



# **APPLICATION**

**By**

**Donegal County Council**

**to**

**Environmental Protection Agency**

**for**

**Waste Licence Review**

**W0024-02**

**Ballynacarrick Landfill Site,  
Ballintra County Donegal**

**ATTACHMENTS TO SECTION H**

**Materials Handling**

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**ATTACHMENTS TO SECTION H      WASTE ACCEPTANCE AND HANDLING**

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**Appendix H**

Waste Handling and acceptance procedure OP01

Chapter 14 Waste projections 2005-2010 (Donegal Waste Management Plan (2006-2010)).

Chapter 15 Specific Policies for Municipal Waste (Donegal Waste Management Plan (2006-2010)).

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## **ATTACHMENTS TO SECTION H**

### **Attachment H.1      Waste Types and Quantities**

The quantity of waste to be accepted at the facility is to be increased to 35,000. In the Waste Management Plan (2000) Donegal County Council undertook to develop 2-4 landfill facilities in the County. A waste licence for the Meenaboll site has been granted by the EPA, however a decision to refuse approval of the application for Meenaboll was issued by An Bord Pleanála in January 2006 and therefore currently only one landfill site is in operation in County Donegal at Ballynacarrick. The site is currently licenced to accept 24,000 tonnes per year. This site is currently dealing with all wastes for disposal arising within the County. The tonnage of waste received at Ballynacarrick has increased significantly on the year 2003 due in part to the closure of the Balbane facility (in January 2004) and in part to the increased vigilance and effectiveness of our Waste Regulation team. They have substantially eliminated the illegal transfer of waste across the border. The site does not accept waste from any other jurisdiction. In order to deal with the waste arising within the County an increase in the annual input of waste to the site is required in order to comply with waste licence conditions.

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**Table H.1 (A) Quantities of waste in relation to each class of activity applied for**

Waste Management Act 3rd Schedule (Disposal) Activities		Waste Management Act 4th Schedule (Recovery) Activities	
Class of Activity Applied For	Quantity (tpa)	Class of Activity Applied For	Quantity (tpa)
Class 1		Class 1	
Class 2		Class 2	1,500 <sup>Note 2</sup>
Class 3		Class 3	350 <sup>Note 3</sup>
Class 4		Class 4	500 <sup>Note 4</sup>
Class 5	35,000	Class 5	
Class 6	9,261-30,811m <sup>3</sup> <sup>Note 1</sup>	Class 6	
Class 7		Class 7	
Class 8		Class 8	
Class 9		Class 9	
Class 10		Class 10	
Class 11		Class 11	
Class 12		Class 12	
Class 13	9,261-30,811m <sup>3</sup> <sup>Note 1</sup>	Class 13	1,500 <sup>Note 2</sup>

**Notes**

1. Leachate quantities vary over the operational period of the site between 23,984m<sup>3</sup> and 30,811 m<sup>3</sup> per annum depending on the operational phase. Post closure leachate generation continues at an estimated 9,261m<sup>3</sup>/annum (As per WBC Appendix D).
2. Total volume of wastes to be accepted at Civic Amenity Site is 1500 tonnes/annum not including Domestic Waste. This figure is in addition to 35,000 tonnage figure for landfill site. Donegal County Council intends to transfer these Civic Waste Facilities from Ballynacarrick Landfill Site to Laghey Civic Amenity Site when it opens.
3. Based on estimate that approximately 23% of waste accepted for recycling will be metal.
4. As per waste licence W0024-02.

The 35,000 tonnes will consist of the following:

Waste type	Maximum Quantity
Household and commercial	33,000
Industrial non hazardous waste	1,500
Construction and demolition.	500
<b>Total</b>	<b>35,000</b>

The European Waste Catalogue Codes for wastes to be received at the facility for disposal or recovery are as shown below. Other non hazardous waste wastes streams may be accepted at the facility; however the main waste stream will be mixed municipal waste.

Type of Waste	EWC
Mixed Municipal Waste	20 03 01
Street Cleaning	20 03 03
Packaging Waste	15 01 02 15 01 05 15 01 06
Ceramics, Bricks, Tiles ,After Thermal	10 12 08
Biodegradable Kitchen and Canteen Waste	20 01 08
Construction and Demolition	17 01 07
Water Treatment Sludge	19 09 99

#### **Third Schedule**

- 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 7 to 10 of this Schedule.
- Class 13:** Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

#### **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.

**Table H.1 (B) Annual Quantities and Nature of Waste**

Year	Non-hazardous waste (tonnes per annum)	Hazardous waste (tonnes per annum)	Total annual quantity of waste (tonnes per annum)
2007 (estimated 1 months input)	3,000	Not applicable	3,000
2008	35,000	Not applicable	35,000
2009	35,000	Not applicable	35,000
2010	35,000	Not applicable	35,000

Table H.1.(c) Waste Types and Quantities. Figures based on life expectancy of the landfill site of approximately 3 Years.

**Table H.1.2 Hazardous Waste Types and Quantities.**

Not Applicable. Landfill Site is for Non Hazardous Waste.

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## Attachment H.2 Waste Acceptance Procedures

Waste acceptance procedures will comply with the EPA's Manual on Waste Acceptance (Current Addition) and Council Decision establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 and Annex II of the Directive 1999/31/EC.

### Procedure:

#### ***Basic Characterisation***

1. Basic characterisations will be carried out in accordance with Section 1 of Annex to "Council Decision establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 and Annex II of the Directive 1999/31/EC" to determine the acceptability of the waste.
2. Waste shall only be accepted if it fulfils the acceptance criteria for non hazardous waste as set out in section 2 of the Annex.
3. The sampling and testing methods used will be in accordance with those listed in section 3 of the Annex.

