station building, any waste arriving at or already collected at the facility shall be transferred directly to appropriate landfill sites or any other appropriate facility until such time as the transfer station building is returned to

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

9.4.2. All significant spillages occurring at the facility shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects;

9.4.3. No waste shall be burnt within the boundaries of the facility. A fire at the facility shall be treated as an emergency and immediate action shall be taken to extinguish it and notify the appropriate authorities;

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

## CONDITION 10 RECORDS

10.1 The licensee shall keep the following documents at the facility office.

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

10.2 The licensee shall maintain a written record for each load of waste arriving at and departing from the facility. The licensee shall record the following:

- a) the date;
- b) the name of the carrier (including if appropriate, the waste carrier registration details);
- c) the vehicle registration number;
- d) the name of the producer(s)/collector(s) of the waste as appropriate;
- e) the name of the waste facility (if appropriate) from which the load originated including the waste licence or waste permit register number;
- f) a description of the waste including the associated EWC codes;
- g) the quantity of the waste, recorded in tonnes
- h) the name of the person checking the load; and,
- i) where loads or wastes are removed or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed,
- j) where applicable a consignment note number (including transfrontier shipment notification and movement/tracking form numbers, as appropriate).

10.3 Written Records

The following written records shall be maintained by the licensee:

- a) the types and quantities of waste recovered at the facility each year. These records shall include the relevant EWC Codes;
- b) all training undertaken by facility staff;
- c) results from all integrity tests of bunds and other structures and any maintenance or remedial work arising from them;
- d) details of all nuisance inspections; and

- e) the names and qualifications of all persons who carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring.
  - f) any other records required by this licence.
- 10.4 The licensee shall maintain a written record of all complaints relating to the operation of the activity. Each such record shall give details of the following:
- a) date and time of the complaint;
  - b) the name of the complainant;
  - c) details of the nature of the complaint;
  - d) actions taken on foot of the complaint and the results of such actions; and,
  - e) the response made to each complainant.
- 10.5 A written record shall be kept at the facility of the programme for the control and eradication of vermin and fly infestations at the facility. These records shall include as a minimum the following:
- a) the date and time during which spraying of insecticide is carried out;
  - b) contractor details;
  - c) contractor logs and site inspection reports;
  - d) details of the rodenticide(s) and insecticide(s) used;
  - e) operator training details;
  - f) details of any infestations;
  - g) mode, frequency, location and quantity of application; and,
  - h) measures to contain sprays within the facility boundary.

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

## CONDITION 11 REPORTS AND NOTIFICATIONS

- 11.1 Unless otherwise agreed by the Agency, all reports and notifications submitted to the Agency shall:
- a) be sent to the Agency's headquarters;
  - b) comprise one original and four copies unless additional copies are required;
  - c) be formatted in accordance with any written instruction or guidance issued by the Agency;
  - d) include whatever information as is specified in writing by the Agency;
  - e) be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;
  - f) be submitted in accordance to the relevant reporting frequencies specified by this licence, such as in *Schedule E: Recording and Reporting to the Agency* of this licence;
  - g) be accompanied by a written interpretation setting out their significance in the case of all monitoring data; and
  - h) be transferred electronically to the Agency's computer system if required by the Agency.
- 11.2 In the event of an incident occurring on the facility, the licensee shall:
- a) notify the Agency as soon as practicable and in any case not later than 10.00 a.m. the following working day after the occurrence of any incident;

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

### 11.3 Geotechnical Report

- 11.3.1 Prior to the construction of the waste transfer building, the licensee shall submit to the Agency for its agreement a report on the geotechnical site investigations which have been undertaken at the facility. The investigations shall be based on the information received by the Agency on 23/04/01. Any recommendations arising from this report shall be implemented prior to the commencement of construction of the waste transfer building and associated infrastructure at the facility.

