

Client

Grace Krasowski, P.Eng.
Region of Peel
10 Peel Centre Drive,
Brampton, Ontario
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Location

Mississauga, Ontario

Services

- Operation
- Design
- Contract administration
- Inspection
- Calibration and commissioning

Date

2002

Key Staff

Hugh Tracy, P.Eng.
Project Manager
Euan Ferguson, C.E.T.
Site Inspection

Contract Value

\$334,000.00

Flow Monitoring Region of Peel Trunk Sewers

Scope of Services

To assist in staging the expansion of trunk sewer capacity and to identify areas of high inflow or infiltration, the Region of Peel required accurate measurement of flows in the east and west trunk sewers that terminate at the Lakeview and Clarkson wastewater treatment plants on the shores of Lake Ontario.



Project Description

Delcan's first assignment was to install, calibrate and maintain temporary flow meters at three sites until permanent meters could be installed.

This was followed by the installation of permanent meters at fourteen key locations – on sewers ranging in size from 1,200 mm to 2,250 mm (48-inch to 90-inch) in diameter. All the sites are connected to the Region's supervisory and data acquisition system. Data is accumulated in remote programmable units until such time as the site is polled and the data transmitted.

Results

Flow meters using the "area x velocity" principle were selected. New technology for velocity measurement using radar, avoided the need to install equipment underwater.