



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	Mitchelstown South
Organisation	Uisce Éireann
Scheme Code	0500PUB1507
County	Cork
Site Visit Reference No.	SV29544

Report Detail

Issue Date	28/06/2024
Prepared By	Paul Buckley

Site Visit Detail

Date Of Inspection	29/05/2024	Announced	Yes	
Time In	11:25	Time Out	12:30	
EPA Inspector(s)	Paul Buckley			
Additional Visitors				
Company Personnel	Uisce Éirean Cork County Whorisky.	Uisce Éireann: Claire Hurley, Sharon O'Dwyer, Cormac Bergin, Gary Harrington. Cork County Council (working in partnership with Uisce Éireann): Frances Whorisky.		

Summary of Key Findings

1. The Mitchelstown South water treatment plant was operating satisfactorily on the day of the audit.

2. Uisce Éireann have completed the Alarms and Inhibits review for the supply however a number of recommendations remain to be implemented.

Introduction

The Mitchelstown South Public Water Supply (PWS) supplies an average of 3,093 m3/day of water, serving a population of 1,651 people.

The supply is sourced from 2 No. boreholes located offsite the treatment plant. Treatment consists of aeration, chlorination disinfection and fluoride dosing.

The audit was undertaken to assess Uisce Éireann's performance in producing clean and wholesome water with a focus on the alarms and inhibits in place at the treatment plant and the procedures in place to ensure appropriate oversight of treatment processes.



The borehole, meter chamber, aeration system, OSEC room containing the chlorine disinfection system and fluoride dosing system at the water treatment plant were inspected.

	Answer
Has the protozoal compliance log treatment requirement been identified for the water treatment plant?	No
Comment	
The protozoal compliance log treatment requirement has not been identified for the The sanitary survey has not been completed and no timeline for the completion of the available during the audit.	

Cryptosporidium monitoring has not been conducted for the supply.



2. Alarms, Inhibits & Oversight Audits 2024

	Answer
Are suitable alarm settings in place to alert operators to deteriorating water quality or the failure of a critical treatment process?	No
Comment	
The low chlorine alarm setpoint at the water treatment plant is 0.4 mg/L which is bel residual of 0.7 mg/L.	ow the target chlorine

This is not in line with EPA guidance.

	Answer
Were all findings of the UÉ alarm and inhibit review implemented?	No
Comment	
There are three findings from the Uisce Éireann alarms and inhibits review the implemented on the day of the audit.	at were yet to be

		Answer
Were equipment, surfaces and buildings at the p audit?	lant well maintained during the	No
Comment		

2. Standing water was noted on the floor of the meter room during the audit. This represents a health and safety risk to staff at the treatment plant.

Subject	Mitchelstown South PWS Audit Recommendations - 29/05/2024	Due Date	29/07/2024	
Action Text	Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendation(s) without delay.			
	 Complete the implementation of the findings of the alarm and inhibits review. i) Confirm the protozoal log treatment requirement for the supply; (ii) confirm how the protozoal log deficit will be addressed and (iii) undertake monitoring for <i>Cryptosporidium</i> as per the Uisce Éireann <i>Rationale for Determining the Frequency of Cryptosporidium in Public Water Supplies</i>. Review the low chlorine alarm settings for the chlorine monitor to ensure that the settings reflect the minimum free chlorine concentration required at the contact time verification point as per the site-specific contact time calculation sheet. Clean the aeration chamber of algae. Ensure the leak noted in the meter chamber is resolved and water is not left to pool on the floor of the room. 			
	Actions required by Uisce Éireann			
	During the audit, Uisce Éireann representatives were advised of the audit findings and that a must be taken by Uisce Éireann to address the issues raised.			
	Uisce Éireann should submit a report to the EPA on or before 29/ taken and planned, with timescales, to close out the above recom			
	The EPA advises that the findings and recommendation relevant, be addressed at other public water supplies.	ons from this a	udit report should, where	