

# 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	Inchinleamy
Organisation	Uisce Éireann
Scheme Code	3100PUB1054
County	Waterford
Site Visit Reference No.	SV32154

Report Detail	
Issue Date	25/03/2025
Prepared By	Noel Cosgrove

Site Visit Detail			
Date Of Inspection	04/03/2025	Announced	No
Time In	12:00	Time Out	12:35
EPA Inspector(s)	Noel Cosgrove Pauline Gillard		
Additional Visitors			
Company Personnel	Uisce Éireann: Patrick Kirwan, Denis McGrath		

## > Summary of Key Findings

1. Disinfection consists of chlorination. The audit found that the disinfection system was operating satisfactorily during the audit.
2. There is no residual chlorine monitor with alarm to verify contact time.
3. Monitoring of network residual chlorine is undertaken once a week only.

## > Introduction

Inchinleamy WTP produces approximately 32 m<sup>3</sup>/day of water serving a population of 32 (EDEN figures). The audit focused on the disinfection system at Inchinleamy WTP.

## > Supply Zones Areas Inspected

The audit assessed the chlorination disinfection system at Inchinleamy WTP.



## 1. Disinfection Audits 2025

		Answer
1.1	Did Uisce Éireann confirm the type of chlorine disinfectant in use?	Yes
		Answer
1.2	Are there duty and standby chlorine dosing pumps in place?	Yes
		Answer
1.3	Is there automatic switchover in the event of failure of one of the chlorine dosing pumps?	Yes
		Answer
1.4	Is the chlorine dosing rate flow proportional?	Yes
		Answer
1.5	Is there a continuous residual chlorine monitor, with alarm, to verify chlorine dosing is taking place at the target level?	Yes
		Answer
1.6	Is there a continuous residual chlorine monitor, with alarm, at a suitable sample location after contact time has been completed?	No
	<b>Comment</b>	
	1. Uisce Éireann confirmed that there is no residual chlorine monitor with alarm to verify contact time.	
		Answer
1.7	Can data trends from the online residual monitor be viewed on site?	Yes
		Answer
1.8	Are there low and high chlorine alarm settings on each chlorine monitor?	Yes
		Answer

1.9	Is there a documented alarm response procedure for responding to chlorine alarms?	Yes
		Answer
1.10	Have staff been trained on the chlorine alarm response procedure?	Yes
		Answer
1.11	Are chlorine alarms dialled out via a cascade system to allow a timely response by plant operators?	Yes
		Answer
1.12	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
1.13	Are service due / monitoring instrument calibration dates for the chlorine monitors within date?	Yes
		Answer
1.14	Is the site specific target contact time being achieved?	Yes
		Answer
1.15	Is the minimum effective contact time of 15 mg. min/l being achieved?	Yes
		Answer
1.16	Is the residual chlorine level $\geq 0.1$ 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
	<b>Comment</b>	
	1. Network residual monitoring currently undertaken once per week.	

## Recommendations

<b>Subject</b>	Disinfection Audit Inchinleamy PWS	<b>Due Date</b>	25/04/2025
<b>Action Text</b>	<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. Install a chlorine residual monitor, with alarm, at a location after contact time has been achieved to verify adequate contact time is being maintained at all times.</li><li>2. Ensure monitoring of residual chlorine is undertaken several times a week at different points of the network to include the network extremities.</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 the issues raised.</p> <p>Uisce Éireann should submit a report to the EPA on or before 25/04/2025 detailing the actions taken and planned, with timescales, to close out the above recommendations.</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>		