

**MONAGHAN COUNTY COUNCIL**

**SCOTCH CORNER LANDFILL**

**Reply to Articles 12 & 13**

**December 2007**

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## DOCUMENT CONTROL SHEET

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	1	-	8	-	-	1

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# 1 RESPONSE TO ARTICLE 12

## 1.1 REQUIRED FEE

As outlined below, Article 41 (3) of the waste licensing regulations requires a fee of €22,500 to be paid. The fee of €27,225 constitutes the required fee + VAT. This fee covers landfill as the principle activity.

*' Where a class of activity is identified more than once in column (1) of Part 1 of the second Schedule, the fee payable under sub-article (1) shall be the highest of the fees specified in column (3) of part 1 of the second Schedule opposite the class of activity so identified in column (1) of the Schedule. '*

## 1.2 PRINCIPLE ACTIVITY

In relation to the Principle Activity and Proportions of waste processed for recovery through MBT operations: It is proposed that landfill shall remain the principle activity at the site (59,250 tpa). In addition to this it is proposed that the quantity of organic and green waste allowable for composting be increased to 10,000tpa. In relation to MBT, the review is only aimed at allowing for the **possible provision** of a plant. Current MRF activities shall also continue.

**Table 1: Quantity of waste accepted at the Materials Recycling Facility 2006**

MRF	2006 Tonnes
Quantity Accepted	8,498
Quantity Recycled	5,280
Quantity Landfilled	3,218

As it may take quiet some time to implement the proposed MBT process (if at all), assumptions were made to determine the possible quantities of materials recovered and disposed following the implementation of the MBT process. It was assumed that the 59,250 tonnes of household, commercial, industrial, C&D and street cleaning material will be destined to landfill at present and without development of MBT. As it is only municipal waste that will be feed through the MBT plant, it is assumed that all municipal waste destined for direct landfill, will be feed through the MBT plant (45,470t –refer to table A.1 page 27 of the application). Following this process it is estimated that the quantity of municipal waste destined to landfill will be reduced by 61-77% (refer to table 3 page 19 of the application). Therefore it is estimated that between 10,458 tpa – 17,733 tpa of municipal waste originating from the MBT process shall be destined to landfill, bringing the overall quantity of municipal waste for disposal to landfill between 39,360tpa and 48,455 tpa.

It is estimated that between 10,913tpa – 25,463tpa of recyclables will be recovered following MBT, 10,000tpa will be composted and an estimated 5,000<sup>+</sup> tonnes will be recovered through the MRF.

### 1.3 COMPOSTING

In relation to Composting, the requested increase from 2,000 tpa to 10,000 tpa allowable for composting and the inclusion of non-source segregated organics, will allow for organic material collected via the 3 bin system, MBT organics and green waste accepted at the MRF to be composted. A cap of 10,000tpa was requested based on the limited space at Scotch Corner for composting equipment.

### 1.4 MBT WASTE FRACTIONS

In relation to the estimated fraction of wastes recovered and disposed following MBT operations, please refer to table 3 on page 19 of the application. It is estimated that approximately 24-56% of recyclable material (paper/cardboard, glass, metals, plastics) can be recovered, 22-36% of organic material can be recovered and 23-39% of residual material maybe destined for landfill. The various ranges are dependant on the composition of the waste bin contents.

Figure 1 on page 7 of the waste license review application, illustrates the various input and output fractions – however the associated quantities are shown as a best case scenario based on 1 tonne input material from the residual bin. Based on the assumption that 59,250tpa of waste will be destined to landfill, the maximum quantity of municipal waste available will be approximately 45,750tpa. The estimated output quantities detailed in Table 3 page 19 of the application are based on this assumption.

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## 2 RESPONSE TO ARTICLE 13

An application has been made to An Bord Pleanala regarding the requirement for an EIS to accompany this review application. MCC are awaiting their advice.

