



Water Industry (Scotland) Act 2002 Enforcement Notice Under Section 10 (1)

Water Quality Management Improvements – Turriff WTW

The Drinking Water Quality Regulator for Scotland (“the Regulator”), in exercise of the powers conferred by section 10(1) of the Water Industry (Scotland) Act 2002 hereby gives notice that she believes that Scottish Water has in the period 1 January 2022 to 28 February 2022, contravened and is likely to continue to contravene, regulation 4(2)(a) of the Public Water Supplies (Scotland) Regulations 2014 (“the Regulations”) and Regulation 29(1)(a),(b) and (c) in relation to the supply of drinking water from Turriff Water Treatment Works by failing to consistently ensure that *Cryptosporidium* is removed or rendered harmless from the supply:

Therefore, Scottish Water is hereby required -

1. Maintain the following **short term measures** until such time as the long term improvement scheme is delivered:
 - a. Optimise the existing coagulation and clarification process to minimise filter turbidities;
 - b. Monitor the turbidity of the water from each filter using online turbidity monitors linked to telemetry, and alarmed at a maximum value of 0.5 NTU;
 - c. Review filter turbidity trends on a weekly basis, and instigate an investigation into any unusual trends or exceedances of 0.5 NTU;
 - d. Monitor and optimise the UV disinfection process, including monitoring the UV transmissivity and turbidity of the water with suitable alarm settings;
 - e. Monitor Turriff WTW final water at an enhanced frequency for *Cryptosporidium* and any other parameters it considers relevant, notifying DWQR of its intentions in this respect by 31 August 2022;
 - f. Notify Grampian NHS Board and DWQR of any final water detections of *Cryptosporidium* not confirmed to have been irradiated by UV disinfection and, if necessary, implement any agreed measures to minimise risk to public health.
2. By 30 September 2022, have commissioned a suitable consultant to undertake an independent review of treatment effectiveness for the removal of *Cryptosporidium*;

3. By 31 December 2022, provide DWQR with a copy of the consultants final report and confirm in writing to DWQR acceptance or otherwise of each recommendation contained within the report produced from the review and confirm progress against each action or alternative approach taken;
4. Carry out the following **interim measures** on the wash water recovery process at Turriff WTW:
 - a. By 31 August 2022, to have re-established turbidity monitoring of supernatant return;
 - b. By 31 March 2023, to have optimised the wash water recovery process at Turriff WTW to minimise the risk from Cryptosporidium, providing DWQR with bi-monthly performance reports;
 - c. Until such time as the long term improvement scheme has been delivered, continue to review the performance of the wash water recovery process and implement additional mitigation should the quality of the supernatant return exceed 10NTU, agreeing with DWQR timescales for implementation of any additional mitigation;
5. Notwithstanding the above requirements, to complete the following in relation to Turriff WTW:
 - a. By 31 January 2023, to have agreed with DWQR interim control measures and timescales for the implementation of the agreed measures to minimise the risk from Cryptosporidium;
 - b. By 31 May 2023, to have assessed the need for further investment (Investment Appraisal) to ensure the effective sustainable and longer term operation of treatment processes at Turriff WTW to minimise the risk from Cryptosporidium;
 - c. By 30 June 2023, to have agreed with DWQR a completion timeline for the further investment identified in 5(b);
 - d. By 31st January 2026, to have designed, constructed and commissioned appropriate modifications agreed under 5(b) and 5(c) to ensure that the water treatment works is able to present a robust and consistent process to minimise the risk from Cryptosporidium.

This notice takes effect 15 days after the date shown below.

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DRINKING WATER QUALITY REGULATOR FOR SCOTLAND

Date: 02/09/2022