

APPLICATION

Ву

Donegal County Council

toposes of

Environmental Protection Agency

for

Waste Licence Review

W0024-02

Ballynacarrick Landfill Site, Ballintra County Donegal

ATTACHMENTS TO SECTION B

General

ATTACHMENTS TO SECTION B **GENERAL**

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An Bord Pleanála Planning Decision

Newspaper Advertisement and Site Notice Philipped Properties

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RPS Consulting Engineers

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ATTACHMENTS TO SECTION B

Attachment B.1 Applicant Details

Donegal County Council owns the site. (See Drawing No IBL0266/100 Ownership Plan).

Attachment B.2 Location of Activity

The site is located in the town land of Ballynacarrick, near Ballintra, Co Donegal and occupies an area of approximately 9 hectares. The landfill site was opened in 1980 and a Waste Licence (W024-01) was granted for 24,000 tonnes per annum of non hazardous waste in December 2000 by the Environmental Protection Agency (EPA) under Section 40(1) of the Waste Management Act, 1996. A review of the licence was undertaken to expand the landfill westwards and the EPA granted the existing Waste licence W0024-02 in December 2004. The Site has been operated since opening by a Contractor on behalf of Donegal County Council.

The following Drawings have been included in Part III of the Waste Licence Application.

Drawing No IBL0266/101 Site Plan
Drawing No IBL0266/102 Location Map
Drawing No IBL0266/103 Services Plan

Attachment B.3 Planning Authority

Planning permission was received from An Bord Pleanála (05.EL2025) on the 15th July 2004. A review of the waste licence was also undertaken in 2004. An Bord Pleanála decision and Waste Licence W0024-02 have been included in Appendix B.

In accordance with letter received from the EPA (Dated 16th February, 2007) Donegal County Council have contacted An Bord Pleánala with regards to the need for a new Environmental Impact Statement for the proposed development alteration. The letter to and from An Bord Pleánala requiring this confirmation is included in Appendix B.

Attachment B.4 Sanitary Authority

Leachate is transported to Letterkenny Waste Water treatment Works which is operated, by the County Council and therefore no discharge licence or agreement is required.

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Status: Final

Date: November 2007



Attachment B.5 Other Authorities

Not applicable

Attachment B.6 Notices and Advertisement

Refer to the following Drawing, which is included in Part III of the Waste Licence Application.

Drawing No IBL0266/104 Site Notice Location

The newspaper with the original application and copies of the site notice and newspaper advert are provided overleaf. The newspaper advertisements were placed in the following newspapers.

Donegal Democrat, Thursday 22nd November, 2007

Attachment B.7.1 Type of Activity, Tonnages & Fees

The classes of Waste Disposal Activities under the Third and Fourth Schedule to the Waste Management Act 1996 to 2003 as outlined in Table B. The the waste licence application are listed below with the principal activity and a description of the other activities specified. These remain unchanged from the current licence.

Principal Activity

Third Schedule

Class 5: Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.

Other Activities

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 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.

Fourth Schedule

Class 2: Recycling or reclamation of organic substances which are not used as solvents

(including composting and other biological transformation processes).

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

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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.

Attachment B.7.2 **Maximum Annual Tonnage**

No further information required.

Attachment B.7.3 **Fees**

Fees payable to the Agency for a waste licence application for the disposal of waste at a landfill facility where the annual intake is likely to exceed 20,000 tonnes but be less than 40,000 tonnes is €20,000 as per Second Schedule of S1 No 395 of 2004.

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Seveso II Directive in the required for any other tree.

Consent of condition the required for any other tree. Fees payable to the Agency for a waste licence application for the recovery of waste is €6,000 as per Second Schedule of S1 No 395 of 2004.

Attachment B.7.4

No further information required.

Attachment B.8

Not Applicable.

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APPENDIX B

Letters to/from EPA

Letters to/from an Board Pleanala

Copy of existing Waste Licence W0024-02

An Bord Pleanála Planning Decision

Copy of Donegal Democrat Newspaper Advertisement and Site Notice

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APPENDIX B

Letters to/from EPA Letters to/from an Board Pleanala

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Status: Final

November 2007 Date:







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Our Ref: BL568630/DD/Corr/D E-mail:donal.doyle@rpsgroup.com

Direct Dial: 0035374 9161927

Date:

29 January 2007

Environmental Protection Agency Headquarters Office of Licensing and Guidance PO Box 3000 Johnstown Castle Estate County Wexford



Dear Sir/ Madam

BALLYNACARRICK LANDFILL SITE (WASTE LICENCE NO. W0024-02)

We refer to the following correspondences which have been enclosed for your information:

- Letter from the Office of Environmental Enforcement (Castlebar) dated the 17th October 2006 (Ref W0024-02/WL24-2(05)GEN23MM.doc) and
- Donegal County Council's reply of the 27th October 2006.

We write to inform you that Donegal County Council intend to undertake a review or an amendment (which ever is deemed applicable) of Waste Licence No. W0024-02 (Landfill for Non Hazardous Waste) for Ballynacarrick Landfill Site in relation to the following conditions:

- 1) Schedule A An increase in the waste acceptance tonnage from 24,000 tonnes per annum to 35,000 tonnes per annum, and
- Condition 4.2 A review of the final profile of the restoration contours of the site.

In accordance with Article 2 sub-article 3(a)(iii) of the Waste Management (Licensing) Regulations 2004 (S.I. No. 395 of 2004), please could the Agency specify in writing the extent and manner of the information it considers necessary for the purpose of the proposed review or if applicable an amendment in accordance with Section 38 of the Protection of the Environment Act ("Amendment of waste licence of clerical or technical nature").

An Environmental Impact Assessment (EIS) was prepared in November 2003 for the Waste Licence Review for the site. Included in the EIS were the following assessments:

Landscape and Visual: The landscape and visual impact assessment considered the impact of the development on the landscape and visual character, and on views of it. It is considered that an increase in the maximum height of 2-3m would be adequate.

Air and Climate: GasSim Modeling undertaken indicted that the landfill gas emission peak is predicated for 2010, with a rate of 430m³/hr. A 500m³/hr enclosed landfill gas flare has been installed at the facility. This flare capacity is considered sufficient to deal with the annual increase in the tonnage of waste to be accepted.



Traffic Impact Assessment (TIA): The TIA undertaken provided a sensitivity test with an additional 14,000 tonnes included and therefore we consider that this assessment is sufficient.

Noise: The noise arising from traffic was undertaking using the worst case scenario and therefore we consider that this assessment is sufficient.

Operational hours at the facility will remain unchanged.

Please could the Agency specify whether a review or amendment of the licence is required and extent and manner of the information it considers necessary for this purpose.

If you have any queries in relation to this do not hesitate to contact me.

Yours faithfully

For its region butter required for any other use. for RPS Consulting Engineers

Donal Doyle

Technical Director

Enc

cc: Dr Michael Henry

Mr Peadar McRory

Ms Julie McMahon

OEE Castlebar

Donegal County Council

Donegal County Council



Mr Donal Doyle
Technical Director
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LoCall: 1890 33 55 99

16 February 2007

Reg. No: W0024-02

Dear Mr Doyle

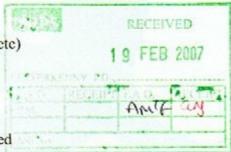
I refer to your letter dated 29 January 2007 requesting a review of Waste Licence W0024-02 in accordance with Article 12 of the Waste Management (Licensing) Regulations, 2004 (S.I. 395 of 2004).

I am to advise that based on the information provided the Agency has determined that a review of Waste Licence W0024-02 is necessary and that an application for a review should be submitted to the Agency. This review is necessary in the light of changes to the following:

- Schedule A an increase in the waste acceptance tonnage from 24,000 tonnes per annum to 35,000 per annum and,
- (2) Condition 4.2 a review of the final profile of the restoration contours of the site.

For the purposes of this review you are required to use the Agency's application form for a review of a Waste licence. The Application form is available to download from the Agency's website: http://www.epa.ie/Licensing/WasteLicensing/ApplicationFormsGuidanceDocuments/. Please refer to Article 12 (1) and Article 12 (3) of the Waste Management (Licensing) Regulations 2004, when completing your application. The information as requested in Article 12(1) will have to be covered, but the detail necessary will be influenced by the scope of alterations proposed in (1) and (2) above. In particular, your application is required to address:

- · Details of the implications of the increased annual intake for:
 - > odour and dust management
 - handling capacity (weighbridge, compactors, covering, etc)
 - leachate and gas generation and management
 - > landfill construction sequencing
- Details of the type and source of additional wastes to be accepted
- Statement as to how the applicant intends to demonstrate compliance with the waste acceptance obligations in the Landfill Directive, and also as to how the applicant intends to comply with the National Bio-Waste Strategy



- · Details of revised finished levels (post-restoration) contour maps for the amended finished profile, to include any changes to the restoration plans.
- Details of an engineering assessment of the stability implications for the new finished levels.
- Details of any implications of the new finished levels for storm-water management.
- Submit confirmation from An Bord Pleánala that a new EIS is not required for the proposed development alteration.

I should also advise that in accordance with Article 12(4) of the Waste Management (Licensing) Regulations 2004, you are required to do the following:

o publish a notice advising that an application is to be made to the Agency for a review of your existing licence in a newspaper circulating in the district in which the activity is situated. You are requested to publish this notice within the period of two weeks before the submission of your application. Please forward a copy of this publication to the Agency with the information requested above.

All information and data should be submitted in the following format one original, 2 hard copies and 2 copies on CD-ROM in electronic searchable PDF format.

I am also to advise that your application is to be accompanied by the appropriate fee (as outlined in Consent of copyright owner required i the Waste Management (Licensing) Regulations, SI 395 of 2004).

