

Project Name: Town of Cochrane Water Treatment Plant

Location: Cochrane, Alberta

Owner: Town of Cochrane

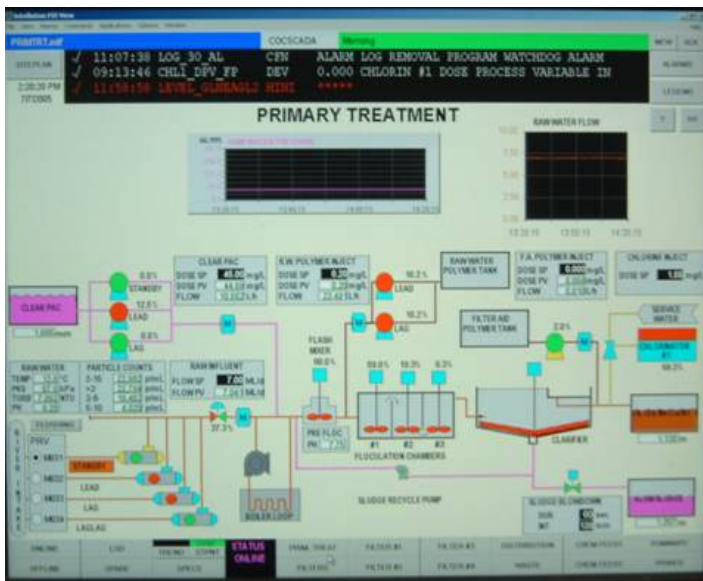
Prime Consultant: Lockerbie & Hole Contracting, Calgary



Plant Facility: The Town of Cochrane has highly automated water treatment plant that utilizes online analyzers and SCADA system.

The Town’s raw water supply comes from the Bow River. The raw water treated through an automated WTP plant consists of Coagulation, Flocculation, Clarification, Disinfection and Filtration processes. The Plant has facility to store treated water and internal laboratory for water testing. It has by product handling facility to process sludge before disposing.

Delco Automation’s Scope of Work: Designed, Engineered, Manufactured and Implemented PLC/Fix/DMACS based control system as a part of automated water treatment plant at Cochrane, AB.



Technology: A PLC is programmed using Allen Bradley AI series software. It functions as a primary control device to operate plant as per the requirements. The main plant PLC communicates to various remote sites to store data on the HMI. The two Fix based SCADA systems are designed for operator interface: one works as full time SCADA and the other as redundant SCADA. Both of the SCADA collect plant information/status simultaneously. The SCADA is used to monitor various processes, alarms and selecting set points on the screen. The reporting system gathers data from HMI and generates daily/monthly report using MS-Excel.