

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	Hacketstown	
Organisation	Uisce Éireann	
Scheme Code	0100PUB1123	
County	Carlow	
Site Visit Reference No.	SV30072	

Report Detail	
Issue Date	18/06/2024
Prepared By	Joanne Creedon

Site Visit Detail				
Date Of Inspection	27/05/2024	Announced	Yes	
Time In	10:28	Time Out	10:48	
EPA Inspector(s)	Joanne Cree	Joanne Creedon		
Additional Visitors				
Company Personnel	Uisce Eireani	Uisce Eireann: Denis McGrath, James Byrne		
		Electrical & Pump Services Ltd (working in partnership with Uisce Éireann): David Logue, John Harman		

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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.

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Introduction

The Hacketstown WTP produces approximately 397m3/d of water serving a population 608 (EDEN figures). The audit focused on the disinfection system at Hacketstown WTP.



Supply Zones Areas Inspected

This audit assessed the chlorination disinfection system at Hacketstown 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
	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
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Is the chlorine dosing rate flow proportional?	Yes
	Answer
Is there a continuous residual chlorine monitor, with alarm, to verify chlorine dosing is taking place at the target level?	Yes
	Answer
Is there a continuous residual chlorine monitor, with alarm, at a suitable sample location after contact time has been completed?	Yes
	Answer
Can data trends from the online residual monitor be viewed on site?	Yes
Can data trends from the offine residual monitor be viewed on site:	165
	Answer
Are there low and high chlorine alarm settings on each chlorine monitor?	Yes
	Answer
ls there a documented alarm response procedure for responding to oblering	Yes
Is there a documented alarm response procedure for responding to chlorine alarms?	`

	Answer
Have staff been trained on the chlorine alarm response procedure?	Yes
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	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
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	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
Is the site specific target contact time being achieved?	Yes
Is the site specific target contact time being achieved?	Yes Answer
Is the site specific target contact time being achieved? Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution network?	
Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution	Answer
Is the residual chlorine level ≥ 0.1 mg/l at the extremity of the distribution	Answer

Recommendations

Subject	Hacketstown WTP - Disinfection Audit	Due Date	18/07/2024		
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 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 the must be taken by Uisce Éireann to address the issues raised.				
	Uisce Éireann should submit a report to the EPA on or before 18/07/2024 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.				