

# **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	Chestnut Grove		
Organisation	Uisce Éireann		
Scheme Code	3300PUB1831		
County	Wexford		
Site Visit Reference No.	SV32105		

Report Detail	
Issue Date	09/04/2025
Prepared By	Anna Doyle

Site Visit Detail				
Date Of Inspection	06/03/2025	Announced	No	
Time In	10:00	Time Out	10:40	
EPA Inspector(s)	Anna Doyle Chris Fennell			
Additional Visitors				
Company Personnel	Uisce Éireann: Siobhán Clifford, Martin P.V., Neville Collier.  Wexford County Council (working in partnership with Uisce Éireann): John Breen, Barry Hammel			

### > Summary of Key Findings

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

## > Introduction

The Chestnut Grove WTP produces approximately 6 m3/d of water serving a population 23 (EDEN figures). The audit focused on the disinfection system at Chestnut Grove WTP.

### Supply Zones Areas Inspected

This audit assessed the chlorination and UV disinfection system at Chestnut Grove WTP.

## 1. Disinfection Audits 2025

	Answer
s chlorination used for primary disinfection?	No
	A
	Answer
id Uisce Éireann confirm the type of chlorine disinfectant in use?	Yes
Comment	
. 10% Sodium Hypochlorite confirmed.	
	Answer
re 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
unipo:	
	Answer
s the chlorine dosing rate flow proportional?	Yes
	Answer
s there a continuous residual chlorine monitor, with alarm, to verify chlorine osing is taking place at the target level?	Yes
	Answer
s there a continuous residual chlorine monitor, with alarm, at a suitable sample ocation after contact time has been completed?	Yes
	Answer
can data trends from the online residual monitor be viewed on site?	Yes
an data tronds from the online residual monitor be viewed on site:	
data tronds from the offine residual monitor be viewed on site.	
an data tronds from the crimine residual monitor be viewed on site.	Answer

	Answer
Is 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
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
Are service due / monitoring instrument calibration dates for the chlorine monitors within date?	Yes
	Answer
Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution network?	Yes
	Answer
Is monitoring of network residual chlorine undertaken several times per week?	<b>Answer</b> Yes
Is monitoring of network residual chlorine undertaken several times per week?	
Is monitoring of network residual chlorine undertaken several times per week?  Is UV treatment used for primary disinfection?	Yes
	Yes Answer
	Yes  Answer  Yes
Is UV treatment used for primary disinfection?	Yes  Answer  Yes  Answer

		Answer
.20	Is there automatic shut-off of the supply in the event of UV units failing or operating outside of their validated range?	Yes
		Answer
21	Is there continuous monitoring of the UV units to verify operation within validation range at all times?	Yes
		Answer
22	Can data trends from the online UV monitor(s) be viewed on-site?	Yes
		Answer
23	Is there a documented alarm response procedure for responding to UV alarms?	Yes
		Answer
<b>!4</b>	Have staff been trained on the UV alarm response procedure?	Yes
		Answer
5	Are UV alarms dialled out via a cascade system to allow a timely response by plant operators?	Yes
		Answer
6	Are service due / monitoring instrument calibration dates for the UV units within date?	Yes
		Answer
7	Is the LIV disinfection system validated to an appropriate international standard 2	Yes
7	Is the UV disinfection system validated to an appropriate international standard?	168
		Answer
28	Did UÉ confirm that the UV disinfection system is operating within the validated	Yes

#### Recommendations

Subject	Audit Recommendations	Due Date	09/05/2025		
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 09/05/2025 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, where relevant, be addressed at other public water supplies.				