### 11.4 Waste Recovery Reports

- 11.4.1. Notwithstanding Condition 1.6, within six months of the commencement of waste activities at this facility, the licensee shall submit proposals for increasing the separation and recovery of appropriate components of the waste being accepted at the facility to the Agency for its agreement. The licensee shall aim to achieve the targets set out in “Waste Management, Changing Our Ways” (Department of the Environment and Local Government, 1998).

### 11.5 Monitoring Locations

- 11.5.1. Prior to the commencement of waste activities at this facility, the licensee shall submit to the Agency an appropriately scaled drawing(s) showing all the monitoring locations that are stipulated in this licence. The drawing(s) shall include the reference code of each monitoring point.

### 11.6 Annual Environmental Report

- 11.6.1 The licensee shall submit to the Agency for its agreement, within thirteen months from the date of grant of this licence, and one month after the end of each calendar year thereafter, an Annual Environmental Report (AER).
- 11.6.2 The AER shall include as a minimum the information specified in *Schedule F: Content of Annual Environmental Report* of this licence and shall be prepared in accordance with any relevant written guidance issued by the Agency.

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

## **CONDITION 12 CHARGES AND FINANCIAL PROVISIONS**

### 12.1 Agency Charges

- 12.1.1 The licensee shall pay to the Agency an annual contribution of €13,708 or such sum as the Agency from time to time determines, towards the cost of monitoring the activity or otherwise in performing any functions in relation to the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996.

The licensee shall in 2003 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Public Sector Average Earnings Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 2002, the licensee shall pay a pro rata amount from the date of this licence to 31<sup>st</sup> December. This amount shall be paid to the Agency within one month of the date of grant of this licence.

12.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased the licensee shall contribute such sums as determined by the Agency to defraying its costs.

## 12.2 Financial Provision for Closure, Restoration and Aftercare

12.2.1 The licensee shall arrange for the completion of a comprehensive and fully costed Environmental Liabilities Risk Assessment for the facility which will address liabilities arising from the carrying on of the activities to which this licence relates. A report on this assessment shall be submitted to the Agency for its agreement within six months of the date of commencement of waste activities at this facility.

12.2.2 Within nine months of the date of commencement of waste activities at this facility, the licensee shall make a Proposal for Financial Provision to the Agency for its agreement to cover any liabilities incurred by the licensee in carrying on the activities to which this licence relates. Such provision shall be maintained by the licensee unless otherwise agreed by the Agency.

12.2.3 The amount of financial provision, held under condition 12.2.2 shall be reviewed and revised as necessary, but at least annually. Any proposal for such a revision shall be submitted to the Agency for its agreement.

12.2.4 The licensee shall within two weeks of purchase, renewal or revision of the financial provision required under condition 12.2.2, forward to the Agency written proof of such indemnity.

<p><b>Reason:</b> <i>To provide for adequate financing for monitoring and financial provisions for measures to protect the environment.</i></p>
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## SCHEDULE A : Waste Acceptance

### A.1 Waste Acceptance

Table A.1 Waste Categories and Quantities

WASTE TYPE	MAXIMUM WASTE QUANTITY TO BE ACCEPTED DURING RELEVANT TIME PERIODS		
	Year 1	Year 2	Year 3 onwards
Household	14,400	18,000	22,500
Commercial & Industrial	11,200	14,000	17,500
Construction & Demolition	35,200	44,000	55,000
<b>TOTAL</b>	<b>60,800</b>	<b>76,000</b>	<b>95,000</b>

## SCHEDULE B : Specified Engineering Works

Specified Engineering Works
Installation of foul water treatment system, dust/odour abatement systems and wheelwash
Installation of waste handling, processing, recycling/recovery infrastructure and installation of increased waste processing capacity.
Any other works notified in writing by the Agency.

## SCHEDULE C :Emission Limits

### C.1 Noise Emissions: (Measured at Noise Sensitive Locations).

Day dB(A) L <sub>Aeq</sub> (30 minutes)	Night dB(A) L <sub>Aeq</sub> (30 minutes)
55	45

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

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

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



**C.3 Surface Water Discharge Limits:** (Measured at the monitoring point ST1 as indicated in Table D.1.1.).

Parameter	Emission Limit Value
Mineral oils	5mg/l

**C.4 Emission Limits for Treated Foul Water to Percolation Area:** (Measured at the monitoring point indicated in Table D.1.1).

