



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

WASTE LICENCE
PROPOSED DECISION

Waste Licence Register Number:	72-1
Applicant:	Kerry County Council
Location of Facility:	Coolcaslagh Transfer Station, Coolcaslagh, Killarney, Co. Kerry

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Reasons for the Proposed 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 not contravene any of 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, the submissions received from third parties and the report of its inspector.

Part I: Activities Licensed

In pursuance of the powers conferred on it by the Waste Management Act, 1996, the Environmental Protection Agency (the Agency) proposes, under Section 40(1) of the said Act to grant this Waste Licence to Kerry County Council, County Buildings, Rathass, Tralee, Co. Kerry, to carry on the waste activities listed below at Coolcaslagh Transfer Station, Coolcaslagh, Co. Kerry subject to eleven Conditions, with the reasons therefor and the associated schedules attached thereto as set out in the licence.

Licensed waste disposal activities, in accordance with the Third Schedule of the Waste Management Act, 1996

Class 12: Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.

This activity is limited to the compaction of waste deposited in the hopper unit in the waste intake building and its transferral from the compactor unit to enclosed container for storage prior to removal offsite to landfill.

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.

This activity is limited to the storage of non-recoverable commercial and industrial wastes received at this facility, prior to disposal at an alternative appropriate facility.

Licensed waste recovery activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996

Class 1: Solvent reclamation or regeneration.

This activity is limited to the storage in sealed containers of small quantities (0.5 tonnes per annum) per annum of solvent based paints or varnishes delivered by members of the public to the Civic waste facility prior to removal offsite for treatment as hazardous waste.

Class 2: Recycling or reclamation of organic substances, which are not used as solvents (including composting and other biological transformation processes).

This activity is limited to the composting of suitable organic wastes accepted at the waste transfer station. This shall be subject to a limit of 3,000 tonnes per annum unless otherwise agreed with the Agency and to the recovery of timber, paper and waste oils at the civic waste facility.

Class 3: Recycling or reclamation of metals and metal compounds.

This activity is limited to the acceptance of beverage cans, white goods and other metals at the civic waste facility.

Class 4: Recycling or reclamation of other inorganic materials.

This activity is limited to the receipt, holding and recovery of glass, and, subject to the prior agreement of the Agency and a limit of 1,000 tonnes per annum the recovery of inert construction and demolition wastes (such as bricks, cement, ceramics, soils) to be sent off site for reprocessing or to be used in the restoration of the Coolcaslagh landfill site subject to the prior agreement of the Agency.

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

This activity is limited to the storage of waste types authorised by this licence in the civic waste facility (including batteries and fluorescent tubes), the proposed composting area and the proposed construction and demolition waste recovery area, prior to recovery at an alternative appropriate facility.

INTERPRETATION

Act	The Waste Management Act, 1996 (No. 10 of 1996).
Adequate lighting	20 lux measured at ground level.
AER	Annual Environmental Report.
Agency	Environmental Protection Agency.
Agreed/Agreement	Agreed/Agreement in writing.
Appropriate Facility	A waste management facility, duly authorised under relevant law and technically suitable, other than the facility subject to this licence.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of the waste licence application.
Application	The application by the licensee for this waste licence, including any other material submitted to the Agency in writing by the licensee between the date of the application and the date of grant of this licence.
Annually	All or part of a period of twelve consecutive months.
Bi-annually	All or part of a period of six consecutive months.
Bund	A structure to provide containment for any loss of liquid from a storage tank and associated pipework. The Agency's Landfill Design Manual (draft) sets forth design criteria.
Commercial waste	As defined in Section 5 (1) of the Waste Management Act 1996.
Containment boom	A boom which can contain a spillage and prevent it from entering drains or watercourses.
Day	A period from 0000 hours to 2400 hours.
Daytime	0800 hours to 2200 hours.
Daily	Consecutive 24 hour periods.
Emission	As defined in Section 5 (1) of the Waste Management Act 1996.
EMP	Environmental Management Plan.
Emission Limit Value	Those limits, including concentration limits or deposition limits, contained in Schedule F.
Environmental Pollution	As defined in Section 5 (1) of the Waste Management Act 1996.
Facility	That area or areas defined under Condition 1.2.
Foul water	Any reference in this licence refers to wash water, truck washing or foul sewage.
Hazardous Waste	As defined in Section 4(2) of the Waste Management Act, 1996.
Impulsive Noise	As defined in British Standard BS 4142, 1990. "Method for rating industrial noise affecting mixed residential and industrial areas".
Incident	Any reference to an incident in this licence means an incident as defined in Condition 3.1.
Industrial waste	As defined in Section 5 (1) of the Waste Management Act 1996.
Interceptor	See Oil Separator.
Licence	A Waste Licence issued in accordance with the Act.

Licensee	Kerry County Council, County Buildings, Rathass, Tralee, Co. Kerry.
Maintain	Keep in a fit state, including such regular inspection, servicing and repair as may be necessary to adequately perform its function.
Monthly	At least 12 times per year, once during each calendar month.
Municipal Waste	Municipal waste as defined in Section 5 (1) of the Act.
Night-time	2200 hours to 0800 hours.
Noise sensitive location	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.
Oil separator	Device installed according to the draft European Standard prEN 858 (Installations for the separation of light liquids, eg. oil and petrol).
Putrescible waste	Waste which is readily biodegradable such as vegetable matter, green waste, etc.
Specified Engineering Works	Those engineering works listed in Schedule D of this licence.
Tonal noise	As defined in International Standards Organisation "Acoustics - description and measurement of environmental noise", Part 2, 1996.
Trigger level	A parameter value which when achieved or exceeded requires certain actions to be taken.
Unacceptable Waste	As defined in Condition 5.2 of this licence.
Waste	As defined in Section 4(1) of the Act.
Waste disposal activity	Includes the activities referred to in Section 4 of the Act and listed in the Third Schedule thereto.
Waste recovery activity	Includes the activities referred to in Section 4 of the Act and listed in the Fourth Schedule thereto.
Weekly	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.
Working Day	From March to October inclusive: Monday to Friday 07:30 to 20:00, Saturday 07:30 to 19:00. From November to February inclusive: Monday to Friday 08:00 to 19:00, Saturday 08:00 to 17:00.

Part II: CONDITIONS

Condition 1 SCOPE

- 1.1. Waste activities at the facility shall be restricted to those listed and described in Part I and required by this licence.
- 1.2. Waste activities shall be restricted to the area of land outlined in red on Drawing No. 99-01710 B.2.1 Rev.B entitled "Site Plan" (dated August 1999) of the waste licence application. Any reference in this licence to "facility" shall mean the area thus outlined in the red line.
- 1.3. Every plan, programme or proposal submitted to the Agency for 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. Every 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.
- 1.4. 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.
- 1.5. Where the Agency considers that a non-compliance with the Conditions of this licence has occurred, it may serve a notice on the licensee specifying:
 - a) 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;
 - b) 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,
 - c) 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 confirmation is received from the Agency that the notice is withdrawn.