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### 3 ADDITIONAL REQUEST

It is also requested to amend Condition 5.10.1 of the current license to read the following:

*'Prior to the development of a Mechanical Biological Treatment plant (MBT), the Materials Recovery Facility shall only be used for the collection ,storage or processing of source separated recyclable wastes, other than domestic waste from private vehicles and skips on hire from the MRF operator. The facility shall not be used as a transfer station for the disposal of unsorted waste by commercial waste disposal vehicles or local authority collection vehicles.'*

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## 4 MONITORING LOCATIONS AND FREQUENCY

It is also requested to amend Article 12 (1) (m) of the review application to allow for 18 no. of groundwater monitoring locations. It is requested to amend table D.1.1 and table D.5.1 presented in Article 12(1) (m) (page 15 and 16 of the application) to reflect a recent rebore of bedrock groundwater monitoring borehole RC1, the requirement to monitor S9 on a quarterly basis and the removal of sampling at EPA155 and EPA180 as this is not a requirement of the licence. Please see below for the revised tables and monitoring location Drawing DG0203F02.

### D.1.1 Monitoring Locations (reviewed)

Landfill Gas	Dust	Noise	Surface water	Ground water	Leachate	Bioaerosols &PM10
Stations	Stations	Stations	Stations	Stations	Stations	Stations
L7, L8, L9	4 boundary locations (D1, D4, H4, H6)	Residence H3 & H6	S5, S6, S7, S8, S9	Groundwater overburden boreholes (B1a, B2a, B3a, B4a, B5a, B6a & S3)	L5, L6, L7, L8, L9	To be agreed prior to commencement of composting
All groundwater overburden monitoring locations		Dust monitoring locations (D1 & D4)		Groundwater Bedrock boreholes (B1, B2, B3, B4, B5, B6, RC1)		
Landfill office, MRF office, MRF canteen				Groundwater discharge points (G1 old, G1 new and G2)		
Flare Inlet & Flare outlet				Private well W7		

### D.5 Surface Water, Ground Water and Leachate (review)

Table D.5.1 Water and Leachate-Parameters/ Frequency

Parameter	Groundwater: Well Water (W7) Monitoring Frequency	Groundwater: Bedrock Boreholes (B1, B2, B3, B4, B5, B6 & RC1) Monitoring Frequency	Groundwater: Overburden boreholes (B1a, B2a, B3a, B4a, B5a, B6a & S3) Monitoring Frequency	Groundwater: Discharging to surface water (G1 & G2) Monitoring Frequency	Surface Water (S7 & S8) Monitoring Frequency	Surface Water (S5, S6 & S9) Monitoring Frequency	Leachate (L5, L7, L8 & L9) Monitoring Frequency	Leachate (L6) Monitoring Frequency
Level	N/A	Quarterly	Quarterly	N/A	N/A	N/A	Quarterly	N/A
Ammoniacal Nitrogen	Quarterly	Annually	Quarterly	Monthly	Monthly	Quarterly	Annually	Quarterly
BOD	N/A	N/A	N/A	Monthly	Monthly	Quarterly	Annually	Quarterly
COD	N/A	N/A	N/A	Monthly	Monthly	Quarterly	Annually	Quarterly

