

AVIEMORE CHLORAMINATION

Scottish Water engaged RSE through the Managed Delivery framework to help resolve a water quality issue in Aviemore. Support from PSI allowed the RSE Group to provide a resolution. This project gained an unusual amount of media interest following the interest in the project from the famous Environmental activist Erin Brockovich.

PSI ROSS-SHIRE
ENGINEERING
JOINT VENTURE

To resolve the issue PSI were engaged to install an Ammonium Sulphate (Chloramination) Dosing Skid, which uses both chlorine and ammonia in the disinfection process.

This treatment process lasts longer within the pipe distribution system than using chlorine on its own. Unlike chlorine, chloramines have the benefit of having no significant taste or odour issues in the network.

This project had to deal with complex process design requirements and constraints of working with the live Water Treatment Works building.

Our client was pleased to have the solution for the main scope in place by March with commissioning and completion of the full scope by mid-July 2017.

Scope Summary

- The skid has been installed within the WTW building and doses into a dosing spool between the Chlorine Contact Tank and the Final Water Lift Sump.
- The skid consists of Duty/Standby Storage Tanks, each with its own Fill Panel, Duty/Standby Dosing Pumps and Duty/ Standby Dosing lines (with manual cross over).
- In addition, the External and Internal Safety showers have been relocated. The functionality of the showers (including alarming etc) remains unchanged.
- Dosing Pumps, Level Ultrasonics and Water Quality instruments have been added to the site Profibus Network. The Post CCT Chlorine Monitor B (QIT6502) and other equipment is to be hard-wired to PLC I/O

Project Title: Aviemore WTW Chloramination

Client: Scottish Water

Project Value: £600,000

Award Date: December 2016

Project Commenced: December 2016

Project Completed: July 2017

**Scottish
Water**
Trusted to serve Scotland