

Site Visit Report

Under the *European Union (Drinking Water) Regulations 2023*, the Environmental Protection Agency (EPA) is the supervisory authority in relation to Uisce Éireann and its role in the provision of public drinking water supplies. This audit was carried out to assess the performance of Uisce Éireann in providing clean and wholesome water to the public water supply named below.

The audit process is a sample of the performance of a water treatment plant and public water supply on a given date.

Water Supply Zone	
Name of Installation	Ballykilty
Organisation	Uisce Éireann
Scheme Code	0500PUB2571
County	Cork
Site Visit Reference No.	SV35013

Report Detail	
Issue Date	10/04/2026
Prepared By	Pauline Gillard

Site Visit Detail			
Date Of Inspection	06/03/2026	Announced	No
Time In	12:35	Time Out	13:10
EPA Inspector(s)	Pauline Gillard Patrick Kenny		
Additional Visitors			
Company Personnel	Uisce Éireann: Sharon O'Dwyer, Claire Kelly, M Hassan Shabbir, Dominic Mc Evoy and Donal Fenton. Cork County Council: Padraig Griffin and Killian Tate.		



Summary of Key Findings

1. Disinfection consists of primary Chlorination. The audit found that the disinfection system was operating correctly at the time of inspection.

Uisce Éireann should submit a report to the EPA on or before 10/05/2026 detailing the actions taken and planned, with timescales, to close out the recommendation in this audit report.



Introduction

Ballykilty PWS produces approximately 28m m3/day of water serving a population of 122 (EDEN figures). The audit focused on the disinfection system at Ballykilty WTP.



Supply Zones Areas Inspected

The audit assessed the Chlorination disinfection system at Ballykilty PWS.



1. Disinfection Audits 2026

		Answer
1.1	Is chlorination used for primary disinfection?	Yes
		Answer
1.2	Did Uisce Éireann confirm the type of chlorine disinfectant in use?	Yes
	Comment	
	1. Sodium Hypochlorite 10%	
		Answer
1.3	Are there duty and standby chlorine dosing pumps in place?	Yes
		Answer
1.4	Is there automatic switchover in the event of failure of one of the chlorine dosing pumps?	Yes
		Answer
1.5	Is the chlorine dosing rate flow proportional?	Yes
		Answer
1.6	Is there a continuous residual chlorine monitor, with alarm, to verify chlorine dosing is taking place at the target level?	Yes
		Answer
1.7	Is there a continuous residual chlorine monitor, with alarm, at a suitable sample location after contact time has been completed?	Yes
		Answer
1.8	Can data trends from the online residual monitor be viewed on site?	Yes
		Answer
1.9	Are there low and high chlorine alarm settings on each chlorine monitor?	Yes

		Answer
1.10	Is there a documented alarm response procedure for responding to chlorine alarms?	Yes
		Answer
1.11	Have staff been trained on the chlorine alarm response procedure?	Yes
		Answer
1.12	Are chlorine alarms dialled out via a cascade system to allow a timely response by plant operators?	Yes
		Answer
1.13	Is there automatic shutdown of the supply in the event of the chlorine level dropping below the low level or rising above the high chlorine alarm setting?	Yes
		Answer
1.14	Are service due / monitoring instrument calibration dates for the chlorine monitors within date?	Yes
		Answer
1.15	Is the site specific target contact time being achieved?	Yes
		Answer
1.16	Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution network?	Yes
		Answer
1.17	Is monitoring of network residual chlorine undertaken several times per week?	No
	Comment	
	1. Monitoring of the network residual chlorine is carried out once per week.	
	Recommendation	
	1. Uisce Éireann should ensure monitoring of residual chlorine is undertaken several times a week at different points of the network to include the network extremities.	

Recommendations

Actions required by Uisce Éireann

During the audit, Uisce Éireann representatives were advised of the audit findings and that action must be taken by Uisce Éireann to address the issues raised.

Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the recommendations raised in this report without delay.

Response to Audit Report

Uisce Éireann should submit a report to the EPA on or before the date specified in the Summary of Key Findings detailing the actions taken and planned, with timescales, to close out the recommendations in this audit report.

The EPA advises that the findings and recommendations from this report should, where relevant, be addressed at other public water supplies.

Publication of Reports

Audit reports are published to the EPA's website, www.epa.ie, typically 1 month after the audit report is issued to Uisce Éireann.