

# **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	Arles 2 PWS	
Organisation	Uisce Éireann	
Scheme Code	1600PUB1104	
County	Laois	
Site Visit Reference No.	SV32010	

Report Detail		
Issue Date	11/04/2025	
Prepared By	Lisa Noone	

Site Visit Detail				
Date Of Inspection	19/03/2025	Announced	Yes	
Time In	11:00	Time Out	12:15	
EPA Inspector(s)	Lisa Noone	Lisa Noone		
Additional Visitors				
Company Personnel	Uisce Éirean Laois County	Uisce Éireann: Linda Doran, Maria Lloyd. Laois County Council (working in partnership with Uisce Éireann):		

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#### **Summary of Key Findings**

- 1. Arles Water Treatment Plant serving Arles 2 Public Water Supply was operating satisfactorily on the day of the audit.
- 2. There is no treated water storage in the supply leaving consumers vulnerable to plant outages.
- 3. There are no turbidity monitors in place post filtration to ensure that water is adequately prepared for disinfection.



#### Introduction

Arles 2 Public Water Supply (PWS) produces circa. 17 m3/day of water serving a population of approximately 32 residential properties. Raw water is abstracted from a single borehole located at the Water Treatment Plant (WTP). Treatment consists of filtration via two Turbidex filters, two filox filters for iron and manganese removal, disinfection via chlorination, and treated water polishing via a cartridge filter.

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



#### Supply Zones Areas Inspected

The borehole and treatment processes on-site were inspected as part of the audit.



## 1. Management and Control

ne water treatment plant resilient enough to cope with significant variations in water quality or demand?	No
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**Answer** 

#### Comment

- 1. There is no treated water storage at the WTP or in the supply.
- 2. The borehole pump is required to be switched out on a quarterly basis due to iron and manganese build-up leaving consumers vulnerable to these plant outages during maintenance.

## 2. Alarms, Inhibits & Oversight Audits 2025

		Answer	
2.1	Is suitable continuous monitoring in place to verify treatment performance?	No	
	Comment		

1. A continuous turbidity monitor with auto shutdown is in place for final water following polishing via the cartridge filter. There is no turbidity monitor in place post filtration to verify effectiveness of the Turbidex filters and iron and manganese filters or to verify that turbidity is <1NTU at disinfection.

	Answer		
Are plant performance trends accessible remotely?	No		
Comment			
1. A newly appointed caretaker does not yet have SCADA access to view performance trends and inform their work.			
	Comment		

		Answer
2.3	Are there appropriate procedures covering verification of alarms and inhibits status following maintenance or other work on site?	No

### Recommendations

Subject	Arles 2 Au	dit Recommendations	Due Date	12/05/2025
Action Text	Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking water and should implement the following recommendations without delay.			
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