This licence was amended on 15th 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. W0215-01 HAS CEASED

Please note that the Licence Reg no W0215-01 ceased to have effect from 12/07/09



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

WASTE LICENCE

Licence Register No:	W0215-01
Licensee:	Donegal County Council
Location of Facility:	Meenaboll Landfill Site, Meenaboll, Letterkenny, County Donegal

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 non-hazardous waste landfill and a civic amenity facility located at Meenaboll Landfill Site. Letterkenny, County Donegal. The waste intake is limited to 25,500 tonnes per annum comprising of household waste, commercial waste, construction & demolition and industrial waste.

The licence provides for the operation of a civic waste facility which will allow for acceptance of waste types such as glass, paper, cardboard, metal, plastic, green waste, mixed municipal waste and household hazardous waste such as fluorescent tubes, waste oils, paint, batteries and WEEE.

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

The licence sets out in detail the conditions under which Donegal County Council will operate and manage this facility.

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Glossary of Terms

All terms in this licence should be interpreted in accordance with the definitions in the Waste Management Acts 1996 to 2005, (the Acts), unless otherwise defined in this section.

Adequate lighting 20 lux measured at ground level.

A suspension of solid or liquid particles in a gaseous medium. Aerosol

AER Annual Environmental Report.

Agreement Agreement in writing.

Annually At approximately twelve monthly intervals.

Any reference to Attachments in this licence refers to attachments submitted as Attachment

part of this licence application.

The application by the licensee for this licence. Application

A waste management facility, duly authorised under relevant law and technically Appropriate suitable. facility

Best Available Techniques. BAT

Bi-annually All or part of a period of six consecutive months.

Biennially Once every two years.

BOD 5 day Biochemical Oxygen Demand.

CEN Comité Européen De Normalisation - European Committee for Standardisation.

COD Chemical Oxygen Demand.

Construction and Wastes that arise from construction, renovation and demolition activities: Chapter 17 of the EWC or as otherwise may be agreed. **Demolition Waste**

Containment A boom which can contain spillages and prevent them from entering drains or boom watercourses or from further contaminating watercourses.

During all days of plant operation, and in the case of emissions, when emissions Daily

are taking place; with at least one measurement on any one day.

Any 24 hour period. Day

Daytime 0800 hrs to 2200 hrs.

dB(A) Decibels (A weighted).

DO Dissolved Oxygen.

Documentation Any report, record, result, data, drawing, proposal, interpretation or other

document in written or electronic form which is required by this licence.

Drawing Any reference to a drawing or drawing number means a drawing or drawing

number contained in the application, unless otherwise specified in this licence.

EMP Environmental Management Programme.

Emission Limits Those limits, including concentration limits and deposition rates established in

Schedule B: Emission Limits, of this licence.

Environmental Damage

Has the meaning given it in Directive 2004 35 EC.

EPA Environmental Protection Agency.

European WasteCatalogue (EWC)

A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2000 532 EC and any subsequent amendment published in the Official Journal of the European

Community.

Facility Any site or premises used for the purposes of the recovery or disposal of waste.

Fortnightly A minimum of 24 times per year, at approximately two week intervals.

GC/MS Gas Chromatography Mass Spectroscopy.

Green waste Waste wood (excluding timber), plant matter such as grass cuttings, and other

vegetation.

Heavy Metals This term is to be interpreted as set out in "Parameters of Water Quality.

Interpretation and Standards" published by the Agency in 2001. ISBN 1-84095-

015-3.

HFO Heavy Fuel Oil.

Hours of The Operation

The hours during which the facility is authorised to be operational.

Hours of Waste Acceptance The hours during which the facility is authorised to accept waste.

ICP Inductively Coupled Plasma Spectroscopy.

Incident 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

 any exceedence of the daily duty capacity of the waste handling equipment;

 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.

Industrial Waste As defined in Section 5(1) of the Waste Management Acts 1996 to 2005.

Inert waste

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.

Initial Development Works Means such works, actions or constructions as may be specified, which for the purposes of environmental protection and safe construction and operation of the facility, have to be carried out in the initial stages of site development, and in any case prior to the commencement of construction of the landfill cells.

Installation

A stationary technical unit or plant where the activity concerned referred to in the First Schedule of EPA Acts 1992 and 2003 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.

IPPC

Integrated Pollution Prevention & Control.

K

Kelvin.

kPa

Kilo Pascals.

Landfill Directive

Council Directive 1999/31/EC.

Landfill Footprint

The area of the facility where waste is deposited.

Leq

Equivalent continuous sound level.

Licensee

Donegal County Council, County House, Lifford, County Donegal.

Liquid Waste

Any waste in liquid form and containing less than 2% dry matter.

List I

As listed in the EC Directives 76/464/EEC and 80/68 EEC and amendments.

List II

As listed in the EC Directives 76/464/EEC and 80/68/EEC and amendments.

Local Authority

Donegal County Council.

Maintain

Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to adequately perform its function.

Mass Flow Limit

An Emission Limit Value which is expressed as the maximum mass of a substance which can be emitted per unit time.

Mass Flow Threshold A mass flow rate, above which, a concentration limit applies.

Monthly

A minimum of 12 times per year, at approximately monthly intervals.

Night-time

2200 hrs to 0800 hrs.

Noise Sensitive Location (NSL) Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.

Oil Separator

Device installed according to the International Standard I.S.EN 858-2:2003 (Separator systems for light liquids, (e.g. oil and petrol) -Part 2:Selection of nominal size, installation, operation and maintenance.

PER

Pollution Emission Register.

Quarterly

All or part of a period of three consecutive months beginning on the first day of January, April, July or October.

Sanitary Authority Donegal County Council.

Sanitary Effluent

Waste water from facility toilet, washroom and canteen facilities.

Sample(s)

Unless the context of this licence indicates to the contrary, samples shall include

measurements by electronic instruments.

SOP

Standard Operating Procedure.

Standard Method

A National, European or internationally recognised procedure (eg. I.S. EN, ISO, CEN, BS or equivalent), as an in-house documented procedure based on the above references, a procedure as detailed in the current edition of "Standard Methods for the Examination of Water and Wastewater", (prepared and published jointly by A.P.H.A., A.W.W.A & W.E.F), American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA; or, an

alternative method as may be agreed by the Agency.

Storm Water

Rain water run-off from roof and non-process areas.

The Agency

Environmental Protection Agency.

TA Luft

Technical Instructions on Air Quality Control - TA Luft in accordance with art. 48 of the Federal Immission Control Law (BImSchG) dated 15 March 1974 (BGBI, I p.721). Federal Ministry for Environment, Bonn 1986, including the amendment for Classification of Organic Substances according to section 3.1.7

TA.Luft, published in July 1997.

TOC

Total Organic Carbon.

Trade Effluent

Trade Effluent has the meaning given in the water pollution Acts 1977 and 1990.

Trigger Level

A parameter value, the achievement or exceedance of which requires certain

actions to be taken by the licensee.

WEEE

Waste Electrical and Electronic Equipment

Weekly

During all weeks of plant operation, and in the case of emissions, when emissions are taking place; with at least one measurement in any one week.

WWTP

Waste Water Treatment Plant.

Decision & Reasons for the Decisions Reasons for the Decision

The Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this licence, any emissions from the activity will comply with and will not contravene any of the requirements of Section 40(4) of the Waste Management Acts 1996 to 2005.

In reaching this decision the Environmental Protection 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 Schedule of Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Acts 1996 to 2005, the Environmental Protection Agency (the Agency), under Section 40(1) of the said Acts hereby grants this Waste Licence to Donegal County Council, County House, Lifford, County Donegal to carry on the waste activities listed below at Meenaboll Landfill Site, Meenaboll, Letterkenny, County Donegal subject to conditions, with the reasons therefor and the associated schedules attached thereto set out in the licence. For the purposes of Article 48 of the Waste Management Licensing Regulations 2004 (S.I. No. 395) this facility is classed as a non-hazardous waste landfill.

Licensed Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Acts 1996 to 2005

Class 1.	Deposit on, in or under land (including landfill).
Class 4.	Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.
Class 5.	Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.
Class 6.	Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 7 to 10 of this Schedule.
Class 13.	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.

Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2005

Class 2.	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).
Class 3.	Recycling or reclamation of metals and metal compounds.
Class 4.	Recycling or reclamation of other inorganic materials.
Class 13.	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
	v

Part II Schedule of Activities Refused

None of the proposed activities as set out in the licence application have been refused.

Part III Conditions

Condition 1. Scope

- 1.1 Waste activities at this facility shall be restricted to those listed and described in Part 1 Activities Licensed and shall be as set out in the licence application or as modified under Condition 1.6 of this licence and subject to the conditions of this licence.
- 1.2 Activities at this facility shall be limited as set out in Schedule A: Limitations, of this licence.
- 1.3 The facility shall be controlled, operated, and maintained and emissions shall take place as set out in this licence. All programmes required to be carried out under the terms of this licence, become part of this licence.
- 1.4 For the purposes of this licence, the facility authorised by this licence, is the area of land outlined in red on Drawing No. 5234.50/03 *Site Plan* of the application. Any reference in this licence to "facility" shall mean the area thus outlined in red. The licensed activities shall be the carried on only within the area outlined.
- 1.5 Waste Acceptance Hours and Hours of Operation
 - 1.5.1 Landfill
 - 1.5.1.1 Waste may be accepted at the facility for disposal at the landfill only between the hours of 8:30 to 17:00 Monday to Friday inclusive and 9:00 to 13:00 on Saturdays.
 - 1.5.1.2 The landfill at the facility may be operated only during the hours of 8:00 to 18:00 Monday to Friday inclusive and 9:00 to 14:00 on Saturdays.
 - 1.5.2 Civic Waste Facility
 - 1.5.2.1 Waste shall be accepted at the Civic Waste Facility only between the hours of 8:30 to 17:00 Monday to Saturday inclusive, unless otherwise agreed by the Agency.
 - 1.5.2.2 The civic waste facility at the facility may be operated only during the hours of 8:00 to 18:00 Monday to Saturday inclusive, unless otherwise agreed by the Agency.
 - 1.5.3 Waste shall not be accepted at the facility on Sundays and Bank Holidays, other than with the written agreement of the Agency.
- No alteration to, or reconstruction in respect of, the activity or any part thereof which would, or is likely to, result in
 - (a) 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
 - (b) 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.

1.7 This licence is for the purposes of waste licensing under the Waste Management Acts 1996 to 2005 only and nothing in this licence shall be construed as negating the

licensee's statutory obligations or requirements under any other enactments or regulations.

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 or as otherwise required by the Agency.
- 2.1.2 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. In addition, the facility manager and his her deputy shall successfully complete FAS waste management training programme or equivalent agreed by the Agency.

2.2 Environmental Management System (EMS)

- 2.2.1 The licensee shall establish and maintain an Environmental Management System (EMS) prior to the commencement of the activity. The EMS shall be updated on an annual basis.
- 2.2.2 The EMS shall include as a minimum the following elements:
 - 2.2.2.1 Management and Reporting Structure.
 - 2.2.2.2 Schedule of Environmental Objectives and Targets.

The licensee shall prepare a Schedule of Environmental Objectives and Targets. The Schedule shall as a minimum provide for a review of all operations and processes, including an evaluation of practicable options, for energy and resource efficiency, the use of cleaner technology, cleaner production, and the prevention, reduction and minimisation of waste, and shall include waste reduction targets. The Schedule shall include time frames for the achievement of set targets and shall address a five year period as a minimum. The Schedule shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER).

2.2.2.3 Environmental Management Programme (EMP)

The licensee shall, six months prior to acceptance of waste at the facility, submit to the Agency for agreement an EMP, including a time schedule, for achieving the Environmental Objectives and Targets prepared under Condition 2.2.2.2. Once agreed the EMP shall be established and maintained by the licensee. It shall include:

- (a) designation of responsibility for targets:
- (b) the means by which they may be achieved;

Reason:

(c) the time within which they may be achieved.

The EMP shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER) (Condition 11.11).

A report on the programme, including the success in meeting agreed targets, shall be prepared and submitted to the Agency as part of the AER. Such reports shall be retained on-site for a period of not less than seven years and shall be available for inspection by authorised persons of the Agency.

2.2.2.4 Documentation

- (i) The licensee shall establish and maintain an environmental management documentation system which shall be to the satisfaction of the Agency.
- (ii) The licensee shall issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

2.2.2.5 Corrective Action

The licensee shall establish procedures to ensure that corrective action is taken should the specified requirements of this licence not be fulfilled. The responsibility and authority for initiating further investigation and corrective action in the event of a reported non-conformity with this licence shall be defined

2.2.2.6 Awareness and Training

The licensee shall establish and maintain procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a significant effect upon the environment. Appropriate records of training shall be maintained.

2.2.2.7 Communications Programme

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.

2.2.2.8 Maintenance Programme

Prior to commencement of waste acceptance, the licensee shall establish and maintain a structured programme for maintenance, based on technical descriptions of equipment. This programme shall be supported by appropriate record keeping systems and diagnostic testing. The licensee shall clearly allocate responsibility for the planning and execution of all aspects of this programme.

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.

Condition 3. Infrastructure and Operation

- 3.1 The licensee shall establish all infrastructure referred to in this licence, to the design set out in the Application documentation or as may be otherwise specified or varied by the conditions of this licence.
- 3.2 The landfill footprint (maximum lateral extent of landfilling) shall be as indicated in Drawing Reference 5234.50/11 Site Phasing.
- 3.3 Wastes shall not be deposited in any new cell without the prior agreement of the Agency.
- 3.4 Phased Construction Plan.
 - 3.4.1 Three months prior to the commencement of site development, the licensee shall submit to the Agency for its agreement a construction schedule, sequence and timescale (Construction Plan) incorporating the requirements of this licence and to give effect to the commitments in the application documentation. This Plan shall have regard to the following development phases: (i) Initial Development Works (ii) Main infrastructure development works (pre acceptance of waste for disposal), and (iii) Future planned works (in parallel with waste disposal, e.g. future cell development phasing). The Construction Plan for cell development shall have regard to the sequencing necessary to provide short, medium and long term visual and acoustic screening of the operational areas.
 - 3.4.2 Unless otherwise agreed by the Agency, and so as to permit the necessary time for establishment and maturation of landscaping measures for impact mitigation, the operation of the facility shall commence with Phase 1 (as indicated in Drawing Reference 5234.50/11 Phasing Details).

3.5 Specified Engineering Works

- 3.5.1 The licensee shall submit proposals for any Specified Engineering Works, as defined in *Schedule D: 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. Agency agreement of any such works is without prejudice to development authorisation and control requirements under the Planning & Development Acts.
- 3.5.2 All specified engineering works shall be supervised by an appropriately qualified person, and that person, or persons, shall be present at all times during which relevant works are being undertaken.
- 3.5.3 Following the completion of any 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, as appropriate, 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 contractor(s)/individual(s) responsible for undertaking the specified engineering 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.

3.6 Landfill Lining

- 3.6.1 Unless otherwise agreed in writing, the landfill lining system shall comprise:-
 - (i) A composite liner consisting of a 0.5m layer of Bentonite Enhanced Soil (BES) with a hydraulic conductivity of less than or equal to 1x10⁻¹⁰m³/m²/s, overlain by a 2mm thick high density polyethylene (HDPE) layer;
 - (ii) A geotextile protection layer placed over the HDPE layer;
 - (iii) A 500mm thick drainage layer placed over the geotextile layer with a minimum hydraulic conductivity of 1 x 10⁻³ m³/m²/s, of prewashed, uncrushed, granular, rounded stone (16-32mm grain size) incorporating leachate collection drains:
 - (iv) The lining system on the base of the facility shall be laid to a minimum slope of 1:50; and
 - (v) The side walls shall be designed and constructed to achieve an equivalent protection.
- 3.6.2 The formation levels of the landfill shall be as shown on Drawing Reference 5234.50/12 *Formation Levels and Basel Gradient*, unless otherwise agreed by the Agency.

3.7 Facility Notice Board

- 3.7.1 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
- 3.7.2 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.

