



Subject: 2026 - DWQMS Quarter 1

Report to: Thorold City Council

Recommendations

1. That Report PWCS 24-2026 **BE RECEIVED** for information purposes.

Key Facts

- The purpose of this report is to keep Council, (owners) informed and updated with the status of the drinking water system(s)
- There was one (1) adverse drinking water sample during the first quarter that was remedied immediately
- The drinking water system(s) are operating proficiently

Budgetary Status

N/A

Analysis

In accordance with the City's Drinking Water Systems Operations and Maintenance Manual, Staff is required to provide Council, owners of the system, quarterly reports of all "adverse water quality incidents" and the review of completed "Daily Log Sheets".

Quarterly and Annual reports help council obtain data on the City's water infrastructure and allows for more educated decisions when dealing with water issues. Any action required is described in recommendations above, most reports are informational only.

As always, additional data can be requested from staff and provided to council at any time.

Drinking water samples are taken on a weekly basis in accordance with Ontario Regulation 170/03. Daily Log Sheets are to be completed by designated operators at the end of each shift in accordance with Ontario Regulation 128/04. The following summary report includes the first quarter of 2026 for the period beginning January 1, to March 31 2026.

Quarter 1

“Adverse Water Quality Incident Summary”

Total Number Drinking Water Samples Collected = 227

Total Number of Adverse Drinking Water Samples = 1

The adverse sample was a result of 1 Total Coliform. Proper procedures were taken to address and resolve the adverse received from the weekly samples. Public Health and SAC were satisfied with corrective actions. No major issues resulted from the adverse sample and the follow up samples were clear and within the specifications deeming the system safe and operable.

O.Reg 170/03, s. 8.3 The owner of a drinking water system that provides secondary disinfection and the operating authority for the system shall ensure that at least two distribution samples are taken each week in accordance with subsection (3.1) and are tested immediately for,

(a) free chlorine residual, if the system provides chlorination and does not provide chloramination;

Total Number of Free Chlorine Residual Tests = 398

Total Number of Adverse Free Chlorine Residual Tests = 0

Highest Chlorine Residual Reading = 1.48

Lowest Chlorine Residual Reading = 0.30

“Review of completed Daily Log Sheets”

Reg 128/04, s. 27.(5) An operator-in-charge or a person authorized by an operator-in-charge shall record the following information in the logs or other record-keeping mechanisms in respect of each operating shift:

1. The date, the time of day the shift began and ended and the number or designation of the shift.
2. The names of all operators on duty during the shift.

3. Any departures from normal operating procedures that occurred during the shift and the time they occurred.
4. Any special instructions that were given during the shift to depart from normal operating procedures and the person who gave the instructions.
5. Any unusual or abnormal conditions that were observed in the subsystem during the shift, any action that was taken and any conclusions drawn from the observations.
6. Any equipment that was taken out of service or ceased to operate during the shift and any action taken to maintain or repair equipment during the shift. O. Reg. 128/04, s. 27 (5).(6) The owner or operating authority shall ensure that logs and other record-keeping mechanisms are accessible at the subsystem,
 - (a) for at least five years after the last entry in it was made, in the case of a log or record-keeping mechanism that is kept in a book or document form or kept on a similarly fixed basis; or
 - (b) for at least five years after each entry in it was made, in the case of a log or record-keeping mechanism that is kept on a loose-leaf or electronic basis or kept on a similarly continuous basis. O. Reg. 128/04, s. 27 (6).
- (7) The owner or operating authority shall submit to the Director copies or summaries of the records kept under this section when requested to do so by the Director. O. Reg. 128/04, s. 27 (7).

Total number of completed shifts = 62

Total number of daily logs **NOT** completed or not completed correctly = 0

This report has been prepared for information purposes in accordance with Section E2 of the City's Drinking Water Systems Operation and Maintenance Manual, Quarterly Reporting Requirements.

Impact on the Environment, Climate Change

There are no known environmental or climate change related impacts to this Report.

Alternatives Reviewed

N/A

Relationship to Strategic Plan

- Vibrant and Prosperous Community
 - Livable Community
 - Community Wellbeing
- Sustainability
 - Sustainable Infrastructure
 - Environmental Sustainability

Other Pertinent Reports

N/A

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Appendices

N/A