

CITY OF HAMILTON

PUBLIC WORKS DEPARTMENT (WATER & WASTEWATER) - LOCATION - HYDRO - 6TH FLOOR

GEOMATICS TECHNOLOGIST – CUPE 5167

SUMMARY OF DUTIES

Under general supervision of the Operations Engineers, assist in the planning, engineering, maintenance and operation of the City's Water, Sanitary, Storm and Combined Sewer systems.

GENERAL DUTIES

Assist the Operations Engineers in the investigation and planning of construction, rehabilitation and replacement of waterworks and sewer systems by computer simulation or manual methods.

Maintain electronic or manual records of drainage areas, pressure districts, and inspection records as necessary to maintain system simulation analysis tools.

Prepare preliminary engineering drawings, plans, mapping, or display panels.

Input and retrieve system data. Retrieve data from maintenance management, assessment, GIS, SCADA and other data management systems as required.

Determine drainage area and development factor for sewer systems. Calculate hydraulic capacity manually and or by computer.

Calculate water demand forecasts and water distribution system parameters by manual and or electronic means.

Arrange, review, comment on and quantify or recommend remediation works for implementation from video inspection reports.

Investigate cases of reported malfunctions within the existing waterworks or sewer systems and plan remedial works, including field testing as required.

Receive and answer inquiries from public, staff, and other departments, elected officials, lawyers and contractors.

Oversee and assign work of students.

Write correspondence.

Perform other duties as assigned which are directly related to the major responsibilities of this job.

QUALIFICATIONS

1. Diploma from a three-year Community College course in an accredited Engineering Technologist Program.
2. A member of, or eligible for certification with the Ontario Association of Certified Technicians and Technologists.
3. Ability to assume responsibility to identify and develop ideas into completed projects independently.
4. Ability to co-ordinate and relate well with professionals and non-professionals within and outside the organization.

5. Must possess excellent written communication skills.
6. Mandatory computer skills including word processing, data entry and manipulation of spreadsheets and/or databases and drafting by Bentley Microstation. Familiarity with infrastructure data management systems, (e.g. Hansen IMS) and hydrolic/hydraulic simulation models, (e.g. SWMM) are define assets.
7. Previous construction, design, operations and/or maintenance in a sewage or waterworks environment required.
8. Five years experience required.