3.8 Facility Security

- 3.8.1 Security and stockproof fencing and gates shall be installed and maintained at the facility prior to the commencement of the activity. The base of the fencing shall be set in the ground. Subject to the implementation of the restoration and aftercare plan and to the agreement of the Agency, the requirement for such site security may be removed.
- 3.8.2 Gates shall be locked shut when the facility is unsupervised.
- 3.8.3 The licensee shall remedy any defect in the gates and/or fencing as follows:-
 - (i) A temporary repair shall be made by the end of the working day:
 - (ii) A repair to the standard of the original gates and/or fencing shall be undertaken within three working days.

3.9 Facility Roads and Hardstanding

- 3.9.1 Effective site roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.
- 3.9.2 The facility entrance and hardstanding areas, shall be appropriately paved and maintained in a fit and clean condition.

3.10 Facility Office

- 3.10.1 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.
- 3.10.2 The licensee shall provide and maintain a working telephone and a method for electronic transfer of information at the facility.

3.11 Waste Inspection and Quarantine Areas

- 3.11.1 Prior to the commencement of waste acceptance, a Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained at the facility.
- 3.11.2 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.
- 3.11.3 Drainage from these areas shall be directed to the leachate management system.

3.12 Weighbridge and Wheel Cleaner

- 3.12.1 The licensee shall provide and maintain a weighbridge and wheel cleaners at the facility prior to the commencement of waste acceptance.
- 3.12.2 The wheel cleaners shall be used by all vehicles leaving the facility as required to ensure that no process water or waste is carried off-site. All water from the wheel cleaning area shall be directed to the leachate management system.

3.13 Tank and Drum Storage Areas

- 3.13.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein.
- 3.13.2 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:-
 - (i) 110% of the capacity of the largest tank or drum within the bunded
 - (ii) 25% of the total volume of substance which could be stored within the bunded area
- 3.13.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
- 3.13.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.

3.13.5 The integrity and water tightness of all the bunding structures and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee at least once every three years. This testing shall be carried out in accordance with any guidance published by the Agency.

3.14 Wastewater Treatment System

3.14.1 The licensee shall provide and maintain a Wastewater Treatment system at the facility for the treatment of sanitary effluent arising on-site prior to discharge to the leachate management system. The drainage network for sanitary effluent shall be as shown on Drawing Reference 5234.50/26 Drainage Network of the Article 14 reply received on 31/8/05, unless otherwise agreed by the Agency.

3.15 Silt Traps and Oil Separators

The licensee shall install and maintain silt traps and oil separator at the facility to ensure that all storm water discharges from the facility pass through a silt trap and oil separator prior to discharge. The separator shall be a Class I full retention separator and the silt traps and separator shall be in accordance with I.S. EN 585-2:2003 (separator systems for light liquids).

3.16 Civic Waste Facility

- 3.16.1 The licensee shall establish and maintain the Civic Waste Facility infrastructure referred to in Attachment D.1.p Civic Amenity Facilities.
- 3.16.2 The licensee shall provide and maintain appropriate receptacles at the Civic Waste Facility for the storage of various waste types.
- 3.16.3 The drainage network at the Civic Waste Facility shall be as shown on Drawing Reference 5234.50/26 Drainage Network of the Article 14 reply received on 31/8/05, unless otherwise agreed by the Agency.

3.17 Buffer Zone

A Buffer Zone, in which no waste shall be landfilled, shall be provided and maintained within the facility. The Buffer Zone shall be located as shown on Drawing Reference Figure 5.4 *Tree Buffer Zone* of the Article 16 reply received on 31/8/05.

3.18 Leachate Management Infrastructure

- 3.18.1 Leachate management infrastructure shall be provided and maintained at the facility as described in the Attachment D.4 Leachate Management and shown on Drawing Reference 5234.50/08 Leachate Management System, or as may be varied by a licence condition.
- 3.18.2 All structures for the storage and/or treatment of leachate shall be fully enclosed except for inlet and outlet piping.

3.19 Landfill Gas Management

- 3.19.1 Landfill Gas management infrastructure shall be provided and maintained at the facility as described in Attachment D.5 Landfill Gas Management and shown on Drawing Reference 5234.50/09 Landfill Gas Management System, or as may be varied by a licence condition.
- 3.19.2 Unless otherwise agreed by the Agency, a system for the active collection and flaring of landfill gas shall be installed at the facility within twelve months of the final capping being installed at Phase 1. The flare shall be of

- an enclosed type design and shall comply with the emission limits in *Schedule B: Emission Limits*, of this licence.
- 3.19.3 All buildings constructed on the facility shall have regard to the guidance given in the Department of Environment 1994 publication "Protection of New Buildings and Occupants from Landfill Gas" and any subsequent revisions.

3.20 Surface Water Management

- 3.20.1 The stormwater drainage networks including surface water settlement lagoons and constructed wetlands as shown on Drawing References Figure 6.2A Surface Water and Groundwater Management and 5234.50/26 Drainage Network of the Article 14 reply received on 31/08/05 shall be provided and maintained at the facility prior to commencement of any other construction works, unless otherwise agreed by the Agency.
- 3.20.2 The licensee shall ensure that the final design of the constructed wetlands & surface water settlement lagoons includes the necessary flow control, sizing and retention options to achieve the specified emission standards. This detail including supporting calculations is to be included together with detailed specifications of the lining system to be employed in the Specified Engineering Works proposal for the surface water management system.

3.21 Groundwater

- 3.21.1 Groundwater extracted from the groundwater drainage layer of the landfill cells shall be discharged to the surface water settlement lagoons prior to discharge to the constructed wetlands as shown on Figure 6.2A Surface Water and Groundwater Management of the Article 14 reply received on 31/08/05.
- 3.21.2 All wells & boreholes shall be adequately sealed to prevent surface contamination and, as may be appropriate, decommissioned according to the UK Environment Agency guidelines 'Decommissioning Redundant Boreholes and Wells' (or as otherwise may be agreed by the Agency).
- 3.21.3 Groundwater monitoring wells shall be constructed having regard to the guidance given in the Agency's landfill manual "Landfill Monitoring".
- 3.22 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.
- 3.23 Sampling equipment shall be operated and maintained such that sufficient sample is collected to meet both internal monitoring requirements and those of the Agency. A separate composite sample or homogeneous sub-sample (of sufficient volume as advised) should be refrigerated immediately after collection and retained as required for EPA use.
- 3.24 The licensee shall clearly label and provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 3.25 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.

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

Condition 4. Interpretation

- 4.1 The concentration limits for emissions to atmosphere specified in this licence shall be achieved without the introduction of dilution air and shall be based on gas volumes under standard conditions of:-
 - 4.1.1 In the case of landfill gas flare:

Temperature 273 K, pressure 101.3 kPa, dry gas at 3% oxygen; and

4.1.2 In the case of landfill gas combustion plant:

Temperature 273 K, pressure 101.3 kPa, dry gas; 5% oxygen.

- 4.2 Emission limit values for emissions from landfill gas flare/combustion plant to atmosphere in this licence shall be interpreted in the following way:
 - 4.2.1 Continuous Monitoring:
 - (i) No 24 hour mean value shall exceed the emission limit value.
 - (ii) 97% of all 30 minute mean values taken continuously over an annual period shall not exceed 1.2 times the emission limit value.
 - (iii) No 30 minute mean value shall exceed twice the emission limit
 - 4.2.2 For Non-Continuous Monitoring
 - (i) For any parameter where, due to sampling/analytical limitations, a 30 minute sample is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value.
 - (ii) For flow, no hourly or daily mean value, calculated on the basis of appropriate spot readings, shall exceed the relevant limit value.
 - (iii) For all other parameters, no 30 minute mean value shall exceed the emission limit value.
- 4.3 Emission limit values for emissions to waters in this licence shall be interpreted in the following way:-
 - 4.3.1 Continuous monitoring:
 - (i) No flow value shall exceed the specified limit.
 - (ii) No pH value shall deviate from the specified range.
 - (iii) No temperature value shall exceed the limit value.
 - 4.3.2 Composite Sampling:
 - No pH value shall deviate from the specified range.
 - (ii) For parameters other than pH and flow, eight out of ten consecutive composite results, based on flow proportional composite sampling, shall not exceed the emission limit value. No individual result similarly calculated shall exceed 1.2 times the emission limit value.
 - 4.3.3 Discrete Sampling

For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.

