

ATTACHMENT 8.2.1 WASTE HIERACHY

Section 29(2A) of the Waste Management Act 1996 as amended states that it shall be the duty of waste producers and holders to ensure that waste undergoes recovery operations in accordance with sections 21A (Waste Hierarchy) and 32(1) of the Waste Management Act.

Ballynacarrick Landfill Site operated from c.1980 until closure in July 2012 due to the capacity of the facility being exhausted. No waste will be accepted at the facility for disposal.

An Integrated Constructed Wetland (ICW) as agreed with the Office of Environmental Enforcement will be installed at the landfill facility to provide an effective, sustainable and self-sufficient leachate management and treatment system which minimises, and where possible eliminates, the requirement to export leachate (19 07 03 landfill leachate other than those mentioned in 19 07 02) from the site to Letterkenny WwTW for final treatment. The effluent from the leachate treatment plant will be diverted to ICW tertiary treatment and discharge to the adjacent waterbody.

Since the granting of the Waste Licence a significant investment in the restoration of the site, including the installation of leachate management infrastructure, has been made by Donegal County Council (DCC). Leachate management infrastructure has been installed progressively as the site has been developed and restored in accordance with the current waste licence issued by the Environmental Protection Agency (Licence Ref: W0024-04).

Leachate abstraction rates vary on an annual basis, subject to capacity of the system onsite and annual rainfall, but is typically 35,000m³ and was over 37,500m³ in 2016 and 2019. Annual records outlining the volumes of leachate abstracted, treated and exported from Ballynacarrick landfill site between 2016 and 2021 are outlined below.

Table 1 Annual Leachate Records (2016 - 2021)

Year	Annual Abstraction (m ³)	Equivalent Average Daily Abstraction (m ³)	Annual Precipitation at Markree (mm)
2016	37,644	102.85	1,202
2017	36,931	101.18	1,205
2018	35,097	96.15	1,128
2019	37,505	102.75	1,347
2020	31,780	86.83	1,408
2021	27,684	75.84	1,319