Yours sincerely

Office of Licensing & Guidance





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Our Ref: IBL0266/Corr/DD/D

E-mail:donal.doyle@rpsgroup.com Direct Dial: 0035374 9161927

Date:

31 August 2007

An Bord Pleanála 64 Marlborough Street Dublin 1



Dear Sir/Madam

BALLYNACARRICK LANDFILL SITE, BALLINTRA, CO. DONEGAL

An Environmental Impact Statement (EIS) for an extension to Ballynacarrick Landfill site, Ballintra, Co. Donegal was prepared for statutory consents for submission to An Bord Pleanála and to support a Waste Licence review application to the Environmental Protection Agency (EPA) in November 2003. Approval of this EIS was granted by An Bord Pleanála (05.EL2025) on the 15th July 2004 and subsequently a revised Waste Licence (W0024-02) was issued by the EPA in December 2004.

Donegal County Council have contacted the EPA in relation to a proposal to review certain operating restrictions in the Waste Licence No. W0024-02 (Landfill for Non Hazardous Waste) for Ballynacarrick Landfill Site in relation to the following conditions:

- 1) Schedule A An increase in the waste acceptance tonnage from 24,000 tonnes per annum to 35,000 tonnes per annum tonnes per ann
- 2) Condition 4.2 A review of the final profile of the restoration contours of the site.

As a result the EPA have reguested that Donegal County Council seek confirmation from An Bord Pleanála that a new EIS is not required for the proposed development alterations. A copy of this letter dated 16th February 2007 is enclosed for your information.

Included in the original EIS were the following assessments:

Landscape and Visual: The landscape and visual impact assessment considered the impact of the development on the landscape and visual character, and on views of it. It is considered that an increase in the maximum height of 2m would be adequate.

Air and Climate: GasSim Modelling undertaken indicted that the landfill gas emission peak is predicated for 2010, with a rate of 430m³/hr. A 500m³/hr enclosed landfill gas flare has been installed at the facility. This flare capacity is considered sufficient to deal with the annual increase in the tonnage of waste to be accepted.

Traffic Impact Assessment (TIA): The TIA undertaken provided a sensitivity test with an additional 14,000 tonnes included and therefore we consider that this assessment is sufficient.



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31 August 2007

Noise: The noise arising from traffic was undertaking using the worst case scenario and therefore we consider that this assessment is sufficient.

Operational hours and the footprint of the facility will remain unchanged.

The proposed final contours of the facility are shown in Drawing IBL0266/001 Restoration contours which has been enclosed for your information. It is estimated that this will provide an additional 70,000 m³ capacity at the facility.

We would be grateful if you could you confirm as to whether a new EIS is required for this review.

Consent of copyright owner required for any other use. If you have any queries please do not hesitate to contact us.

Yours sincerely

for RPS Consulting Engineers

Donal Doyle

Technical Director

Enc

Mr Donal Casey (Donegal County Council) CC

Mr Peadar McRory (Donegal County Council)

Ms Julie McMahon (Donegal County Council)

EPA Export 25-07-2013:22:27:40

RPS Kirk McClure Morton, Enterprise Business Fund Centre, Unit 6a, Ballyraine, Co. Donegal.

5th September 2007

Re:

Ballynacarrick Landfill Site, Ballintra, Co. Donegal

Dear Sir/Madam,

An Bord Pleanála has received your letter seeking a direction from the Board in relation to the preparation of an environmental impact statement in respect of the above-mentioned proposed development.

The matter is receiving attention.

If you have any queries in relation to the matter please contact the undersigned officer of the Board.

Please quote the above-mentioned An Bord Pleanála reference number in any correspondence or telephone contact with the Board.

Yours faithfully,

Stephen Sutton

Administrative Assistant

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An Bord Pleanála



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64 Sraid Maoilbhride, Baile Átha Cliath 1.

Tel: (01) 858 8100 LoCall: 1890 275 175 Fax: (01) 872 2684 Web,http://www.pleanala.ie email:bord@pleanala.ie

64 Marlborough Street, Dublin 1

APPENDIX B

Copy of existing Waste Licence W0024-02

An Bord Pleanála Planning Desision

oning De oning De to inspection purposes only and for any consent of copyright owner required for copyright owner require

IBL0266 /Reports/Waste Licence Review

Status: Final

November 2007 Date:



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

WASTELICENCE

LANDFILL FOR NON-HAZARDOUS WASTE

Waste Licence 24-2

Register Number:

Licensee: Donegal County Council

Location of Facility: Ballynacarrick, Ballintra, County Donegal.

INTRODUCTION

A review of the licence is sought at Ballynacarrick Landfill, Co. Donegal to expand the landfill westwards, construct four new lined cells and extend same boundary. The same annual waste intake tonnage of 24,000 tonnes per annum has been applied for.

The licensee is required to install, *inter alia*, a landfill gas collection and flaring system immediately.

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 does not authorise the extension of the landfill into any additional unlined areas.

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

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DECISION & REASONS FOR THE DECISION

Reasons for the Decision

On the basis of the information before it, the Environmental Protection Agency (the Agency) is satisfied, for the reasons set out in the following Schedule of Activities Licensed, that the requirements of Section 40(4) of the Waste Management Acts 1996 to 2003 have been complied with in respect of the application for a waste licence for the activities listed hereunder in Part I.

In reaching this decision the Agency has considered the application and supporting documentation received from the applicant, one submission received and the report of its inspector.

No objection having been received to the Proposed Decision, the licence is granted in accordance with the terms of the Proposed Decision and the reasons therefor.

INTERPRETATION

All terms in this licence should be interpreted in accordance with the definitions in the Waste Management Acts 1996 to 2003 (the Act), unless otherwise defined in this section.

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

Adequate lighting 20 lux measured at ground level.

Agreement Agreement in writing.

Annually At approximately twelve monthly intervals.

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

as part of the waste licence application 24-2.

Application The application of the licensee for this waste licence.

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

technically suitable.

Best Evailable Techniques as defined in Article 2(11) of Council Directive

BAT 96/61/EC concerning integrated pollution prevention and control.

BES Bentonite Enhanced Soils.

Biodegradable Any waste that is capable of undergoing anaerobic or aerobic decomposition,

such as food, garden waste, sewage sludge, paper and paperboard.

CEN Comité Européen De Normalisation – European Committee for

Standardisation

Condition A condition of this licence.

Construction and All wastes which arise from construction, renovation and demolition

Demolition Waste activities.

waste

Containment boom A boom which can contain spillages and prevent them from entering drains or

watercourses.

Cover material Bricks, crushed concrete, tarmac, earth, soil, sub-soil, stone, rock or other

similar natural materials; or

other cover material the use of which has been agreed by the Agency.

Daily Cover

Is the term used to describe material spread (about 150mm if soil cover is used) over deposited waste at the end of each day. Synthetic materials may also be used. Its objective is to minimise odour, the amount of litter generated and to control flies and access to the waste by birds and vermin. Where soils are used for daily cover, it is recommended that they be removed at the start of the day and subsequently reused as much as possible.

Daytime

0800 hrs to 2200 hrs.

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.

Emergency

Those occurrences defined in Condition 9.4.

Emission Limits

Those limits, including concentration limits and deposition levels established in *Schedule C: Emission Limits*, of this licence.

European Waste Catalogue (EWC)

A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 94/3/EC and any subsequent amendment published in the Official Journal of the European Community.

Foul water

Sewage and drainage from waste transfer building, wheelwash, truck wash, ramp, weighbridges vehicle cleaning and ejector trailer parking areas and runoff from hardstanding areas associated with waste processing.

Green waste

Waste wood (excluding timber), plant matter such as grass cuttings, and other vegetation.

Hours of Operation

The hours during which the facility is authorised to be operational. The hours of operation of a facility are usually longer than the hours of waste acceptance to facilitate preparatory and completion works, such as the removal and laying of daily cover. Different activities within the facility, such as the landfill and the civic waste facility, may have different hours of waste acceptance.

Hours of Waste Acceptance The hours during which the facility is authorised to accept waste. Different activities within the facility, such as the landfill and the civic waste facility, may have different hours of waste acceptance.

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 licence;
- any exceedance 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.

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 Means such works, actions or constructions as may be specified, which for the Works

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.

Intermediate Cover Refers to placement of material (minimum 300mm if soil is used) for a period

of time prior to restoration or prior to further disposal of waste.

Landfill Refers to the area of the facility where the waste is disposed of by placement

on the ground or on other waste.

Landfill Gas Gases generated from the landfilled waste.

LEL (Lower **Explosive Limit)** The lowest percentage concentration by volume of a mixture of flammable gas with air which will propagate a flame at 25°C and atmospheric pressure.

Licence A waste licence issued in accordance with the Act.

Licensee Donegal County Council

List I/II Organics Substances classified pursuant to EC Directives 76/464/EEC and 80/68/EEC.

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

tankered to the facility.

Maintain Keep in a fit state, including such regular inspection, servicing and repair as

may be necessary to adequately perform its function.

Mobile Plant Self-propelled machinery used for the emplacement of wastes or for the

construction of specified engineering works.

A minimum of 12 times pervear, at approximately monthly intervals. Monthly

Night-time 2200 hrs to 0800 hrs

Noise Sensitive

Any dwefting house, hotel or hostel, health building, educational Location 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

Non-hazardous Asbestos Waste Includes bonded asbestos, such as tiles, which are not classified as hazardous

waste and which are authorised for disposal at the facility.

Recyclable Materials

Those waste types, such as cardboard, batteries, gas cylinders, etc which may

be recycled.

Quarterly At approximately three monthly intervals.

Sample(s) Unless the context of this licence indicates to the contrary, samples shall

include measurements by electronic instruments.

SCADA system Supervisory Control and Data Acquisition system.

Sludge The accumulation of solids resulting from chemical coagulation, flocculation

and/or sedimentation after water or wastewater treatment with greater than 2%

dry matter.

SOP Standard Operating Procedure.

Specified Emissions Those emissions listed in *Schedule C: Emission Limits*, of this licence.

Specified Those engineering works listed in Schedule B: Specified Engineering Works, Engineering Works of this licence.

TOC Total Organic Carbon.

Treated Sludge Sludge which has undergone biological, chemical or heat treatment, long-term

storage or any other appropriate process so as significantly to reduce its

fermentability and the health hazards resulting from its use.

Treatment Treatment means the physical, thermal, chemical or biological processes,

including sorting, that change the characteristics of the waste in order to reduce its volume or hazardous nature, facilitate its handling or enhance

recovery.