4.4 Where the ability to measure a parameter is affected by mixing before emission, then, with agreement from the Agency, the parameter may be assessed before mixing takes place.

- 4.5 Noise from the facility shall not give rise to sound pressure levels (Leq,T) measured at noise sensitive locations which exceed the limit value(s).
- 4.6 Dust and particulate matter from the activity shall not give rise to deposition levels which exceed the limit value(s).

Reason: To clarify the interpretation of limit values fixed under the licence.

Condition 5. Emissions

- 5.1 No specified emission from the facility shall exceed the emission limit values set out in *Schedule B: 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 including odours do not result in significant impairment of, and/or significant interference with amenities or the environment beyond the facility boundary.
- 5.3 Emissions to Surface Water
 - 5.3.1 No leachate, sanitary effluent or polluted storm water run-off shall be discharged to surface water drains and surface water courses.
 - 5.3.2 No substance shall be discharged in a manner, or at a concentration which, following initial dilution causes tainting of fish or shellfish.
 - 5.3.3 Prior to the commencement of construction works, the applicant shall submit to the Agency for its agreement, proposals for continuous monitoring of water in the surface water settlement lagoons in accordance with Condition 6.1. These proposals shall include the criteria/trigger levels, which will determine when the outlet from the surface water settlement lagoon(s) shall be closed. Such continuous monitoring shall, as a minimum, include conductivity and shall be carried out on the inlet to the surface water settlement lagoon(s).
- 5.4 There shall be no direct emissions to groundwater.
- 5.5 Prior to the acceptance of waste for disposal, the licensee shall submit to the Agency for approval, evidence to demonstrate that an agreement is in place regarding leachate removal (from the site) and treatment.
- 5.6 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.
- 5.7 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.

Reason: To provide for the protection of the environment by way of control and limitation of emissions.

Condition 6. Control and Monitoring

6.1 Telemetry

- 6.1.1 Prior to the commencement of waste disposal activities, a telemetry system shall be installed and maintained. All facility operations linked to the telemetry system shall also have a manual control which will be reverted to in the event of break in power supply or during maintenance.
- 6.1.2 This system shall include for:-
 - (i) Recording of leachate levels in the lined cells and leachate lagoon:
 - (ii) Recording of levels in the surface water settlement lagoon(s) and flows to the constructed wetlands and Shruhanpollandoo stream;
 - Quality of the surface water at the inlet to the surface water settlement lagoons and at the outlet of the constructed wetlands;
 - (iv) Quality of the groundwater prior to discharge to the surface water settlement lagoon(s); and
 - (v) Permanent gas monitoring system to be installed in the site office and any other enclosed structures at the facility.

6.2 Leachate Management

- 6.2.1 Prior to the commencement of waste disposal activities, the licensee shall submit for agreement a specification for the construction, location and installation phasing of leachate monitoring locations.
- 6.2.2 Leachate levels in the waste shall not exceed a level of 1.0m over the top of the liner at the base of the landfill.
- 6.2.3 The level of leachate in the pump sumps shall be monitored as outlined in *Schedule C2.3*, of this licence.
- 6.2.4 The frequency of leachate removal from the leachate holding tank(s) shall be such that a minimum freeboard of 0.7m shall be maintained and clearly indicated in the tank(s) at all times. High level liquid alarms shall be installed on the tank (s) to prevent overflow.
- 6.2.5 Unless treated on the facility, leachate stored in the leachate holding tank(s) shall be disposed of by tankering off-site in fully enclosed road tankers.
- 6.2.6 Recirculation of leachate or other contaminated water shall only be undertaken within cells which have been lined to the satisfaction of the Agency.
- 6.3 The licensee shall monitor meteorological conditions as specified in *Schedule C.6.* of this licence.

6.4 Landfill Gas

- 6.4.1 Prior to the commencement of waste disposal activities the licensee shall submit for agreement a specification for the construction, location and installation phasing of landfill gas monitoring locations.
- 6.4.2 At least two rounds of landfill gas sampling (one during falling atmospheric pressure) in locations external to the disposal cells should be completed prior to commencement of filling of any new area.
- 6.4.3 Flares shall be operated to ensure a burn chamber residence time of minimum 0.3 sec and burn temperature of minimum 1000°C.

- 6.4.4 In relation to landfill derived gases the following shall constitute a trigger level:
 - (i) Methane greater than 1% v/v; or,
 - (ii) Carbon Dioxide greater than 1.5% v.v.

measured in any monitoring borehole, service duct, manhole or other point as may be specified, located external to the body of waste.

6.5 Groundwater

- 6.5.1 Prior to the commencement of waste disposal activities the licensee shall submit for agreement a specification for the construction, location and installation phasing of groundwater monitoring boreholes.
- 6.5.2 Within three months of the date of grant of this licence, the licensee shall submit to the Agency for its agreement, groundwater monitoring trigger levels in accordance with the requirements of Directive 1999/31 EC.

6.6 Litter Control

- 6.6.1 The measures and infrastructure as described in Section 7.21 of the EIS submitted with the Application shall be applied to control litter at the facility.
- 6.6.2 All litter control infrastructure shall be inspected on a daily basis. The licensee shall remedy any defect in the litter netting as follows:-
 - A temporary repair shall be made by the end of the working day;
 and
 - (ii) A repair to the standard of the original netting shall be undertaken within three working days.
- 6.6.3 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 10.00am of the next working day after such waste is discovered.
- 6.6.4 The licensee shall ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.

6.7 Odour Control

- 6.7.1 Leachate tanks shall be covered, and head gases vented to treatment as may be required by the Agency.
- 6.7.2 All odorous or odour forming wastes shall be covered as soon as practicable and in any case at the end of the working day.
- 6.7.3 When siting and operating landfill gas infrastructure regard shall be had to the potential for, and mitigation of, odour nuisance. This matter is to be addressed in the relevant Specified Engineering Works proposals as required by Condition 3.5.
- 6.8 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.
- 6.9 Prior to exiting the facility, all waste vehicles shall use the wheelwash.

6.10 Bird Control

Birds shall be prevented from gathering on and feeding at the facility by the use of birds of prey and or other bird scaring techniques. The birds of prey or other techniques as may be approved by the Agency shall be in place at least two weeks prior to any waste being disposed of and shall maintain their presence every day, from before dawn to after dark, until the waste activities cease and all the waste is capped to the written satisfaction of the Agency.

6.11 Operational Controls

- 6.11.1 Only one working face shall exist at the landfill at any one time for the deposit of waste other than cover or restoration materials.
- 6.11.2 The working face of the landfill shall be no more than 2.5 metres in height after compaction, no more than 25 metres wide and have a slope no greater than 1 in 3.
- 6.11.3 All waste deposited at the working face shall be compacted, using a steel wheeled compactor, and covered as soon as is practicable and at any rate prior to the end of the working day.
- 6.11.4 The working face, or faces, shall each day at the end of the day, be covered with suitable material.
- 6.11.5 All large hollow objects and other large articles deposited at the facility shall be crushed, broken up, flattened or otherwise treated.
- 6.11.6 Wastes once deposited and covered shall not be excavated, disturbed or otherwise picked over with the exception of works associated with the construction and installation of necessary infrastructure or otherwise only with the prior agreement from the Agency.
- 6.11.7 Any cover material at any location within the facility which is eroded, washed off or otherwise removed shall be replaced by the end of the working day.
- 6.11.8 The maintenance of the diesel generator shall be included in the programme under Condition 2.2.2.8.
- 6.11.9 Scavenging shall not be permitted at the facility.
- 6.11.10 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 6.11.11 No smoking shall be allowed at the facility.
- 6.12 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and as in accordance with *Schedule C: Control & Monitoring*, of this licence:
 - 6.12.1 Analysis shall be undertaken by competent staff in accordance with documented operating procedures.
 - 6.12.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics determined.
 - 6.12.3 Such procedures shall be subject to a programme of Analytical Quality Control using control standards with evaluation of test responses.