Reason: To clarify the scope of this licence.

Condition 2 MANAGEMENT OF THE ACTIVITY

2.1 Environmental Management System

2.1.1 The licensee shall within eighteen months from the date of grant of this licence, 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 agreement.

2.1.2 The EMS shall include as a minimum those elements specified in the Conditions 2.2 to 2.8 below.

2.2 Schedule of Environmental Objectives and Targets

2.2.1 The licensee shall, within twelve months from the date of grant of this licence, submit to the Agency for its agreement a Schedule of Objectives and Targets. The objectives should be specific and the targets measurable.

2.2.2 The Schedule shall address a five year period as a minimum and shall be reviewed and submitted annually to the Agency for its agreement.

2.3 Environmental Management Programme

2.3.1 The licensee shall, within twelve months from the date of grant of this licence, submit to the Agency for its agreement an Environmental Management Programme (EMP). The EMP shall include a time-scale for achieving the Schedule of Objectives and Targets and shall comply with any other guidance issued by the Agency.

2.3.2 The EMP shall include, as a minimum, the information specified in *Schedule A: Content of the Environmental Management Programme*. The EMP shall be reviewed and submitted to the Agency for its agreement annually.

2.4 Corrective Action

2.4.1 The licensee shall establish and maintain within six months of the grant of this licence written Corrective Action Procedures to ensure that corrective action is taken should specified requirements to this licence not be fulfilled.

2.5 Awareness and Training

2.5.1 The licensee shall establish and maintain within six months of the grant of this licence Awareness and Training Procedures for identifying training needs and for providing appropriate training, for personnel whose work is related to the licenced facility. Written records of training shall be maintained.

2.6 Management Structure

2.6.1 Within nine months from the date of grant of this licence, the licensee shall submit written details of the management structure of the facility for the agreement of the Agency. Any proposed changes in the management structure shall be submitted in writing to the Agency for its agreement. 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;
- b) a named contact person for communications with the Sanitary Authority
- c) details of the responsibilities for each individual named under a) above;

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- d) details of the relevant experience, competence and qualifications held by each of the persons nominated under a) above; and
 - e) contingency arrangements for the absences of the named persons from the facility.

2.7 Communications

- 2.7.1 Within twelve months from the date of grant of this licence, the licensee shall submit for agreement to the Agency a Communications Programme to ensure that members of the public can obtain information concerning the environmental performance of the facility at all reasonable times.

2.8 Annual Environmental Report

- 2.8.1 The licensee shall submit to the Agency for its agreement, within thirteen months from the date of grant of this licence, and within one month of the end of each year thereafter, an Annual Environmental Report (AER).
 - 2.8.2 The AER shall include as a minimum the information specified in *Schedule B: Content of Annual Environmental Report* and shall be prepared in accordance with any relevant written guidance issued by the Agency.
- 2.9 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 suitably qualified and experienced deputy, shall be present at all times during the operation of the facility.
- 2.10 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and/or experience, as required and shall be aware of the requirements of this licence.

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

Condition 3 NOTIFICATION AND RECORD KEEPING

- 3.1 The licensee shall make written records of the following incidents:
- a) any nuisance caused by the activity
 - b) any emission which does not comply with the requirements of this licence;
 - c) any trigger level specified in this licence which is attained or exceeded;
 - d) any indication that environmental pollution has, or may have, taken place; and,
 - e) any emergency.
- 3.2 The written record shall include all aspects described in sections (a) to (e) of Condition 10.7.
- 3.3 Unless otherwise instructed in writing by the Agency, 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 the written record required by this condition to the Agency as soon as practicable and, in any case, within five working days after the occurrence of any incident;
 - c) in the event of any incident which relates to discharges to surface water, notify the South Western Regional Fisheries Board as soon as practicable and, in any case, not later than 10.00am on the following working day after such an incident.
- 3.4 Should any further actions be taken after the date of notification, 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.
- 3.5 Unless otherwise agreed by the Agency, all documentation submitted to the Agency shall:
- (a) be sent to the Agency's headquarters;
 - (b) comprise one original and three copies;
 - (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; and,
 - (g) in the case of results of any environmental monitoring, be accompanied by a written interpretation setting out their significance.
- 3.6 Copies of all environmental monitoring data obtained by the licensee which relates to the facility shall be forwarded to the Agency at the frequencies set out in *Schedule C: Recording and Reporting to the Agency* to this licence.

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- 3.7 Unless otherwise agreed with the Agency, all documentation and records required to be made under this licence shall be retained by the licensee.
- 3.8 The licensee shall provide additional copies of any documentation referred to in this licence to the Agency upon written request, within the time specified in writing by the Agency.
- 3.9 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;
 - e) signed-off analysis sheets/raw data for all environmental monitoring undertaken as required by this licence; and,
 - f) a record of the names, qualifications and a summary of the relevant experience of personnel involved in/responsible for sampling, monitoring and interpretation of results as required by this licence.
- 3.10 The licensee shall maintain a written record for each load of waste arriving and being removed from the facility. The licensee shall record the following:
- a) the name of the carrier;
 - b) the vehicle registration number;
 - c) the name of the producer(s)/collector(s) of the waste as appropriate;
 - d) a description of the waste;
 - e) the quantity of the waste, recorded in tonnes;
 - f) the name of the person checking the load; and,
 - g) 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.
- 3.11 In the event that foul water is required to be removed from the facility the licensee shall keep a written record of each consignment of foul water removed from the facility. The record shall include the following:
- a) the name of the carrier;
 - b) the date and time of removal of foul water from the facility;
 - c) the volume of foul water, in cubic metres, removed from the facility on each occasion;
 - d) the name and address of the Waste Water Treatment Plant to which the foul water was transported;
 - e) any incidents or spillages of foul water during its removal or transportation.
- 3.11 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.

Reason: To provide for the notification of incidents, to update information on the activity and to provide for the keeping of records.

Condition 4 SITE INFRASTRUCTURE

- 4.1 The licensee shall establish all infrastructure referred to in this licence prior to the commencement of the licensed activities or as agreed in advance in writing with the Agency.
- 4.2 Site Notice Board
- 4.2.1 Within three months of the date of grant of this licence, a Site Notice Board shall be provided and maintained by the Licensee on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the identification board shall be 1200mm by 750 mm.
- 4.2.2 The board shall clearly show:
- a) the name and telephone number of the facility;
 - b) the normal hours of opening;
 - c) the name, address and telephone number of the licence holder;
 - d) an emergency out of hours contact telephone number;
 - e) the name, address and telephone number of the operator of the facility if different from (c) above;
 - f) the waste licence reference number; and
 - g) where monitoring information can be obtained.
- 4.3 Site Security
- 4.3.1 Security fencing comprising post and wire fencing shall be maintained around the boundary of the waste transfer station component of the facility as shown **on** Drawing No. 2000-017-02 D.1.1 Rev. C -Site Layout Plan (revised April 2000) of the application. The entrance to the waste transfer station shall comprise palisade fencing and gates as shown on this drawing.
- 4.3.2 Prior to the commencement of composting and the recovery of construction and demolition waste at the facility security fencing shall be extended to incorporate the areas reserved for these activities.
- 4.3.3 The licensee shall remedy any defect in the gates and/or fencing as follows:
- a) a temporary repair shall be made by the end of the working day; and,
 - b) a repair to the standard of the original gates and/or fencing shall be undertaken within three working days or as otherwise agreed with the Agency.
- 4.3.4 Gates shall be locked shut when the facility is closed.
- 4.3.5 Within three months of the date of grant of this licence the licensee shall submit to the Agency arrangements for site security at the waste transfer station including details of the operation of the Closed Circuit Television (CCTV) system installed.
- 4.4 Unless otherwise agreed by the Agency an office shall be provided and maintained on the facility, at the location shown in Drawing No. 2000-017-02 D.1.1 Rev. D -Site Layout Plan (revised 23.05.00) of the application and referred to therein as reception building. The office

