

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	Liskealty	
Organisation	Uisce Éireann	
Scheme Code	3100PUB1135	
County	Waterford	
Site Visit Reference No.	SV32158	

Report Detail	
Issue Date	02/05/2025
Prepared By	Anna Doyle

Site Visit Detail				
Date Of Inspection	10/04/2025	Announced	No	
Time In	11:30	Time Out	12:00	
EPA Inspector(s)	Anna Doyle Chris Fennell			
Additional Visitors				
Company Personnel	Uisce Éireann: Melissa Devane Waterford County Council (working in partnership with Uisce Éireann): David Hourigan			

Summary of Key Findings

- 1. There is no 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.
- 2. No data trends from the online residual monitor were available on site.
- 3. The site specific target contact time is not being achieved.

Introduction

The Liskealty water treatment plant (WTP) produces approximately 6 m3/d of water serving a population 6 (EDEN figures). The audit focused on the disinfection system at Liskealty WTP.

Supply Zones Areas Inspected

This audit assessed the chlorination disinfection system at Liskealty WTP.

1. Disinfection Audits 2025

	Answer
s chlorination used for primary disinfection?	Yes
	Answer
Did Uisce Éireann confirm the type of chlorine disinfectant in use?	Yes
Comment	
1. 10% Sodium Hypochlorite	
	Answer
Are there duty and standby chlorine dosing pumps in place?	Yes
	Answer
Is there automatic switchover in the event of failure of one of the chlorine dosi	ng Yes
	_
	Answer
Is the chlorine dosing rate flow proportional?	
Is the chlorine dosing rate flow proportional?	Yes
Is the chlorine dosing rate flow proportional?	
Is the chlorine dosing rate flow proportional? Is there a continuous residual chlorine monitor, with alarm, to verify chlorine dosing is taking place at the target level?	Yes
Is there a continuous residual chlorine monitor, with alarm, to verify chlorine	Yes
Is there a continuous residual chlorine monitor, with alarm, to verify chlorine	Yes
Is there a continuous residual chlorine monitor, with alarm, to verify chlorine	Answer No Answer
Is there a continuous residual chlorine monitor, with alarm, to verify chlorine dosing is taking place at the target level? Is there a continuous residual chlorine monitor, with alarm, at a suitable samp	Answer No Answer

	Answer
Are there low and high chlorine alarm settings on each chlorine monitor?	Yes
	Answer
s there a documented alarm response procedure for responding to chlorine alarms?	Yes
	Answer
Have staff been trained on the chlorine alarm response procedure?	Yes
	Answer
Are chlorine alarms dialled out via a cascade system to allow a timely response by plant operators?	Yes
	Answer
s 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?	No
Comment	
 There are no high/low plant automatic shutdown setpoints in place to prevent inact vater entering supply in the event of a chlorination system failure. 	lequately treat
	Answer
Are service due / monitoring instrument calibration dates for the chlorine monitors vithin date?	Yes
Γ	Answer
s the site specific target contact time being achieved?	No

	Answer
Is the minimum effective contact time of 15 mg. min/l being achieved?	No
Comment	
1. The minimum effective contact time of 15 mg. min/l could not be verified as a calculation sheet was not available.	a copy of the contact tir
	Answer
Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution network?	Answer Yes

Is monitoring of network residual chlorine undertaken several times per week?

1.18

Yes

Recommendations

Subject	Audit Recommendation	Due Date	02/06/2025		
Action Text	Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendations without delay.				
	 a) Ensure that the target contact time is being achieved, and b) ensure that the effection contact time achieved is 15mg.min/l and that the first connections are receiving appropriately disinfected water. Uisce Eireann should submit a calculation of the econtact time to the EPA. Install automatic shutdown of the plant linked to the low and high residual chlorine settings. Ensure that residual chlorine trends are available and accessible on site to plant opvia SCADA / HMI. 				
	Actions required by Uisce Éireann During the audit, Uisce Éireann representatives of must be taken by Uisce Éireann to address the ist Uisce Éireann should submit a report to the EPA taken and planned, with timescales, to close out The EPA advises that the findings and recomme relevant, be addressed at other public water support to the EPA advises that the findings and recomme relevant, be addressed at other public water support to the EPA advises that the findings and recomme relevant, be addressed at other public water support to the EPA advises that the findings and recomme relevant, be addressed at other public water support to the EPA advises that the findings and recomme relevant, be addressed at other public water support to the EPA advises that the findings and recomme relevant, be addressed at other public water support to the EPA advises that the findings and recomme relevant, be addressed at other public water support to the EPA advises that the findings and recomme relevant, be addressed at other public water support to the EPA advises that the findings and recomme relevant, be addressed at other public water support to the EPA advises that the findings and recomme relevant, be addressed at other public water support to the EPA advises that the findings and recomme relevant.	ssues raised. on or before 02/06/2 the above recommer ndations from this au	2025 detailing the actions adations.		