- 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. Agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.
- 6.14 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the emission or discharge.
- 6.15 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer.
- 6.16 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the agreement of the Agency following evaluation of test results.
- 6.17 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. 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.
- 6.18 Storm water
 - 6.18.1 A visual examination of the storm water discharge shall be carried out daily. A log of such inspections shall be maintained.
 - 6.18.2 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.
- 6.19 The licensee shall carry out a noise survey of the site operations annually. The survey programme shall be undertaken in accordance with the methodology specified in the 'Environmental Noise Survey Guidance Document' as published by the Agency.
- 6.20 The licensee shall carry out a stability assessment of the side slopes of the facility annually. The results of this assessment shall be reported as part of the AER.
- 6.21 Pollution Emission Register (PER)

The licensee shall prepare and maintain a PER for the site. The substances to be included in the PER shall be agreed by the Agency each year by reference to the list specified in the Agency's AER Guidance Note. The PER shall be prepared in accordance with any relevant guidelines issued by the Agency and shall be submitted as part of the AER.

6.22 The licensee shall, within six months of the date of grant of this licence, develop and establish a Data Management System for collation, archiving, assessing and graphically presenting the environmental monitoring data generated as a result of this licence.

Reason: To provide for the protection of the environment by way of treatment and monitoring of emissions.

Condition 7. Resource Use and Energy Efficiency

- 7.1 The licensee shall carry out an audit of the energy efficiency of the site within one year of the date of commencement of waste acceptance at the facility. 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.
- 7.2 The audit shall identify all opportunities for energy use reduction and efficiency and the recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2 above.
- 7.3 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 Schedule of Environmental Objectives and Targets.
- 7.4 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 Schedule of Environmental Objectives and Targets.

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

Condition 8. Materials Handling

- 8.1 Waste Acceptance and Characterisation Procedures
 - 8.1.1 Only pre-treated wastes are acceptable for disposal as set out in Article 6 (a) of the Landfill Directive.
 - 8.1.2 Waste shall only be accepted at the facility, from Local Authority waste collection or transport vehicles or holders of waste permits, unless exempted or excluded, issued under the Waste Management (Collection Permit) Regulations 2001.
 - 8.1.3 Whole used tyres (other than bicycle tyres and tyres with an outside diameter greater than 1400mm) shall not be disposed of at the facility. Shredded tyres shall not be disposed of at the facility from 16 July 2006.
 - 8.1.4 No hazardous wastes or liquid wastes shall be disposed of at the facility.
 - 8.1.5 Prior to commencement of waste acceptance at the facility, the licensee shall submit to the Agency for its agreement written procedures for the acceptance and handling of all wastes. These procedures shall include details of the pre-treatment of all waste to be carried out prior to acceptance at the facility and shall also include methods for the characterisation of waste in order to distinguish between inert, non-hazardous and hazardous wastes. The procedures shall have regard to the EU Decision (2003/33/EC) on establishing the criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 and Annex II of Directive (1999/31/EC) on the landfill of waste.
 - 8.1.6 Bulk gypsum wastes shall not be placed in any landfill cell accepting biodegradable waste.

- 8.2 Civic Waste Facility
 - 8.2.1 All waste deposited in the Civic Waste Facility shall be either:
 - a) into a skip
 - b) into a receptacle for recovery; or
 - in the case where inspection is required, into a designated inspection area.
 - 8.2.2 The licensee shall assign and clearly label each container/bay at the Civic Waste Facility to indicate their contents.
 - 8.2.3 At the end of the working day the area in the immediate vicinity of waste containers bays at the Civic Waste Facility shall be cleared of waste.
- 8.3 Inert Waste

Inert waste accepted at the facility shall comply with the standards established in the EU Decision (2003/22 EC).

- 8.4 Disposal or recovery of waste shall only take place in accordance with the conditions of this licence and in accordance with the appropriate National and European legislation and protocols.
- 8.5 Waste sent off-site for recovery or disposal shall be transported only by an authorised waste contractor. The waste shall be transported only from the site of the activity to the site of recovery/disposal in a manner which will not adversely affect the environment and in accordance with the appropriate National and European legislation and protocols.
- 8.6 The licensec shall ensure that waste prior to transfer to another person shall be classified packaged and labelled in accordance with National, European and any other standards which are in force in relation to such labelling.
- 8.7 Waste shall be stored in designated areas, protected as may be appropriate, against spillage and leachate run-off. The waste is to be clearly labelled and appropriately segregated.
- 8.8 No waste classified as green list waste in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No.259/1993, as amended) shall be consigned for recovery without the agreement of the Agency.
- 8.9 Unless approved in writing by the Agency the licensee is prohibited from mixing a hazardous waste of one category with a hazardous waste of another category or with any other non-hazardous waste.

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

Condition 9. Accident Prevention and Emergency Response

9.1 The licensee shall, prior to the commencement of the activity, ensure that a documented Accident Prevention Policy is in place which will address 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.

- 9.2 The licensee shall, prior to the date of commencement of the activity, ensure that a documented Emergency Response Procedure is in place, which shall address any emergency situation which may originate on-site. This Procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary.
- 9.3 In the event of an incident the licensee shall immediately:-
 - (i) isolate the source of any such emission;
 - (ii) carry out an immediate investigation to identify the nature, source and cause of the incident and any emission arising therefrom;
 - (iii) evaluate the environmental pollution, if any, caused by the incident;
 - (iv) identify and execute measures to minimise the emissions/malfunction and the effects thereof;
 - (v) identify the date, time and place of the incident;
 - (vi) provide a proposal to the Agency for its agreement within one month of the incident occurring or as otherwise agreed by the Agency to:-
 - identify and put in place measures to avoid reoccurrence of the incident;
 and
 - identify and put in place any other appropriate remedial action.

Reason: To provide for the protection of the environment.

Condition 10. Closure, Restoration and Aftercare

- 10.1 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, subsoils, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution.
- 10.2 The licensee shall restore the facility on a phased basis. Unless otherwise agreed, filled cells shall be permanently capped within twenty four months of the cells having been filled to the required level.
- 10.3 Landscaping
 - 10.3.1 Unless otherwise agreed by the Agency, the finished (post settlement restored) levels of the landfill shall be as indicated in Drawing Reference Figure 8.3 Final Restoration Contours of the EIS submitted with the Application.
 - 10.3.2 Completed areas of the landfill shall be profiled so that no depressions exist in which water may accumulate. Any depressions arising after profiling shall be rectified by the emplacement of suitable capping or restoration materials.
- 10.4 Final Capping

Unless otherwise agreed by the Agency, the final capping shall consist of the following:-.

(i) Top soil (150 -300mm);

- (ii) Subsoils, such that total thickness of top soil and subsoils is at least 1m:
- (iii) Drainage layer of 0.5m thickness having a minimum hydraulic conductivity of 1x10-4 m/s or a geosynthetic material that provides equivalent transmissivity;
- (iv) Compacted mineral layer of a minimum 0.6m thickness with a permeability of less than 1x10-9 m/s or a geosynthetic material (e.g. GCL) or similar that provides equivalent protection; and
- (v) Gas collection layer of natural material (minimum 0.3m) or a geosynthetic layer.
- 10.5 No material or object that is incompatible with the proposed restoration of the facility shall be present within one metre of the final soil surface levels.
- 10.6 Soil Storage
 - 10.6.1 All soils shall be stored to preserve the soil structure for future use.
 - 10.6.2 Excavated peat from the landfill works shall be deposited in stockpiles no higher than 3m with graded banks to be vegetated immediately by hydroseeding or other agreed method. Stockpiles within the landfill footprint should not be emplaced on previously filled cells. The location of any stockpiles should take account of sensitive receptors and be situated away from surface water drains and surface water courses.
- 10.7 Closure, Restoration & Aftercare Management Plan (CRAMP):
 - 10.7.1 Prior to the acceptance for waste for disposal at the site, the licensee shall prepare for agreement by the Agency, a fully detailed and costed plan for the closure, restoration and long-term aftercare of the site or part thereof. This plan shall have regard to the commitments given in Attachment K Restoration and Aftercare.
 - 10.7.2 The plan shall be maintained and reviewed annually and proposed amendments thereto notified to the Agency for agreement as part of the AER. No amendments may be implemented without the prior agreement of the Agency.
- 10.8 The CRAMP shall include as a minimum, the following:-
 - (i) A scope statement for the plan.
 - (ii) The criteria, including those specified in this licence, which define the successful closure & restoration of the facility or part thereof, and which ensures minimum impact to the environment.
 - (iii) A programme to achieve the stated criteria.
 - (iv) Where relevant, a test programme to demonstrate the successful implementation of the plan.
 - (v) Details of the long-term supervision, monitoring, control, maintenance and reporting requirements for the restored facility.
 - (vi) Details of costings for the plan and a statement as to how these costs will be underwritten.
- 10.9 A final validation report to include a certificate of completion for the CRAMP, 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

