



Placement of booster station precast concrete sections

Installation of the 300-mm watermain along Osler Bluff Road



The Town of The Blue Mountains' available water supply needed to be increased due to the rapid development in the Craigeith area.

## Water Booster Pump Station and Trunk Watermains at County Road 19 Town of The Blue Mountains

To provide adequate pressure to fill existing hillside reservoirs, the Town of The Blue Mountains retained the Ainley Group in 2002 to design a booster pump station and connecting watermains. Since the available water supply needed to be increased due to the rapid development in the Craigeith area, the Town of The Blue Mountains entered into an agreement to purchase water from the adjacent Town of Collingwood.

Located at the western limit of the Town of the Blue Mountains, on the southwest corner of Grey Mountain Road 19 (Mountain Road) and Osler Bluff Road, the facility consists of two can-type vertical turbine pumps complete with variable speed drives, placed in a below-ground precast concrete chamber. The station is designed to pump continuously at a selected flow-rate and has a combined pumping capacity is 92.6 L/s.

Construction of the pump station began in the fall of 2002 and was completed in the spring of 2003. The Ainley Group also provided contract administration.

### Project Facts

**Client:** Town of the Blue Mountains

#### Scope of Work:

- Preliminary design
- Detailed design:
  - Replacement of 900-mm dia. corrugated steel pipe across County Road 19 (open cut)
  - Directional boring under County Road 19 for new 300-mm dia. watermain
  - Construction of belowground booster station with watermain connections.
- Contract administration.

#### Design Criteria:

- Pumping capacity: 92.6 L/s
- Two can-type vertical turbine pumps (46.3 L/s each)
- Precast concrete chamber.

**Project Cost:** \$830,000, including connecting water mains (2003)