Trigger Level A parameter value specified in the licence, the achievement or exceedance of

which requires certain actions to be taken by the licensee.

White Goods Refrigerators, cookers, ovens and other similar appliances.

EPA Working Day Refers to the following hours: 0900 hrs to 1730 hrs Monday to Friday

inclusive.

Working Face The area of the site in which waste other than cover material or material for

the purposes of the construction of specified engineering works is being

deposited.

Corsent of copyright owner required for any other use.

Part I: Schedule of Activities Licensed

On the basis of the information before it, the Agency, pursuant to its powers under Section 46(2) of the Waste Management Acts 1996 to 2003, hereby grants this Waste Licence to Donegal County Council to carry on the waste activities, that are the subject of Waste Licence Application Register Number 24-2 listed below at Ballynacarrick Landfill, Ballynacarrick, Ballintra, Co. 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 (SI 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 2003

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 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 2003

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

Part II: Schedule of Activities Refused

On the basis of the information before it, the Agency, pursuant to its powers under Section 46(2) of the Waste Management Acts 1996 to 2003 hereby refuses the following classes of activities that are the subject of Waste Licence Application Register No. 24-2.

Refused waste disposal activities, in accordance with the Third Schedule of the Waste Management Acts 1996 to 2003

Class 2	Land treatment, including biodegradation of liquid or sludge discards in soils:	
	Reason: The recirculation of leachate in the landfill requires Agency agreement and is an activity which falls under the Third Schedule, Class 5, and not this activity as was applied for.	
Class 4	Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons:	
	Reason: The existing landfill no longer has the infrastructure of surface impoundment, pits, ponds or lagoons. Leachate treatment/storage is specified in the licence and is a Third Schedule, Class 6 & 13, activity.	

Consent of copyright owner required for any other use.

PART III CONDITIONS

CONDITION 1 SCOPE OF THE LICENCE

- 1.1. Waste activities at the facility shall be restricted to those listed and described in *Part I: Schedule of Activities Licensed* and authorised by this licence.
- 1.2. For the purposes of this licence, the facility is the area of land outlined in red on Drawing No. 5234.08/202 Attachment J of the application. Any reference in this licence to "facility" shall mean the area thus outlined in red.
- 1.3. This licence is for the purposes of waste licensing under the Waste Management Acts 1996 to 2003 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.4. Municipal Waste, Commercial Waste and Industrial Waste may be recovered and disposed of at the facility subject to the maximum quantities and other constraints listed in *Schedule A: Waste Acceptance*, of this licence.
- 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 0830 to 1700 Monday to Friday inclusive and 0900 to 1300 on Saturdays.
 - 1.5.1.2. The landfill at the facility may be operated only during the hours of 0800 to 1800 Monday to Friday inclusive and 0800 to 1300 on Saturdays.
 - 1.5.1.3. Waste shall not be accepted at the landfill on Bank Holidays.
 - 1.5.2. Civic Waste Facility
 - 1.5.2.1. Waste shall be accepted at the Civic Waste Facility only between the hours of 0830 to 1700 Monday to Friday inclusive and 0900 to 1300 on Saturdays.
- 1.6. Every plan, programme or proposal submitted to the Agency for its agreement pursuant to any condition of this licence shall include a proposed timescale for its implementation. The Agency may modify or alter any such plan, programme or proposal in so far as it considers such modification or alteration to be necessary and shall notify the licensee in writing of any such modification or alteration. Every such plan, programme or proposal shall be carried out within the timescale fixed by the Agency but shall not be undertaken without the agreement of the Agency. Every such plan, programme or proposal agreed by the Agency shall be covered by the conditions of this licence.
- 1.7. This licence (Register No: 24-2) is being granted in substitution for the waste licence granted to the licensee on 7 December 2000 and bearing Waste Licence Register No: 24-1. The previous waste licence (Register No: 24-1) is superseded by this licence.

REASON: To clarify the scope of this licence.

CONDITION 2 MANAGEMENT OF THE FACILITY

2.1 Facility Management

- 2.1.1 The licensee shall employ a suitably qualified and experienced facility manager who shall be designated as the person in charge. The facility manager or a nominated, suitably qualified and experienced, deputy shall be present on the facility at all times during its operation.
- 2.1.2 The Civic Waste Facility shall be supervised by an appropriately qualified and competent person at all times while waste may be accepted.
- 2.1.3 Both the facility manager and deputy, and any replacement manager or deputy, shall successfully complete both the FAS Waste Management Training Programme (or equivalent agreed by the Agency) and associated on site assessment appraisal within twelve months of appointment.
- 2.1.4 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience, as required and shall be aware of the requirements of this licence.

2.2 Management Structure

- 2.2.1 The licensee shall submit written details of any proposed replacement in the management structure to the Agency. Written details of the management structure shall include the following information:
 - a) The names of all persons who are to provide the management and supervision of the waste activities authorised by the licence, in particular the name of the facility manager and any nominated deputies;
 - b) Details of the responsibilities for each individual named under a) above; and
 - c) Details of the relevant education, training and experience held by each of the persons nominated under a above.
- 2.3 Environmental Management System (EMS)
 - 2.3.1 The licensee shall maintain an Environmental Management System (EMS). Within six months from the date of grant of this licence, the licensee shall submit to the Agency for its agreement, a proposal for the updating (where appropriate) of the documented EMS for the facility. The EMS shall be updated on an annual basis with amendments being submitted to the Agency for its agreement, as part of the Annual Environmental Report.
 - 2.3.2 The EMS shall include as a minimum the following elements.
 - 2.3.2.1 Schedule of Environmental Objectives and Targets

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

2.3.2.2 Environmental Management Plan (EMP)

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

 The items specified to be contained in an Environmental Management Plan in the Landfill Operational Practices Manual published by the Agency;

- Methods by which the objectives and targets will be achieved and the identification of those responsible for achieving those objectives and targets; and
- c) Any other items required by written guidance issued by the Agency.

2.3.2.3 Corrective Action Procedures

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

2.3.2.4 Awareness and Training Programme

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

2.4 Communications Programme

2.4.1 The licensee shall establish and maintain a Communications Programme to ensure that members of the public can obtain information at the facility, at all reasonable times, concerning the environmental performance of the facility.

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

CONDITION 3 FACILITY INFRASTRUCTURE

- 3.1 The licensee shall establish all infrastructure referred to in this licence as required by the conditions of this licence.
- 3.2 Phased Construction Plan
 - 3.2.1 Three months prior to the commencement of any 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. 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 medium and long term screening of the completed cells.

3.3 Specified Engineering Works

- 3.3.1 The licensee shall submit proposals for all Specified Engineering Works, as defined in *Schedule B: Specified Engineering Works*, of this licence, to the Agency for its agreement at least two months prior to the intended date of commencement of any such works. No such works shall be carried out without the prior agreement of the Agency.
- 3.3.2 All specified engineering works shall be supervised by a competent person(s) and that person, or persons, shall be present at all times during which relevant works are being undertaken.
- 3.3.3 Following the completion of all specified engineering works, the licensee shall complete a construction quality assurance validation. The validation report shall be made available to the Agency on request. The report shall include the following information:
 - a) A description of the works;

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

3.4 Facility Notice Board

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

3.5 Facility Security

- 3.5.1 Security and stockproof fencing and gates shall be installed and maintained as described in Attachment D. 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.
- 3.5.2 The licensee shall remedy any defect in the gates and/or fencing as follows:
 - a) A temporary repair shall be made by the end of the working day; and
 - b) A repair to the standard of the original gates and/or fencing shall be undertaken within three working days.
- 3.6 Facility Roads and Hardstanding
 - 3.6.1 Effective site roads shall be provided and maintained to ensure the safe movement of vehicles within the facility.
 - 3.6.2 The facility entrance area, the Civic Waste Facility and Recycling Area shall be paved.
- 3.7 Facility Office
 - 3.7.1 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.
 - 3.7.2 The licensee shall provide and maintain a working telephone and a method for electronic transfer of information at the facility.

- 3.8 Waste Inspection and Quarantine Areas
 - 3.8.1 A Waste Inspection Area and a Waste Quarantine Area shall be provided and maintained at the facility.
 - 3.8.2 These areas shall be constructed and maintained in a manner suitable, and be of a size appropriate, for the inspection of waste and subsequent quarantine if required. The waste inspection area and the waste quarantine area shall be clearly identified and segregated from each other.
 - 3.8.3 Drainage from these areas shall be directed to the oil interceptor.
- 3.9 Weighbridge and Wheel Cleaner
 - 3.9.1 The licensee shall provide and maintain a weighbridge and a wheel cleaner at the facility.
 - 3.9.2 The wheel cleaner 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 wastewater treatment system via the oil interceptor.
- 3.10 Foul Water Treatment Plant
 - 3.10.1 The licensee shall provide and maintain a Foul Wastewater Treatment plant at the facility for the treatment of foul wastewater arising on-site. Any percolation area shall satisfy the criteria set out in the *Wastewater Treatment Manual, Treatment Systems for Single Houses*, published by the Environmental Protection Seency.
- 3.11 Tank and Drum Storage Areas
 - 3.11.1 All tank and drum storage areas shall be tendered impervious to the materials stored therein.
 - 3.11.2 All tank and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:-
 - (a) 110% of the capacity of the largest tank or drum within the bunded area; or
 - (b) 25% of the total volume of substance which could be stored within the bunded area.
 - 3.11.3 All drainage from bunded areas shall be diverted for collection and safe disposal.
 - 3.11.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
 - 3.11.5 The integrity and water tightness of all the bunds and their resistance to penetration by water or other materials stored therein shall be confirmed by the licensee and shall be reported to the Agency following its installation and prior to its use as a storage area.

This confirmation shall be repeated at least once every three years thereafter and reported to the Agency on each occasion.

3.12 Landfill Lining

- 3.12.1 Unless otherwise agreed in writing, the landfill lining system, as shown in Figure 6.3 of the EIS, shall comprise:
 - a) A 300mm thick groundwater drainage layer placed at the base of the composite liner, with a minimum hydraulic conductivity of 1 x 10⁻³ m/s, of pre-washed, uncrushed, granular, rounded stone (16 - 32mm grain size) incorporating groundwater collection drains, as specified in Section 6.10 of the EIS.

