

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	Gorey Regional Creagh		
Organisation	Uisce Éireann		
Scheme Code	3300PUB1512		
County	Wexford		
Site Visit Reference No.	SV30239		

Report Detail	
Issue Date	20/08/2024
Prepared By	Joanne Creedon

Site Visit Detail					
Date Of Inspection	23/07/2024	Announced	Yes		
Time In	11:00	Time Out	11:20		
EPA Inspector(s)	Joanne Cree	Joanne Creedon			
Additional Visitors					
Company Personnel	Uisce Éirean	Uisce Éireann: Denis McGrath, Neville Collier.			
		Wexford County Council (working in partnership with Uisce Éireann): Tom McLoughlin, John Breen, Martin Vargaese.			

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Summary of Key Findings

- 1) Disinfection consists of chlorination. The audit found that the disinfection system was operating satisfactorily during the inspection.
- 2) Uisce Éireann should ensure that residual free chlorine concentrations in the network extremities are at least 0.1 mg/l to maintain adequate disinfection and that monitoring of residual chlorine is undertaken several times a week at different points of the network to include the network extremities.



Introduction

The Gorey Regional Creagh WTP produces approximately 1,780m3/d of water serving a population 7,459 (EDEN figures). The audit focused on the disinfection system at Gorey Regional Creagh WTP.



Supply Zones Areas Inspected

This audit assessed the chlorination disinfection system at Gorey Regional Creagh WTP.

1. Disinfection Audits 2024

	Answer
Is chlorination used for primary disinfection?	Yes
	Answer
Did Uisce Éireann confirm the type of chlorine disinfectant in use?	Yes
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	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 dosing pumps?	Yes
	Answer
Is the chlorine dosing rate flow proportional?	Yes
is the chorne dosing rate now proportional:	165
	Answer
Is there a continuous residual chlorine monitor, with alarm, to verify chlorine dosing is taking place at the target level?	Yes
	Answer
	Yes
Is there a continuous residual chlorine monitor, with alarm, at a suitable sample location after contact time has been completed?	
	Answer
location after contact time has been completed?	Answer Yes
location after contact time has been completed?	
location after contact time has been completed?	Yes
location after contact time has been completed? Can data trends from the online residual monitor be viewed on site?	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 site specific target contact time being achieved?	Yes
	Answer
Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution network?	No
Comment	
Records not available onsite	
	Answer
Is monitoring of network residual chlorine undertaken several times per week?	No
Comment	
Records kept in vehicles. Checked several times per week at the network. Records	not available onsite

Recommendations

Subject	Gorey Creagh Regional - Disinfection Audit	Due Date	20/09/2024			
Action Text	Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendations without delay.					
	 Ensure that residual free chlorine concentre mg/l to maintain adequate disinfection. Ensure monitoring of residual chlorine is u points of the network to include the network 	ndertaken several t				
	Actions required by Uisce Éireann					
	During the audit, Uisce Éireann representatives we must be taken by Uisce Éireann to address the is		audit findings and that action			
	Uisce Éireann should submit a report to the EPA on or before 20/09/2024 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.					