

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	Inishowen East
Organisation	Uisce Éireann
Scheme Code	0600PUB1022
County	Donegal
Site Visit Reference No.	SV30674

Report Detail	
Issue Date	10/01/2025
Prepared By	Elaine Greenan

Site Visit Detail					
Date Of Inspection	27/11/2024	Announced	Yes		
Time In	13:05	Time Out	13:40		
EPA Inspector(s)	Elaine Green	Elaine Greenan			
Additional Visitors					
Company Personnel	Uisce Éirean Donegal Cou Feeney.	Uisce Éireann: Yvonne McMonagle, Fionnuala Bonner. Donegal County Council (working in partnership with Uisce Éireann): Diarmuid Feeney.			

Summary of Key Findings

1. The audit found that the Inishowen East water treatment plant was operating and performing well in providing clean and wholesome water to the public supply.

> Introduction

The Inishowen East Public Water Supply (PWS) produces approximately 1,264.0 m3/d of water serving a population of 3,327 (EDEN 2024). The audit focused on the chlorine disinfection system at Inishowen East PWS.

Supply Zones Areas Inspected

This audit assessed the chlorination disinfection system at Inishowen East PWS.

1. Disinfection Audits 2024

	Answer
s chlorination used for primary disinfection?	Yes
	Answer
Did Uisce Éireann confirm the type of chlorine disinfectant in use?	Yes
Comment	
0% Sodium Hypochlorite	
	Answer
are there duty and standby chlorine dosing pumps in place?	Yes
	Answer
s there automatic switchover in the event of failure of one of the chlorine dosing umps?	Yes
	Answer
s the chlorine dosing rate flow proportional?	Yes
	Answer
s there a continuous residual chlorine monitor, with alarm, to verify chlorine losing is taking place at the target level?	Yes
	Yes
osing is taking place at the target level? s there a continuous residual chlorine monitor, with alarm, at a suitable sample	Yes Answer Yes
osing is taking place at the target level? s there a continuous residual chlorine monitor, with alarm, at a suitable sample	Yes Answer
osing is taking place at the target level? s there a continuous residual chlorine monitor, with alarm, at a suitable sample	Yes Answer Yes
s there a continuous residual chlorine monitor, with alarm, at a suitable sample ocation after contact time has been completed?	Answer Answer Answer

	Answer
s there a documented alarm response procedure for responding to chlorine larms?	Yes
	Answer
	7
lave 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 lant operators?	Yes
	Answer
s there automatic shutdown of the supply in the event of the chlorine level lropping below the low level or rising above the high chlorine alarm setting?	Yes
mopping select and let it it is noting asserted and ring.	
	Answer
are service due / monitoring instrument calibration dates for the chlorine monitors vithin date?	Yes
	Angurar
	Answer
s the site specific target contact time being achieved?	Yes
	Answer
s the minimum effective contact time of 15 mg. min/l being achieved?	Yes
	Answer
s the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution network?	Yes
	Answer

Recommendations

Subject	Audit Recommendations	Due Date	10/02/2025		
Action Text	Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendation without delay.				
	 Ensure that the disinfection stage continues to be suitably managed and operated at all times. 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 should submit a report to the EPA on or before 10/02/2025 detailing the actions taken and planned, with timescales, to close out the above recommendations.				
	The EPA advises that the findings and recommendations from this audit report should, whe relevant, be addressed at other public water supplies.				