- A composite liner consisting of a 0.5m layer of BES with a hydraulic conductivity of less than or equal to 1x10⁻¹⁰m/s overlain by a 2mm thick high density polyethylene (HDPE) layer;
- A geotextile protection layer placed over the HDPE layer of sufficient thickness to protect the liner from the overlying drainage blanket;
- d) A 500mm thick drainage layer placed over the geotextile layer with a minimum hydraulic conductivity of 1 x 10⁻³ m/s, of pre-washed, uncrushed, granular, rounded stone (16 - 32mm grain size) incorporating leachate collection drains; and.
- e) The side walls shall be designed and constructed to achieve an equivalent protection and in the case of the use of a geomembrane, it must have sufficient strength to meet the requirements of Section 6.6 of the Agency's *Landfill Manual, Landfill Site Design*.
- 3.12.2 The liner detailed design and its construction shall have regard to the guidelines provided in the Agency's *Landfill Manual, Landfill Site Design*.
- 3.12.3 Formation levels of the cells shall be as shown on Drawing No. 5234.08/220.
- 3.12.4 The type of gravel for the aggregate specified above shall be rounded unless otherwise agreed by the Agency under the terms of Condition 3.3.

3.13 Leachate Management Infrastructure

- 3.13.1 Leachate management infrastructure shall be provided and maintained at the facility as described in Attachment D4 and specified in Figure No. 6.4 EIS Leachate Management System.
- 3.13.2 All structures for the storage and/or treatment of leachate shall be fully enclosed except for inlet and outlet piping.

3.14 Landfill Gas Management

- 3.14.1 Landfill gas management infrastructure shall be provided and maintained at the facility as described in Attachment D 5 of the application and specified in Figure No. 6.6 EIS Landfill Gas Management System.
- 3.14.2 Within six months of the date of grant of this licence, the licensee shall provide and maintain a permanent landfill gas flare at the facility. The flare shall be of an enclosed type design unless otherwise agreed by the Agency.
- 3.14.3 Flare unit efficiency shall be tested once it is installed and once every three years thereafter.
- 3.14.4 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.

3.15 Surface Water Management

- 3.15.1 Effective surface water management infrastructure shall be provided and maintained at the facility during construction, operation, restoration and aftercare of the facility. As a minimum, the infrastructure shall be capable of the following:-
 - The prevention of contaminated water and leachate discharges into surface water drains and courses; and
 - b) The collection/diversion of run off arising from capped and restored areas.

- 3.15.2 The surface water management infrastructure at the landfill extension including diversion of stream and installation of the perimeter cut-off drain described in Attachment D shall be provided and maintained at the facility.
- 3.15.3 The groundwater drainage layer at the base of the composite liner shall discharge to the surface water cut-off drain on the west side of the landfill.
- 3.16 Construction and Demolition Waste Recovery Area
 - 3.16.1 The licensee shall provide and maintain a construction and demolition waste recovery area. This infrastructure shall at a minimum comprise the following:
 - a) An impermeable concrete slab; and
 - b) Collection and disposal infrastructure for all run-off.
- 3.17 Civic Waste Facility
 - 3.17.1 The licensee shall establish and maintain the Civic Amenity Facility infrastructure referred to in Attachment D1 and Drawing No. 5234.08/218 and labelled 'proposed recycling area'.
- 3.18 Monitoring Infrastructure
 - 3.18.1 Landfill Gas
 - Within one month from the date of grant of this licence, the licensee shall install a) an effective permanent gas monitoring system in the site office.
 - 3.18.2 Groundwater
- vater

 The licensee shall provide and maintain the groundwater monitoring points at the a) locations specified in Schedule D1 to allow for the sampling and analyses of groundwater.
 - 3.18.3 Replacement of Infrastructure
 - Monitoring infrastructure which is damaged or proves to be unsuitable for its a) purpose shall be replaced within three months of it being damaged or recognised as being unsuitable.

REASON: To provide appropriate infrastructure for the protection of the environment.

CONDITION 4 RESTORATION AND AFTERCARE

- The licensee shall restore the facility on a phased basis. The Restoration and Aftercare Plans for the facility shall include the plan submitted as part of Attachment G1 and G2 of the Application. Final capping shall be completed at Areas 1 and 2 within twelve months of the date of grant of this licence.
- The final profile/height of the facility shall be 104mOD Malin as shown in Drawing No. 4.2. 5234.08/226 of the Application.
- 4.3. Final Capping
 - 4.3.1. Unless otherwise agreed by the Agency, the final capping shall consist of the following:-.
 - a) Top soil (150 -300mm);
 - b) Subsoils, such that total thickness of top soil and subsoils is at least 1m;
 - c) Drainage layer of 0.5m thickness having a minimum hydraulic conductivity of 1x10⁻⁴
 - d) 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
 - e) Gas collection layer of natural material (minimum 0.3m) or a geosynthetic layer.
- 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
- Where tree planting is to be carried out above waste-filled areas, a synthetic barrier shall be used to 4.5. augment the clay cap. Combined topsoil and subsoil depths shall be a minimum of 1 m.
- 4.6.
- Soil Storage
 4.6.1. All soils shall be stored to preserve the soil structure for future use.
 - 4.6.2. Excavated peat from the landfill extension works shall be deposited in stockpiles no higher than 3m with graded banks to be vegetated immediately by hydroseeding or other agreed method to promote surface run-off. 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 drains.

REASON: To provide for the restoration of the facility.

CONDITION 5 FACILITY OPERATION AND WASTE MANAGEMENT

- 5.1 Wastes shall not be deposited in any new cell or part of the landfill without the prior agreement of the Agency.
- 5.2 Waste Acceptance and Characterisation Procedures
 - 5.2.1 Only pre-treated wastes are acceptable for disposal as set out in Article 6 (a) of the Landfill Directive.
 - 5.2.2 Waste shall be accepted at the facility only 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. Copies of these waste collection permits must be maintained at the facility.
- 5.2.3 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.
- 5.2.4 No hazardous wastes or liquid wastes shall be disposed of at the facility.
- 5.2.5 The licensee shall ensure that inert waste accepted at the facility is subject to treatment where technically feasible.
- 5.2.6 Within two months of the date of grant of this licence, 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, including all sludges, 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 (2003/22/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.
- 5.2.7 The acceptance of inert waste for recovery shall be as specified in EU Decision (2003/22/EC).
- All wastes shall be checked at the working face. Any wastes not suitable for acceptance shall be removed for recovery or disposal at an appropriate alternative facility. Such waste shall be stored in the Waste Quarantine Area only. No waste shall be stored in the Waste Quarantine Area for more than three months.
- 5.4
- Working Face
 5.4.1 Unless the prior agreement of the Agency is given, the following shall apply at the landfill:-
 - Only one working face shall exist at the landfill at any one time for the deposit of waste other than cover or restoration materials; and
 - b) The working face of the landfill shall be no more than 2.5 metres in height after compaction, promore than 25 metres wide and have a slope no greater than 1 in 3.
 - 5.4.2 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.
 - 5.4.3 The working face, or faces, shall each day at the end of the day, be covered with suitable
- 5.5 Daily and Intermediate Cover
 - 5.5.1 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.
 - 5.5.2 Within three months of the date of grant of this licence, appropriate cover material shall be placed across the whole landfill so that no waste, other than the following is exposed:-
 - Waste exposed via specified engineering works; and
 - b) Waste on the working face during the operational hours of the facility.
- 5.6 Operational Controls
 - 5.6.1 The landfill shall be filled in accordance with the phase sequence outlined in Section 7, Phasing, of the EIS.

- 5.6.2 All large hollow objects and other large articles deposited at the facility shall be crushed, broken up, flattened or otherwise treated.
- 5.6.3 Wastes once deposited and covered shall not be excavated, disturbed or otherwise picked over only with the prior agreement from the Agency.
- 5.6.4 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.
- 5.6.5 Filled cells shall be permanently capped within twelve months of the cells having been filled to the required level.
- 5.6.6 Scavenging shall not be permitted at the facility.
- 5.6.7 Gates shall be locked shut when the facility is unsupervised.
- 5.6.8 The licensee shall provide and use adequate lighting during the operation of the facility in hours of darkness.
- 5.6.9 Fuels shall be stored only at appropriately bunded locations on the facility.
- 5.6.10 All tanks and drums shall be labelled to clearly indicate their contents.
- 5.6.11 No smoking shall be allowed on the facility.
- 5.7 Non-hazardous Asbestos Waste
 - 5.7.1 Only non-hazardous asbestos waste shall be disposed of at the facility and must be double wrapped in heavy gauge plastic which is clearly labelled to indicate the presence of asbestos.
 - 5.7.2 Disposal of non-hazardous asbestos waste shall be into prepared bays or trenches of at least 2 metres in depth.
 - 5.7.3 Deposited non-hazardous asbestos waste shall be covered immediately with at least 250mm of suitable material. At the end of the day, the waste shall be covered with a minimum of 500mm of suitable material.
 - 5.7.4 No non-hazardous asbestos waste shall be present within 2.5 metres of the final surface levels.
- 5.8 Off-site Disposal and Recovery
 - 5.8.1 Waste sent off-site for recovery or disposal shall be conveyed only by a waste contractor agreed by the Agency.
 - 5.8.2 All waste transferred from the facility shall be transferred only to an appropriate facility agreed by the Agency.
 - 5.8.3 All wastes removed off-site for recovery or disposal shall be transported from the facility to the consignee in a manner which will not adversely affect the environment.
- 5.9 Civic Waste Facility
 - 5.9.1 The Civic Waste Facility shall be used only by private vehicles. The facility shall not be used as a transfer station for disposal of waste by commercial waste disposal contractors or local authority waste collection vehicles.
 - 5.9.2 Only the hazardous wastes specified in the application can be accepted at the Civic Waste Facility: batteries, paint, waste oils, and fluorescent tubes. Any wastes not suitable for acceptance shall be placed in the Waste Quarantine Area immediately.
 - 5.9.3 All waste deposited in the Civic Waste Facility shall be either:
 - a) Into a skip;
 - b) Into the hopper of the compactor for disposal;
 - c) Into a receptacle for recovery; and
 - d) In the case where inspection is required, into a designated inspection area.