shall be constructed and maintained in a manner suitable for the processing and storing of documentation.

- 4.5 The licensee shall provide and maintain a working telephone, and a facsimile machine at the facility.
- 4.6 Unless otherwise agreed by the Agency a car parking area shall be provided between the site office and the civic waste facility shown in Drawing No. 99-017-02 D.1.1 Rev. D -Site Layout Plan (revised 23.05.00) of the application and referred to thereon as Civic Amenity Centre.
- 4.7 Unless otherwise agreed by the Agency a Waste Intake Building and associated infrastructure including hopper unit and compactor unit shall be provided and maintained at the location shown in Drawing No. 2000-017-02 D.1.1 Rev. D -Site Layout Plan (revised 23.05.00) of the application, and referred to thereon as Lorry Refuse Intake.
- 4.8 Unless otherwise agreed by the Agency a container storage area shall be provided and maintained opposite the waste container traversing rail system, at the location shown in Drawing No. 2000-017-02 D.1.1 Rev. D -Site Layout Plan (revised 23.05.00) of the application and referred to thereon as Container Storage Area.
- 4.9 Liquid storage
 - 4.9.1 Within six months of the date of grant of this licence fuel storage tank, as shown in Drawing No. 99-01710 D.1.1 Rev.D (revised October 1999) and referred to thereon as Fuel Storage tank and bund shall be replaced with a bunded fuel storage area at the location shown Drawing No. 2000-017-02 D.1.1 Rev. D -Site Layout Plan (revised 23.05.00) of the application and referred to thereon as Diesel Tank. Surface water drainage from the fuel dispensing area of this tank, unless contained within the bund, shall be directed through an oil interceptor. On construction of the bunded fuel storage area fuel shall not be stored at any other locations within the facility unless otherwise agreed with the Agency.
 - 4.9.2 Prior to construction of the bunded fuel storage area required by Condition 4.9.1, fuel shall be stored in the bunded fuel storage tank as shown in Drawing No. 99-01710 D.1.1 Rev.D - Site Layout Plan (revised October 1999) of the application and referred to thereon as Fuel Storage tank and bund.
 - 4.9.3 All tank and drum storage areas shall be rendered impervious to the materials stored therein. In addition, 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.
 - 4.9.4 All drainage from bunded areas shall be diverted for collection and safe disposal.
 - 4.9.5 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
 - 4.9.6 The integrity and water tightness of all the bunds, tanks and containers and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee and shall be reported to the Agency within six months of the date of grant of this licence. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. The licensee shall also submit to the Agency for its agreement in each case a written report on the storage of fuels on site. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
 - 4.9.7 All tanks and containers shall be labelled to clearly indicate their contents and volume.

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- 4.9.8 All tanks and containers shall be secured against unauthorised access.
- 4.9.9 All oils and fuels stored in the vehicle maintenance area shall be stored in a bunded area. Details of this bund shall be submitted to the Agency within three months of the date of grant of this licence.
- 4.10 Waste Inspection/ Waste Quarantine Area
- 4.10.1 Within six months of the date of grant of the licence, proposals for a Waste Inspection Area and a Waste Quarantine Area shall be submitted to the Agency for its agreement. These proposals shall include provision of a bunded pallet and appropriate containers for the storage of rejected liquid waste.
- 4.10.2 Within six months of agreement by the Agency, the licensee shall ensure that the areas referred to in Condition 4.10.1 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 suitably and clearly segregated from each other.
- 4.11 Weighbridge
- 4.11.1 A weighbridge shall be provided at the location shown on Drawing No. 2000-017-02 D.1.1 Rev. D -Site Layout Plan (revised 23.05.00) and shall be maintained in such condition as to accurately measure the weight of all vehicles using it. The accuracy of the weighbridge shall be tested and demonstrated by the licensee and shall be reported to the Agency within twelve months from the date of its installation. Thereafter, the weighbridge shall be tested to the manufacturer's specifications and reported to the Agency. A written record of such tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
- 4.12 The licensee shall provide adequate lighting during the operation of the facility during the hours of darkness.
- 4.13 Surface Water Runoff
- 4.13.1 Surface water run-off from areas of the waste transfer station which are not used for the handling or storage of waste shall be directed to the surface drainage system prior to discharge to the perimeter drainage ditch. The existing and proposed surface drainage system shall be as shown on Drawing No. 2000-017-02 D.1.1 Rev. D -Site Layout Plan (revised 23.05.00) and referred to thereon as Existing Stormwater Sewer and proposed Stormwater sewer respectively.
- 4.13.2 The licensee shall within three months of the date of grant of this licence submit to the Agency for its agreement proposals for the introduction of an oil interceptor(s) and silt traps within the surface water drainage at a point or points prior to the discharge of surface run off from the site. These proposals shall include details of the proposed maintenance of the surface drains.
- 4.13.3 The licensee shall within three months of the date of grant of this licence submit to the Agency for its agreement a drawing(s) which clearly show the surface drainage system including silt traps and proposed interceptor(s) and the point(s) of discharge to the perimeter drainage ditch. These proposals shall include a colour coding marking system to enable the surface drainage system and foul sewer to be clearly distinguished on site.
- 4.13.4 Prior to the commencement of composting and recovery of construction and demolition waste at the facility the surface drainage system shall be extended as shown on Drawing No. 2000-017-02 D.1.1 Rev. D -Site Layout Plan (revised 23.05.00) to incorporate the areas reserved for these activities.

