



Health Beacon
Naas Road Business Park,
20 Muirfields Dr,
Inchicore,
Co Dublin

Bund Integrity Assessment
Inspection and Testing of Bund Structures

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2.0 Introduction

Most Integrated Pollution Control Licences issued by the EPA address the issue of bund integrity in a condition under the heading of 'Control and Monitoring', where the integrity and water tightness of all underground pipes, tanks, bunding structures and containers and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee prior to use.

Enva were appointed by Health Beacon. to survey and inspect bund in compliance with the Conditions of its IED Licence W0308-01.

Health Beacon are required to have their bunds tested for the protection of ground and surface water under their waste licence number W0308-01.

This bund integrity assessment documents the test results for the bunds and bunded tanks located at Health Beacon Naas Road Business Park, 20 Muirfield Dr, Inchicore, Co Dublin.

3.0 Summary of Results

Table 1 below outlines the bund tested at the Health Beacon, Inchicore facility. The bund that was tested was in good shape and received a pass.

Bund I.D.	Bund Description	Test Date	Pass/Fail	Recommendations/Comments
Bund No 1.	IBC Bund	16/04/2025	Pass	Bund satisfactory

Table 1: Summary of Results

4.0 Summary Methodology

For bunds which have been in service for some time a number of checks are required to determine the most appropriate actions to assess the integrity and water tightness of each individual bund. The following factors should be considered to determine whether or not a physical test such as a hydrostatic test should be carried out:

- Is it necessary to test the bund?
- Is it safe to test the bund?
- Is it practicable to test the bund?

A preliminary visual inspection was carried out on the bunds to determine if there were any cracks, fractures, superficial or structural damage, bund wall and bund wall to floor joints were also visually inspected.

Controlled supervised hydrostatic tests were carried out on the bunds in accordance with the procedure as outlined in BS8007:1987.

- A 20 litre drum was placed adjacent to the bund. The 20 litre drum was filled approximately 150 mm from the top of the drum and the water level was marked clearly. This was used as a reference point to indicate water gain/loss from rainfall or evaporation. All measurements were recorded and photographed.
- The bund was filled to a specified level using clean water. All measurements were recorded and photographed.
- Once filling was complete liquid levels were allowed to stabilise for 30 minutes. After stabilisation a number of measurements were taken including from the top of the water level to the top of the bund wall, from the bund floor to the surface water level wall. These were recorded and photographed.

- A reference point was drawn on the wall points where these measurements were taken to ensure the measurements were taken at the same points during the finalisation of the testing.
- Once the Bund were filled and marked they were left in that position for 60 minutes. Measurements were taken and water level marks were cross checked against the actual water level.
- Photographs were taken of the measurement tape against the water level also to provide a visual confirmation of levels.
- As a cross check, the water level in the 20 litre drum was checked to identify whether or not there was a water gain/loss which identifies rain or evaporation.
- All details were populated into the “Record Sheet for Bund Testing” document as prescribed by the EPA.

5.0 Bund Test Record Sheets

5.1 Bund ID: IBC Bund

Company:	Health Beacon	Date of Inspection:	16 th April 2025.
Site:	Naas Road Business Park, 20 Muirfield Dr, Inchicore, Co. Dublin.	License Reg. No.:	W0308-01
Bund Ref. No.:	IBC Bund	Bund Type (Local/Remote/Combined/Portable):	Local - Prefabricated
Bund Dimensions:	1.24m x 1.24m x 0.64m	Primary Vessel(s) - Materials of Construction:	Plastic IBC
Bund Construction Material:	Steel	Primary Vessel(s) - Total Storage Volume:	IBC- 1m3 1000 ltr
Bund Lining Material:		Primary Vessel(s) - 110% Volume of Largest Vessel:	1.1 m3 1100 ltr
Bund Retention Volume:	0.9840 (948 L)	Primary Vessel(s) - 25% of Total Storage Volume:	N/A

Deemed Practicable / Safe to Conduct Hydrostatic Test? Yes/No **YES**

If no give reasons:

Visual Inspection: Visual Inspection around internal and external of bund walls reveals no signs of breaches or leaks.

Photographs APPENDIX A

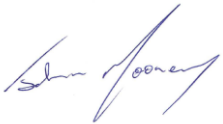
HYDROSTATIC TEST DETAILS:

BS 8007:1987 (Yes/No)?	YES
Fill Rate	N/A
Stabilisation Period	Acceptable (1hrs)
Duration of the Test	1 hrs
Acceptance Criteria (Total permissible drop in water level)	During the test period, the total permissible drop in level after allowing for evaporation and rainfall should not exceed 1/500 th of the average water depth, 10 mm or another specified amount.
Water Level Change in Reference Vessel	No change in level detected

Date and Time	Water Level in Bund	Water Level in Reference Vessel	Bund Level (+/-) (mm)	Reference vessel Level (+/-) (mm)
Reading 1. 16/04/25 10:00	504 mm	60 mm		
Reading 2 16/04/2025 11:00	504 mm	60 mm	0 mm	0 mm

Description / Comments of Hydrostatic Test:
 Test completed successfully, depth of water in bund measured and photographed at the beginning of the test and 1 hour after. The stationary Bund was Housed indoors which prohibited external weather events having any impact on the test. Based on the survey and hydrostatic test carried out ENVA deem the IBC bund to be of sound integrity and therefore Passed.

VISUAL TEST DETAILS: INSPECTION DESCRIPTION & RESULTS:

Visual Inspection around internal and external of bund walls reveals no signs of breaches or leaks.		
Result (Pass/Fail)	PASS	
Recommendation(s): Retest April 2028 as per the conditions outlined in license.		
Signed: 	Title : BAgrSc, Msc (Agr)	Date: 16/04/2025

Health Beacon IBC Bund:



Day 1 (01/08/2024)

Day 2 (02/08/2024)



Reference Vessel Level: 60mm



Reference Vessel Level: 60 mm



Bund Test Depth: 504 mm



Bund Test Depth: 504 mm

