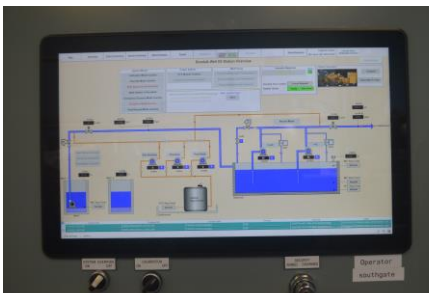


## Township of Southgate Town of Dundalk – SCADA System Upgrade Project for Wells and Water Distribution

Summa's experience in the implementation of groundwater supply and distribution facilities SCADA Systems upgrades in addition to our expertise in programming, instrumentation, documentation, and commissioning operating facilities allowed for the successful completion of this project

### *Background*

The Dundalk water system responsible for supplying water to the Village consists of 3 wells and a SCADA system that monitors the system. The wells include reservoirs, high lift pumps, and chemical disinfection, instrumentation, and diesel generators for standby power. D3 also has UV sterilization. All wells have SCADA control.



### *Scope of Work - Control System*

The SCADA network was reconfigured to utilize the Ignition Edge technology by Inductive Automation. By replacing the existing OIT's with Edge software and panel mount computer we were able to provide graphical continuity throughout the SCADA system, monitoring and control of the system from any well and the Main SCADA, and store and forward data collection to minimize data loss.

This Edge technology was also installed in D5. Summa introduced a vastly improved PLC and SCADA standard that delivered enhanced monitoring and control for the new PLC's in wells D3 and 4 and the new SCADA system. To continue these enhancements to D5, the PLC program for D5 was also rewritten to new standards.

The transition plan was developed and implemented with minimal down time and interruptions to the water demand requirements. Training of our intuitive SCADA design and navigation was given to operations. A full documentation package was delivered to complete the successful upgrade.

PLC: Rockwell Automation Compact Logix  
SCADA: Inductive Automation Ignition HMI and Historian  
Reports: Ocean Data Dream Reports