

# 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	Bweeng
Organisation	Uisce Éireann
Scheme Code	0500PUB1304
County	Cork
Site Visit Reference No.	SV32828

Report Detail	
Issue Date	26/08/2025
Prepared By	Joanne Creedon

Site Visit Detail			
Date Of Inspection	21/07/2025	Announced	Yes
Time In	11:53	Time Out	12:10
EPA Inspector(s)	Joanne Creedon		
Additional Visitors			
Company Personnel	Uisce Éireann: Claire Hurley, Sharon O' Dwyer, John Crowley.		



## Summary of Key Findings

1. Disinfection consists of chlorination. The audit found that the disinfection system was operating satisfactorily during the inspection.



## Introduction

The Bweeng Water Treatment Plant (WTP) produces approximately 173 m<sup>3</sup>/d of water serving a population of 560. This audit is an inspection of the Bweeng WTP and is focused on the disinfection system.



## Supply Zones Areas Inspected

This audit assessed the chlorination disinfection system at the Bweeng WTP.



## 1. Disinfection Audits 2025

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

		<b>Answer</b>
1.11	Have staff been trained on the chlorine alarm response procedure?	Yes
		<b>Answer</b>
1.12	Are chlorine alarms dialled out via a cascade system to allow a timely response by plant operators?	Yes
		<b>Answer</b>
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
		<b>Answer</b>
1.14	Are service due / monitoring instrument calibration dates for the chlorine monitors within date?	Yes
		<b>Answer</b>
1.15	Is the site specific target contact time being achieved?	Yes
		<b>Answer</b>
1.16	Is the residual chlorine level $\geq 0.1$ mg/l at the extremity of the distribution network?	Yes
		<b>Answer</b>
1.17	Is monitoring of network residual chlorine undertaken several times per week?	Yes

## Recommendations

Subject	Bweeng - Disinfection Audit	Due Date	24/09/2025
Action Text	<p><b>Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendations without delay.</b></p> <ol style="list-style-type: none"><li>1. Ensure that the disinfection stage continues to be suitably managed and operated at all times.</li></ol> <p><b>Actions required by Uisce Éireann</b></p> <p>During the audit, Uisce Éireann representatives were advised of the audit findings and that action must be taken by Uisce Éireann to address any issues raised.</p> <p>Confirm the above recommendation by 24/09/2025.</p> <p>The EPA advises that the findings and recommendations from this audit report should, where relevant, be addressed at other public water supplies.</p>		