

**Client**

City of Ottawa

**Location**

Ottawa, Ontario

**Services**

- Field survey and asset Inventory
- Pre and detailed design
- Construction Supervision
- Programming and Commissioning

**Date**

1999 - 2001

**Key Personnel**

Yvonne Mackwood, P.Eng.  
Software Manager  
Frank Eslami, P.Eng.  
Electrical

**Contract Value**

\$120,000.00



# SCADA Upgrade – Water Production

**Scope of Services**

The City of Ottawa has two water production plants; Lemieux WPP and Britannia WPP with a capacity of 290 and 360 MLD (million litres per day), respectively. In 1998, the existing water production SCADA system was obsolete and no longer supported by the vendor. A modern SCADA system was a critical component to meet the City's requirements for increased capacity and improved water quality.

**Project Description**

The SCADA upgrade for water production was a multi-million dollar, design-build project to modernize automation and information management systems. Delcan was contracted to design, program, test and commission several processes at both the Britannia and Lemieux Island plants, including: high lifts, low lifts, Operator Decision Support System (ODSS), filters, co-generation and power monitoring. In addition, Delcan senior staff were selected to provide overall quality assurance and quality control for design, PLC (programmable logic controller) programming and Web-based HMI configuration.

