

# **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	Daingean PWS	
Organisation	Uisce Éireann	
Scheme Code	2500PUB1006	
County	Offaly	
Site Visit Reference No.	SV28119	

Report Detail		
Issue Date	05/09/2023	
Prepared By	Lisa Noone	

Site Visit Detail				
Date Of Inspection	23/08/2023	Announced	Yes	
Time In	10:30	Time Out	11:40	
EPA Inspector(s)	Lisa Noone Maria O'Connell			
Additional Visitors				
Company Personnel	Uisce Éireann: Joseph Moran, Paul Cahill. Offaly County Council (in partnership with Uisce Éireann: Gerry Mc Garrigle, Catherine Casey, Clodagh Graham.			

### >

### **Summary of Key Findings**

- 1. The audit found that turbidity alarms were disabled at the time of the audit. The time delay associated with the turbidity alarm was not set at an appropriate level.
- 2. The incident response and escalation flowchart in place at Daingean Water Treatment Plant (WTP) did not contain site specific trigger levels, and there was no documented alarm response procedure in place.



### Introduction

Daingean Public Water Supply (PWS) serves a population of 1427 people and produces approximately 300-350m3 of treated water per day. Daingean WTP is a groundwater supply. Onsite treatment consists of a duty and standby chlorine dosing system with automatic switchover and treated water is pumped to Daingean Reservoir. Contact time is achieved via the rising mains and the reservoir.

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.

## >

### **Supply Zones Areas Inspected**

All treatment processes on site were inspected as part of the audit. The offsite reservoir at Daingean was not inspected.

## 1. Alarms, Inhibits & Oversight Audits 2023

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

### Comment

1. An Uisce Éireann incident response and escalation process flowchart was available on site, however it did not contain trigger levels specific to Daingean WTP.

	Answer		
Are suitable alarm settings in place to alert operators to deteriorating water or the failure of a critical treatment process?	quality No		
Comment			
1. Raw water turbidity alarms were set at 1NTU with a time delay of 3,600 seconds (1 hour).			
2. These alarms were not enabled at the time of audit.			

		Answer
1.3	Is there a documented alarm response procedure?	No

Subject	Daingean Audit Recommendations	05/10/2023			
Action Text	Text Uisce Éireann is responsible for ensuring a clean and wholesome supply of drinking war and should implement the following recommendations without delay.				
	<ol> <li>Ensure appropriate alarm setpoints are in place for turbidity and enabled at the WTP to protect the disinfection process.</li> <li>Update the Uisce Éireann incident response and escalation flowchart with site specific trigger levels protecting critical processes at the water treatment plant and ensure training is provided to all operational staff.</li> <li>Put 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.</li> <li>Ensure residual chlorine monitoring is carried out in the network several times a week.</li> </ol>				
	Actions required by Uisce Éireann  During the audit, Uisce Éireann representatives were advised of the audit findings and that act must be taken by Uisce Éireann to address the issues raised.				
	Uisce Éireann should submit a report to the EPA taken and planned, with timescales, to close ou The EPA advises that the findings and recomm relevant, be addressed at other public water su	t the above recomme endations from this a	endations.		