4.14 Foul Water Treatment

- 4.14.1 Unless otherwise agreed with the Agency the licensee shall within six months of the date of grant of this licence provide and maintain an upgraded foul water system incorporating an Effluent Storage Tank and the existing and proposed foul sewers and associated interceptor chambers and pump sump shall be provided and maintained at the location shown in Drawing No. 2000-017-02 D.1.1 Rev. D -Site Layout Plan (revised 23.05.00) and as described in H.9 Surface Water: Foul Sewer System Discharges of further information, submitted to the Agency on 25 May 2000.
- 4.14.2 Prior to the commissioning of the upgraded foul water system, the licensee shall submit the following to the Agency for its agreement :
- 4.14.2.1 the method for monitoring the levels of effluent in the Effluent Storage Tank including high level and low level alarms;
- 4.14.2.2 the criteria which will determine when foul water will be required to be removed from the facility;
- 4.14.2.3 the contingency arrangements in the event of pump failure; and,
- 4.14.2.4 the procedures to be followed during the removal of effluent offsite, and the contingency arrangements in the event of accidental spillage of effluent.
- 4.14.3 Unless otherwise agreed with the Agency effluent stored in the Effluent Treatment Tank shall be removed offsite by tanker for treatment at the Killarney Sewage Treatment Works or such other works as agreed in advance by the Agency. The frequency of removal shall be such that a minimum freeboard of 0.5 m shall be maintained at all times.
- 4.14.4 Prior to the commissioning of the upgraded foul water system referred to in Condition 4.14.1 and unless agreed by the Agency the existing foul water drainage and treatment system shall be provided and maintained at the location shown in Drawing No. 2000-017-02 D.1.1 Rev.D -Site Layout Plan (revised 23.05.00) of the application.
- 4.14.5 All surface drainage from areas at the site used for the handling and storage of waste (including the floor of the waste intake building, the waste container storage area and conveyor system and the civic waste facility) shall be directed to the foul sewer. The foul sewer shall pass through an interceptor prior to being directed to the existing foul water system (Condition 4.14.4) and the proposed upgraded foul water system, when it is commissioned.

4.15 Wheelwash

- 4.15.1 The licensee shall submit proposals for vehicle cleaning facilities including container cleaning to the Agency for its agreement within three months of the date of grant of this licence. These proposals shall include arrangements for the management of surface water run off associated with the vehicle cleaning facilities.

4.16 Traffic Control

- 4.16.1 Traffic control at the waste transfer station shall be as described in *Attachment D.1(j)-Traffic Control* of the application.
- 4.16.2 The licensee shall within six months of the date of grant of this licence submit a traffic management plan including an appropriately scaled drawing(s) for the facility incorporating the control of traffic using the transfer station and associated civic waste facility, the proposed composting area and the proposed areas for recovery of construction and demolition waste to the Agency for agreement.

4.17 Specified Engineering Works

- 4.17.1 The licensee shall submit a written report on any proposed specified engineering works, as defined in *Schedule D: Specified Engineering Works*, to the Agency for its agreement at a minimum two months prior to any works being carried out. No such works shall be carried out without the prior written agreement of the Agency.
- 4.17.2 All specified engineering works shall be supervised by a competent person(s) agreed in writing in advance by the Agency and that person, or persons, shall be present at all times during which relevant works are being undertaken.
- 4.17.3 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 validation 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) where relevant a drawing and sections showing the location of all samples and tests carried out;
 - e) where relevant daily records sheets/diary;
 - f) name(s) of contractor(s)/individual(s) responsible for undertaking the engineering works;
 - g) name(s) of person(s) responsible for supervision of works and for quality assurance validation of works;
 - h) records of any problems and the remedial works carried out; and
 - i) any other information requested in writing by the Agency.

4.18 Landscape Proposals

- 4.18.1 Within nine months of the date of grant of this licence, the licensee shall submit to the Agency, for its agreement, landscape planting proposals associated with the waste transfer station, the composting area and the area for recovery of construction and demolition waste facility. These proposals shall 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;
 - c) method for maintenance of slope stability for embankments;
 - d) total area(s) to be planted;
 - e) planting method and fertiliser requirement;
 - f) tree protection; and
 - g) post planting management.

The licensee shall update these proposals when required in writing by the Agency and submit the proposed amendments to the Agency for its agreement.

Reason: To provide for the protection of the environment

Condition 5 WASTE ACCEPTANCE AND HANDLING

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- 5.1 Where waste types are not permitted to be accepted at the facility, then those waste types shall not be accepted whether or not they have been packaged, placed in other containers or waste materials, or pre-treated by any form of solidification or encapsulation.
- 5.2 Unless otherwise agreed by the Agency, the following wastes only shall be accepted at the facility subject to the quantities listed in *Schedule G Waste Types and Quantities*:
- a) Municipal waste
 - b) Commercial and Industrial waste of similar composition to Municipal Waste;
 - c) Construction and Demolition Waste only to be permitted on a trial basis subject to a maximum limit of 1,000 tonnes per annum and the prior agreement of the Agency.
 - d) Unless otherwise agreed in advance with the Agency biodegradable waste for composting shall be subject to a maximum limit of 3,000 tonnes per annum;
 - e) The wastes listed in Table E.1.2 of the waste licence application for recovery at the civic waste facility subject to restrictions referred to therein; and,
 - f) The wastes listed in Table E.1.3 of the waste licence application subject to the restrictions referred to therein.
- 5.3 The quantity of wastes to be accepted at the waste transfer station shall not exceed 23,500 tonnes per annum unless otherwise agreed by the Agency.
- 5.4 Waste for recycling/recovery to be accepted at the civic waste facility shall be limited to cardboard, paper, plastic, glass bottles, beverage cans, batteries, waste oils, solvent based paints and varnishes, fluorescent light bulbs, textiles, timber and white goods and other metals unless otherwise agreed by the Agency. These waste types shall be stored in separate appropriate containers within the civic waste facility.
- 5.5 The licensee shall submit a written proposal on any proposed new waste processing procedure, along with relevant details, to the Agency for its agreement at least two months prior to any such processes or associated works being carried out. Procedures for degassing of CFC's from refrigerators and proposals for the composting of biodegradable waste and the recovery of construction and demolition waste shall be submitted to the Agency for its agreement within six months of the date of grant of this licence unless otherwise agreed by the Agency. Within six months of the date of grant of this licence the storage containers and areas listed below shall be provided unless otherwise agreed by the Agency:
- a) Bunded area for the storage of waste oils.
 - b) Sealed containers for the storage of solvent based paints and varnishes.
 - c) Storage container for fluorescent tubes.
- 5.6 Other than waste for recycling/recovery at the civic waste facility, the composting area, the area for recovery of construction and demolition waste, and domestic waste for transferral and processing in the Waste Intake Building, waste arriving at the transfer station shall be weighed, documented and directed to the Waste Intake Building, as shown in Drawing No. 2000-017-02 D.1.1 Rev. C (revised April 2000) of the application.
- 5.7 Other than waste for recycling/recovery at the civic waste facility waste arriving at the waste transfer station will be tipped into the hopper unit of the Waste Intake Building.