Parameter	Emission Limit Value (mg/l with exception of pH)
pH	6-9
BOD	15
Suspended Solids	15
Total Ammonia as (as N)	5

**C.5 Emission Limits from Dust Abatement System:** (Measured at the monitoring point indicated in Table D.1.1.)

Parameter	Emission Limit Value
Total Particulates	50mg/m <sup>3</sup>

**C.6 Landfill Gas Concentration Limits:** (Measured in any building on or adjacent to the facility.)

Methane	Carbon Dioxide
20% LEL (1.0% v/v)	1.5% v/v

## SCHEDULE D :Monitoring

### D.1 Monitoring Locations

Monitoring locations shall be those as set out in Table D.1.1., Drawing No. 706407/01/605 Revision A of the EIS and Drawing No. 706407/01/611 of the waste licence application.

**Table D.1.1 Monitoring Locations**

Foul Water	Surface Water	Noise	Dust	Landfill Gas Note 1	Groundwater
FW1 <sup>Note 1</sup>	ST1 SW1 SW2 SW3	N1 N2 N3 N4 N5 <sup>Note 4</sup>	D1 D2 <sup>Note 2</sup> D3 D4 <sup>Note 4</sup> D5 <sup>Note 3</sup>	LG1 LG2 LG3	BH3 BH6 <sup>Note 1</sup> BH7 <sup>Note 1</sup>

**Note 1:** To be agreed with the Agency.

**Note 2:** To be relocated to the south eastern boundary of the facility at a location to be agreed with the Agency.

**Note 3:** Monitoring point for dust emissions from dust abatement system to be agreed with the Agency.

**Note 4:** At nearest Sensitive Location to be agreed with the Agency.

## D.2 Dust Deposition

**Table D.2.1 Dust Deposition Monitoring Frequency and Technique**

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

**Note 1:** Standard method VDI2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute). A modification (not included in the standard) which 2 methoxy ethanol may be employed to eliminate interference due to algae growth in the gauge.

**Note 2:** Twice during the period May to September.

## D.3 Dust Emissions

**Table D.3.1 Dust Emissions Monitoring Frequency and Technique**

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

## D.4 Noise

**Table D.4.1 Noise Monitoring Frequency and Technique**

Parameter	Monitoring Frequency	Analysis Method/Technique
L(A) <sub>EQ</sub> [30 minutes]	Bi-annual	Standard <sup>Note 1</sup>
L(A) <sub>10</sub> [30 minutes]	Bi-annual	Standard <sup>Note 1</sup>
L(A) <sub>90</sub> [30 minutes]	Bi-annual	Standard <sup>Note 1</sup>
Frequency Analysis(1/3 Octave band analysis)	Bi-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.5 Treated Foul water Emissions to Percolation Area

**Table D.5.1 Foul water Monitoring Frequency and Techniques**

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

**Note 1:** "Standards Methods for the Examination of Water and Wastewater", (prepared and published jointly by A.P.H.A., A.W.W.A & W.E.F) 20th Ed., American Public Health Association, 1015 Fifteenth Street, Washington DC 20005, USA.

## D.6 Landfill Gas

**Table D.6.1 Landfill Gas Monitoring Parameters, Frequency and Techniques**

Parameter	Monitoring Frequency	Analysis Method/Technique <sup>Note1</sup>
	Gas Wells	
<b>Methane (CH<sub>4</sub>) % v/v</b>	Quarterly	Infrared analyser/flame ionisation detector
<b>Carbon dioxide (CO<sub>2</sub>) % v/v</b>	Quarterly	Infrared analyser/ flame ionisation detector
<b>Oxygen(O<sub>2</sub>) % v/v</b>	Quarterly	Electrochemical cell
<b>Atmospheric Pressure</b>	Quarterly	Standard
<b>Temperature</b>	Quarterly	Standard

