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Date March 7th, 2023 **Report No.** 2023-175

To Chair and Members
Committee of the Whole - Operations

From Inderjit Hans P. Eng., PMP
General Manager, Public Works Commission

1.0 Type of Report

Consent Item [X]
Item For Consideration []

2.0 Topic 2022 Annual Summary Report for the City of Brantford Water System [Financial Impact - None]

3.0 Recommendation

- A. THAT Report No. 2023-175 titled “2022 Annual Summary Report for the City of Brantford Water System” BE RECEIVED; and
- B. THAT the Clerk BE DIRECTED to forward this Report (No. 2023-175) to The Corporation of the County of Brant.

4.0 Executive Summary

The City of Brantford is committed to providing our customers with a safe and adequate supply of drinking water that either meets or surpasses applicable regulations and legislation in the Province of Ontario. The information in the Annual Summary Report is intended to inform members of Council and the public about the current state of the Drinking Water System and demonstrate that high quality drinking water is continually supplied to consumers.

The 2022 Annual Summary Report shows that the City met the drinking water regulatory requirements outlined in the Safe Drinking Water Act (2002) and Ontario Regulation 170/03. It is to be noted that the City received 100% score in the annual inspection by the Ministry of Environment, Conservation and Parks (MECP).

In accordance with Schedule 22 of Ontario Regulation 170/03 under the Safe Drinking Water Act, the City is required to inform Council of the status of drinking water compliance by March 31 of every year. A copy of this report will be available to the public. A copy of this report will be provided to the Corporation of the County of Brant as it receives drinking water in bulk from the City to supply to the Cainsville area. It is recommended that the 2022 Annual Summary Report for the City of Brantford Water System, as prepared by the staff be received.

5.0 Purpose and Overview

To inform Council about the operation and performance of the municipal water treatment and distribution system as required by Schedule 22 of Ontario Regulation 170/03 under the Safe Drinking Water Act. The 2022 performance is outlined in the attached report titled, "The City of Brantford Water System - 2022 Annual Summary Report".

6.0 Background

Schedule 22 of Ontario Regulation 170/03 under the Safe Drinking Water Act requires that a Drinking Water Annual Summary Report be prepared and submitted to the members of municipal Council by March 31st of each year relating to the operation and performance of the municipal drinking water system for the preceding calendar year. The report must list any non-compliance issues, which occurred in the previous year related to the drinking water regulation, drinking water works permit, municipal drinking water license and any orders applicable to the system. The report must also specify the duration of failure(s) and measures taken to correct the issue(s). Other information that must be featured in the report includes the quantity of water supplied for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and future uses of the system. The regulation requires that a copy of the report be provided to The Corporation of the County of Brant, which is a municipality that receives water from the City.

7.0 Corporate Policy Context

The Water Operations 2022 Annual Summary Report documents how the division's activities are in line with Council's desired outcome of "Priorities #7- The City is mitigating its environmental footprint and adapting to climate change" by:

- Monitoring the raw water taking from the Grand River and the discharge of effluent from Residual Management Facility to the Grand River to ensure the impact on the Grand River ecosystem is minimal;
- Maintaining all equipment to ensure that the Water Treatment Plant, Pumping Stations and Reservoirs can operate to their full capabilities.

8.0 Input From Other Sources

Staff from the Environmental Services and Finance Departments and the Climate Change Officer were consulted in the development of the Water Operations 2022 Annual Summary Report.

9.0 Analysis

The 2022 Annual Summary Report (Appendix 1) outlines the performance of the City of Brantford Water System (including Treatment Plant & Distribution System) for the calendar year.

Specifically, the report outlines:

- Background and Description of Drinking Water System
- List of Water Treatment Chemicals Used
- Major Expenses
- Summary of Reporting Adverse Test Results and Other Problems (Schedule 16)
- Holmedale Water Treatment Plant Flows
- Summary of Test Results Required Under On. Reg. 170/03
- Summary of Test Results Required Under the Municipal Drinking Water License (MDWL)

- MECP Annual Inspection Summary: 100% final inspection rating achieved during the annual inspection, which occurred August 24th and September 8th, 2022.

Copies of this report will be available for the public at City Hall and the City's website upon Council approval. A copy of the report will be provided to the Corporation of the County of Brant by March 31, 2023.

10.0 Financial Implications

There are no financial implications resulting from this report.

The Water Operations division is 100% funded from the revenue generated from user fees and water rate. A comparison of Brantford's monthly average water cost for a single family home (17 cubic meters per month) to other local municipalities is trended in Figure 1. The comparison shows that Brantford water rate is in the middle of the comparator municipalities.

