



**Subject: 2020 Annual and Summary Water Works Reports**

**Department: Infrastructure Services**

**Division: Environment**

**Report #: INS-2021-014**

**Meeting Date: 2021-03-22**

---

### **Recommendations**

**That report INS-2021-014, 2020 Annual and Summary Water Works Reports, be received;**

**And that the 2020 Summary Report for the Orangeville Drinking Water System be received;**

**And that a copy of the 2020 Summary Report for the Orangeville Drinking Water System be forwarded to Credit Valley Conservation.**

### **Background and Analysis**

The purpose of this report is to provide Council with the 2020 Annual and Summary Water Works Reports for the Orangeville drinking water system. Ontario Regulation 170/03, as amended, which is titled the Drinking Water Systems Regulation (the "Regulation"), requires annual preparation of the reports. The following provides a brief description of each report.

#### **Annual Report**

Attachment 1 to this report is a copy of the 2020 Annual Report. It is required by Section 11 of the Regulation and must be completed and made available to the public by February 28, 2021. The report was completed by the date required and is currently available on the Town's website. The reporting period for the 2020 Annual Report is January 1 to December 31, 2020.

The Annual Report provides a basic description of the water works system, a summary of any Adverse Water Quality Incidents (AWQIs) that occurred during the reporting period, and a summary of the water quality testing results for the reporting period.

The results of routine water quality testing continue to indicate Orangeville's water is of good quality and meets the microbiological and chemical health-related standards of Ontario Regulation 169/03, the Ontario Drinking Water Quality Standards (ODWQS).

There were three (3) AWQIs in 2020 for which notification to the Ministry of Environment Conservation and Parks (MECP) was required. Two (2) of the incidents involved depressurization of short sections of watermain due to breaks in the pipe. In each case, repairs were completed, the affected watermain was flushed, chlorine residuals were checked and confirmed, and samples were collected for microbiological testing. The testing results were within the regulated standards for microbiological parameters.

One (1) incident involved measurement of a chlorine residual less than 0.05 milligrams per litre; the minimum required by regulation. The measurement was taken by means of a grab sample collected from the end of a short dead-end watermain. The affected watermain was flushed, adequate chlorine residuals were confirmed, and samples were collected for microbiological testing. The testing results were within the regulated standards for microbiological parameters.

All AWQIs are reviewed annually as part of the Town's Drinking Water Quality Management System (DWQMS). Staff continue efforts to minimize the occurrence of these incidents through the DWQMS review process.

### **Summary Report**

Attachment 2 to this report is a copy of the 2020 Summary Report. Schedule 22 of the Regulation requires the Summary Report to include the following:

- A list of those instances when the operation of the system was not in compliance with its approval, permit, license, applicable legislation or provincial orders, and the corrective actions taken, and;
- A summary of the capacities of the system's water treatment facilities and the flow rates through the facilities during the reporting period.

The reporting period for the 2020 Summary Report is January 1 to December 31, 2020.

There were two (2) incidents of non-compliance in 2020. The first incident related to a small number of instances in the water works logbooks where the Operator in Charge was not clearly identified and/or the identity of the person making a logbook entry was not always unambiguous. The second incident related to a missed quarterly nitrate/nitrite test at one of the water treatment facilities. Additional details regarding the non-compliance incidents, including background, descriptions and resolution information, are provided in the Summary Report.

The maximum daily treated water flow rate in Orangeville for 2020 was 11,238 m<sup>3</sup>/d, which is 63% of the approved rated capacity in the Town's Municipal Drinking Water License.

To comply with the Regulation, Council must pass a motion to receive the report to acknowledge that the Summary Report has been circulated to it. Thereafter, the Summary Report will be uploaded to the Town's website, and printed copies will be made available to the public at no cost.

---

## **Strategic Alignment**

### **Orangeville Forward – Strategic Plan**

Priority Area: Sustainable Infrastructure

Objective: Maintain Existing Assets

### **Sustainable Neighbourhood Action Plan**

Theme: Natural Resources and Environment

Strategy: Continue to provide access to safe drinking water that meets the needs of the community

---

## **Financial Impact**

There is no financial impact associated with this report.

Respectfully submitted

Douglas G. Jones, P. Eng.,  
General Manager  
Infrastructure Services

Prepared by

Tim Thompson, Eng. Tech.  
Waterworks Technologist  
Environment Division

## **Attachment(s):**

1. 2020 Annual Water Works Report
2. 2020 Summary Report for Water Works