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- 5.8 A skip or other suitable container shall be provided for the acceptance of public waste at the civic waste facility and this shall be brought to the waste intake building for compaction as required.
 - 5.9 All waste delivered to the Waste Intake Building shall be visually inspected by the licensee. A member of staff shall be present at the Waste Intake Building at all times when waste is being tipped into the hopper in the Waste Intake Building. Outside of the working day specified in the Interpretation, the gated entrance to the Waste Intake Building shall be locked.
 - 5.10 All suspect materials identified by the visual inspection of the waste shall be diverted to the proposed Waste Quarantine Area, or other designated area as agreed in advance by the Agency, for further examination and classification. Materials other than those permitted by this licence shall be sent to an alternative appropriate facility for disposal or recovery.
 - 5.11 Prior to the construction of a Waste Inspection/Waste Quarantine Area the licensee shall provide a skip within the Waste Intake Building for the storage of waste rejected from incoming waste. A banded pallet and suitable containers shall also be provided for rejected liquid waste.
 - 5.12 No waste shall be placed, or allowed to accumulate outside the Waste Intake Building other than waste in the quarantine area, in the civic waste facility for recycling, and construction and demolition waste and compost material pending removal from the site, unless agreed in advance by the Agency.
 - 5.13 Unless otherwise agreed in advance by the Agency waste acceptance at the Waste Intake Building and at the civic amenity facility shall be restricted to between the hours of 08:00 to 19:00 Monday to Friday and 8.00 to 18.00 on Saturdays from March to October. From November to February inclusive waste acceptance at the Waste Intake Building shall be restricted to between the hours of 08:30 to 18:00 Monday to Friday inclusive and 08:30 to 16:00 on Saturday unless otherwise agreed in advance by the Agency. The facility entrance shall be locked outside of the working day and at times when the facility is unattended.
 - 5.14 Scavenging shall not be permitted at the facility (including the closed Coolcaslagh landfill site).
 - 5.15 No waste shall be burned or otherwise combusted at the facility.
 - 5.16 At the end of the working day the floor of the Waste Intake Building and the Waste Transfer Station Yard and access shall be cleaned of all waste. No waste shall be left overnight in either the hopper unit or the compactor within the Waste Intake Building.
 - 5.17 Unless subject to the prior written agreement of the Agency, a maximum of 4 enclosed waste containers (including sealed containers of compacted waste or fully enclosed collection vehicles containing waste), shall be stored on the facility overnight. These containers shall be stored at areas clearly designated for this purpose.
 - 5.18 Waste sent off-site for recovery or disposal shall only be conveyed to a waste contractor or an approved licensed facility, as agreed with the Agency. The recovery or disposal facilities for all wastes shall be agreed in advance with the Agency. 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.
 - 5.19 Waste acceptance at the facility shall be as outlined in *E.2 Waste Acceptance Procedures* and *E.2.2 Waste Acceptance Procedures for Coolcaslagh Transfer Station* as described in the application and as amended in further information submitted to the Agency on 3 May 2000.
 - 5.20 The licensee shall within six months of the date of grant of this licence submit waste acceptance procedures including procedure for the management of unacceptable wastes received at the transfer station, the civic waste facility, the composting area and the area for recovery of construction and demolition waste for the agreement of the Agency. This procedure

will detail unacceptable waste types, handling procedures, waste quarantine procedures, record keeping and levels of staff responsibility.

- 5.21 No smoking shall be allowed on the facility other than in the site office as shown in Drawing No. 2000-017-02 D.1.1 Rev. D -Site Layout Plan (revised 23.05.00) of the application and referred to therein as reception building.
- 5.22 Waste for use in the restoration of the closed Coolcaslagh Landfill site may only be accepted at the landfill subject to the provisions of Conditions 8.2.1.1 a) and 8.2.2 and the agreement of the Agency.

Reason: To provide for the acceptance and management of wastes authorised under this waste licence

Condition 6 ENVIRONMENTAL NUISANCES

- 6.1 Subject to Conditions 5.12 and 5.20, all waste for disposal shall be removed from the facility within forty-eight hours of its arrival on site at all times except during bank holiday weekends. For bank holiday weekends, all waste for disposal shall be removed from the facility within seventy-two hours of its arrival on site unless subject to the prior agreement of the Agency.
- 6.2 The licensee shall, at a minimum of one week intervals, inspect for nuisances caused by vermin(birds, flies rodents), litter and odours. Written records shall be made of all inspections and any actions taken as a result of these inspections. In the event that infestations of vermin occur at the facility, the licensee shall introduce appropriate measures to eradicate the infestation.
- 6.3 All litter on the site and its environs including along the boundary fence shall be removed and appropriately disposed of on a daily basis.
- 6.4 Any waste placed on or in the vicinity of the facility, other than in accordance with the requirements of this licence, shall be removed by the licensee immediately such waste is discovered and in any event by 10.00am of the next working day.
- 6.5 The public highway 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 by the licensee.
- 6.6 The licensee shall ensure that all vehicles delivering and removing waste from the facility are suitably covered, and that there shall be no liquid discharges from the waste transported therein.
- 6.7 The licensee shall ensure that, vermin (birds, flies and rodents) and dust do not give rise to nuisance at the facility or the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution.
- 6.8 The licensee shall ensure that the activities shall be carried out in a manner such that emissions including dust, noise and odours do not result in significant impairment of, or significant interference with amenities or the environment beyond the facility boundary.
- 6.9 The licensee shall within three months of the date of grant of this licence submit details of nuisance control to be implemented at the composting area and the area for recovery of construction and demolition waste to the Agency for its agreement. The agreed programme shall be implemented prior to the acceptance of waste in the proposed composting area.

Reason: To provide for the control of nuisances.

Condition 7 EMISSIONS AND ENVIRONMENTAL IMPACTS

- 7.1 No specified emission from the facility shall exceed the emission limit values set out in *Schedule F: Emission Limits* of this licence. There shall be no other emissions of environmental significance.
- 7.2 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 site boundary.

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- 7.3 Subject to Condition 4.13.2 surface run-off shall not be discharged to the surface water drains without first having passed through an oil interceptor.
- 7.4 Prior to the upgrading of the foul water Foul water from the site shall not be discharged directly to the surface water drains without first having passed through an interceptor and wastewater treatment unit.
- 7.5 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.

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

Condition 8 DECOMMISSIONING AND AFTERCARE

8.1 Waste Transfer Station

- 8.1.1 A proposal for a Decommissioning and Aftercare Plan for the waste transfer station shall be submitted to the Agency within twelve months of the date of grant of the licence. The licensee shall update these schemes when required in writing by the Agency and submit any proposed amendments to the Agency for its agreement.

8.2 Landfill Site

8.2.1 Conditioning Plan

- 8.2.1.1 Within nine months of the date of grant of this licence the licensee shall submit a Conditioning Plan to the Agency for its agreement for the closed Coolcaslagh Landfill site. The following elements and a timescale for their implementation shall be included as a minimum in this Plan:

- a) Detailed Restoration Plan - This plan shall take account of the recommendations in the Agency publication Landfill Manuals: Landfill Restoration and Aftercare.
- b) Leachate management.
- c) Landfill gas management.
- d) Surface water management.
- e) Environmental monitoring programme including: surface water, groundwater, leachate, landfill gas and flora and fauna.