- 5.9.4 The licensee shall assign and clearly label each container at the Civic Waste Facility to indicate their contents.
- 5.9.5 At the end of the working day the floor of the Civic Waste Facility shall be cleared of waste.
- 5.10 Construction and Demolition Waste Recovery Area
 - 5.10.1 Only Construction and Demolition waste shall be accepted at this area. Wastes which are capable of being recovered shall be separated and shall be stored temporarily in this area prior to being subjected to other recovery activities at the facility or transport off the facility.
 - 5.10.2 All stockpiles shall be maintained so as to minimise dust generation.

5.11 Leachate Management

- 5.11.1 Leachate management shall be as Attachment D 4 of the application.
- 5.11.2 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.
- 5.11.3 The frequency of leachate removal/discharge from the leachate tank shall be such that a minimum freeboard of 0.75m shall be maintained in the leachate lagoon at all times.
- 5.11.4 Unless treated on the facility, leachate stored in the leachate storage lagoon shall be disposed of by tankering off-site in fully enclosed road tankers.
- 5.11.5 Recirculation of leachate or other contaminated water shall not be undertaken without the prior agreement of the Agency and, in any case, shall be undertaken only within cells which have been lined to the satisfaction of the Agency.

5.12 Maintenance

- 5.12.1 All treatment/abatement and emission control equipment shall be calibrated and maintained, in accordance with the instructions issued by the manufacturer/supplier or installer. Written records of the calibrations and maintenance shall be made and kept by the licensee.
- 5.12.2 All lagoon structures on the facility shall be inspected and certified fit for purpose every three years by an independent and appropriately qualified chartered engineer.
- 5.12.3 The licensee shall maintain and clearly label and name all sampling and monitoring locations.
- 5.12.4 The wheel-wash shall be inspected on a daily basis and drained as required. Silt, stones and other accumulated material shall be removed as required from the wheel-wash and disposed of at the working face or to a skip.

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

CONDITION 6 EMISSIONS

- 6.1. No specified emission from the facility shall exceed the emission limit values set out in *Schedule C: Emission Limits*, of this licence. There shall be no other emissions of environmental significance.
- 6.2. The licensee shall ensure that the activities shall be carried out in a manner such that emissions do not result in significant impairment of, or significant interference with the environment beyond the facility boundary.

Landfill Gas 6.3.

- 6.3.1. The following are the trigger levels for landfill gas emissions from the facility measured in any service duct or manhole on, at or immediately adjacent to the facility and/or at any other point located outside the body of the waste:-
 - Methane, greater than or equal to 1.0% v/v; or
 - Carbon dioxide, greater than or equal to 1.5% v/v.
- 6.3.2. 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 :-
 - In the case of landfill gas flare:
 - Temperature 273 K, pressure 101.3 kPa, dry gas at 3% oxygen; and
 - b) In the case of landfill gas combustion plant:
 - Temperature 273 K, pressure 101.3 kPa, dry gas; 5% oxygen.
- 6.3.3. Emission limits for emissions from landfill gas flare/combustion plant to atmosphere in this licence shall be interpreted in the following way.
 - 6.3.3.1. Continuous monitoring
 - a) No 24 hour mean value shall exceed the emission limit value;
 - 97% of all 30 minute mean values taken continuously over an annual period shall not exceed 1.2 times the emission limit value; and
 - c) No 30 minute mean value shall exceed twice the emission limit value.

 - 6.3.3.2 Non-Continuous Monitoring edited

 a) For any a) 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;
 - For all other parameters, no 30 minute mean value shall exceed the emission limit value; and
 - For flow, no hourly or daily mean value shall exceed the emission limit value.
- 6.4. Groundwater
 - 6.4.1 There shall be no direct emissions to groundwater.
 - 6.4.2 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.
 - 6.4.3 The trigger levels as specified in Condition 6.4.2 for groundwater shall be measured at monitoring boreholes GW1, GW2, GW4, and GW5 unless otherwise agreed by the Agency.
- 6.5. **Emissions to Surface Water**
 - 6.5.1. No raw leachate, treated leachate or contaminated surface water shall be discharged to the stream to west of the landfill.
 - 6.5.2. No substance shall be discharged in a manner, or at a concentration which, following initial dilution causes tainting of fish or shellfish.

6.6. Disposal of Leachate

6.6.1. All leachate or contaminated water tankered from the facility shall be transported to a Donegal County Council Water Treatment Plant, or alternative facility agreed in advance by the Agency, and disposed of there.

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

CONDITION 7 NUISANCE CONTROL

- 7.1 The licensee shall ensure that vermin, birds, flies, mud, dust, litter and odours do not give rise to nuisance at the facility or in the immediate area of the facility. Any method used by the licensee to control any such nuisance shall not cause environmental pollution.
- 7.2 The road network in the vicinity of the facility shall be kept free from any debris caused by vehicles entering or leaving the facility. Any such debris or deposited materials shall be removed without delay.
- 7.3 Litter Control
 - 7.3.1 Litter fencing shall be installed and maintained around the perimeter of the active tipping area prior to the disposal of any waste in any cell.
 - 7.3.2 All litter control infrastructure shall be inspected on a daily basis. The licensee shall remedy any defect in the litter netting as follows:
 - a) A temporary repair shall be made by the end of the working day; and
 - b) A repair to the standard of the original netting shall be undertaken within three working days.
 - 7.3.3 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.
 - 7.3.4 The licensee shalf ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.
- 7.4 Dust Control
 - 7.4.1 In dry weather, site roads and any other areas used by vehicles shall be sprayed with water as and when required to minimise airborne dust nuisance.
 - 7.4.2 Prior to exiting the facility, all waste vehicles shall use the wheelwash.
- 7.5 Bird Control
 - 7.5.1 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 and/or other techniques shall be in place and shall be employed 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.

REASON: To provide for the control of nuisances.

CONDITION 8 MONITORING

- 8.1 The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule D: Monitoring*, of this licence and as specified in this licence. Unless otherwise specified by this licence, all environmental monitoring shall commence no later than two months after the date of grant of this licence.
- 8.2 The licensee shall amend the frequency, locations, methods and scope of monitoring as required by this licence only upon the written instruction of the Agency and shall provide such information concerning such amendments as may be requested in writing by the Agency. Such alterations shall be carried out within any timescale nominated by the Agency.
- 8.3 Monitoring and analysis equipment shall be operated and maintained in accordance with the manufacturers' instructions (if any) so that all monitoring results accurately reflect any emission, discharge or environmental parameter.
- 8.4 The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 8.5 Within two months of the date of grant of licence, the licensee shall install a permanent gas monitoring system in the site office and any other enclosed structures at the facility. All landfill gas monitoring equipment, other than permanent monitoring systems within buildings, shall be certified as being intrinsically safe.
- 8.6 Meteorological Monitoring
 - 8.6.1 The licensee shall make arrangements for representative meteorological data to be collated for the facility to fulfil the requirements of schedule D.6: Meteorological Monitoring of this licence.
- 8.7 Topographical Survey
 - 8.7.1 Unless otherwise agreed by the Agency, a topographical survey shall be carried out annually until the facility is capped. The survey shall include a measurement of the remaining available void space and shall be in accordance with any written instructions issued by the Agency.
- 8.8 Stability Assessment
 - 8.8.1 The licensee shall carry out a stability assessment of the side slopes of the facility annually.
- 8.9 Nuisance Monitoring
 - 8.9.1 The licensee shall, at a minimum of one week intervals, inspect the facility and its immediate surrounds for nuisances caused by litter, vermin, birds, flies, mud, dust and odours.

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

CONDITION 9 CONTINGENCY ARRANGEMENTS

- 9.1. In the event of an incident the licensee shall immediately:
 - a) Identify the date, time and place of the incident;
 - Carry out an immediate investigation to identify the nature, source and cause of the incident and any emission arising therefrom;
 - c) Isolate the source of any such emission;
 - d) Evaluate the environmental pollution, if any, caused by the incident;
 - Identify and execute measures to minimise the emissions/malfunction and the effects thereof; and
 - f) Provide a proposal to the Agency for its agreement within one month of the incident occurring to:-
 - (i) Identify and put in place measures to avoid reoccurrence of the incident;
 - (ii) Identify and put in place any other appropriate remedial action.
- 9.2. The licensee shall provide and maintain an Emergency Response Procedure (ERP). Within six months from the date of grant of this licence, the licensee shall submit to the Agency for its agreement, a proposal for the updating (where appropriate) of the documented ERP for the facility.
- 9.3. The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorbent material shall be disposed of at an appropriate facility.
- 9.4. Emergencies
 - 9.4.1. All significant spillages occurring at the facility shall be treated as an emergency and immediately cleaned up and dealt with so as to alleviate their effects.
 - 9.4.2. No waste shall be burnt within the boundaries of the facility. A fire at the facility shall be treated as an emergency and immediate action shall be taken to extinguish it and notify the appropriate authorities.
 - 9.4.3. In the event that monitoring of local wells indicates that the facility is having a significant adverse effect on the quantity and/or quality of the water supply this shall be treated as an emergency and the licensee shall provide an alternative supply of water to those affected.
 - 9.4.4. In the event that monitoring of the side slopes of the facility indicate that there may be a risk of slope failure this will be treated as an emergency.
 - 9.4.5. In the event that monitoring of the surface water indicates that the facility is having a significant adverse effect on the quality of the water this shall be treated as an emergency and the licensee shall provide the surface water management contingencies specified in Sections 10.85, 10.86, 10.87, and 10.88 of the EIS, unless otherwise agreed by the Agency.

