

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	Woodview Drive Adamstown
Organisation	Uisce Éireann
Scheme Code	3300PUB1673
County	Wexford
Site Visit Reference No.	SV32699

Report Detail	
Issue Date	01/08/2025
Prepared By	Sean O'Leary

Site Visit Detail			
Date Of Inspection	01/07/2025	Announced	Yes
Time In	12:00	Time Out	13:45
EPA Inspector(s)	Sean O'Leary Regina Campbell		
Additional Visitors			
Company Personnel	Uisce Éireann: Denis McGrath, Ken Jones Wexford County Council (working in partnership with Uisce Éireann): Ian Veale.		

> Summary of Key Findings

1. The audit found that Woodview Drive Adamstown Public Water Supply (PWS) was operating satisfactorily on the day of the audit.
2. The on-site borehole should be capped to ensure that it is protected in accordance with EPA Advice Note No. 14:Borehole Construction and Wellhead Protection.
3. Uisce Éireann were unable to confirm the alarms and inhibits in place on the UV ultraviolet disinfection system.

> Introduction

The Woodview Drive Adamstown Public Water Supply (PWS) supplies an average of 53 m³/day of water, serving a population of 310. The source for the supply is one on-site borehole.

Treatment consists of primary ultraviolet disinfection and secondary chlorination. 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 water treatment plant (WTP).

> Supply Zones Areas Inspected

The on-site borehole, ultraviolet disinfection system, chlorination dosing system and pumps at the water treatment plant were inspected.



1. Source Protection

1.1

Is the abstraction source(s) adequately protected against contamination?

Answer

No

Comment

1. The on-site borehole is inadequately capped and sealed in line with EPA guidance.



2. Alarms, Inhibits & Oversight Audits 2025

2.1

Is suitable continuous monitoring in place to verify treatment performance?

Answer

No

Comment

1. Uisce Éireann confirmed that the UVT monitor has not been operational at the WTP for a number of years.

2.2

Were online monitors within their calibration dates?

Answer

No

Comment

1. Calibration stickers present at the WTP did not have the year of service/calibration noted. The date and month were displayed.

2.3

Are suitable alarm settings in place to alert operators to deteriorating water quality or the failure of a critical treatment process?

Answer

No

Comment

1. Uisce Éireann were unable to confirm the alarm/ shutdowns in place on the UV disinfection system at the WTP.

2.4

Is there a documented procedure for responding to specific alarms?

Answer

No

Comment

1. There is no documented procedure for responding to specific alarms.



3. Site Specific Issues

3.1

Are treated water pH results compliant with parametric values?

Answer

No

Comment

1. pH values of below 6.5 (6.42 pH units) were noted on the day of the audit.

3.2

Is the UV system suitably validated?

Answer

No

Comment

1. A copy of the validation certificate for the UV disinfection system was not available for review.

3.3

Has redundant equipment been decommissioned and removed from the treatment process?

Answer

No

Comment

1. Uisce Éireann confirmed that the 3 no. Iron/Manganese filters were no longer in use and filter media inside the cylinders had been removed.

2. It was noted that water flows through these redundant filters.

Subject	Audit Recommendations	Due Date	01/09/2025
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. Ensure the on-site borehole is adequately protected against contamination. Uisce Éireann should have regard to EPA Advice Note No. 14: Borehole Construction and Wellhead Protection when carrying out any upgrade works. 2. Investigate the feasibility of removing the redundant filters at the water treatment plant. 3. Confirm that the UVT monitor has been replaced and is operational with an appropriate alarm in place. 4. (i) Submit a copy of the UV validation cert; (ii) submit 1 month of UV trend data to verify that the UV unit is operating within its validated operating range. and, (iii) Confirm the low UV dose alarm / shutdown setpoints. 5. (i) Review the final water pH results at the plant and in the network; (ii) Assess if the supply should be added to the Uisce Eireann National pH file and (iii) Put remedial measures in place to restore compliance with the pH parametric value in the supply where necessary. 6. Ensure that: (i) a formal site specific alarm response procedure is in place at the treatment plant and (ii) provide training to relevant staff (including relief and temporary staff) on the requirements of the alarm response procedure. 7. Ensure that calibration stickers are clearly displayed on all monitoring equipment with the year of service clearly labelled. <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 01/09/2025 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>		