

# SPRINGWOOD PUMP STATION EXPANSION

## CITY OF PARKSVILLE

The Springwood Pump Station in Parksville transfers water from two low level reservoirs to an elevated reservoir serving the City's 74 m pressure zone. The low level reservoirs receive approximately 50% of the total City water supply from 8 drilled wells. Growth in the City's west end required expansion of the 105 m pressure zone, and it was decided to build new booster pumps to be housed in an extension of the existing pump station. The 105 m pressure zone is not served by a reservoir, as the required height of land is not available – thus standby power needed to be provided.

The concrete block building extension has a floor area of approximately 110 m<sup>2</sup>. Initially, two pumps were installed, one 100 hp and the other 30 hp, with space and piping provided for two more future pumps. A standby generator was installed in its own room with a fuel tank and ventilation system.

The water passing through the higher zone pump station can come from the Springwood wells and/or the City's Englishman River intake. The river water is chlorinated at the source, but the well water is not. A separate room was provided in the building extension for the future installation of gas chlorination equipment, so that the well water can be chlorinated or all water re-chlorinated before it is distributed to consumers.

The pipe work around the building was modified to allow different pressure zones to be served, and to allow for future changes to provide sufficient contact time once the chlorination system is installed.

New electrical panels were installed to accommodate the starters, transfer switch, and other equipment. The existing SCADA system was modified to incorporate data received from the new station.



*View of the Springwood compound, showing the expanded pump station with the low level reservoirs in the background*