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

CONDITION 10 RECORDS

- 10.1 The licensee shall keep the following documents at the facility office:
 - a) The current waste licence relating to the facility;
 - b) The current EMS for the facility;
 - c) The previous year's AER for the facility; and
 - d) All written procedures produced by the licensee which relate to the licensed activities.
- 10.2 The licensee shall maintain a written record for each load of waste arriving at the facility, excluding those arriving at the Civic Waste Facility. The licensee shall record the following:
 - a) The date;
 - b) The name of the carrier (including if appropriate, the waste carrier registration details);
 - c) The vehicle registration number;
 - d) The name of the producer(s)/collector(s) of the waste as appropriate;
 - The name of the waste facility (if appropriate) from which the load originated including the waste licence or waste permit register number;
 - f) A description of the waste including the associated EWC codes;
 - g) The quantity of the waste, recorded in tonnes;
 - h) The name of the person checking the load; and
 - i) Where loads or wastes are removed or rejected, details of the date of occurrence, the types of waste and the facility to which they were removed.
- 10.3 The following written records shall be maintained by the licensee:-
 - The types and quantities of waste recovered and disposed of at the facility each year. These records shall include the relevant EWC Codes;
 - b) All training undertaken by facility staff;
 - c) Results from all integrity tests of bunds and other structures and any maintenance or remedial work arising from them;
 - d) Details of all nuisance inspections; and
 - e) The names and qualifications of all persons who carry out all sampling and monitoring as required by this licence and who carry out the interpretation of the results of such sampling and monitoring.
- 10.4 The licensee shall maintain a written record of all complaints relating to the operation of the facility. Each such record shall give details of the following:
 - a) Date and time of the complaint;
 - b) The name of the complainant;
 - c) Details of the nature of the complaint;
 - d) Actions taken on foot of the complaint and the results of such actions; and
 - e) The response made to each complainant.
- 10.5 A written record shall be kept of each consignment of leachate removed from the facility. The record shall include the following:
 - a) The name of the carrier;
 - b) The date and time of removal of leachate from the facility;

- c) The volume of leachate, in cubic metres, removed from the facility on each occasion;
- The name and address of the Waste Water Treatment Plant to which the leachate was transported; and
- e) Any incidents or spillages of leachate during its removal or transportation.
- 10.6 A written record shall be kept for each load of waste departing from the Civic Waste Facility. The following shall be recorded:
 - a) The name of the carrier;
 - b) The vehicle registration number;
 - The destination of the waste (facility name and waste licence/permit number as appropriate);
 - d) A description of the waste (if recovered or rejected waste, the specific nature of the waste);
 - e) The quantity of waste, recorded in tonnes;
 - f) The name of the person checking the load; and
 - g) The time and date of departure.
- 10.7 A written record shall be kept at the facility of the programme for the control and eradication of vermin and fly infestations at the facility. These records shall include as a minimum the following:
 - a) The date and time during which spraying of insecticide is carried out;
 - b) Contractor details;
 - c) Contractor logs and site inspection reports,
 - d) Details of the rodenticide(s) and insecticide(s) used;
 - e) Operator training details:
 - f) Details of any infestations;
 - g) Mode, frequency Tocation and quantity of application; and
 - h) Measures to contain sprays within the facility boundary.

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

CONDITION 11 REPORTS AND NOTIFICATIONS

- 11.1 Unless otherwise agreed by the Agency, all reports and notifications submitted to the Agency shall:
 - a) Be sent to the EPA, Regional Inspectorate, John Moore Road, Castlebar, Co. Mayo;
 - b) Comprise one original and two copies unless additional copies are required;
 - c) Be formatted in accordance with any written instruction or guidance issued by the Agency;
 - d) Include whatever information as is specified in writing by the Agency;
 - e) Be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;

- f) Be submitted in accordance to the relevant reporting frequencies specified by this licence, such as in *Schedule E: Recording and Reporting to the Agency*, of this licence;
- Be accompanied by a written interpretation setting out their significance in the case of all monitoring data; and
- h) Be transferred electronically to the Agency's computer system if required by the Agency.
- 11.2 In the event of an incident occurring on the facility, the licensee shall:-
 - Notify the Agency as soon as practicable and in any case not later than 1000 hrs the following working day after the occurrence of any incident;
 - Submit a written record of the incident, including all aspects described in Condition 9.1(a-e), to the Agency as soon as practicable and in any case within five working days after the occurrence of any incident;
 - c) In the event of any incident which relates to discharges to surface/sewer water, notify the Northern Regional Fisheries Board as soon as practicable and in any case not later than 1000 hrs on the following working day after such an incident; and
 - d) Should any further actions be taken as a result of an incident occurring, the licensee shall forward a written report of those actions to the Agency as soon as practicable and no later than ten days after the initiation of those actions.

11.3 Waste Recovery Reports

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

- a) Proposals for the contribution of the facility to the achievement of targets for the reduction of biodegradable waste to landfill, as specified in the Landfill Directive;
- b) The separation of recyclable materials from the waste;
- c) The recovery of Construction and Demolition Waste;
- The recovery of metal waste and white goods including written procedures for the degassing of CFC's from refrigerators;
- e) The recovery of commercial waste, including cardboard;
- f) Inert waste to be used for cover/restoration material at the facility;
- g) Proposals regarding the utilisation of energy from the gas utilisation plant; and
- h) The feasibility of using landfill gas as a fuel for on-site vehicles.

11.4 Monitoring Locations

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

11.5 Annual Environmental Report

11.5.1 The licensee shall submit to the Agency for its agreement, by 31st March of each year an Annual Environmental Report (AER).

11.5.2 The AER shall include as a minimum the information specified in *Schedule F: Content of the Annual Environmental Report* of this licence and shall be prepared in accordance with any relevant written guidance issued by the Agency.

REASON: To provide for proper reports to and notifications to the Agency.

CONDITION 12 CHARGES AND FINANCIAL PROVISIONS

12.1 Agency Charges

- 12.1.1 The licensee shall pay to the Agency an annual contribution of €15,920, 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 Environmental Protection Agency Acts 1992 and 2003. The first payment shall be a pro-rata amount for the period from the date of this licence 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 Environmental Protection Agency Acts 1992 and 2003, 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 Financial Provision for Closure, Restoration and Aftercare
 - 12.2.1 The licensee shall from a date to be set by the Agency establish and maintain a fund, or provide a written guarantee, that is adequate to assure the Agency that the licensee is at all times financially capable of implementing the Restoration and Aftercare Plan required by Condition 4. The type of fund established and means of its release/recovery shall be agreed by the Agency prior to its establishment.
 - 12.2.2 Any fund established shall be maintained in an amount always sufficient to underwrite the current Restoration and Aftercare Plan.
 - 12.2.3 The licensee shall revise the cost of restoration and aftercare annually and any details of the necessary adjustments to the fund or guarantee must, within two weeks of the revision, be forwarded to the Agency for its agreement. Any adjustment agreed by the Agency shall be effected within four weeks of said written agreement.
 - 12.2.4 Unless otherwise agreed any revision to the fund shall be computed using the following formula:-

$$Cost = (ECOST \times WPI) + CiCC$$

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

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.

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

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SCHEDULE A: Waste Acceptance

A.1 Waste Acceptance

Table A.1 Waste Categories and Quantities

WASTE TYPE	MAXIMUM QUANTITY Note 1 (Tonnes per Annum)
Household & Commercial	21,000
Industrial non-hazardous waste	2,500
Construction & Demolition Waste	500
TOTAL	24,000

Note 1: Quantities of waste types may be altered, subject to the agreement of the Agency, provided the total quantity for disposal does not exceed 24,000 tonnes per annum.

Table A.2 Waste Categories for Recovery at the facility up until completion of the restoration of the landfill

WASTE TYPE	LIMITATION
Inert wastes	Subject to Condition 5.2.7. For use on site - in road making material, as cover material and in capping and restoration works.

SCHEDULE B: Specified Engineering Works

Specified Engineering Works

Development of the facility including preparatory works and lining.

Final capping.

Installation of Compost Facility with a maximum capacity of 1000m³.

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.

Emission Limits SCHEDULE C:

C.1 Noise Emissions: (Measured at the facility boundary monitoring points indicated in Table D.1.1 Monitoring Locations), or other locations agreed or instructed by the Agency.

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

C.2 Landfill Gas Concentration Limits: (Measured in any building on or adjacent to the facility).

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

C.3 Dust Deposition Limits: (Measured at the monitoring points indicated in Table D.1.1 Monitoring Locations).

Level (mg/m² /day) ^{Note 1}
350

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

C.4

Emission Limits Values for Landfill Gas Plant Hold Head of the Agreed by Emission Point Reference Nos.:

(to be agreed by the Agency)
Landfill Gas Combustion Plant and Flare Stacks
5m Location:

Minimum discharge height:

Parameter	Flare (enclosed) Emission Limit Value Note 1	Utilisation Plant Emission Limit Value Note 1
Nitrogen oxides (NO _x)	150 mg/m ³	500 mg/m ³
CO	50 mg/m ³	650 mg/m ³
Particulates	Not applicable	130 mg/m ³
Total organic carbon (TOC)	10 mg/m ³	Not applicable

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

Monitoring SCHEDULE D:

D.1 Monitoring Locations

Monitoring locations shall be those as set out in Table D.1.1, as shown in Drawing No. 5234.08/225 of the application unless otherwise indicated or agreed by the Agency.

Table D.1.1 Monitoring Locations

LANDFILL GAS	DUST	NOISE	SURFACE WATER	GROUND WATER	LEACHATE
STATIONS	STATIONS	STATIONS	STATIONS	STATIONS	STATIONS
LG1	DG1	N1	SW1	GW1	L1
LG2	DG2	N2	SW2	GW2	L3
LG4	DG3	N3	SW3 Note 3	GW4	L6
LG5	DG4 Note 2		SW4 Note 3	GW5	
LG6	DG5 Note 2				
LG7					
LG8 Note 1				్థాం.	
LG9 Note 1			300	N.	

Note 1: In addition to existing stations LG 1 - LG 7, two Landfill Gas locations shall be agreed by the Agency for any new cells.

Note 2: In addition to existing stations DG 1 –DG 3, two Dust stations hall be agreed by the Agency for any new cells.

Note 3: In addition to existing stations SW1 & SW2, two stations shall be agreed by the Agency on the western boundary of the new cells; one in the vicinity of Groundwater Well GW 5 and the other 100m downstream of GW5.

