INNOVATIONS AT COWRA WATER TREATMENT PLANT UPGRADE

George Ridley, Director- Infrastructure and Operations, Cowra Shire Council

Abstract

Cowra Shire Council is presently undergoing an upgrade of their Water Treatment Plant at Cowra. Work is scheduled to be carried out in three stages which are as follows:

Stage 1 – Refurbishment of sedimentation tanks. This includes the replacement of tube settlers and the installation of a new “state-of-art” sludge removal system which is the first of its type in Australia. This stage is due to be completed prior to Christmas 2012.

Stage 2 – Upgrade of existing filtration system. This stage is to be constructed next year and Council is presently seeking new and innovative proposals.

Stage 3 – Automation of plant. This final stage involves the complete automation of chemical dosing system, on-line monitors, filter operations, river raw water transfer to plant and pump control. This work is to be implemented next year.

This paper will present the efficiencies gained through each staged implementation and the latest techniques implemented. The paper includes the analysis of improved quality and quantity of treated water. Also included are the lessons learnt by the engineers and operators involved in this project.

Key Words: Water Treatment Plants, innovations - sludge, settlers, filters.