

CITY OF HAMILTON

PUBLIC WORKS DEPARTMENT

(HAMILTON WATER DIVISION – WATER AND WASTEWATER SYSTEMS PLANNING - LOCATION - 77 JAMES ST. N., SUITE 400)

WATER RESOURCES TECHNOLOGIST - CUPE 5167

SUMMARY OF DUTIES

The Source Water Protection Team provides water resources planning in accordance with the Clean Water Act and other pertinent drinking water and water resources legislation. The Technologist will report to the Senior Project Manager, Source Water Protection and will provide technical support related to the sectional database systems, the Geographical Information System (GIS) as well as field work to support on-going water resources related projects.

GENERAL DUTIES

Collects and manages hydro-meteorological data, enters and updates data in databases.

Up-dates GIS layers and prepare maps

Uses hydrogeological models. Inputs and retrieves analytical data.

Monitors wells using field equipment.

Calibrates equipment and verifies data.

Collects water quality samples.

Organize water-sampling schedules.

Completes statistical analysis of data. Prepares various records and reports related to water quality and quantity monitoring;

Performs queries in the water and wastewater SCADA system.

Receives and answers inquiries by telephone, email or traditional mail

Maintains records such as correspondence and report files within the appropriate tracking system.

Creates, reviews and maintains policies and procedures to ensure compliance with current work practices and drinking water, environmental and health and safety legislation.

Performs other duties as assigned which are directly related to the major responsibilities of the position.

Works in accordance with the provisions of applicable Health and Safety legislation and all City of Hamilton corporate and departmental policies and procedures related to Occupational Health and Safety.

QUALIFICATIONS

1. Must be able to demonstrate a level of expertise related to the duties described above, normally acquired through a University Degree in Environmental Science or Environmental Engineering with a focus on GIS, Computer science and/or Civil Engineering Technologist (CET) or related sciences or a combination of education and relevant work-related experience.
2. Proven experience in managing and maintaining data within a GIS database. Demonstrated and strong working knowledge of Esri, Intergraph's GeoMedia, or related GIS System.
3. Working knowledge of Microsoft SQL is preferred.
4. Extensive experience in software such as Word, Excel, and Access.
5. Proficient in one or more programming languages (Java, C++, R) is an asset.
6. Knowledge of statistical analysis of data using suitable software.
7. Experience creating macros and performing database searches.
8. Working knowledge in Reg. 903 - Wells and its application would be an advantage.
9. Knowledge of the Ontario Drinking Water Source Protection Program would be an asset.
10. Ability to create reports for analytical mapping, tracking and reporting purposes.
11. Must be detail oriented, and have analytical and record keeping skills.
12. Excellent communication, interpersonal skills and able to work well independently and as part of a team.
13. Ability to perform field work.
14. Must possess a Class "G" Driver's License.

THIS POSITION REQUIRES A VALID CLASS "G" DRIVER'S LICENCE AND PROOF THEREOF IS REQUIRED AFTER HIRE.

NOTE 1:

As a condition of employment, the successful applicant(s) will be required to obtain a satisfactory Criminal Record & Judicial Matters Check (*formerly Police Information Check*), at their own expense, prior to beginning work in this position.

THE INCUMBENT SHALL COMPLY WITH ALL HEALTH AND SAFETY POLICIES AND PRACTICES FOR THIS POSITION AND THE WORKPLACE

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