


This Report has been cleared for submission to the Board by David Flynn, Programme Manager

Signed: 

Date 4 October 2018

 <b>epa</b> Environmental Protection Agency <i>An Ghníomhaireacht um Chaomhú Comhshaoil</i>	<b>OFFICE OF ENVIRONMENTAL SUSTAINABILITY</b>
<b>ENVIRONMENTAL LICENSING PROGRAMME</b>	
TO:	Each Director
FROM:	Brian Meaney, Inspector, Environmental Licensing Programme
DATE:	4 October 2018
RE:	Addendum to a Report on a Technical Amendment. Industrial Emissions Licence Register Number W0178-02 held by Galway County Council. Licence change request CR04163.

At a Board meeting on 2 October 2018, I was asked to do three things to assist the Board:

- present an analysis of the authorised capacity of the East Galway landfill;
- consider whether amending the licence would require appropriate assessment under the Habitats Directive; and
- prepare a draft technical amendment document.

Items 1 and 2 are presented below. A draft technical amendment document accompanies this addendum report.

### 1. Capacity of the landfill

The inspector's report for the first licence (W0178-01) indicates that the landfill was to be developed in three phases. The AER 2017 states that phase 1 (3 cells) has been completed and phase 2 (6 cells) is nearing completion. Phase 3 has not been built and would have comprised 6 additional cells.

According to Licence Register Number W0178-02, the total quantity of waste permitted to be placed at the landfill is 1,452,125 cubic metres (m<sup>3</sup>). The licensee is authorised to accept up to 100,000 tonnes of waste per year for disposal. In addition, up to 27,320 tonnes of inert waste can be accepted each year for recovery (for the purposes of restoration and aftercare).

The AER for 2017 reports that, between 2005 and 2017, approximately 979,000 tonnes of waste were placed into 9 cells. Table 1 below shows the detailed data.

The table shows that in all but 2 years, the overall annual authorised intake of waste was not used up. The unused authorised intake amounts to some 150,171 tonnes.

Notes:

- I have excluded 2013, 2014 and 2015 from the calculation so as not to skew the data by attributing allowances to years when the landfill was not accepting waste for disposal.
- I have added as an additional line item the 18,962 tonnes accepted in 2017 for reprofiling cells 4 and 5.

**Table 1 Waste intake under Tables A.1 and A.2 of Schedule A of the licence**

Table A.1 authorises intake of up to 100,000 tonnes of waste for disposal.

Table A.2 of the licence authorises the intake of up to 27,320 tonnes of inert waste for the purposes of restoration and aftercare. Note the attribution of waste types to Table A.2 is the licensee's.

<b>Waste description</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>SUM (of left)</b>
Waste disposed of (Table A.1)	98,268	101,631	98,309	99,638	101,737	102,379	105,515	443	0	0	48,198	84,349	<b>840,467</b>
Shredded timber (Table A.2)	2,690	4,483	6,951	4,121	2,942	3,759	3,583	0	-	-	329	1,496	<b>30,354</b>
Recovered C&D Rubble (Table A.2)	1,202	989	255	-	1,080	1,585	70	0	-	-	0	1,552	<b>6,733</b>
Soil and fine material used for daily and intermediate cover and liner protection (Table A.2)	14,538	23,692	6,711	803	2,801	2,296	23,575	1,778	-	-	3,883	21,338	<b>101,415</b>
Waste for reprofiling accepted in 2017	-	-	-	-	-	-	-	-	-	-	-	18,962	<b>18,962</b>
<b>Total waste accepted</b>	<b>116,698</b>	<b>130,795</b>	<b>112,225</b>	<b>104,563</b>	<b>108,561</b>	<b>110,019</b>	<b>132,742</b>	<b>2,221</b>	<b>0</b>	<b>0</b>	<b>52,409</b>	<b>127,697</b>	<b>997,930</b>
Authorised tonnage, overall (Table A.1 + table A.2)	127,320	127,320	127,320	127,320	127,320	127,320	127,320	-	-	-	127,320	127,320	<b>1,145,880</b>
Unused allowance, overall	10,622	-3,475	15,095	22,757	18,759	17,301	-5,422	-	-	-	74,911	-377	<b>150,171</b>

## 2. Appropriate assessment

A screening for appropriate assessment was undertaken and is documented in the accompanying draft technical amendment document.