- 8.2.1.2 Within six months of the date of grant of this licence the licensee shall ensure that the following are undertaken:

- (a) Carry out a review of security arrangements including an assessment of site security fencing for the closed Coolcaslagh Landfill site. The licensee shall submit to the Agency a report for its agreement to include any improvements considered necessary and a proposed timescale for the introduction of these improvements.

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- (b) All loose litter within and in the environs of the Coolcaslagh Landfill site is removed and appropriately disposed of.
 - (c) All exposed waste within the Coolcaslagh Landfill is covered with a minimum of 500mm of inert material to a specification agreed in advance with the Agency.
 - (d) Unless agreed otherwise, submit to the Agency a proposal for vehicle cleaning and road cleaning during the restoration of the closed landfill to prevent spoiling of the public road.
 - (e) The licensee shall submit to the Agency an assessment of the stability of the access road to the closed landfill. Any necessary improvement works with be carried out by the licensee.
 - (f) Submit to the Agency an assessment of the stability of the perimeter embankments of the landfill.
- 8.2.2 No waste shall be accepted at the landfill apart from inert waste conforming with a specification to be agreed in advance with the Agency for use in the restoration of the landfill site. No waste shall be disposed of at the landfill.
- 8.2.3 The final profile of the Coolcaslagh Landfill site shall be in accordance with the Restoration Plan agreed with the Agency. Within three months of agreement by the Agency of the Restoration Plan, the licensee shall submit details of landfilling to achieve the final landform to the Agency for its agreement.
- 8.2.4 Completed areas of the Coolcaslagh Landfill site 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.
- 8.2.5 No material or object that is incompatible with the proposed restoration of the site shall be present within one metre of the final soil surface levels.

Reason: To provide for decommissioning of the facility and aftercare of the site on which the facility is located.

Condition 9 ENVIRONMENTAL MONITORING

- 9.1 Subject to Condition 9.6, the licensee shall carry out such monitoring at such locations and frequencies as set out in Schedule E: *Monitoring* and in the conditions of this licence.
- 9.2 The licensee shall within three months from the date of grant of this licence, submit to the Agency for its agreement a drawing showing the monitoring locations of and twelve figure National Grid References for the following as appropriate:
- 9.2.1 the surface water and foul water emission points;
 - 9.2.2 a surface water monitoring point at a location upstream of the existing surface water and foul water emission points referred to in Condition 9.1;
 - 9.2.3 a surface water monitoring point on the perimeter drainage ditch at a point immediately upstream of its confluence with the Woodford river; and,

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- 9.2.4 an additional surface water monitoring at a point downstream of SW.2 as shown on Drawing No.99-01710 J.1.1 Rev. B (dated may 1999) Locations of Monitoring and Emission Points of information submitted to the Agency on 30 June 1999.

These locations once agreed shall be included in the environmental monitoring programme associated with the facility.

- 9.3 The licensee shall within three months of the date of grant of this licence submit to the Agency for its agreement the arrangements and appropriately scaled drawings for the following:
- 9.3.1 Noise and dust monitoring proposals associated with the proposed recovery of construction and demolition waste as shown on Drawing No. 2000-017-02 D.1.1 Rev.D - Site Layout Plan (revised 23.05.00) of the application;
 - 9.3.2 Noise monitoring proposals (including monitoring location(s)) for the nearest noise sensitive properties to the facility boundary; and,
 - 9.3.3 Biological monitoring of Woodford River at points upstream and downstream of the point(s) of discharge from the facility.
- 9.4 Within six months of the date of grant of this licence the licensee shall submit to the Agency an updated drawing(s) showing the location of all environmental monitoring locations and emission points associated with the facility. This shall be accompanied by a register of unique coded reference numbers and twelve-figure grid reference for each monitoring location.
- 9.5 The licensee shall provide and maintain all sampling and monitoring points so that they may be used for the representative sampling and monitoring of emissions from the facility.
- 9.6 The licensee shall provide safe and permanent access to all on-site and off-site sampling (subject to the agreement of the relevant landowners) and monitoring points as required by the Agency.
- 9.7 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 or discharge or environmental parameter.
- 9.8 The licensee shall amend the frequency, locations, methods and scope of monitoring, sampling, analyses and investigations 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.
- 9.9 Within two months of the date of grant of this licence the following information shall be submitted to the Agency for its agreement: the names, qualifications and a summary of relevant experience of all persons that will carry out all sampling and monitoring as required by this licence and who will 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.
- 9.10 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.
- 9.11 All on-site monitoring points shall be tagged in situ with their agreed sampling point codes within ten months of the granting of this licence.

Reason: To ensure compliance with the requirements of other conditions of this licence by provision of a satisfactory system of measurement and monitoring of emissions

Condition 10 CONTINGENCY ARRANGEMENTS

- 10.1 The licensee shall within six months of the date of grant of this licence, submit a written Emergency Response Procedure (ERP) to the Agency for its agreement. The ERP shall address any emergency situation which may originate on the facility and shall include an assessment of firewater risks and provision for minimising the effects of any emergency on the environment.
- 10.2 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 safely stored prior to disposal at an appropriate facility. A written record of the use and disposal of these items shall be maintained by the licensee.
- 10.3 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.
- 10.4 No waste shall be burnt within the boundaries of the facility. A fire at the facility shall be treated as an emergency. Immediate action shall be taken to extinguish it and the appropriate authorities notified.
- 10.5 In the event that a significant risk is found to exist for the release of contaminated fire-water, the licensee shall, based on the findings of the risk assessment, prepare and implement, with the agreement of the Agency, a suitable risk management programme. The risk management programme shall be fully implemented within the timescale as notified in writing by the Agency.
- 10.6 In the event of a complete breakdown of equipment or any other occurrence which results in the closure of the waste transfer station, any putrescible waste, other than waste stored at the proposed composting area, 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 waste transfer station is returned to a fully operational status. Such a breakdown event will be treated as an emergency and rectified as soon as possible.
- 10.7 In the event that any monitoring, sampling or observations indicate that an incident has, or may have, taken place, 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
 - c) isolate the source of the emission if any;
 - d) evaluate the environmental pollution, if any, caused by the incident;
 - e) identify and execute measures to minimise the emissions/malfunction and the effects thereof; and
 - f) provide a proposal to the Agency for its agreement within one month of notification to the Agency 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.

Reason: To provide for the protection of the environment.

Condition 11 CHARGES AND FINANCIAL PROVISIONS

- 11.1 Agency Charges

11.1.1 The licensee shall pay to the Agency an annual contribution of £9,431 or such sum as the Agency from time to time determines, towards the cost of monitoring the activity, as the Agency considers necessary for the performance of its functions under the Waste Management Act, 1996. The licensee shall in 2001 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 2000, the licensee shall pay a pro rata amount from the date of this licence to December 31 2000. This amount shall be paid to the Agency within one month of the date of grant of this licence.

