

## Sampling and Monitoring

What is final water quality like?

Is there a history of cryptosporidium

What quality monitoring is present on final water? Is it adequate?

Where is final water sample point? Is it representative of final water and in accordance with Regs?

Is Crypto sample point in accordance with Directions?

Is final water pH correction satisfactory?

Is final water sample tap correctly sited / constructed - should be dedicate line fo appropriate material

Evidence of maintenance of sample point (is it clean, labelled etc)?

Are appropriate final water checks made, including T&O?

Is data regularly reviewed and trended?

Evidence of maintenance of instrumentation - monitors correctly maintained and calibrated

Is any bench instrumentation maintained, calibrated & used correctly?

Are there procedures governing final water quality

Is a site diary kept and used?

Is SCADA adequate

Is site connected to telemetry?

Are alarm settings appropriate to enable operators to attend site?

If Orthophosphate dosed, is process robust? ( Dosing controlled and monitored)

Is regulatory sampling at the site in accordance with the Regulations?

**Observations** Treated water quality is very good. No history of *Cryptosporidium*. Final water is monitored after the clear water tank for turbidity, pH and chlorine. Cryptosporidium sample point was satisfactory as was the final water sample point. Bench testing is provided for pH, Al, Chlorine, turbidity and colour with results noted in task schedules. EAL sheet settings appeared accurate and appropriate. Orthophosphate is dosed with a set point of 0.5mg/l as P, but this is now optimised at below 0.3mg/l. Site diary and task scheduling completed to a good standard. SCADA replaced in 2014 and appropriate, however staff unsure of retrieving data several months old.