

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	Swinford PWS
Organisation	Uisce Éireann
Scheme Code	2200PUB1024
County	Mayo
Site Visit Reference No.	SV30483

Report Detail	
Issue Date	15/10/2024
Prepared By	Veronica Boland

Site Visit Detail			
Date Of Inspection	17/09/2024	Announced	Yes
Time In	14:10	Time Out	15:30
EPA Inspector(s)	Veronica Boland		
Additional Visitors			
Company Personnel	Uisce Éireann: Brian Conmy, Catherine Maughan, Marie Finneran, Siobhán Sheridan. Mayo County Council (working in partnership with Uisce Éireann): Padraig Lynn, Deirdre Beattie.		

> Summary of Key Findings

1. The chlorine contact calculation sheet is out of date and not aligned with the current source of supply and treatment processes on-site.

> Introduction

The Swinford Public Water Supply serves a population of 2,500 and imports 650m³ of treated water from the Killaturley Group Water Scheme (since 23 October 2022). The water (leaving Killaturley GWS) entering the Swinford Water Treatment Plant (WTP) has a chlorine residual of approximately 0.3 mg/l . The imported treated water receives additional treatment of chlorination, fluoridation and orthophosphate dosing at the Swinford WTP. The treated water goes to an on-site reservoir with a capacity of 2,300 m³, equivalent to 3.5 days treated water storage.

> Supply Zones Areas Inspected

The treatment processes at Swinford WTP were inspected on the day of the audit. The treated water reservoir was not inspected.



	Answer
1.1 Are suitable plant shutdowns/inhibits in place to prevent the entry of inadequately treated water entering the distribution network?	No
Comment	
<p>1. The chlorine inhibit alarm setpoints (CL002) are 'Low' 0.6 mg/l and 'High' 1.3 mg/l for 300 seconds and the chlorine 'warning' alarm setpoints are 'Low' 0.7 mg/l and 'High' 1.2 mg/l for 300 seconds. The time delays are in accordance with the <i>EPA Treatment Manual: Disinfection</i>.</p> <p>2. The chlorine alarm setpoints do not align with the site specific chlorine contact calculation dated 2015. The site specific chlorine contact calculation dated 07/12/2015 does not align with the current water quality and treatment processes at the Swinford WTP.</p>	

Recommendations

Subject	Swinford PWS - Audit (AIO) 2024	Due Date	13/11/2024
Action Text	<p>Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendations without delay.</p> <ol style="list-style-type: none">1. Uisce Éireann should ensure that the chlorine alarm set points are set at an appropriate level to ensure that the target residual chlorine concentration in the final water leaving the plant is met. <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 13/11/2024 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>		