

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	Gorteen PWS	
Organisation	Uisce Éireann	
Scheme Code	1500PUB1016	
County	Kilkenny	
Site Visit Reference No.	SV29635	

Report Detail	
Issue Date	19/07/2024
Prepared By	David O'Malley

Site Visit Detail				
Date Of Inspection	17/06/2024	Announced	Yes	
Time In	10:50	Time Out	12:15	
EPA Inspector(s)	David O'Malle	David O'Malley		
Additional Visitors				
Company Personnel	Kilkenny Cou	Uisce Éireann: Denis McGrath. Kilkenny County Council (working in partnership with Uisce Éireann):Denis Lawlor, Kevin Hogan, Eugene Halley, Clare Dowling, Shane Aylward, John Coady.		

>

Summary of Key Findings

- 1. There is no UV shutdown or a UV standby unit at the plant to ensure inadequately treated water does not enter the network.
- 2. A cascade system and associated procedures for responding to alarms generated at the plant were not displayed at the WTP.



Introduction

The Gorteen Public Water Supply (PWS) supplies an average of 60 m3/day of water, serving a population of 307 (2023 EDEN figures) serving the environs of Gorteen. The source for the supply is three boreholes and treatment consists of iron and manganese removal via filtration, UV disinfection, chlorination and fluoridation.



Supply Zones Areas Inspected

The media filters, UV disinfection system, chlorination dosing system and pumps at water treatment plant (WTP) were inspected.



1. Management and Control

	Answer
Is there a documented alarm response procedure?	No
Comment	
There is no documented site specific procedure detailing	ng how alarms are responded to at the WTP
	·

2. Protozoal Barriers Audits 2024

Is there a documented site specific incident response and incident escalation brocess? Comment 1. There is no documented site-specific incident response detailing contacts for escarigger levels at the WTP. Has UÉ identified the protozoal compliance log treatment requirement for the water treatment plant? Comment 1. Uisce Éireann confirmed that a Source and Sanitary Survey has not been comple protozoal compliance log treatment requirement has not yet been determined for the street of the UV system suitably validated? Comment 1. There was no validation certification available for the UV system.
Comment 1. There is no documented site-specific incident response detailing contacts for escrigger levels at the WTP. Has UÉ identified the protozoal compliance log treatment requirement for the water treatment plant? Comment 1. Uisce Éireann confirmed that a Source and Sanitary Survey has not been comple protozoal compliance log treatment requirement has not yet been determined for this is the UV system suitably validated? Comment
1. There is no documented site-specific incident response detailing contacts for escrigger levels at the WTP. Has UÉ identified the protozoal compliance log treatment requirement for the water treatment plant? Comment 1. Uisce Éireann confirmed that a Source and Sanitary Survey has not been completorotozoal compliance log treatment requirement has not yet been determined for the street of the context of the UV system suitably validated? Comment
Has UÉ identified the protozoal compliance log treatment requirement for the water treatment plant? Comment 1. Uisce Éireann confirmed that a Source and Sanitary Survey has not been comple protozoal compliance log treatment requirement has not yet been determined for the street of the UV system suitably validated? Comment
Comment 1. Uisce Éireann confirmed that a Source and Sanitary Survey has not been complete protozoal compliance log treatment requirement has not yet been determined for the street st
Comment 1. Uisce Éireann confirmed that a Source and Sanitary Survey has not been complete protozoal compliance log treatment requirement has not yet been determined for the street st
1. Uisce Éireann confirmed that a Source and Sanitary Survey has not been comple protozoal compliance log treatment requirement has not yet been determined for the last the UV system suitably validated? Comment
brotozoal compliance log treatment requirement has not yet been determined for the last the UV system suitably validated?
Comment
Comment
There was no validation certification available for the UV system.
Are there duty and standby UV units in operation?
Comment
1. There is no UV standby unit in operation at the WTP.

1. There are no UV disinfection system shutdown enabled at the WTP.



3. Site Specific Issues

	swer
Is there appropriate bunding for chlorine drum containment?	No
Comment	

Subject	Audit Recommendations	Due Date	16/08/2024
Action Text	Uisce Éireann is responsible for ensuring a and should implement the following recom		
	 Submit (i) a copy of the UV validation content the treatment plant (ii) Install UV shutdo Install a standby UV unit at the plant. Log Credits: (i) Confirm the protozoal log following completion of the sanitary survivors log deficit if any will be addressed. Develop and display the Uisce Éireann Form with site specific information include levels protecting critical processes at the trained on the response procedures. Put in place an appropriate cascade system plant which allows for verification that an documented procedures are put in place generated at the water treatment plant. corrective actions and set out delegation Ensure chlorine is transferred from drung should be stored in bunded areas capations. 	yen at the plant. g treatment requirement rey; and (ii) provide definition of the procedure should not responding to an The procedure should not responsibilities.	ent for the spring sources etails on how the protozoal fons Response Guidance plation and relevant trigger ent. Ensure that all staff are so alarms generated at the bonded to and ensure and escalating all alarms declearly document the sounded area. Chemicals
	Actions required by Uisce Éireann		
	During the audit, Uisce Éireann representatives must be taken by Uisce Éireann to address the		audit findings and that action
	Uisce Éireann should submit a report to the EF taken and planned, with timescales, to close or		
	The EPA advises that the findings and recomme relevant, be addressed at other public water su		audit report should, where