

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	Kilkenny City (Troyswood) PWS
Organisation	Uisce Éireann
Scheme Code	1500PUB1011
County	Kilkenny
Site Visit Reference No.	SV30443

Report Detail	
Issue Date	08/10/2024
Prepared By	David O'Malley

Site Visit Detail			
Date Of Inspection	13/09/2024	Announced	Yes
Time In	09:30	Time Out	12:00
EPA Inspector(s)	David O'Malley Regina Campbell		
Additional Visitors	Sean O'Leary		
Company Personnel	Uisce Éireann: Pat Duggan, Denis McGrath, Melissa Devane and Micheal McManus. Kilkenny County Council (working in partnership with Uisce Éireann): Andrew Flood. Glanua (Operator under DBO contract to Uisce Éireann): David Flanagan, Shane O'Hare and Oliver Nolan.		

> Summary of Key Findings

1. The upgrades to the Troyswood Public Water Supply include a new raw water intake, upgrades to coagulation, flocculation, clarification, rapid gravity filtration, sludge treatment, pumping stations, UV disinfection, chlorination, pH correction and fluoridation dosing systems.
2. The audit found that the protozoal barriers and disinfection systems were operating satisfactorily on the day of the audit with appropriate alarms and inhibits in place.

> Introduction

The Kilkenny City (Troyswood) Public Water Supply (PWS) supplies an average of 17,560 m³/day of water, serving a population of 29,374 (EDEN 2024). The main source for the supply is the River Nore. Treatment consists of coagulation, flocculation, clarification (CFC) and rapid gravity filtration (RGF) followed by chlorination, pH correction via sodium hydroxide and fluoridation dosing. Treated water is pumped to an off site reservoir.

The PWS has had upgrades to the raw water intake, CFC, RGF, sludge treatment, pumping stations, UV disinfection, chlorination, pH correction and fluoridation dosing systems. Kilkenny City (Radestown) Public Water Supply was rationalised to Kilkenny City (Troyswood) Public Water Supply in May 2024. The *cryptosporidium* log requirement for Troyswood water treatment plant (WTP) is a 4 Log. The upgraded WTP provides a 5 Log treatment.

> Supply Zones Areas Inspected

The raw water intake, coagulation, flocculation, clarifiers, rapid gravity filters, sludge treatment, UV disinfection and chlorination systems were inspected.



1. Site Specific Issues

	Answer
1.1 Has training been provided to Uisce Éireann operational staff to facilitate handover of the operation of the new water treatment plant?	No
Comment	
<p>1. The WTP is currently being operated by Glanua as part the operation and maintenance period until June 2025. Prior to handover of the WTP to Uisce Éireann operational staff it is planned that Glanua will provide training. The provision of adequate training for all operational staff involved in the day to day operation of the WTP is critical prior to the handover of the operation of the WTP from contractor Glanua to Uisce Éireann.</p>	

Recommendations

Subject	Audit Recommendations	Due Date	06/11/2024
Action Text	<p>Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendation(s) without delay.</p> <ol style="list-style-type: none">1. Ensure all appropriate training takes place before the official handover of the Troyswood Water Treatment Plant from Glanua to Uisce Éireann. <p>Actions required by Uisce Éireann</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 06/11/2024 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>		