

Technical Inspection of Scottish Water's Water Treatment Works



Camphill WTW

15/03/2022

DWQR Staff Present

Colette Robertson-Kellie

Scottish Water Staff Present

Colin Clegg, David Gray, Mark Tait, Jayde Bree, Gillian McAlpine,
Gary Caig, Scott Gibson

Summary of Inspection

Overall Summary

Camphill WTW was noted as being a well operated by Operators who have an excellent understanding of their treatment works. The site was very neat and clean, and general housekeeping was excellent. The electronic site diary was not being used at the site, but there was a very well maintained paper diary. The paperwork for Cryptosporidium sampling was in poor order.

Despite a raw water source which can fluctuate significantly in colour and turbidity, there was a concerning lack of online raw water monitoring, and final water chlorine and turbidity could not be viewed by Operators. Manual sampling was being recorded in task scheduling. At the time of the audit, Turbidities were very low, as were aluminium residual concentrations which were confirmed through manual sampling. Chlorine dosing and residual concentrations were stable and within set limits.

A number of concerns about the risk from Cryptosporidium at the site were observed. There were significant issues with the primary rapid gravity filters, which are in poor condition - they are cracked and do not wash well. Turbidity trends from one of the filters showed large spikes in turbidity when other filters washed, and turbidity monitors did not measure filter following backwash of filter 4 due to sample pump problems. The alarm for the recycled washwater return turbidity monitor was set at too high a level to be effective.