



# Drinking Water Audit Report

<b>County:</b>	Clare	<b>Date of Audit:</b>	28/10/2015
<b>Plant(s) visited:</b>	Flagmount Water Treatment Plant	<b>Date of issue of Audit Report:</b>	27/11/2015
		<b>File Reference:</b>	DW2015/193
		<b>Auditors:</b>	Mr Niall Dunne
<b>Audit Criteria:</b>	<ul style="list-style-type: none"> <li>• The <i>European Union (Drinking Water) Regulations 2014 (S.I. 122 of 2014)</i>.</li> <li>• The <i>EPA Handbook on the Implementation of the Regulations for Water Services Authorities for Public Water Supplies (ISBN: 978-1-84095-349-7)</i></li> <li>• The recommendations specified in the <i>EPA Drinking Water Report</i>.</li> <li>• The recommendations in any previous audit reports.</li> </ul>		

## MAIN FINDINGS

- i. **There is no chlorine residual alarm or auto switch over between the duty and standby chlorine dosing pumps at the Flagmount treatment plant. The EPA issued a direction on the 19/11/2015 to Irish Water for the installation, by the 01/02/2016, of an operational chlorine residual alarm and auto switch over between the duty and standby chlorine dosing pumps.**

## 1. INTRODUCTION

Under the *European Union (Drinking Water) Regulations 2014* the Environmental Protection Agency is the supervisory authority in relation to Irish Water and its role in the provision of public water supplies. This audit was carried out to assess the disinfection system on this supply.

The Flagmount supply, which is fed by a borehole, supplies approximately 100 consumers. Treatment consists of chlorination only.

Photographs taken by Niall Dunne during the audit are attached to this report and are referred to in the text where relevant.

The opening meeting commenced at 12:50 at the Flagmount water treatment plant. The scope and purpose of the audit were outlined at the opening meeting. The audit process consisted of interviews with staff, review of records and observations made during an inspection of the treatment plant. The audits observations and recommendations are listed in Section 2 and 4 of this report. The following were in attendance during the audit.

Representing Irish Water: (\* indicates that person was also present for the closing meeting)

Deirdre O'Loughlin; Compliance Specialist - Irish Water.

Duane O'Brien; Regional Operations - Irish Water.

Rory O' Dea; Senior E.H.O - HSE.

Anthony Mc Namara; Senior Executive Engineer - Clare County Council.

Patricia Ryan; Area Technician- Clare County Council.

Richard McArthur; Caretaker – Clare County Council.

Representing the Environmental Protection Agency:

Niall Dunne; Inspector – EPA.

## 2. AUDIT OBSERVATIONS

*The audit process is a random sample on a particular day of a facility's operation. Where an observation or recommendation against a particular issue has not been reported, this should not be construed to mean that this issue is fully addressed.*

### 1. Chlorination and Disinfection

- a. Duty and standby chlorine dosing pumps were in place, (see photograph 1).
- b. In a subsequent email dated 01/10/2015, IW confirmed that there was no auto switchover between the duty and standby chlorine dosing pumps.
- c. CCC stated that there was no chlorine residual alarm in place.

## 3. AUDITORS COMMENTS

A direction was issued to Irish Water on the 19/11/2015 for the installation of continuous residual chlorine alarm and auto switch over between the duty standby chlorine dosing pumps on the Flagmount Public water supply. The alarm is to be linked to a recording device to ensure any failure of the dosing system is immediately detected. The alarm and the auto switch over are required to be installed by the 1<sup>st</sup> February 2016. The installation of the continuous residual chlorine alarm and the auto switchover between the duty and standby chlorine dosing pumps will be dealt with under the direction.

There is no further recommendation regarding these issues within this audit report.

Irish Water must ensure that all chlorine dosing points under their responsibility are in compliance with *EPA Advice Note No. 3: E.coli in Drinking Water*.

### FOLLOW-UP ACTIONS REQUIRED BY IRISH WATER

During the audit Irish Water representatives were advised of the audit findings and the actions that must be taken as a priority by Irish Water to address the issues raised. This report has been reviewed and approved by Ms Yvonne Doris, Drinking Water Team Leader.

A direction has been issued by the Agency under a separate cover legally requiring specific recommendations to be implemented by Irish Water.

The EPA also advises that the findings and recommendations from this audit report should, where relevant, be addressed at all other treatment plants operated and managed by Irish Water.

Please quote the File Reference Number DW2015/193 in any future correspondence in relation to this Report.

Report prepared by:

*Michael Dine*

Date:

27/11/2015.

Inspector

**Photograph 1: Duty standby chlorine residual dosing pumps at the Flagmount water treatment plant. There is no auto switch over between the two pumps.**