11.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased due to an incident, or incidents, occurring on or adjacent to and associated with the facility, the licensee shall contribute such sums as determined by the Agency to defray its costs.

11.2 Environmental Liabilities

11.2.1 The licensee shall from a date to be set by the Agency, establish and maintain a fund, or written guarantee, that is adequate to assure the Agency that the licensee is at all times financially capable of implementing the Decommissioning and Aftercare Plan for the Transfer Station required by Condition 8.1 and the Conditioning Plan and associated works for the Coolcaslagh Landfill site required by Condition 8.2. The type of fund and means of its release/recovery shall be agreed by the Agency prior to its establishment.

11.2.2 The fund shall be maintained in an amount always sufficient to underwrite the current Decommissioning and Aftercare Plan.

11.2.3 The licensee shall revise the cost of decommission, restoration and aftercare annually and any details of the necessary adjustments to the fund must, within two weeks of the revision, be forwarded to the Agency for agreement. Any adjustment agreed by the Agency shall be effected within four weeks of said written agreement.

11.2.4 Unless otherwise agreed any revision to the fund shall be computed using the following formula:

$$\text{Cost} = (\text{ECOST} \times \text{WPI}) + \text{CiCC}$$

Where:

Cost = Revised decommission, restoration and aftercare cost

ECOST = Existing decommission, restoration and aftercare cost

WPI = Appropriate Wholesale Price Index [Capital Goods, Building and Construction (i.e. Materials and Wages) Index], as published by the Central Statistics Office, for the year since last closure calculation/revision.

CiCC = Change in compliance costs as a result of change in site conditions, changes in law, regulations, regulatory authority charges, or other significant changes.

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

SCHEDULE A : Content of the Environmental Management Programme

Environmental Management Programme

Items specified to be contained in an Environmental Management Plan in the Landfill Operational Practices Manual published by the Agency, or otherwise as agreed in writing with the Agency.

Timescale for achieving the objectives and targets listed in the Schedule of Objectives and Targets - (Separation and recovery of appropriate waste components).

Designation of Responsibility for Achieving Targets and Objectives.

Other items as specified in writing by the Agency.

SCHEDULE B : Content of the Annual Environmental Report

Annual Environmental Report Content

Reporting Period.

Waste activities carried out at the facility.

Quantity and Composition of waste received, disposed of and recovered during the reporting period and each previous year.

Projections of the quantities to be accepted and percentages disposed and recycled/ recovered for the coming year.

Summary report on emissions (Certified results/data sheets to be attached as Appendices) including wastes from silt traps and interceptor sumps.

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

Resource and energy consumption summary.

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

Schedule of Environmental Objectives and Targets for the forthcoming year.

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

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

Drum, tank and bund testing at least every third year.

Reported Incidents and Complaints summaries.

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

Any other items specified by the Agency.

SCHEDULE C : Recording and Reporting to the Agency

Table C.1 Recurring Reports:

Report	Reporting Frequency ^{Note1}	Report Submission Date
I. Monitoring (i) Noise monitoring (ii) Dust monitoring (iii) Surface water (iv) Biological Monitoring (v) Existing programme of surface water and groundwater monitoring programme associated with Coolcaslagh landfill. Note 2	Annually Annually Quarterly Annually Biannually	One month after the completion of the monitoring. One month after the completion of the monitoring. Ten days after end of quarter being reported on. One month after the completion of the monitoring One month after the completion of the monitoring.
II. Records of incidents	As they occur	See Conditions 3.3 and 3.4
III. Infrastructure		
(i) Bund and tank integrity assessment (ii) Weighbridge Accuracy Certification	Every third year Annually	Six months from the date of grant of licence and one month after the end of every year as specified in Condition 4.9.6 thereafter. Within one month of completion.
IV. Environmental Management System Updates	<i>Note 1</i>	One month after the end of each year being reported on.
(i) Environmental Management System (ii) Schedule of Objectives and targets (iii) Environmental Management Programme (iv) Annual Environmental Report	Annually Annually Annually Annually	
V. Financial		
(i) Financial Provision as per Conditions 11.2.1 and 11.2.2 (ii) Financial Provision as per Conditions 11.2.3 and 11.2.4	As agreed with the Agency As agreed with the Agency	Date to be agreed with the Agency Date to be agreed with the Agency

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

Note 2: Environmental monitoring programme agreed as part of the Conditioning Plan will replace this requirement once agreed with the Agency.



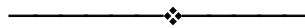
SCHEDULE D : Specified Engineering Works

The terms of Condition 4.17 shall apply to the Specified Engineering Works listed in Table D.1 unless stated otherwise.

Table D.1 Specified Engineering Works

Specified Engineering Works
Modifications to the security fencing and site security arrangements(CCTV)
Installation of bunded fuel storage area for fuel storage tank
Construction of waste inspection/ quarantine area
Installation of oil interceptor and silt traps on surface drainage network
Modifications to surface water drainage system
Installation of Effluent Storage Tank
Modifications to foul drainage system
Wheelwash and container cleaning proposals
Construction of new groundwater monitoring borehole and sealing/decommissioning of existing groundwater monitoring borehole GMW2
Installation of bunded fuel storage area for waste oil storage tank
Construction of storage area for white goods and degassing of CFC's from refrigerators
Construction of Composting area
Construction of area for recovery of construction and demolition waste
Works associated with the Conditioning Plan for Coolcaslagh Landfill site
Provision of in-situ tagging of monitoring points within ten months of the granting of this licence. (Note 1)
Any other works notified in writing by the Agency

Note 1: Not subject to Condition 4.17.1



SCHEDULE E : Monitoring

E.1: Dust

Monitoring shall be carried out at ST1, ST2 and as shown on Figure J.1.1 Location of Monitoring and Emission Points (dated may 1999) of information submitted to the Agency on 30 June 1999.

Table E.1.1 Dust Monitoring Locations

STATION
ST1
ST2
ST3
C&D Waste recovery area Note 1

Note 1: Grid reference for dust monitoring locations associated with the proposed area for the recovery of construction and demolition waste to be submitted to the Agency for agreement within three months of the date of grant of this licence (Condition 9.3.1).

The frequency of sampling and analysis is listed in Table E.1.2:

Table E.1.2 Dust Monitoring

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust	Three times per annum ^{Note 1}	Standard Method ^{Note 2}

Note 1: Twice during the period May to September, or as otherwise specified in writing by the Agency.

Note 2: Standard method VDI2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute) or an alternative agreed in writing with the Agency.



E.2: Noise

Monitoring shall be carried out at NS1, NS2 and NS3 as shown on Figure J.1.1 Location of Monitoring and Emission Points (dated May 1999) of information submitted to the Agency on 30 June 1999. Monitoring shall also be undertaken at the nearest noise sensitive locations to the facility at locations agreed in advance with the Agency and at location adjacent to the area for recovery of construction and demolition waste.