Condition 11. Notifications, Records and Reports

- 11.1 The licensee shall notify the Agency, in writing, one month prior to the intended date of commencement of acceptance of waste for Scheduled Disposal/Recovery activities at the facility (wastes used in the facility construction excepted).
- 11.2 The licensee shall notify the Agency by both telephone and either facsimile or electronic mail, if available, to the Agency's Regional Inspectorate in Castlebar, 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:
 - 11.2.1 Any release of environmental significance to atmosphere from any potential emission point including bypasses.
 - 11.2.2 Any emission which does not comply with the requirements of this licence.
 - 11.2.3 Any malfunction or breakdown of key control equipment or monitoring equipment set out in Schedule C: Control & Monitoring. of this licence which is likely to lead to loss of control of the abatement system.
 - 11.2.4 Any incident with the potential for environmental contamination of surface water or groundwater, or posing an environmental 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.

- 11.3 In relation to landfilling activities, the licensee shall notify the Agency of any wastes presented at but not accepted to the facility.
- 11.4 In the case of any incident which relates to discharges to water, the licensee shall notify the Local Authority and the Loughs Agency as soon as practicable after such an incident.
- 11.5 The licensee shall make a record of any incident. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident. The record shall include all corrective actions taken to; manage the incident, minimise wastes generated and the effect on the environment, and avoid recurrence. The licensee shall as soon as practicable following incident notification, submit to the Agency the incident record.
- 11.6 Prior to the development of any undisturbed area, the advice of the Heritage Section of the Department of the Environment, Heritage and Local Government shall be sought.
- 11.7 The licensee shall record all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the date and time of the complaint, the name of the complainant and give details of the nature of the complaint. A record shall also be kept of the response made in the case of each complaint.
- 11.8 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the facility.

11.9 Vermin and Flies

- 11.9.1 Prior to the commencement of waste acceptance, the licensee shall submit to the Agency for its agreement a proposal for the control and eradication of vermin and fly infestations at the facility. This proposal should include as a minimum, operator training, details on the rodenticide(s) and insecticide(s) to be used, mode and frequency of application and measures to contain sprays within the facility boundary.
- 11.9.2 A 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.
- 11.10 The licensee shall as a minimum keep the following documents at the site:-
 - (i) the licences relating to the facility;
 - (ii) the current EMS for the facility:
 - (iii) the previous year's AER for the facility:
 - (iv) records of all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the facility;
 - (v) relevant correspondence with the Agency; and
 - (vi) an up to date site drawings plans showing the location of key process and environmental infrastructure, including monitoring locations and emission points

and this documentation shall be available to the Agency for inspection at all reasonable times.

- 11.11 The licensee shall submit to the Agency, by the 31st March of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in *Schedule F: Annual Environmental Report*, of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 11.12 A full record, which shall be open to inspection by authorised persons of the Agency at all times, shall be kept by the licensee on matters relating to the waste management operations and practices at this site. This record shall be maintained on a monthly basis and shall as a minimum contain details of the following:
 - The tonnages and EWC Code for the waste materials imported and/or sent off-site for disposal/recovery.
 - (ii) The names of the agent and carrier of the waste, and their waste collection permit details, if required (to include issuing authority and vehicle registration number).

- (iii) Details of the ultimate disposal recovery destination facility for the waste and its appropriateness to accept the consigned waste stream, to include its permit/licence details and issuing authority, if required.
- (iv) Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.
- (v) Details of all wastes consigned abroad for Recovery and classified as 'Green' in accordance with the EU Transfrontier Shipment of Waste Regulations (Council Regulation EEC No. 259/1993, as amended). The rationale for the classification must form part of the record.
- (vi) Details of any rejected consignments.
- (vii) Details of any approved waste mixing.
- (viii) The tonnages and EWC Code for the waste materials recovered/disposed on-site.

11.13 Waste Recovery Reports

The licensee shall as part of their EMP prepare a report examining waste recovery options which shall be submitted to the Agency for its agreement in the AER. 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:-

- (i) 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:
- (ii) the separation of recyclable materials from the waste;
- (iii) the recovery of Construction and Demolition Waste:
- (iv) the recovery of metal waste; and
- (v) inert waste to be used for cover/restoration material at the facility.

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

Condition 12. Financial Charges and Provisions

12.1 Agency Charges

2.1.1 The licensee shall pay to the Agency an annual contribution of €23,188, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Waste Management Acts 1996 to 2005. The first payment shall be a pro-rata amount for the period from date of commencement of enforcement to the 31st day of December, and shall be paid to the Agency within one month from the date of the licence. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Waste Management Acts 1996 to 2005, and all such payments shall be made within one month of the date upon which demanded by the Agency.

12.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased the licensee shall contribute such sums as determined by the Agency to defraying its costs in regard to items not covered by the said annual contribution.

12.2 Environmental Liabilities

- 12.2.1 The licensee shall as part of the AER provide an annual statement as to the measures taken or adopted at the site in relation to the prevention of environmental damage, and the financial provisions in place in relation to the underwriting of costs for remedial actions following anticipated events (including closure) or accidents/incidents, as may be associated with the carrying on of the activity.
- 12.2.2 The licensee shall arrange for the completion, by an independent and appropriately qualified consultant, of a comprehensive and fully costed Environmental Liabilities Risk Assessment (ELRA), which addresses the liabilities from past and present activities. The assessment shall include those liabilities and costs identified in Condition 10 for execution of the CRAMP. A report on this assessment shall be submitted to the Agency for agreement prior to the commencement of the activity. The ELRA shall be reviewed as necessary to reflect any significant change on site, and in any case every three years following initial agreement: review results are to be notified as part of the AER.
- 12.2.3 As part of the measures identified in Condition 12.2.1, the licensee shall, to the satisfaction of the Agency, make financial provision to cover any liabilities identified in Condition 12.2.2. The amount of indemnity held shall be reviewed and revised as necessary, but at least annually. Proof of renewal or revision of such financial indemnity shall be included in the annual 'statement of measures' report identified in Condition 12.2.1.
- 12.2.4 Unless otherwise agreed, any revision to that part of the indemnity dealing with restoration and aftercare liabilities (refer Condition 10.7.1), shall be computed using the following formula:-

Cost = (ECOST x WPI) + 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

12.3 Cost of landfill of waste

In accordance with the provisions of Section 53A of the Waste Management Acts 1996 to 2005, the licensee shall ensure the costs in the setting up, operation of, provision of financial security and closure and after-care for a period of at least 30 years shall be covered by the price to be charged for the disposal of waste at the facility. The statement required under Section 53A(5) of said Acts is to be included as part of the AER.

Reason: To provide for adequate financing for monitoring and financial provisions for measures to protect the environment.

SCHEDULE A: Limitations

A.I

The following waste related processes are authorised:

- i. Landfilling of pre-treated non-hazardous waste
- ii. Use of compost & inert waste in construction and landfill operation
- iii. Use of landfill gas as a fuel
- iv. Storage and treatment of leachate
- v. Storage of waste
- vi. Receipt, storage, sorting, sizing, packaging and transfer of waste for recovery or disposal.

No addition to these processes is permitted unless agreed in advance by the Agency.



