

Attachment-4-3-8-Landfill Calculation Explanation

The online application form under Section 4.3 (Waste Activities) heading Landfill only allows for inputting data relating to one landfill structure. As per this IED Licence application, approval is being sought for three separate landfills at the Drehid WMF site. The data input to the online application form refers to the existing MSW Landfill which is currently operational. The required information for each of the three landfills is provided below:

MSW Landfill:

	Quantity in tonnes	Void in cubic metres	Date of Measurement
Waste deposited to date	6,217,593	4,352,315	24/09/18
Total waste to be deposited over lifetime of development (including total deposited to date)	7,200,000	5,040,000	

Density of compacted waste used is 1.43 tonnes/m³ based on current site experience.

Non-Hazardous Landfill:

	Quantity in tonnes	Void in cubic metres	Date of Measurement
Waste deposited to date	0	0	Not Applicable
Total waste to be deposited over lifetime of development (including total deposited to date)	6,250,000	5,000,000	

Density of non-hazardous waste used is 1.25 tonnes/m³ which is estimated from various waste types proposed for disposal in the landfill, namely IBA, soil, stabilised biowaste and mixed C&D waste.

Hazardous Landfill:

	Quantity in tonnes	Void in cubic metres	Date of Measurement
Waste deposited to date	0	0	Not Applicable
Total waste to be deposited over lifetime of development (including total deposited to date)	2,125,000	1,980,000	

Density of non-hazardous waste used is 1.07 tonnes/m³ which is estimated from various waste types proposed for disposal in the landfill, namely solidified FGTR/fly ash, soil and asbestos.

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