Landfill Gas

D.2 Landfill Gas

Landfill Gas Monitoring Parameters, Frequency and Technique Table D.2.1

Parameter Consent of C	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	Electrochemical cell
Atmospheric Pressure	Monthly	Weekly	Standard
Temperature	Monthly	Weekly	Standard

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

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

D.3 Dust

Table D.3.1 Dust Monitoring Frequency and Technique

Parameter	Monitoring Frequency	Analysis Method/Technique
Dust	Three times a year Note 2	Standard Method Note 1

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

Note 2: Twice during the period May to September.

D.4 Noise

 Table D.4.1
 Noise Monitoring Frequency and Technique

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

Note 1: "International Standards Parts 1, 2 and 3."

Organisation. ISO 1996. Recording the Parts 1, 2 and 3."

Concent of Conference of Environmental noise.

D.5 Surface Water, Groundwater and Leachate

Table D.5.1 Water and Leachate - Parameters /Frequency

Parameter Note 1	SURFACE WATER	GROUNDWATER Monitoring	LEACHATE Note 5
	Monitoring	Frequency	Monitoring
	Frequency		Frequency
Visual Inspection/Odour Note 2	Weekly	Quarterly	Quarterly
Groundwater Level	Not Applicable	Monthly	Not Applicable
Leachate Level	Not Applicable	Not Applicable	Quarterly
Ammoniacal Nitrogen	Quarterly	Quarterly	Quarterly
BOD	Quarterly	Not Applicable	Quarterly
COD	Quarterly	Not Applicable	Quarterly
Chloride	Quarterly	Quarterly	Quarterly
Dissolved Oxygen	Quarterly	Annually	Not Applicable
Electrical Conductivity	Quarterly	Quarterly	Quarterly
рН	Quarterly	Quarterly	Quarterly
Total Suspended Solids	Quarterly	Not Applicable	Not Applicable
Temperature	Quarterly	Quarterly	Quarterly
Cadmium	Annually	Annually	Annually
Chromium (Total)	Annually Annually Annually Not Applicable Annually Annually Not Applicable Annually Soft Annually	Annually	Annually
Copper	Annually	Annually	Annually
Cyanide (Total)	Not Applicable	Annually	Not Applicable
Iron	Annually of the	Quarterly	Annually
Lead	Annually	Annually	Annually
List I/II organic substances Note 3	Not Applicable	Annually	Not Applicable
Magnesium	Annually To The Annually To The Annually Annually Annually Annually Annually	Annually	Annually
Manganese	Annually	Annually	Annually
Mercury	Mnnually	Annually	Annually
Nickel	Not Applicable	Annually	Annually
Potassium	Annually	Annually	Annually
Sulphate	Annually	Annually	Annually
Total Alkalinity	Annually	Annually	Not Applicable
Total Phosphorus / orthophosphate	Annually	Annually	Annually
Total Oxidised Nitrogen	Annually	Quarterly	Quarterly
Zinc	Annually	Annually	Annually
Phenols	Not Applicable	Annually	Not Applicable
Biological Assessment	Bi-Annually Note 4	Not Applicable	Not Applicable

- Note 1: All the analysis shall be carried out by a competent laboratory using standard and internationally accepted procedures.
- Note 2: Where there is evident gross contamination of leachate, additional samples should be analysed.
- Note 3: Samples screened for the presence of organic compounds using Gas Chromatography / Mass Spectrometry (GC/MS) or other appropriate techniques and using the list I/II Substances from EU Directive 76/464/EEC and 80/68/EEC as a guideline. Recommended analytical techniques include: volatiles (US Environmental Protection Agency method 524 or equivalent), semi-volatiles (US Environmental Protection Agency method 525 or equivalent, and pesticides (US Environmental Protection Agency method 608 or equivalent).
- Note 4: Appropriate biological methods (such as EPA Q-Rating System to be used for the assessment of rivers and streams).
- Note 5: Visual Inspection and Leachate Levels for all leachate stations referred to in Table D.1.1. Sampling and analysis to be carried out for leachate in leachate storage lagoon/tank and two leachate boreholes in waste.

D.6 Meteorological Monitoring

Table D.6.1 Meteorological Monitoring:

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

D.7 Landfill Gas Combustion Plant/Enclosed Flare

Location: Utilisation plant and enclosed flare (location of flare to be agreed by the Agency in advance).

Table D.7.1 Landfill Gas Utilisation Plant/Enclosed Flare Parameters and Monitoring Frequency

Parameter	Flare (enclosed) Monitoring Frequency	Utilisation Plant Monitoring Frequency	Analysis Method ^{Note1} /Technique ^{Note} 2
Inlet		see of the and	
Methane (CH ₄) % v/v	Continuous citer the	Rose only Weekly Weekly	Infrared analyser/flame ionisation detector/thermal conductivity
Carbon dioxide (CO ₂) % v/v	Continuous	Weekly	Infrared analyser/thermal conductivity
Oxygen (O ₂) % v/v	Continuous	Weekly	Electrochemical/thermal conductivity
Process Parameters	Corr		
Combustion Temperature	Continuous	Quarterly	Temperature Probe/datalogger
Outlet			
СО	Continuous	Continuous	Flue gas analyser/datalogger
NOx	Annually	Annually	Flue gas analyser
SO ₂	Annually	Annually	Flue gas analyser
Particulates	Not applicable	Annually	Isokinetic/Gravimetric
TOC	Annually	Not applicable	Flame ionisation

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

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

SCHEDULE E: Recording and Reporting to the Agency

Report	Reporting Frequency Note1	Report Submission Date
Annual Environment Report (AER)	Annually	By 31st March of each year.
Record of incidents	As they occur	Within five days of the incident.
Bund, tank and container integrity assessment	Every three years	Six months from the date of grant of licence and thereafter submit as part of the AER.
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 on.
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	Three times a year	Ten days after the period being reported on.
Any other monitoring	As they occur	Within ten days of obtaining results.

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

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Content of the Annual SCHEDULE F: Environmental Report

Annual Environmental Report Content

Reporting Period.

Waste activities carried out at the facility.

Calculated remaining capacity of the facility and year in which final capacity is expected to be reached.

Methods of deposition of waste.

Summary report on emissions.

Summary of results and interpretation of environmental monitoring.

Resource and energy consumption summary.

Proposed development of the facility and timescale of such development.

Volume of leachate produced and volume of leachate transported / discharged off-site.

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

Report on restoration of completed cells/ phases.

Site survey showing existing levels of the facility at the end of the reporting period.

Estimated annual and cumulative quantities of landfill gas emitted from the facility.

Estimated annual and cumulative quantity of indirect emissions to groundwater.

Annual water balance calculation and interpretation.

Annual water balance calculation and interpretation.

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

Schedule of Environmental Objectives and Targets for the forthcoming year.

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

Tank, pipeline and bund testing and inspection report.

Reported incidents and Complaints summaries.

Review of Nuisance Controls.

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

Report on training of staff.

Any other items specified by the Agency.

Sealed by the seal of the Agency on this the 10th day of December, 2004

PRESENT when the seal of the Agency was affixed hereto:

Padraic Larkin,	Authorised	Person	

An Bord Pleanála



PLANNING AND DEVELOPMENT ACTS 2000 TO 2002

Donegal County Council

APPLICATION by Donegal County Council for approval under section 175 of the Planning and Development Act, 2000 in accordance with plans and particulars, including an environmental impact statement, lodged with the Board on the 21st November, 2003.

Extension to an existing landfill facility at PROPOSED DEVELOPMENT: Ballynacarrick, Ballintra, County Donegal.

DECISION

GRANT approval for the above proposed development in accordance with the said plans and particulars based on the reasons and considerations under and subject to the conditions set out below.

REASONS AND CONSIDERATIONS

Having regard to:

- the existing use of lands for landfilling of waste at this location (i)
- the existing pattern of development in the area, which is characterised by a (ii) relatively sparse and dispersed settlement pattern
- the separation distances from existing residences to the proposed extension (iii)
- the nature and extent of groundwater protection afforded by the liner system (iv) proposed
- the nature and adequacy of the existing road network serving the area **(v)**
- (vi) the nature and extent of the various mitigation measures proposed
- the necessity to obtain a waste licence in order to operate the facility (vii)

it is considered that, subject to compliance with the conditions set out below, the proposed development would be a reasonable extension to an existing landfill facility, would be acceptable in terms of traffic safety and convenience, would not be prejudicial to public health, would not cause undue injury to the amenities of property in the area, and would be in accordance with the proper planning and sustainable development of the area, and would not result in significant adverse effects on the environment.

05.EL2025

An Bord Pleanála

Page 1 of 4



CONDITIONS

1. The site operator shall take all reasonable measures to ensure that all traffic movements to the site are via the designated route from the N15. Donegal County Council shall ensure that all operators using the site are aware of the designated route by the use of appropriate signage on all relevant access points in the vicinity of the site and by signs at the entrance to the site. For the duration of the operation of the facility, the operator shall ensure, in so far as it is practicable, that appropriate directional signage is in place at all significant road junctions, within a 3km radius of the entrance to the landfill. Additional signage shall be erected from the N15 to the landfill site entrance along the designated route (TCR01). This signage shall warn vehicles that heavy goods vehicles (HGVs) operate in the area. All permits for waste collection issued by the local authority which involve the use of the landfill at Ballynacarrick, shall incorporate a condition requiring that traffic to and from the landfill should be via the designated route from the N15 as indicated on figure 78.1 of the environmental impact statement.

Reason: To avoid confusion, in the interest of traffic safety and in the interest of the proper planning and development of the area.

2. Donegal County Council shall construct passing bays along the minor road between the landfill site entrance and the N15. Each passing bay shall be 2.5 metres wide from the nearside carriageway edge of the road for a full length of 9 metres, with 45° splays at each end. A minimum of 12 bays shall be provided at centres not exceeding 350 metres at appropriate locations. Where practicable, the passing bays shall be provided at 250m centres at alternating sides of the road.

Reason: To avoid traffic conflict and to enable two heavy goods vehicles to pass safely on the narrow sections of the minor road.

