

# **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	Kilsellagh PWSS
Organisation	Uisce Éireann
Scheme Code	2700PUB2706
County	Sligo
Site Visit Reference No.	SV28015

Report Detail	
Issue Date	21/08/2023
Prepared By	Lisa Noone

Site Visit Detail				
Date Of Inspection	26/07/2023	Announced	Yes	
Time In	10:00	Time Out	12:00	
EPA Inspector(s)	Lisa Noone Maria O'Coni	nell	1	
Additional Visitors				
Company Personnel	Uisce Éireann: Fionnuala Bonner EPS (DBO Contractor): Anthony Nangle, David Logue			

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### **Summary of Key Findings**

- 1. Residual chlorine monitoring in the network is not carried out by Sligo County Council several times a week at different points of the network.
- 2. Storage of treatment chemicals was inadequately maintained at Kilsellagh Water Treatment Plant (WTP) at the time of the audit.



### Introduction

Kilsellagh Public Water Supply (PWS) serves a population of approximately 8,843 people in County Sligo. The plant has an average daily output of 4,525m3/day. Raw water is abstracted by an impoundment/lake source fed by three inlet streams. The DBO plant, operated under contract by EPS has water treatment including two DAFF systems, primary disinfection via two UV units and secondary disinfection via chlorination.

The audit of Kilsellagh WTP was carried out to assess the performance of Uisce Éireann in providing clean and wholesome drinking water, focusing mainly on the operation and management of protozoal barriers at the treatment plant.



### **Supply Zones Areas Inspected**

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



1.1	Is there a suitable monitoring frequency for residual chlorine in the network with records available?	No

**Answer** 

### Comment

- 1. Network chlorine residual monitoring records were requested as part of the audit to be provided by Sligo County Council.
- 2. Following the audit, Uisce Éireann notified the EPA that residual chlorine monitoring is not carried out by Sligo County Council in the network bar monitoring at treated water reservoirs.



# 2. Treatment Process Chemicals

		Answer
2.1	Are treatment process chemicals appropriately managed and stored?	No

#### Comment

1. Sulphuric acid was observed leaking from an outdoor tank into a drain and corroding a portion of the hard standing in an outdoor area of the WTP. The drain led to an underground bunded area.



### 3. Protozoal Barriers Audits 2023

		Answer	
3.1	Is there a documented site specific incident response and incident escalation process?	No	

		Answer
3.2	Are the filters designed and managed in accordance with EPA guidance?	No

#### Comment

- 1. Polyelectrolyte (Poly) is dosed into DAFF tank 1 via a spreader bar prior. At the time of the audit, at the time of the audit, a number of injection nozzles for poly dosing were observed to be blocked.
- 2. Organic debris was observed on the side walls of the DAFF tank despite recent maintenance and cleaning of the full DAFF system.

### Recommendations

sce Éireann is responsible for ensuring a clean a d should implement the following recommendation.  1. Ensure that residual chlorine monitoring is under several times a week.  2. Repair sulfuric acid storage tanks and ensure all appropriately maintained.  3. Maintain the poly dosing spreader bar on a regulate from blockage for the equal distribution of contents.	ons without don't aken in the extra the control of	elay.
several times a week.  Repair sulfuric acid storage tanks and ensure all appropriately maintained.  Maintain the poly dosing spreader bar on a regu	I chemical stora	
<ol> <li>Update the Uisce Éireann Incident Communicati specific information including contacts for escala critical processes at the water treatment plant.</li> </ol>	oagulant over t ions Response	he entire DAFF tank. Guidance Form with site
tions required by Uisce Éireann		
		udit findings and that action
Uisce Éireann should submit a report to the EPA on or before 26/09/2023 detailing the actions taken and planned, with timescales, to close out the above recommendations.		
e EPA advises that the findings and recommendation evant, be addressed at other public water supplies.	ns from this au	dit report should, where
ir se	ions required by Uisce Éireann ing the audit, Uisce Éireann representatives were a st be taken by Uisce Éireann to address the issues ce Éireann should submit a report to the EPA on or en and planned, with timescales, to close out the ab e EPA advises that the findings and recommendation	ions required by Uisce Éireann ing the audit, Uisce Éireann representatives were advised of the a st be taken by Uisce Éireann to address the issues raised. ce Éireann should submit a report to the EPA on or before 26/09/2 en and planned, with timescales, to close out the above recommen