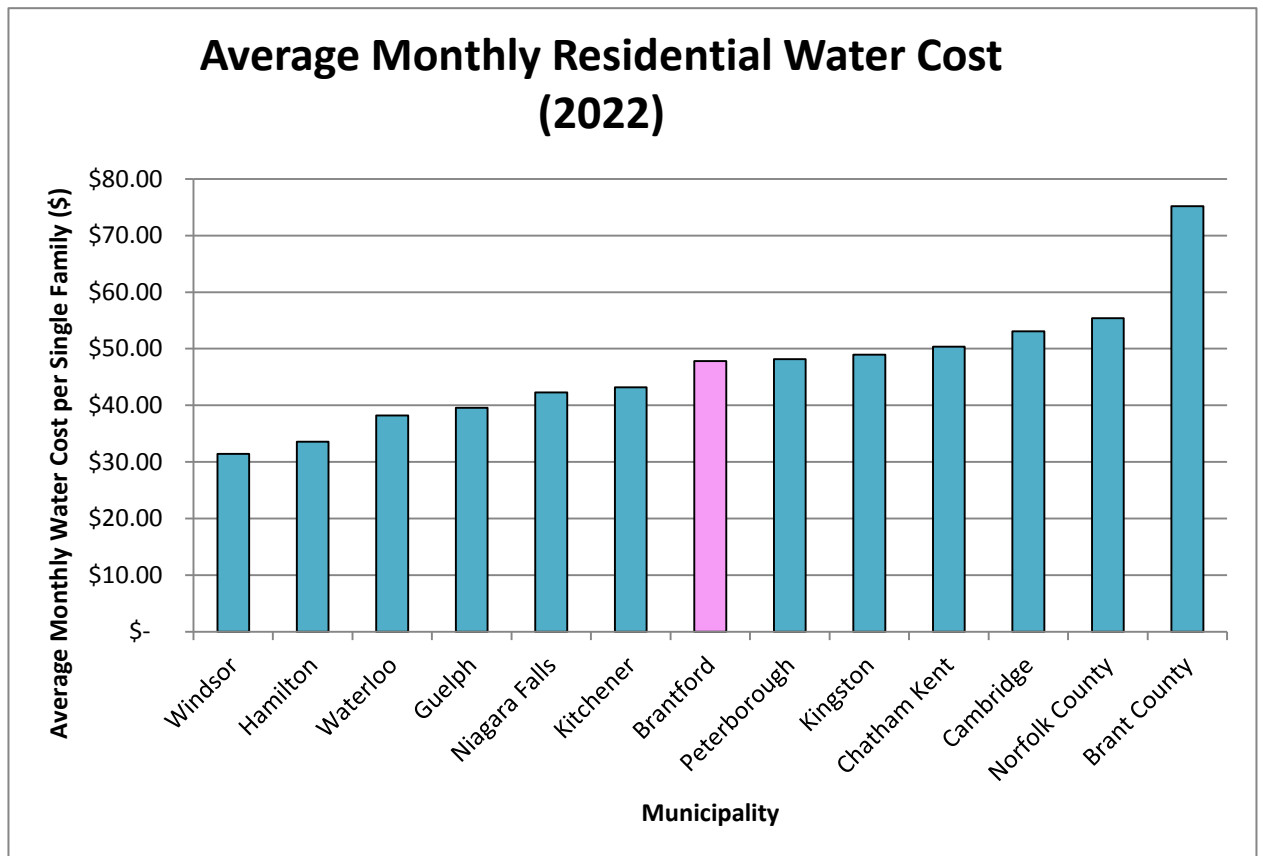


Figure 1 Average Monthly Residential Water Cost for 2022

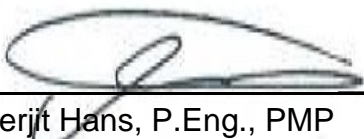
11.0 Climate and Environmental Implications

Water treatment and supply are important functions of a municipality. However, these works are energy-intensive in order to consistently provide safe drinking water throughout the City's Distribution System.

Water Treatment activities include administration, treatment, storage and pumping to the water distribution network. Water Operations continually monitors its processes and is committed to reducing energy consumption and carbon emissions through various optimization approaches such as investigating and implementing new pumping systems, replacing old equipment with new energy efficient alternatives and ensuring that capital projects take into account technologies that reduce energy consumption and carbon emissions.

12.0 Conclusion

In accordance with Schedule 22 of Ontario Regulation 170/03 under the Safe Drinking Water Act, it is recommended that the 2022 Annual Summary Report for the City of Brantford Water System, as prepared by the Environmental Services Department be received.



Inderjit Hans, P.Eng., PMP
General Manager, Public Works Commission

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Attachments

Appendix 1 - City of Brantford Water System - 2022 Annual Summary Report

In adopting this report, is a by-law or agreement required? If so, it should be referenced in the recommendation section.

By-law required	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
Agreement(s) or other documents to be signed by Mayor and/or City Clerk	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
Is the necessary by-law or agreement being sent concurrently to Council?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no