



**NAME OF THE PROJECT**  
Upgrading control systems

**FIELD**  
Wastewater treatment plant

**LOCATION**  
Laval

**YEAR OF ACHIEVEMENT**  
2020-2022

### Context

The plant was maintained by an obsolete Allen-Bradley PLCS platform. The customer's desire was to modernize the installations for a Schneider architecture made up of M580 series PLCs.

### Mandate

The mandate was to convert SCADA iFix to new industry standards while ensuring that plant activities and system integrity were maintained during the start-ups of the different phases.

### Tasks performed

- Development and implementation of new standards at the Human-Machine interface with the client to follow the high performance philosophy.
- Development and establishment of new standards at the PLC level with the client to follow the high performance philosophy.
- Writing manuals for PLC and SCADA programming standards.
- Programming and testing of new standards blocks and processes with the client to follow the high performance philosophy.
- Communication configuration to implement retained drives that used ControlNet.
- Configuration of the development environment with VPN access for the client.
- Validation of SCADA models for operations.
- Customer training.

### Solutions provided by PCI

- Phased start-ups to maintain plant operations and system integrity.
- Configuration of the development environment with VPN access for the client.

### Tools and methods used

- Teams with Sharepoint folder shared with the client for monitoring deficiencies.
- Registration of training for operations and the technical team with Teams.