

Attachment-4-3-6-Maximum Waste Accepted Calcs

The table below outlines the proposed Maximum Accepted Waste Totals for the facility broken down as required in the Application Form.

Table 1: Summary of proposed waste for acceptance at Drehid WMF

Waste Source			
	Destination on Site	TPA	Details
Municipal Solid Waste	MSW Landfill	120,000	Pre-treated waste from municipal sources
Organic Fines/Source Segregated Biowaste	Compost Facility	90,000	Biodegradable waste suitable for composting
IBA	Non-Hazardous Landfill	200,000	Current estimate of IBA material available from the market
Other Non-Haz Waste	MSW or Non-Hazardous Landfill	45,500	See Note 1 below
FGTR/Fly Ash	Haz Landfill	50,620	Current estimate of FGTR/Fly Ash material available from the market
Municipal Subtotal		506,120	
Non-Hazardous Soil & Stone	Non-Hazardous Landfill	2,250	Estimate
C&D Fines	Non-Hazardous Landfill	2,250	Estimate
Engineering Materials	MSW Landfill	120,000	Engineering materials required for construction of temporary haul roads and turning areas on the MSW landfill
C&D Subtotal		124,500	
Other Haz Waste (including asbestos, hazardous C&D waste, contaminated soils and other wastes listed in NaDWaF report ¹)	Haz Landfill	34,380	Remaining capacity volume for hazardous landfill (excluding FGTR/Fly Ash)
Other Subtotal		34,380	
TOTAL		665,000	

Note 1: It is intended that the additional output from the compost facility (i.e. output from the composting of 65,000 TPA) will be disposed of to the Non-Hazardous Landfill. The compost facility output is typically 70% of the input (i.e. 70% of 65,000 is 45,450). However, in the event that there is not 45,500 TPA of compost output available from within the Drehid WMF, approval is being sought to import suitable non-hazardous material to the facility wherein the maximum quantity of material accepted for disposal at the Non-Hazardous Landfill is 250,000 TPA.

¹ Report on *Technical and Economic Aspects of developing a National Difficult Waste Facility (NaDWaF)* published by SKM Enviros and EPA in July 2010.

Table 1 above summarises the anticipated waste types for acceptance at the Drehid WMF subdivided as Municipal, C&D and Other as required. The above subtotals are the current anticipated volumes for each waste type but will be subject to securing contracts with waste producers and operators. In particular, the ability for Bord na Móna to secure up to 200,000 TPA of IBA and 50,620 TPA of FGTR/Fly Ash is dependent on agreeing contracts with operators of existing Waste-to-Energy facilities which cannot be fully secured until permission is in place to accept the waste at Drehid. In addition, the anticipated volume of FGTR/Fly Ash (50,620 TPA) includes allowance for hazardous ash waste generated at future Waste-to-Energy facilities which have yet been built, such as the Indaver Waste-to-Energy Facility in Ringaskiddy. The provision of an additional 300,000 TPA of waste-to-energy capacity in Ireland is jointly supported by the Waste Management Regions and the waste quantities proposed for acceptance, as above, allow for the future proofing of the facility to accept this waste where it becomes available.

While the above waste quantities are a current estimate of the breakdown of waste types which will be accepted at the facility, approval is being sought to accept a maximum total of 665,000 TPA of waste to the Drehid facility. The actual breakdown of waste types accepted to the facility (subdivided as Municipal, C&D and Other) may vary from Table 1, such that the maximum total is not exceeded at any time. In addition, the maximum quantities for acceptance to the following infrastructure will not be exceeded:

- MSW Landfill – 120,000 TPA (pre-treated municipal waste for disposal)
- MSW Landfill – 120,000 TPA (engineering materials for recovery)
- Non-Hazardous Landfill – 250,000 TPA
- Hazardous Landfill – 85,000 TPA
- Compost Facility – 90,000 TPA

Table 2: Summary of proposed waste for acceptance at Drehid WMF (Hazardous and Non-Hazardous)

Waste Type		
	TPA	Details
Hazardous Landfill	85,000	
Hazardous Total	85,000	
MSW Landfill (municipal waste)	120,000	
MSW Landfill (engineering materials)	120,000	
Non-Hazardous Landfill	250,000	
Existing Composting	25,000	
Existing Composting Increase	20,000	
Compost Facility Extension	45,000	
Non-Hazardous Total	580,000	
TOTAL	665,000	

Table 2 above summarises the maximum quantities of non-hazardous and hazardous waste to be accepted at the Drehid WMF on an annual basis.

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