<b>Chloride</b>	Quarterly	Annually	Quarterly	Monthly	Monthly	Quarterly	Annually	Quarterly
<b>Dissolved Oxygen</b>	Quarterly	Annually	Quarterly	Monthly	Monthly	Quarterly	N/A	N/A
<b>Electrical Conductivity</b>	Quarterly	Annually	Quarterly	Monthly	Monthly	Quarterly	Annually	Quarterly
<b>pH</b>	Quarterly	Annually	Quarterly	Monthly	Monthly	Quarterly	Annually	Quarterly
<b>Total Suspended Solids</b>	N/A	N/A	N/A	Monthly	Monthly	Quarterly	N/A	Quarterly
<b>Temperature</b>	Quarterly	Annually	Quarterly	Monthly	Monthly	Quarterly	Annually	Quarterly
<b>Boron</b>	Annually	Annually	Annually	Annually	N/A	N/A	Annually	Annually
<b>Cadmium</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Calcium</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Chromium (total)</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Copper</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Cyanide (total)</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Fluoride</b>	Annually	Annually	Annually	Annually	Annually	N/A	Annually	Annually
<b>Iron</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Lead</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>List I/II Organic Substances</b>	Annually	Annually	Annually	Annually	Annually	N/A	N/A	Annually
<b>Mineral Oils</b>	N/A	N/A	N/A	N/A	N/A	S9 only Quarterly	N/A	N/A
<b>Magnesium</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Manganese</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Mercury</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Potassium</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Sulphate</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Sodium</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Total Alkalinity</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Orthophosphate</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Total Oxidised Nitrogen</b>	Quarterly	Annually	Quarterly	Quarterly	Annually	Annually	Annually	Annually
<b>Total Organic Carbon</b>	Quarterly	Annually	Quarterly	Quarterly	N/A	N/A	N/A	N/A
<b>Residue on Evaporation</b>	Annually	Annually	Annually	Annually	N/A	N/A	N/A	N/A
<b>Zinc</b>	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Annually
<b>Phenols</b>	Annually	Annually	Annually	Annually	N/A	N/A	N/A	N/A
<b>Total &amp; Faecal Coliforms</b>	Quarterly	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Biological Assessment</b>	N/A	N/A	N/A	N/A	S7 only Annually	N/A	N/A	N/A
<b>Atrazine</b>	N/A	N/A	N/A	N/A	Annually	N/A	N/A	Annually
<b>Simazine</b>	N/A	N/A	N/A	N/A	Annually	N/A	N/A	Annually
<b>Arsenic</b>	N/A	N/A	N/A	N/A	Annually	N/A	N/A	Annually
<b>Hardness</b>	N/A	N/A	N/A	N/A	Annually	N/A	N/A	Annually
<b>Nickel</b>	N/A	N/A	N/A	N/A	Annually	N/A	N/A	Annually

## 5 REVISED NON-TECHNICAL SUMMARY

The see attached for the revised non-technical summary which reflects the additional supplied information.

It should be noted that the name to which all correspondence and communications should be directed is now Donal McElwain, Senior Engineer at Monaghan County Council (Article 12(1) (b)).

### **ARTICLE 12 (1) (U)**

#### **Non-technical summary of information provided in accordance with Article 12 (1) (a) to(t)**

This application has been prepared in accordance with the Waste Management (Licensing) (Amendment) Regulations, 2004 (S.I. No. 395 of 2004).

Specific names, addresses and contact details have been supplied in accordance with Article 12 (1) (a) (b) (d). It should be noted that the name to which all correspondence and communications should be directed is now Donal McElwain, Acting Senior Engineer at Monaghan County Council (Article 12(1) (b)).

A site map which shows the extent of the entire site is attached in the appendices. A detailed inventory of the types and quantities of wastes currently accepted at the site and the proposed types and quantities of wastes to be accepted are listed in accordance with Article 12 (e) (f) and (g) of the review application and Table 1 of the reply to Article 12 request for further information.

Detailed information in relation to the provision of a mechanical biological treatment (MBT) plant is provided in accordance with Article 12 (1) (h) and (i). Particulars of emissions and proposed measures to limit /abate such emissions are described under Article 12 (k) and (L).

A revised monitoring location map is attached in the reply to Article 12 request for further information. A monitoring location map is included in the appendices and monitoring will be carried out as per Condition 8 of the current waste licence 20-1 and Article 12(1) (m) of this application.

Proposed arrangements for the prevention, minimisation and recovery of wastes arising from the proposed MBT process are outlined in Article 12 (n). Proposed restoration and aftercare measures are outlined in Article 12 (q). The financial provisions for the next 12 years have been described in accordance with Article 12 (1) (r). Scotch Corner landfill will only accept non-hazardous municipal, commercial and industrial waste, and street sweepings in accordance with Waste licence 20-1. The continued operation of Scotch Corner landfill is a key element of the North East Waste Plan.

It is the full intention of Monaghan County Council that they will comply with Section 40 (4) of the Waste Management Act, 1996 with regard to conditions of Waste Licence 20 - 1 or any of its amended

conditions as a result of this review. The grounds for this review of waste licence 20-1 are set out in accordance with Article 12 (3) (a) in section 1 of this report. The requirements of Article 12 (4) with which this application complies are listed in section 3 of this review. The proposed amendments to the existing waste licence conditions are listed in section 4 of this report.

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**APPENDIX A  
DRAWINGS**

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