

Mr. Cathal Brodie,
Executive Scientist,
Clare County Council,
Áras Contae an Chláir,
Department of Physical Development (Environment),
New Road,
Ennis,
Co. Clare.

5th February 2021

Reg. No. H0030-01

Re: Kilrush Historic Landfill – Notice in accordance with Regulation 7(4) of the Waste Management (Certification of Historic Unlicensed Waste Disposal and Recovery Activity) Regulations, 2008

Dear Mr. Brodie,

I am to refer to the above referenced application for a certificate of authorisation in relation to the above referenced historic landfill.

Having examined the foregoing, I am to advise that the Agency is of the view that the application does not comply with Regulation 7(2) of the Waste Management (Certification of Historic Unlicensed Waste Disposal and Recovery Activity) Regulations, 2008.

You are therefore requested in accordance with Regulation 7(4) of the Regulations, to take steps to supply the information detailed below:

REGULATION 7(2) COMPLIANCE REQUIREMENTS

1. State the Section 22 Register Number for the closed landfill.
2. The site boundary shown in Figure No. 2.3 titled ‘Surrounding Landuse’, of the Tier 3 Environmental Risk Assessment Report, and Figure No. 3.1 titled ‘Sample Locations’, of the same document, differ from each other. Provide, or refer to, a figure/map that shows the correct site boundary.
3. Section C.2 of the Application form states that the landfill was operational from 1981 until 1992. Section 7.0 of the Exploratory Investigation Report refers to the packing found in the landfill and states that the dates on this packing suggest that waste was deposited between 1980 and 1993. State the operational period of the landfill.
4. Section 3.3.1 of the Tier 3 Assessment states that waste deposited is predominantly municipal with circa 10% commercial/industrial waste and a small amount of farm plastic. Section 7.0 of the said Exploratory Investigation Report states that mainly industrial and commercial waste, with little or no municipal waste was observed in the trial holes. State the predominant type(s) of waste deposited in the landfill.

5. It is noted that groundwater sampling was carried out in trial pits within the waste body in 2010. Please carry out new groundwater monitoring in groundwater monitoring boreholes at, a minimum, one location upgradient of the waste body and two locations downgradient of the waste body.
6. It is noted that leachate samples were collected from trial holes (TH-2 and TH-4) within the waste body in 2010. Please carry out new leachate monitoring. Please also compare the new leachate monitoring results against the Waste Acceptance Criteria set out in Council Decision of 19 December 2002 establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 of and Annex II to Directive 1999/31/EC.
7. It is noted that gas monitoring was carried out using impact searcher bars in 2008. It is considered that gas monitoring using impact searcher bars may not be reflective of the actual gas concentrations within the waste body. Accordingly, carry out new gas monitoring at gas monitoring boreholes within the centre and along the perimeter of the waste body.
8. It is noted that all trial pits shown in Figure 3.1: *Sample locations* of the Tier 2 Site Investigation Summary are annotated as “TH03”. It is also noted that the monitoring locations shown in Figure 6: *Trial Holes, Scrape-back investigations, SW monitoring points and Drainage at site* of the Exploratory Investigation Report are not legible. Provide a drawing showing the following elements interpolated:
 - (i) all of the existing and proposed monitoring locations, including their symbols, for gas, leachate, groundwater and surface water; and
 - (ii) the site boundary.
9. Provide the SW monitoring point references for the locations of the surface water samples annotated as 20-0628, 20-0629, 20-0630 etc. in the surface water laboratory results 2020.
10. Section 2.6.3 Hydrogeology of the Tier 3 Environmental Risk Assessment Report states that it is likely that shallow groundwater beneath the site discharges to the stream to the north of the site, however, the groundwater flow direction given in the trial hole (TH) profiles in Appendix C of the Exploratory Investigation Report differs. For example, the groundwater direction is stated to be from North-East to South-West in TH1 and from West to East in TH2. State the direction of groundwater flow beneath the site and explain how this direction was determined. Include a drawing showing the groundwater flow direction. Annotate on this drawing the receiving stream or river where groundwater discharges.
11. Section 5: *Remedial Action Plan* of the Tier 3 Assessment recommends a low permeability clay retaining berm in areas between the edge of the waste and the adjacent drains. However, Figure 5.1 of the said Section 5 shows the compacted clay perimeter berm along the entire perimeter of the site. Clarify whether the berm is proposed to be constructed along the northern and western site boundary where the adjacent drains flow as shown in Figure 2.2 of the Tier 3 Assessment, or along the entire perimeter of the site.
12. State the proposed use of the site post remediation measures.
13. Provide a Non-technical summary of the application requested in Section A of the Application Form.

Please note that the Non-technical summary required in point 13 should reflect the information that has already been submitted as part of the application and the information you supply in compliance with the notice, insofar as that information impinges on the non-technical summary.

In the case where any drawings already submitted are subject to revision consequent on this request, a revised drawing should be prepared in each case. It is not sufficient to annotate the original drawing with a textual correction. Where such revised drawings are submitted, provide a list of drawing titles, drawing numbers and revision status, which correlates the revised drawings with the superseded versions.

Please supply the information within *four weeks* of the date of this notice. Please note during Covid-19 there are new arrangements in place for the receipt of all correspondence in relation to applications for Certificates of Authorisation. Accordingly, any application documentation should be emailed to licensing@epa.ie using the file transfer application Microsoft OneDrive and quoting the EPA Application Register Number H0030-01. The EPA doesn't accept files to be transferred using any file share application other than MS One Drive. Each file should be in a searchable .pdf format and a size not exceeding 10MB.

Please also note, post Covid-19, you may be contacted to submit the hard copies and CD-ROMs for the submitted electronic correspondence.

Yours sincerely,



Ewa Babiarczyk
Inspector
Environmental Licensing Programme
Office of Environmental Sustainability