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## **MEMORANDUM**

**CWCD 194-2019**

**Subject: Councillor Information Request re: Main Water Loss Assessment**

**Date: May 17, 2019**

**To: Regional Council**

**From: Jen Croswell, C.Tech.**

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As requested during Public Works Committee on March 19, 2019, this memorandum was created to provide a summary of water loss assessment work undertaken by Niagara Region.

Based on past results, Niagara Region completes transmission main water loss assessments on Regional infrastructure on an as needed basis. In an effort to troubleshoot water loss challenges in area municipal distribution systems, Niagara Region works collaboratively with area municipalities, when requested, by participating in the evaluation and implementation of district metering areas (allowing for isolation and control of water flow to help to identify areas of water loss within the municipal distribution system) and by conducting water loss assessments.

To date, district metering areas have been implemented in the City of Port Colborne (2010) and evaluated in the Town of Fort Erie (2018). Water loss assessments were completed on an area municipal level in 2007 and were updated in 2012. Results indicated varying levels of non-revenue water losses with recommendations specific to each area municipality. Area municipalities have, and continue to, implement work to address these specific recommendations.

In addition, in 2010 Niagara Region conducted a water loss assessment on Regional infrastructure for the transmission mains between Park Road Reservoir (Grimsby) and Smithville Reservoir (West Lincoln), Rosehill Water Treatment Plant to Prospect Point Road (Fort Erie), and Niagara Falls Water Treatment Plant (900mm) to Montrose Road (Niagara Falls). Results of the water loss assessment indicated that billing meters represented acceptable flows when compared to the testing meter and were not indicative of water loss within Niagara Region's distribution system.

To maintain confidence in the Region's billing flow meters, and as requested by area municipalities, billing flow meters are calibrated on a semi-annual basis which is at a greater frequency than industry standard.

Respectfully submitted and signed by,

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Jen Croswell, C.Tech.  
Water Compliance Specialist