



**CALCULATION OF REMAINING LANDFILL VOID SPACE;
ANNUAL RETURN 2013**

1.0 INTRODUCTION

This note has been generated to satisfy permit conditions 3.6.3, 4.2.1(g, h & j); the monitoring & reporting of deposited waste and remaining void space as calculated from topographical surveys.

2.0 TOPOGRAPHICAL SURVEY

A land surveyor from Rambolls' undertook a topographical survey of Landfill No1 on the 20th May 2013. The previous survey was undertaken on the 29th August 2012. The remaining cell capacities & volumetric difference 2012/2013 are presented in **Table 1**.

The remaining capacities are calculated assuming a horizontal finish elevation of 12.5mAOD for the deposited waste. The remaining capacity does not discount for any construction materials required to finish the bunding for Cell 3/4.

Contoured drawings are available as paper/electronic copies and can be forwarded if required.

	2012	2013	Difference
	m ³	m ³	m ³
Cell 1 & 2	21,241	21,928	(+)687
Cell 3 & 4	45,945	45,945	0
	Total		(+)687

Table 1: Remaining Capacities & Volumetric Difference 2012/2013

3.0 DISCUSSION

The remaining void space capacity with Cell 1 & Cell 2 has increased between surveys despite the tipping of approximately 1000t of waste during the same time period. The apparent increase in capacity can be assumed to result from compaction and settlement of the waste mass.