Table 2 lists the European Sites assessed, their associated qualifying interests and conservation objectives.

**Table 2 List of European Sites assessed, their associated qualifying interests and conservation objectives**

European site [site code]	Distance from installation	Qualifying interests (* denotes a priority habitat)	Conservation objectives
Rahasane Turlough SAC [000322]	Approximately 36km downstream	3180 Turloughs*	As per NPWS (2018) Conservation objectives for Rahasane Turlough SAC [000322]. Generic Version 6.0. Department of Culture, Heritage and the Gaeltacht. 21/2/2018.
Rahasane Turlough SPA [004089]	Approximately 36km downstream	A038, Whooper Swan, <i>Cygnus cygnus</i> A050, Wigeon, <i>Anas penelope</i> A140, Golden Plover, <i>Pluvialis apricaria</i> A156, Black-tailed Godwit, <i>Limosa limosa</i> A395, Greenland White- fronted Goose, <i>Anser albifrons flavirostris</i>	As per NPWS (2018) Conservation objectives for Rahasane Turlough SPA [004089]. Generic Version 6.0. Department of Culture, Heritage and the Gaeltacht. 21/2/2018.
Galway Bay Complex SAC [000268]	Approximately 46km downstream	1140 Mudflats and sandflats not covered by seawater at low tide 1150 Coastal lagoons* 1160 Large shallow inlets and bays 1170 Reefs 1220 Perennial vegetation of stony banks 1310 <i>Salicornia</i> and other annuals colonising mud and sand 1330 Atlantic salt meadows ( <i>Glauco-Puccinellietalia maritima</i> ) 1355 Otter <i>Lutra lutra</i> 1365 Harbour seal <i>Phoca vitulina</i> 1410 Mediterranean salt meadows ( <i>Juncetalia maritimi</i> ) 3180 Turloughs* 5130 <i>Juniperus communis</i> formations on heaths or calcareous grasslands	As per NPWS (2013) Conservation Objectives: Galway Bay Complex SAC 000268. Version 1. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht. 16/4/2013

European site [site code]	Distance from installation	Qualifying interests (* denotes a priority habitat)	Conservation objectives
		6210 Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia) (*important orchid sites) 7210 Calcareous fens with <i>Cladium mariscus</i> and species of the Caricion davallianae* 7230 Alkaline fens	
Inner Galway Bay SPA [004031]	Approximately 46km downstream	A003 Great Northern Diver <i>Gavia immer</i> A017 Cormorant <i>Phalacrocorax carbo</i> A028 Grey Heron <i>Ardea cinerea</i> A046 Brent Goose <i>Branta bernicla hrota</i> A050 Wigeon <i>Anas penelope</i> A052 Teal <i>Anas crecca</i> A056 Shoveler <i>Anas clypeata</i> A069 Red-breasted Merganser <i>Mergus serrator</i> A137 Ringed Plover <i>Charadrius hiaticula</i> A140 Golden Plover <i>Pluvialis apricaria</i> A142 Lapwing <i>Vanellus vanellus</i> A149 Dunlin <i>Calidris alpina alpina</i> A157 Bar-tailed Godwit <i>Limosa lapponica</i> A160 Curlew <i>Numenius arquata</i> A162 Redshank <i>Tringa totanus</i> A169 Turnstone <i>Arenaria interpres</i> A179 Black-headed Gull <i>Chroicocephalus ridibundus</i> A182 Common Gull <i>Larus canus</i> A191 Sandwich Tern <i>Sterna sandvicensis</i> A193 Common Tern <i>Sterna hirundo</i> A999 Wetlands	As per NPWS (2013) Conservation Objectives: Inner Galway Bay SPA 004031. Version 1. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht. 1/5/2013

### 3. Draft technical amendment

A draft technical amendment document has been drawn up and accompanies this addendum report.

Signed,

A handwritten signature in blue ink, appearing to read "Brian W. [unclear]".

Environmental Licensing Programme