

Township of North Kawartha

280 Burleigh Street, PO Box 550, Apsley, ON K0L 1A0
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www.northkawartha.ca

Report to Council

To: Mayor and Council Members
From: Gary Gerald, Director of Parks and Recreation / Waste Management
Date: July 07, 2026
Subject: Drinking Water Systems at North Kawartha Library and Municipal Office

Recommendation:

That the Township of North Kawartha transfer \$6,002.00 from General Reserves for the recommended repairs and upgrades to the North Kawartha Library drinking water disinfection system.

That the Township of North Kawartha transfer approximately \$1,850.00 from General Reserves for the recommended repairs and service to the North Kawartha Municipal Office drinking water disinfection system.

Background:

The Township of North Kawartha maintains drinking water treatment and disinfection systems at seven municipal facilities in accordance with Ontario Regulation 319/08. Each facility undergoes a comprehensive inspection and assessment by the local Health Unit every four years and must comply with all recommendations and requirements identified through the assessment process.

These assessments evaluate the entire drinking water system, from the well source to the point of use, and establish requirements related to system operation, maintenance, and microbiological sampling frequencies.

Analysis:

The Township maintains all municipal drinking water systems through a proactive inspection, testing, and maintenance program. In addition to routine in-house monitoring and monthly microbiological sampling, the Township retains a qualified third-party water treatment contractor to perform annual inspections and preventative maintenance of each system, including ultraviolet (UV) lamp replacement and assessment of all treatment components. Historically, the iron filtration and water softening equipment at



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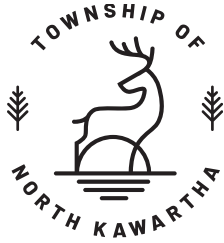
both facilities has been maintained through periodic media replacement and re-bedding as required.

During a recent inspection, the iron filtration system at the North Kawartha Library experienced an unexpected failure. This resulted in a greater treatment load being placed on the water softener and contributed to UV system alarms caused by changes in water quality and conductivity. To prevent any interruption to the potable water supply and library operations, emergency service was arranged through a contractor already engaged by the Township on another municipal project. The immediate repairs ensured continued compliance and uninterrupted service to the facility.

Following the emergency response, we undertook a broader review of the Library's water treatment system. Given the age of the existing equipment and the significant mineral content of the water supply, quotations and recommendations were obtained from an additional water treatment specialist to evaluate long-term replacement requirements. Based on this assessment, we are recommending replacement of both the iron filter and water softener at the library. While re-bedding the existing softener remains an option, the age and condition of the unit suggest that full replacement represents the more cost-effective and reliable long-term solution.

Given the similar source water characteristics and treatment equipment at the Municipal Office, we also requested an evaluation of that facility's system. The review identified mineral accumulation and normal wear within the iron filter and water softener. As part of the Township's preventative maintenance strategy, staff recommend advancing the scheduled annual service by approximately three months and completing a re-bedding of both treatment units. The condition of the equipment will continue to be monitored, and any future replacement requirements will be evaluated for consideration through the 2027 budget process.

To further improve system performance, programmable automatic flush valves will be installed on the UV disinfection systems at both facilities. These devices will periodically circulate water through the treatment equipment during periods of low usage, helping to maintain water quality parameters and reducing the occurrence of non-critical UV system alarms caused by stagnant water conditions.



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Based on the assessments completed, we are recommending the following work:

North Kawartha Library – NeoTec Water Treatment

- Emergency service completed in June 2026: \$1,361.00
- Supply and installation of a new iron filter and water softener: \$4,641.00

North Kawartha Municipal Office – McLeod's EcoWater

- Annual preventative maintenance service, including re-bedding of the iron filter and water softener: \$1,850.00

This recommended work will improve the reliability of the drinking water treatment systems, reduce the risk of future service interruptions, and support the Township's commitment to maintaining safe and compliant drinking water systems within its municipal facilities.

Financial Implications:

Transfer from General Reserves:

1. \$6,002.00 including applicable tax for the North Kawartha Library.
2. \$1,850.00 including applicable tax for the North Kawartha Municipal Office.

Strategic and/or Other Plans:

Infrastructure

1. Ensure that the existing infrastructure is sustained reflective of the Asset Management Plan.

Governance

1. Provide Quality Community Programs and Services.

Environment

1. Promote Responsible Environmental Stewardship.

Consultant(s) Sourced:

Shawn Tucker, Parks and Recreation Supervisor

Attachment:

None.