

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	Lisava PWSS
Organisation	Uisce Éireann
Scheme Code	3700PUB1039
County	Tipperary
Site Visit Reference No.	SV32047

Report Detail	
Issue Date	10/04/2025
Prepared By	David O'Malley

Site Visit Detail			
Date Of Inspection	06/03/2025	Announced	Yes
Time In	10:15	Time Out	11:15
EPA Inspector(s)	David O'Malley		
Additional Visitors			
Company Personnel	Uisce Éireann: Melissa Devane and Noel Maher. Tipperary (working in partnership with Uisce Éireann): Christopher Kidawa.		

> Summary of Key Findings

1. There is no standby UV unit in the event of failure of the duty unit.
2. Drums of chlorine were not appropriately stored in a bunded area.
3. A source and sanitary survey should be completed by Uisce Éireann to confirm the 3 log protozoal treatment requirement for the Lisava water treatment plant.

> Introduction

The Lisava Public Water Supply (PWS) supplies an average of 215 m³/day of water, serving a population of 361. The source for the supply is a borehole. Treatment consists of UV disinfection, chlorination, pH treatment with caustic soda and treated water is pumped directly to the network.

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) and the procedures in place to ensure appropriate oversight of treatment processes.

> Supply Zones Areas Inspected

The UV disinfection system, chlorination dosing system, caustic soda dosing system and pumps at the WTP were inspected.



1. Disinfection

1.1

Are duty and standby chlorine pumps/ UV units in operation?

Answer

No

Comment

1. There is no standby UV unit in operation at the WTP.



2. Management and Control

2.1

Has the protozoal compliance log treatment requirement been identified for the water treatment plant?

Answer

No

Comment

1. The protozoal compliance log treatment requirement assigned for the treatment plant is a 3 log requirement. A source and sanitary survey has not been completed to confirm the calculated log treatment value for the supply.



3. Alarms, Inhibits & Oversight Audits 2025

3.1

Is there a documented site specific incident response and incident escalation process?

Answer

No

Comment

1. There is not a documented site specific incident response and incident escalation process posted at the WTP.

3.2

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. A low level chlorine alarm is not enabled at Lisava WTP.



4. Site Specific Issues

4.1

Is there suitable containment for chlorine drum storage?

Answer

No

Comment

1. There was no chlorine drum containment provided at the WTP for the 20l chlorine drums.

Recommendations

Subject	Audit Recommendations	Due Date	12/05/2025
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 that there are duty and standby UV disinfection units with automatic switchover in place at Lisava WTP in the event of failure of one of the UV disinfection units. 2. Install suitable warnings linked to the low chlorine alarms and provide details of the alarm setpoints. 3. Ensure chlorine drums are stored in a suitable containment bund. 4. Complete (i) a source and sanitary survey to confirm the log treatment requirement for the supply; (ii) provide a timeframe to address any treatment log deficit that exists. 5. i) ensure that there is a cascade system for responding to alarms generated at the plant ii) ensure that there is a documented procedure in place for responding to and escalating all alarms generated at the water treatment plant. The procedure should clearly document the corrective actions and set out delegation of responsibilities and ii) ensure that all staff are trained on the alarm response procedures. <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 12/05/2025 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>		