

Josephine Kennedy

W0060-03

From: Ewa Babiarczyk
Sent: 25 August 2009 14:41
To: Josephine Kennedy
Subject: FW: Whiteriver Landfill
Attachments: Void Space - tonnages.doc; Void space calculations.xls

From: Pat Finn [mailto:pat.finn@louthcoco.ie]
Sent: 21 August 2009 16:36
To: Ewa Babiarczyk
Cc: Ann Kehoe; Damien Holmes
Subject: Whiteriver Landfill

A chara,

I refer to EPA letter dated 27th July 2009 seeking the following information:

'Provide one figure in cubic metres for the total quantity of waste to be placed at the landfill (over authorised life of the facility). Provide information on the way this amount has been calculated.'

The estimated quantity of waste already placed in the landfill since the commencement of the first licence (October 2000 - 30th June 2009) is 664,375 cum. The estimated capacity remaining is 990,081 cum.

Information on the way this has been calculated is contained in the two attachments.

I trust this is satisfactory but if you have any queries please contact the undersigned or Damien Holmes, Landfill Manager.

Yours truly,

Pat Finn

Senior Engineer

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Baineann an teachtaireacht seo le úsáid an duine (an faighteoir ceaptha) a bhfuil sé dírithe chuige amháin. Féadfaidh eolas a bheith

28/08/2009

inti, a bhfuil pribhléide agus rúnda lastigh de míniú an dlí is infheidhme.

Mura seolai thú, cuir an seoltóir ar an eolas chomh luath is féidir, le do thoil.

Ní gá gurbh ionann na tuairimí sa cumarsáid seo agus na tuairimí atá ag Chomhairle Chontae Lúghaí.

Seiceáil scanachán-viris aon cheangaltán agus ba dhóigh go bhfuil said glan. Áirithigh, le do thoil, go raibh gach teachtaireacht seiceáilte agat chomh maith, de dheasca nach glacann Comhairle Chontae Lúghaí aon fhreagracht do éilliú nó damáiste ar do chóras.

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Waste Licence W0060-02

The current licence gives the following remaining capacities (as of 2003):

Proposed Extension (Phases 5 & 6)	= 1,248,000 tonnes
Existing and Proposed (Phase 3, 4, 5 & 6)	= 1,654,500 tonnes

Supporting Environmental Impact Statement (EIS)

EIS uses a density of 0.9 tonnes/m³ (Page 5 of 158)

Page 26 of 158 of the EIS states that Whiteriver has a capacity of 1,654,456 m³.

Phase	Cell	Remaining Void Capacity (m ³)
3	1	48,733
	2	143,828
4	1	107,359
	2	106,495
5	1	235,829
	2	248,047
	3	119,286
6	1	253,868
	2	247,048
	3	143,963
Total		1,654,456

The EIS estimated that the Void space would be filled in approximately 17 years at maximum annual filling rates.

Calculations:

Assume a 0.9m³/tonne density for waste and a 2.5t/cum density for the cover material (based on on-site calculations). This gives a total of **664,375cum of void space, filled**

since the date of commencement of the first licence (October 2000 to July 2009). Refer to attached spreadsheet for details.

Assume a total landfill capacity of 1,654,456 cum as per the EIS. This gives a total of **990,081 cum of void space remaining.** (1,654,456-664,375)

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VOID SPACE CALCULATIONS - TONNAGES TAKEN FROM AER'S

Year	Tonnes		M ³	
	Waste	Cover material	Total (tonnes)	Total M ³
2000 (1/3 of annual total)	7,875	0	7,875	8,750
2001	37,146		37,146	41,273
2002	25,776		25,776	28,640
2003	36,006	5149	41,155	40,007
2004	60,833	9,008	69,841	67,592
2005	80,633	20,440	101,074	89,592
2006	82,547	37,704	120,252	91,719
2007	70,395	45,285	115,681	78,217
2008	84,402	49,942	134,942	93,780
2009 (1/1/09 to 30/6/09)	43887	22576	66,463	48,763
			720,205.00	588,333
				9,030
				76,042
				57,794
				664,375

Assumptions

Waste density 0.9tonnes/m3

Cover material density 2.5 tonnes/m3

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