- 3. The developer of the facility shall undertake archaeological monitoring, as detailed below, at the site:
 - a) The developer shall engage the services of a suitably qualified archaeologist (licensed under the National Monuments Acts 1930-1994) to carry out predevelopment testing at the site. No sub-surface work shall be undertaken in the absence of the archaeologist without his/her express consent.

EPA Export 25-07-2013:22:27

- b) The archaeologist shall notify the Heritage and Planning Division of the Department of Environment Heritage and Local Government in writing at least four weeks prior to the commencement of site preparations.
- c) The archaeologist shall carry out any relevant documentary research and may excavate test trenches at locations chosen by the archaeologist, having consulted the proposed development plans.
- d) Having completed the work the archaeologist shall submit a written report to the Planning Authority and the Heritage and Planning Division of the Department of Environment Heritage and Local Government for consideration.
- e) Where archaeological material is found to be present, avoidance, preservation in situ, preservation by record (excavation) and/or monitoring may be required and the Heritage and Planning Division of the Department of Environment Heritage and Local Government shall be consulted with regard to these matters.
- f) No site preparation or construction work shall be carried out until after the archaeologist's report has been submitted and permission to proceed has been received in writing from the Heritage and Planning Division of the Department of the Environment Heritage and Local Government.
- g) All initial ground excavations required for the construction of the landfill shall be monitored by a qualified archaeologist. Reports on the monitoring shall be made available for public inspection on the completion of each phase of the site development works.

Reason: Having regard to the scale of the development and to ensure the continued preservation (either in sitt or by record) of places, caves, features or other objects of archaeological interest.

4. The operator shall maintain the perimeter fencing in a good condition until after the final restoration and aftercare period for the facility.

Reason: In the interest of public safety.

5. The developer shall construct the earth bunds and progress the planting proposed in section 15 of Volume 1 of the environmental impact statement to visually screen the development as soon as possible so that the planting can become established. Particular priority shall be given to the planting of a hedge reinforced with a belt of woodland planting along the western boundary of the proposed extension.

Reason: To limit the visual intrusion caused by the development

6. Appropriate locations shall be selected for stockpiling of excavated materials, namely peat, clays and rock. These stockpiles shall be kept separate to ensure the maximum beneficial re-use of the excavated materials. Stockpiles should not be located adjacent to steeply sloping ground. In addition, appropriate management of the stockpiles shall be exercised, including immediate vegetation of the material. Where deemed necessary, ground stabilisation geogrids shall be utilised to stabilise stockpiles.

Reason: To mitigate the risk of mobilisation of stockpiled materials and to avoid impact on adjoining lands and surface waters

Member of An Bord Pleanála duly authorised to authenticate

the seal of the Board.

Dated this Thereday of J. -

2004

APPENDIX B

Newspaper Advertisement and Site Notice

Copy of Donegal Democrat

Copy of Donegal Democrat

Consent of Copyright Output Prediction Representation of Copyright Output Prediction of Copyr

IBL0266 /Reports/Waste Licence Review

Status: Final

November 2007 Date:





DONEGAL COUNTY COUNCIL Comhairle Chontae Dhún Na nGall

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR THE REVIEW OF A WASTE LICENCE

NOTICE IS HEREBY GIVEN in accordance with the provisions of the Waste Management Act, 1996 and Articles 5 and 6 of the Waste Management Licensing Regulations (SI No. 395 of 2004). that Donegal County Council, County House, Lifford Co Donegal, will apply to the Environmental Protection Agency (EPA), Johnstown Castle Estate, County Wexford, for a review of the waste licence (Ref No W0024-02) for the Ballynacarrick Landfill Site for non hazardous waste, Ballynacarrick, Ballintra, Co Donegal. The site will accept up to 35,000 tonnes of waste per annum. The National Grid Reference for the facility is E3843 N7613.

The classes of activity concerned are specified in the Third and Fourth Schedules of the Waste Management Act, 1996 to 2003, as follows:-

THE PRINCIPLE ACTIVITY TO BE CARRIED OUT ON THE SITE IS:

Class 5 of the Third Schedule of the Waste Management Act (1996 to 2003):

Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.

The activity is also covered under the following Classes:

Third Schedule:

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 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.

Fourth Schedule:

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

The Application for the review of the Waste Licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the application, will, as soon as is practicable after receipt by the Agency, be available for inspection or purchase, at the EPA Headquarters, Johnstown Castle Estate, County Wexford and at the Principal Offices of Donegal County Council, County House Lifford Co Donegal and Donegal County Council office in Donegal Town.

Peadar MacRory,

Acting Director of Services, Water, Environment and Emergency Services, Donegal County Council

While there is no closing date for the Affordable Housing Scheme, anyone who wishes to be considered for the first houses that become available should submit a completed application by Friday 14th December 2007.

P. Lafferty, Area Manager, Housing Services, Donegal County Council.

CLASSIFIED ADVERTISING

TEL. LETTERKENNY (074) 9128000 / FAX (074) 9128001 DONEGAL TOWN (074) 9740160 / FAX (074) 9740161

Existing Dwelling House, proprietary fee, within 5 weeks of the the authority. date of the receipt of the

Existing Outhouses to include at Barr of Ballynacarrick, Ballynacor, storage & adjoining garage. · Pettigo, Co. Donegal. The Killygordon, Co Donegal. The Decommissioning of planning application may be The planning application existing septic tank and inspected or purchased, at a may be inspected or Upper, Horn Head, copy, at the Offices of the Planning Dunfanaghy, Co. Donegal. Planning Authority, Public Offices of the Planning Centre, Authority, County House, Submissions or observations payment of the prescribed fee of 20euro within a

treatment treatment system and Refurbishment of system and percolation area percolation area Installation of new effluent fee not exceeding the purchased, at a fee not treatment system at Cleggan reasonable cost of making a exceeding the reasonable Upper, Horn Head, copy, at the Offices of the cost of making a copy, at the The application may be Services Centre, Authority, County House, inspected or purchased, at a Drumlonagher, Donegal Lifford, Co. Donegal during inspected or purchased, at a Drumlonagner, Donegal during fee not exceeding the the Town, Co. Donegal during reasonable cost of making a the public opening hours of the Planning Authority. A submission or observation in relation to the application Public Services Centre, in relation to the application may be made in writing to Dungloe, Co. Donegal during may be made to the planning authority upon its public opening hours. Planning Authority upon payment of the prescribed in relation to this application fee of 20euro within a period of five weeks, may be made to the Planning period of five weeks, beginning on the date of Authority in writing, on beginning on the date of receipt of the application by the authority.

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Wicchainea

For further information please Opportunities websit

Mc Mullin Ass Tirconall Street, Don Closing date for applications

Application forms can be

This project is being funded

AN CHUIRT DUICH (The District Court INTOXICATING LIQUOR A Section 15 NOTICE OF APPLICATION **DECLARATION AS TO FITN CONVENIENCE OF PRO** OFF-LICENCE PREMI

District Court Area of Letterkenn District No. 1

Applicant George Sweeney as George Sweeney Limited. TAKE NOTICE that George Ballyraine, Letterkenny, County nominee of George Sweeney Lir it's registered offices at Letterkenny, Co. Donegal intend the District Court at Letterkenny day of December 2007 at 10.3 DECLARATION that premises Ballyraine, Letterkenny, Co. Done area and district aforesaid, applicant proposes to construct and convenient for the purpose on the business of a spirit and b licensed pursuant to Section 18 Liquor Act 2000 AND FURT NOTICE that a copy of the plan premises is being deposited with

Applicant or Solicitor for the App

To: The Superintendent of the Síochána at Letterkenny, Co. I State Solicitor, Port Road, Let Co. Donegal.

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Do you have ambition Then you could fin



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Acting Director of Services, Water, Environment and Emergency Services, Donegal County Council



LETTERKENNY TOWN COUNCIL **Draft Development Contribution Scheme 2008-2012** Section 48(4) Planning and Development Act 2000

Letterkenny Town Council has prepared a Draft Development Contribution Scheme 2008-2012 in accordance with the provisions of the Planning and Development Act 2000. Details of the proposed contributions under the Draft Development Contribution Scheme for the administrative area of Letterkenny Town Council are as follows:

Water and Sewerage	Roads	Recreation & Amenity	Current Charges	Jan 2008
€1,930	€710	€460	€2,779.40	€3,100
€2,175	€965	€960	€3,634.60	€4,100
€2,885	€1,685	€1,930	€5,772.60	€6,500
€1,000	€1,000	€500	€1,924.20	€2,500
€7	€7	SHE USE NEW	€12.80	€14
€7	€7	The reserve	€12.80	€14
€7	€7		€12.80	€14
€2,500	District in	ADD STORY OF	€2,285.50	€2,500
	Sewerage €1,930 €2,175 €2,885 €1,000 €7 €7 €7	Sewerage €1,930 €710 €2,175 €965 €2,885 €1,685 €1,000 €1,000 €7 €7 €7 €7 €7 €7 €7 €7	Sewerage & Amenity €1,930 €710 €460 €2,175 €965 €960 €2,885 €1,685 €1,930 €1,000 €1,000 €500 €7 €7 €7 €7 €7 €7	Sewerage & Amenity Charges €1,930 €710 €460 €2,779.40 €2,175 €965 €960 €3,634.60 €2,885 €1,685 €1,930 €5,772.60 €1,000 €500 €1,924.20 €7 €7 €12.80 €7 €7 €12.80 €7 €7 €12.80

Car parking charges, where there is a shortfall, will be charged at €2,000 per space for the first four spaces and €4,000 per space thereafter.

Copies of the Draft Development Contribution Scheme will be displayed in public from 22nd November, 2007 to the 17th January, 2008 (inclusive) and may be inspected at Letterkenny Public Services Centre, between 9.00am to 5.00pm. A copy of the Scheme is also available on the Council's website - www.letterkenny.ie.

Submissions or observations in respect of the proposed Draft Development Contribution Scheme may be made in writing clearly marked "Draft Development Contribution Scheme" not later than 4.00pm on the 17th January, 2008 to the address below:

Paddy Doherty Town Clerk Letterkenny Town Council Letterkenny Public Services Centre Neil T Blaney Road Letterkenny CO DONEGAL