A.2 Waste Acceptance

Table A.2 Waste Categories and Quantities

WASTE TYPE Note 1	MAXIMUM (TONNES PER ANNUM) Notes 2 & 3
Household waste ^{Note 4}	17,000
Household waste ^{Note 5}	1.500
Commercial waste	4,000
Construction and Demolition waste	500
Industrial Non-Hazardous Solids	2.500
TOTAL	25,500

- Note 1: Any proposals to accept other compatible waste streams must be agreed in advance by the Agency and the total amount of waste must be within that specified.
- Note 2: The individual limitation on waste streams may be varied with the agreement of the Agency subject to the overall total limits for the landfill and the civic waste facility staying the same.
- Note 3: C & D or Inert waste secondary materials or compost imported to the site for use in the construction are not included in these limitations. A detailed statement (with mass balance) of waste used in construction should be included as part of the AFR.
- Note 4: Household waste for disposal.
- Note 5: Household waste for recovery at the Civic Waste Facility. Household hazardous waste types to be accepted at the Civic Waste Facility as listed in Table 11.1.2 Hazardous Waste Types and Quantities of the Article 14 reply received on 31.08.05 unless otherwise agreed by the Agency.



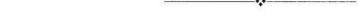
SCHEDULE B: Emission Limits

B.1 Emissions to Air

Landfill Derived Gas Concentration Limits:

Measured in any building on or adjacent to the facility and perimeter boreholes.

Methane	Carbon Dioxide
20 % LEL (1% v/v)	1.5 % v/v



Emission Limits Values for Landfill Gas Plant:

Emission Point Reference numbers: (To be agreed by Agency in advance.)

Minimum discharge height: 5m

Parameter	Flare (enclosed) Emission Limit Value Note 1	Utilisation Plant Emission Limit Value Note	
Nitrogen oxides (NO _s)	150 mg/m ³	500 mg/m ³	
Particulates	Not applicable	130 mg m ³	

Note 1: Dry gas referenced to 5% oxygen by volume for utilisation plants and 3% oxygen by volume for flares.

Dust Deposition Limits:

Measured at the monitoring points DG1, DG2 and DG3 indicated on Drawing Reference 5234.50 14 Environmental Monitoring Points (or as may be amended under Condition 6.16).

Level (mg/m²/day) ^{Note 1}	
350	

Note 1: 30 day composite sample with the results expressed as mg/m²/day.

B.2 Emissions to Water

Emission Point Reference No.:

Outlet from constructed wetlands (SW2)

Name of Receiving Waters:

Sruhanpollandoo Stream

Parameter	Emission Limit Value (mg/l)		
Suspended Solids	25		
Non-ionised Ammonia (as NH3)	0.04		
Chloride	100		
Sulphate (SO ₄)	30		
DO	50% ≥ 8		



B.3 Emission to Sewer

There are no Effluent Emissions to Sewer.

B.4. Noise Emissions

Measured at any noise sensitive locations

Daytime dB(A) LAeq(30 minutes)	Night-time dB(A) L _{Aeq} (30 minutes)
55 ^{Note 1}	45 Note I

Note 1: There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise sensitive location.

SCHEDULE C: Control & Monitoring

C.1.1 Control of Emissions to Air

Emission Point Reference No.:

Flare Stack & Generation Plant

Description of Treatment:

Gas Extraction & Combustion

Control Parameter	Monitoring	Key Equipment ^{Note 1}
Continuous burn	Continuous with alarm/call-out	Flame detector or equivalent approved Pumps engines
Extraction	Continuous with alarm/call-out	Pressure gauge or equivalent approved Pumps engines

Note 1: The licensee shall maintain appropriate access to standby and or spares to ensure the operation of the abatement system.

C.1.2 Monitoring of Emissions to Air

Emission Point Reference No.:

Flare Stack & Generation Plant

Parameter	Flare (enclosed) Monitoring Frequency	Utilisation Plant Monitoring Frequency	Analysis Method ^{Note1} /Technique
Inlet			
Methane (CH ₄) % v/v	Continuous	Weekly	Infrared analyser or equivalent approved
Carbon dioxide (CO ₂) % v/v	Continuous	Weekly	Infrared analyser or equivalent approved
Oxygen (O2) % V/V	Continuous	Weekly	Electrochemical or equivalent approved
Process Parameters			
Combustion Temperature	Continuous	Quarterly	Temperature Probe datalogger
Residence Time	Quarterly	Quarterly	To be agreed
Outlet	AND HE SHEET		
Carbon monoxide (CO)	Continuous	Continuous	Flue gas analyser datalogger or equivalent approved
Nitrogen Oxides (Nox)	Biannually	Biannually	Flue gas analyser or equivalent approved
Sulphur dioxide (SO ₂)	Biannually	Biannually	The gas analyser or equivalent approved
Particulates	Not applicable	Annually	Isokinetic Gravimetric or equivalent approved

Note 1: All monitoring equipment used should be intrinsically safe.



C.1.3 Monitoring of Landfill Gas Emissions

Location: Perimeter Landfill Gas boreholes (refer condition 6.4) Noted

And

At least one monitoring point per cell (to be Agreed)

And

Other selected locations as may be specified

Parameter	Monitoring Frequency	Analysis Method/Technique Note	
Methane (CH ₄)	Monthly	InfraRed Analyser/FID	
Carbon Dioxide (CO ₂)	Monthly	InfraRed	
Oxygen (O2)	Monthly	Electrochemical Cell	
Atmospheric pressure & Trend	Monthly	Standard method	

Note 1: All perimeter monitoring boreholes must be installed to the standards specified in the Agency Guidance on Landfill

Monitoring.

Note 2: Or other method agreed.

C.2.1 Control of Emissions to Water

Emission Control Location: Constructed Wetlands

Description of Treatment: Sedimentation

Control Parameter	Monitoring	Key Equipment Note 1
Residence time & Flow restriction	Flow rate, depth	Flow meter, overflow alarm, emergency storage

Note 1: The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.

C.2.2Monitoring of Emissions to Water

Emission Point Reference No.:

Outlet from the constructed wetlands (SW2)

PARAMETER ^{Note 1}	SURFACE WATER Monitoring Frequency		
Visual Inspection/Odour Note 2	Daily		
Lagoon Level	Daily		
Dissolved Oxygen	Daily		
Electrical Conductivity	Continuous		
Non-ionised Ammonia (as NH ₃)	Weekly		
Total Ammonium (as NH ₃)	Weekly		
Chloride	Weekly		
pH	Weekly Weekly		
TOC			
Total Suspended Solids	Weekly		
BOD	Quarterly		
COD	Quarterly		
Metals / non metals Note 3	Annually		
List I/II organic substances (Screen) Note 4	Annually		
Mercury	Annually		
Sulphate (SO ₄)	Annually		
Nitrate	Annually		
Total P/orthophosphate	Annually		
Faecal Coliforms	Annually		
Total Coliforms	Annually		

Note 1:

All the analysis shall be carried out by a competent laboratory using standard and internationally accepted procedures. Where there is evident gross contamination, additional samples should be analysed and the full suite of parameters Note 2: shown tested.

Metals and elements to be analysed by AA ICP should include as a minimum; boron, cadmium, calcium, chromium Note 3: (total), copper, iron, lead, magnesium, manganese, nickel, potassium, sodium and zinc.

Samples screened for the presence of organic compounds using Gas Chromatography | Mass Spectrometry (GC/MS) or other appropriate techniques and using the list LH Substances from EU Directive 76-464/EEC and 80-68/EEC as a Note 4: guideline. Recommended analytical techniques include: volatiles (US Environmental Protection Agency method 524 or equivalent), semi-volatiles (USEPA method 525 or equivalent, and pesticides (USEPA method 608 or equivalent).

C2.3Leachate Monitoring

Location:

Leachate Holding Tank(s), Leachate Sumps and two Leachate Monitoring Points per Cell. The location of the leachate monitoring points to be agreed by the Agency in accordance with Condition 6.2.1

PARAMETER Note 1	LEACHATE Note 2 Monitoring Frequency	
Visual Inspection/Odour	Daily	
Leachate Level	Weekly	
BOD	Quarterly	
COD	Quarterly	
Chloride	Quarterly	
Ammoniacal Nitrogen	Quarterly	
Electrical Conductivity	Annually	
Ph	Annually	
Metals / non metals Note 3	Annually	
Cyanide (Total)	Annually	
Fluoride	Annually	
List I/II organic substances Note 4	Annually	
Mercury	Annually	
Sulphate (SO4)	Annually	
Total P/orthophosphate	Annually	

- All the analysis shall be carried out by a competent laboratory using standard and internationally accepted procedures. Visual Inspection and Leachate Levels to be monitored at all leachate monitoring points in the cells, collection sumps
- and holding Tank(s). Leachate composition to be monitored at the leachate holding Tank(s).
- Note 3: Metals and elements to be analysed by AA ICP should include as a minimum: boron, cadmium, calcium, chromium (total), copper, iron, lead, magnesium, manganese, nickel, potassium, sodium and zinc.