Table E.2.1 Noise Monitoring Locations

STATION
NS1
NS2
NS3
Noise Sensitive locations Note 1
C&D Waste recovery area Note 2

Note 1: Proposals for noise monitoring at the nearest noise sensitive locations to be submitted to the Agency for agreement within three months of the date of grant of this licence (Condition 9.3.2).

Note 2: Proposals for noise monitoring associated with the proposed area for the recovery of construction and demolition waste to be submitted to the Agency for agreement within three months of the date of grant of this licence (Condition 9.3.1).

The frequency of sampling and analysis is listed in Table E.2.2.

Table E.2.2 Noise Monitoring

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

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

E.3 Surface water

Monitoring shall be carried out at SW1, SW2 on the Woodford River as shown on Figure J.1.1 Location of Monitoring and Emission Points (dated May 1999) of information submitted to the Agency on 30 June 1999. Monitoring shall also be undertaken at a point downstream of SW2 and at a point on the perimeter drainage ditch prior to its confluence with the Woodford River.

Table E.3.1 Surface Water Monitoring Locations

STATION
SW1
SW2
Location downstream of SW2 ^{Note 1}
Perimeter drainage ditch ^{Note 2}

Note 1: Location and Grid reference for surface water monitoring location at a point downstream

of SW2 to be submitted to the Agency for agreement within three months of the date of grant of this licence (Condition 9.2.4).
 Note2: Surface water monitoring location at point on the perimeter drainage ditch immediately upstream of its point of confluence with the Woodford River to be submitted to the Agency for agreement within three months of the date of grant of this licence (Condition 9.2.3)

The frequency and method of sampling and analysis are listed in Table E.3.2

Table E.3.2 Surface Water Monitoring

Parameter	Monitoring Frequency	Analysis Method/Technique
Visual Inspection	Weekly	Not applicable
Ammoniacal Nitrogen	Quarterly	ISE / Colorimetry
BOD	Quarterly	Electrometry / Titrimetry with nitrification inhibitor
COD	Quarterly	Digestion + Colorimetry/Titrimetry
Chloride	Quarterly	Colorimetry / Ion Chromatography
Dissolved Oxygen	Quarterly	Electrometry
Electrical Conductivity	Quarterly	Electrometry
pH	Quarterly	Electrometry
Total Suspended Solids	Quarterly	Gravimetry
Temperature	Quarterly	Thermometry
Coliforms (total, faecal)	Annually	Membrane filtration or MPN using referenced procedures
Biological monitoring ^{Note 1}	Annually	Note 2

Note 1: Biological monitoring of Woodford River at points upstream and downstream of the point(s) of discharge from the facility to be submitted to the agency for agreement within three months of the date of grant of the licence (condition 9.3.3).

Note 2: Appropriate biological method (such as EAP Q-Rating System used for the assessment of rivers and streams).

E.4 Foul Water

Monitoring of foul water shall be carried out at the point of discharge of foul water from the facility the exact location of which is to be submitted to the Agency for agreement within three months of the date of grant of this licence (Condition 9.2.1) and at the Effluent Storage Tank shown in Drawing No.2000-017-02 D1.1. Rev.D (dated 23.05.00) Site Layout Plan following its commission.

The frequency and method of sampling and analysis are listed in Table E.3.3

Table E.4.1 : Foul water Monitoring (Note 1)

Parameter	Monitoring Frequency	Analysis Method/Technique
Ammoniacal Nitrogen	Quarterly	ISE / Colorimetry
BOD	Quarterly	Electrometry / Titrimetry with nitrification inhibitor
Fats, oils, grease	Quarterly	Extraction with solvent and gravimetry
Odour / Visual Inspection	Quarterly	Not applicable
pH	Quarterly	Electrometry
Suspended Solids	Quarterly	Gravimetry

Note 1: This monitoring shall apply to the point of discharge of foul water prior to the commissioning of the Effluent Storage Tank required by Condition 4.14.1

E.5 Landfill Gas

Landfill gas monitoring locations shall be those as set out in Table E.5.1.

Table E.5.1 Landfill Gas Perimeter Monitoring Locations

Station	Easting	Northing
See Note 1	See Note 1	See Note 1

Note 1. Locations to be agreed under Condition 8.2.1. Grid references to be submitted.

Table E.5.2 Landfill Gas Monitoring Frequency and Technique

Parameter	Monitoring Frequency		Analysis Method ^{Note1} /Technique ^{Note2}
	Gas Boreholes/ Vents/Wells	Site Office	
Methane (CH ₄) % v/v	Monthly	Weekly	Infrared analyser/flame ionisation detector
Carbon dioxide (CO ₂)%v/v	Monthly	Weekly	Infrared analyser/ flame ionisation detector
Oxygen (O ₂) %v/v	Monthly	Weekly	Infrared analyser
Atmospheric Pressure	Monthly	Weekly	Standard
Temperature	Monthly	Weekly	Standard

Note1: All monitoring equipment used should be intrinsically safe.

Note 2: Or other methods agreed in advance with the Agency.

SCHEDULE F : Emission Limits

F.1 Dust Deposition Limits

(Measured at the dust monitoring points, ST1,ST2, ST3 and shown on Figure J.1.1(dated May 1999) of information submitted to the Agency on 30 June 1999 and referred to in Table E.1.1. In addition, these limits will also apply to the monitoring locations associated with the area for recovery of construction and demolition waste

Table F.1 Dust Deposition Limits

Level (mg/m ² /day) ^{Note 1}
350

Note 1: Based on a 30 day composite sample with the results expressed as mg/m² /day at the monitoring points specified in Table F.1.1 of this licence.

F.2 Noise Emissions

Measured at the noise monitoring points NS1,NS2, and NS3 shown on Figure J.1.1 (dated May 1999) of information submitted to the Agency on 30 June 1999 and referred to in Table E.2.1. In addition, these limits will also apply to the monitoring locations associated with the area for recovery of construction and demolition waste.

Table F.3 Noise Emission Limits

Day dB(A) L _{Aeq} (30 minutes)	Night dB(A) L _{Aeq} (30 minutes)
55	45

◆

F.3 Landfill Gas Concentration Limits: (Measured in any building on or adjacent to the facility).

Table F.4 Landfill Gas Emission Limits

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

SCHEDULE G : Waste Types and Quantities

Table G.1 Waste Types

Waste Type	Maximum Quantity tonnes Per Annum*
Municipal,	19,000
Wastes for recovery /recycling at the civic waste facility	500
Organic waste for composting	3,000
Construction and demolition waste,	1,000
Old landfill:	Quantity of inert waste for restoration of landfill to be agreed in advance with the Agency.

◆

Part III: Activities Refused

In pursuance of the powers conferred on it by the Waste Management Act 1996, the Environmental Protection Agency (the Agency) proposes, under Section 40 to refuse the following classes of activity.

Refused classes of activity in accordance with the Fourth Schedule of the Waste Management Act 1996

Class 8: Oil re-refining or other re-uses of oil

REASON: No relevant proposals were included in the licence application.

Signed on behalf of the Agency:
on the 19th day of July, 2000

Larry Kavanagh Authorised Person