**Note 1 :** Or other methods agreed in advance with the Agency.

## D.7 Surface Water and Groundwater

**Table D.7.1 Surface Water and Groundwater Monitoring Frequency and Techniques**

Parameter <sup>Note 1</sup>	Surface Water	Groundwater
Visual Inspection/Odour	Weekly	Quarterly
Groundwater Level	Not Applicable	Monthly
pH	Quarterly	Quarterly
Temperature	Quarterly	Quarterly
Electrical Conductivity	Quarterly	Quarterly
COD	Every two months	Not Applicable
BOD	Every two months	Not Applicable
Ammoniacal Nitrogen	Every two months	Quarterly
Total Suspended Solids	Every two months <sup>Note 2</sup>	Not Applicable
Dissolved Oxygen	Quarterly	Not Applicable
Total Oxidised Nitrogen	Quarterly	Quarterly
Mineral Oils	Quarterly <sup>Note 2</sup>	Not Applicable
Total phosphorous/orthophosphate	Quarterly	Annually
Coliforms (total, faecal)	Quarterly	Annually
Copper	Annually	Annually
Chromium	Annually	Annually
Lead	Annually	Annually
Mercury	Annually	Annually
Nickel	Annually	Annually
Potassium	Annually	Annually
Sodium	Annually	Annually
Cyanide	Annually	Annually
Zinc	Annually	Annually
Cadmium	Annually	Annually
List I/II Organic Substances <sup>Note 3</sup>	Once-off	Once-off
Arsenic, Flouride, Atrazine, Simazine, Toluene, Dichloromethane, Xylenes	Once-off	Not Applicable
Total Alkalinity (as CaCO <sub>3</sub> )	Annually	Annually
Biological assessment <sup>Note 4</sup>	Annually	Not Applicable

**Note 1:** "Standards Methods for the Examination of Water and Wastewater", (prepared and published jointly by A.P.H.A., A.W.W.A & W.E.F) 20th Ed., American Public Health Association, 1015 Fifteenth Street, Washington DC 20005, USA.

**Note 2:** Applicable to final surface water discharge from the facility (ST1).

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

**Note 4:** Applicable to one upstream and one downstream location to be agreed with the Agency. Appropriate biological methods to be used for the assessment of rivers and streams for species abundance and diversity. This assessment should be carried out during the months of May and September.

## SCHEDULE E : Recording and Reporting to the Agency

Report	Reporting Frequency <sup>Note1</sup>	Report Submission Date
<b>Environmental Management System Updates</b>	Annually	One month after the end of the year reported on.
<b>Annual Environment Report (AER)</b>	Annually	Thirteen months from the date of grant of licence and one month after the end of each calendar year thereafter.
<b>Record of incidents</b>	As they occur	Within five days of the incident.
<b>Bund, tank and container integrity assessment</b>	Every three years	Six months from the date of grant of licence and one month after end of the three year period being reported on.
<b>Specified Engineering Works reports</b>	As they arise	Prior to the works commencing.
<b>Monitoring of Surface Water Quality</b>	Quarterly	Ten days after end of the quarter being reported on.
<b>Monitoring of Groundwater Quality</b>	Quarterly	Ten days after end of the quarter being reported on.
<b>Monitoring of Foul water</b>	Quarterly	Ten days after end of the quarter being reported on.
<b>Landfill Gas Monitoring</b>	Quarterly	Ten days after end of the quarter being reported on.
<b>Dust Deposition Monitoring</b>	Three times a year	Ten days after the period being reported on
<b>Noise Monitoring</b>	Bi-annually	Every six months
<b>Dust Emission Monitoring</b>	Annually	One month after end of the year being reported on.
<b>Any other monitoring</b>	As they occur	Within ten days of obtaining results.

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

# SCHEDULE F : Content of the Annual Environmental Report

## Annual Environmental Report Content <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

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 foul water produced and volume of foul 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 the 30<sup>th</sup> day of May 2002

PRESENT when the seal of the Agency  
was affixed hereto:

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**Padraic Larkin      Director/Authorised Person**