 Note 4: Samples screened for the presence of organic compounds using Gas Chromatography / Mass Spectrometry (GC MS) or
- other appropriate techniques and using the list LII Substances from EU Directive 76-464 EEC and 80-68/EEC as a guideline. Recommended analytical techniques include: volatiles (US Environmental Protection Agency method 524 or equivalent), semi-volatiles (USEPA method 525 or equivalent, and pesticides (USEPA method 608 or equivalent).

C.3.1Control of Emissions to Sewer

There are no Effluent Emissions to Sewer.

C.3.2Monitoring of Emissions to Sewer

There are no Effluent Emissions to Sewer.

C.4 Waste Monitoring

No waste monitoring is required.

C.5 Noise Monitoring

Emission Point Reference No.:

N1, N2, N3 and any noise sensitive locations as may be specified by

the Agency

Location:

Location of monitoring points as shown on Drawing Reference 5234.50 14 Environmental Monitoring Points, unless otherwise agreed

by the Agency.

Parameter	Monitoring Frequency	Analysis Method/Technique	
L(A) _{EQ} [30 minutes]	Annual	Standard Note:	
L(A) ₁₀ [30 minutes]	Annual	Standard Note i	
L(A)90 [30 minutes]	Annual	Standard Note 1	
Frequency Analysis(1/3 Octave band analysis)	Annual	Standard Note 1	

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

C.6 Ambient Monitoring

Air Monitoring

Emission Point Reference No.:

DG1, DG2 and DG3

Location:

Location of monitoring points as shown on Drawing Reference 5234.50/14 Environmental Monitoring Points, unless otherwise agreed by the Agency.

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust deposition	Monthly	Bergerhoff

Groundwater Monitoring

Location:

Groundwater Wells and Discharge from the groundwater drainage layer prior to merger with the surface water settlement lagoons. (The Location of the groundwater monitoring points to be agreed by the Agency in accordance with Condition 6.5).

PARAMETER Note 1	SURFACE WATER		
	Monitoring Frequency		
Visual Inspection/Odour Note 2	Monthly		
Groundwater Level (wells)	Monthly		
Flow (pumped water from interceptor)	Continuous		
Dissolved Oxygen	Daily (during discharge from groundwater drainage layer)		
Electrical Conductivity	Daily (during discharge from groundwater drainage layer)		
Ammoniacal Nitrogen	Monthly / Quarterly Note 5		
Chloride	Monthly /Quarterly Note 5		
pH	Monthly /Quarterly Note 5		
Sulphate (SO ₄)	Monthly /Quarterly Note 5		
Metals / non metals Note 3	Annually		
List I/II organic substances (Screen) Note 4	Annually		
Mercury	Annually		
Nitrate	Annually		
Total P/orthophosphate	Annually		
Faecal Coliforms	Annually		
Total Coliforms	Annually		

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

Where there is evident gross contamination, additional samples should be analysed and the full suite of parameters Note 2:

Metals and elements to be analysed by AA/ICP should include as a minimum; boron, cadmium, calcium, chromium Note 3: (total), copper, iron, lead, magnesium, manganese, nickel, potassium, sodium and zinc.

Note 4: Samples screened for the presence of organic compounds using Gas Chromatography / Mass Spectrometry (GC MS) or other appropriate techniques and using the list I/H Substances from EU Directive 76 464-EEC and 80.68 EEC as a guideline. Recommended analytical techniques include: volatiles (US Environmental Protection Agency method 524 or equivalent), semi-volatiles (USEPA method 525 or equivalent, and pesticides (USEPA method 608 or equivalent).

Note 5: Monthly for groundwater discharging from dramage layer to storm-water lagoon, otherwise Quarterly.

Receiving Water Monitoring

Location:

SW1. SW2 and SW3 in Drawing Reference 5234.50/14 Environmental Monitoring Points (or as may be amended under Condition 6.16)

Parameter	Monitoring Frequency	Analysis Method/Technique
Biological Quality (Q) Rating/Q Index	Annually Note 1	To be agreed by the Agency
Parameters in Table C2.2	Visual Inspection Weekly All others Quarterly unless specified as Annually in Table C2.2	Standard Methods

Note 1: Monitoring period - June to September.

Meteorological Monitoring

Location:

At the facility at a location to be agreed, or from an agreed representative station in the region.

Parameter	Monitoring Frequency	Analysis Method/Technique	
Precipitation Volume	Daily	Standard	
Temperature (min/max.)	Daily	Standard	
Wind Direction	Daily	Standard	
Wind Force Note 1	Daily	Standard	
Atmospheric Pressure Note 1	Daily	Standard	

Note 1: Monitoring frequency for these parameters may be decreased with the agreement of the Agency.

SCHEDULE D: Specified Engineering Works

Specified Engineering Works

Development of the facility including preparatory works and lining.

Installation of civic waste facility.

Final capping.

Installation of Landfill Gas Management Infrastructure.

Installation of Leachate Management Infrastructure.

Installation of Groundwater Control Infrastructure.

Installation of Surface Water Management Infrastructure.

Any other works notified in writing by the Agency.

SCHEDULE E: Reporting

Completed reports shall be submitted to:

The Environmental Protection Agency Office of Environmental Enforcement Regional Inspectorate John Moore Road Castlebar Co. Mayo

<u>or</u>

Any other address as may be specified by the Agency

Reports are required to be forwarded as required in the licence and as may be set out below:

Report	Reporting Frequency Notes	Report Submission Date	
Annual Environment Report (AER)	Annually	By 31 st March of each year.	
Record of incidents	As they occur	Within five days of the incident.	
Specified Engineering Works reports	As they arise	Prior to the works commencing.	
Monitoring of landfill gas	Quarterly	Ten days after end of the quarter being reported on.	
Monitoring of Surface Water Quality	Quarterly	Ten days after end of the quarter being reported of	
Monitoring of Groundwater Quality	Quarterly	Ten days after end of the quarter being reported on.	
Monitoring of Leachate	Quarterly	Ten days after end of the quarter being reported on.	
Dust Monitoring	Quarterly	Ten days after end of the quarter being reported on.	
Drawing with Monitoring locations	-	Prior to commencement of waste disposal	
Schedule of Objectives & Targets	-	3 months prior to commencement of development	
Phased Construction Plan	-	Prior to commencement of development	
Leachate Disposal Agreement	-	Prior to commencement of waste disposal	

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

SCHEDULE F: Annual Environmental Report

Annual Environmental Report Content Note 1 Emissions from the facility. Waste management record. Waste Recovery Report. Topographical survey. Remaining void, projected completion date. Resource consumption summary. Complaints summary. Schedule of Environmental Objectives and Targets. Environmental management programme - report for previous year. Environmental management programme - proposal for current year. Pollution emission register - report for previous year. Pollution emission register - proposal for current year. Noise monitoring report summary. Meteorological data summary. Ambient monitoring summary. Tank and pipeline testing and inspection report. Reported incidents summary. Energy efficiency audit report summary. Report on the assessment of the efficiency of use of raw materials in processes and the reduction in waste generated. Report on progress made and proposals being developed to minimise water demand. Report on progress made and proposals being developed to minimise generation of leachate for disposal. Development / Infrastructural works summary (completed in previous year or prepared for current year). Report on management and staffing structure of the installation/facility. Report on the programme for public information. Reports on financial provision made under this licence. Statement on the costs of Landfill. Any amendments to the CRAMP. Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities). Environmental Liabilities Risk Assessment Review (every three years or more frequently as dictated by relevant on site change including financial provisions). Detailed Statement, with mass balance, of C & D wastes and compost used in construction. Any other items specified by the Agency.

Note 1: Content may be revised subject to the agreement of the Agency

PRESENT when the seal of the Agency

was affixed hereto:

Sealed by the seal of the Agency on this the 12th day of July, 2006

			•	
Padraic Lar	kin, Dir	ector		