

Technical Inspection of**Whitehilllocks WTW****Date of Inspection****12-Sep-16****DWQR Staff Present**

Bill Byers

Scottish Water Staff Present (& Titles)Kenny Simpson , Dave Stobie, Colin Napier
Kes Juskowiak, John Wigham, Lorna Denny
Michelle Smith, David Hill**Summary of Inspection**

This treatment works was selected for audit due to a series of water quality events in 2015 and to verify the implementation of actions and improvements to processes and controls following investigations into coagulation failure incidents in 2014. The works has a capacity of 15.5MLD but at the time of the audit was operating at approx ⅓ capacity, which is the norm, with no current process issues.

The WTW and the intakes are in reasonable condition and show a good level of tidyness and housekeeping. There were no significant issues found during the audit with all previous incident actions and DWQR recommendations to gain better control of processes implemented, Although filter performance appeared good, investigations have identified issues with dirty sand, mudballing, some fissures and concerns of migration of sand through media and blockage of nozzles. Much of which points to efficiency of backwash system. Scottish Water has identified investment in their safety plan for replacement of the filter backwash system, improved chemical dosing systems, process controls, monitoring and telemetry and emergency generator. This is scheduled for completion by end March 2018 and will ensure a more robust, fully automated works.

There was only minor slippage of record keeping in relation to essential process and maintenance tasks and calibration of instruments and monitors. The operators make excellent use of the site diary. The use of clear Emergency Operating Procedures at process monitors throughout the works to guide operator actions, is recognised as an example of industry best practice.