#### **Leachate removal off site**

Leachate treated and stored in the leachate treatment tank shall be disposed of at a Waste Water Treatment Plant unless otherwise agreed in advance with the Agency.

The leachate shall be tankered off site by enclosed road tankers (25m<sup>3</sup>) by the agreed Contractor. All tankers, (daily and emergency cover) are labelled "Non Hazardous".

The leachate is removed from the leachate tank via a flexible pipe work attached to the tank and connected to the tankers as required.

The flow from the leachate tank to the tankers is controlled via a manual valve situated on the outlet of the tank.

The removal of the leachate is undertaken on a purpose built concrete slab only. All surface water and spillages in this area are collected into a gully which passes through a silt filter prior to being pumped back into the leachate treatment tank.

Frequency of discharge shall be determined by site manager depending on the storage capacity in the holding tank.

The leachate will be treated prior to tankering off site.

The volume of leachate removed shall be measured via the weighbridge for each tanker leaving the site. A record of the following shall be kept in the OP/09(a) Daily leachate Removal off Site Sheet in accordance with Condition 3.12.

- Name of carrier.
- Registration Number.
- Date and time.
- Volume of leachate in cubic metres removed from the facility on each occasion and EWC.
- Destination (Name of Waste Water Treatment Works).
- Any incidence of spillage during removal and transportation.

Leachate or leachate contaminated water shall not be allowed to accumulate in any areas other than leachate management system or be discharged to any river, stream or surface water.

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### Attachment H.3 Waste Handling

#### Waste Acceptance Procedure on entry to the site

Wastes are only accepted at the facility between the hours of 08.30 to 4.30 Monday to Friday inclusive and 09.00 to 13.00 on Saturdays with the exclusion of Bank Holidays unless otherwise agreed in advance with the Agency.

On arrival to site each vehicle shall stop at the reception where it shall be weighed and the following information recorded (except for domestic vehicles).

- Date
- Name of carrier
- Vehicle registration
- Name of the producer(s)/collector(s) of the waste as appropriate
- Weight in tonnes
- Description of waste including the associated EWC codes (Refer to OP01/ EWC listing for Ballynacarrick Landfill Site.
- Table of Waste Types acceptable at site
- Type of container (skip, rear end loader etc)
- Name of person checking load
- Record of all waste inspections carried out in the waste inspection area.
- Where loads of wastes are rejected, reasons for and the facility to where the waste was removed.

When vehicle stops on weighbridge,

***Click on weighbridge icon***

***Click on fleet number***

***Click on registration***

***Select registration from data base, information regarding vehicle will be displayed***

***Click on weigh in***

The vehicle can then proceed to active tipping area. On exiting the site the vehicle will again stop on weighbridge.

***Click on weigh out and enter if the waste was accepted at the working face by the Compactor driver. A docket will automatically print out giving the weight in tonnes, which must be signed by driver and weighbridge attendant.***

### **Public Waste**

A written record of the estimated quantity of waste recorded in kilograms from domestic vehicles shall be recorded on a daily basis.

### **Waste Inspections**

Perform random inspections of the waste contents of incoming loads in the waste inspection area provided the visual inspection has not revealed any unauthorised wastes the vehicle shall be allowed to proceed to the active tipping area. Complete the appropriate report form.

All municipal waste is to be visually inspected at the working face by Compactor driver to ensure that they comply with the requirement of the licence. The compactor driver will radio down to the site office and then the docket will be completed. A record of the name of the person checking loads at the working face will be kept and signed on a daily basis (EMP OP01– sample of waste docket).

### **Waste Rejection**

Wastes deemed to be in contravention of Waste Licence and/or unsuitable for recovery or disposal will be removed for recovery or disposal at an appropriate alternative facility. If the vehicle, which deposited the waste, is still on site then driver will be informed that waste will have to be removed. If the vehicle, which deposited waste, is offsite then waste will be stored in the Waste Quarantine area until the haulier is contacted to return to the site to remove the waste. No waste shall be stored in the Waste Quarantine Area for more than three months.

Implement the Waste Rejection Procedure as follows:

- Record the date of the occurrence,
- Record the type of waste contained,
- Record the name of the facility to which the waste was removed.

No hazardous or liquid wastes shall be disposed of at the site. Disposal of septic tank waste, silt, dredging and animal excrement is prohibited.

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.

### **General Waste Procedures**

Ensure that all vehicles delivering waste to and removing waste and materials from the facility are appropriately covered.

The working face of the landfill shall be no more than 2.5 metres in height after compaction, no more than 25 metres wide and have a slope no greater than 1 in 3.

All waste deposited at the working face shall be compacted; using a steel wheeled compactor, and covered by the end of the working day.

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.

Waste Handling and acceptance procedure OP01 from the Environmental Management System for the facility is included in Appendix H.

### **Attachment H.3 (a) Waste Handling at the Landfill Facility**

Chapter 14 and Chapter 15 of the Donegal Waste Management Plan 2006 -2010 details the Waste Projections and the specific policies for Municipal waste for the County. This includes targets of the Landfill Directive and the National Bio-Waste Strategy. The Waste Management Plan estimated that based on the 2004 Waste Quantities, 52% of households in the County did not avail of a waste collection service. The actual tonnage of waste going to landfill has been greater than that estimated in the Waste Management Plan and changes in the uncollected waste could be contributing towards this. Hence a waste collection take up study is currently being undertaken by Donegal County Council to assess number of household not availing of a waste collection service. This will allow an improved analysis of projected waste tonnages arising within the county moving forward.

Chapter 14 and Chapter 15 are included in Appendix H.

### **Attachment H.4 Waste Arisings**

Not Applicable