



City of North Bay Report to Council

Report No: IO 2021-03

Date: March 23 2021

Originator: Karin Pratte

Business Unit

Department:

Infrastructure & Operations

Public Works & Services

Subject: 2020 North Bay Drinking Water System Annual Report, Summary Report and DWQMS Management Review

Closed Session: yes ☐ no ☒

Recommendation

That City Council accepts for information the attached 2020 Annual Report, Summary report, and DWQMS Management Review for the North Bay Drinking Water System

Background

In accordance with legislative requirements, attached is the Summary Report, Annual Report and Drinking Water Quality Management Standard (DWQMS) Management Review meeting minutes for the North Bay Drinking Water System for the year of 2020. It is required under Ontario Regulation 170/03 of the Safe Drinking Water Act that a Summary and Annual Report be prepared for each calendar year and provided to the Ministry of Environment and Climate Change as well as City Council.

ANNUAL REPORT:

Description of the Drinking Water System

The Annual Report starts with a description of the drinking water system. This includes the Water Treatment Plant and distribution facilities: (Ellendale Reservoir, CFB Reservoir,

Judge Valve Chamber, Birches Standpipe, Airport Standpipe, Canadore Pumping Station, Cedar Heights PS, Larocque Standpipe).

Description of Monetary Expenses Incurred

The Annual Report lists major repair and replacements to the drinking water system in 2020. This includes equipment installed or replaced at the water plant and facilities along with watermain repair and replacements in the distribution system.

List of all Adverse Water Quality Incidents

There was 1 adverse water quality incidents for the North Bay drinking water system in 2020. The incident was reported to the Ministry of the Environment and Medical Officer of Health as required and corrective actions were implemented immediately.

Microbiological Testing Summary

Weekly microbiological testing is required in the distribution system and facilities. Approximately 60-70 microbiological samples are taken monthly and testing for bacteria content (including e-coli). A summary of this testing is included in the Annual Report. All results listed meet the Ontario Drinking Water Quality Standards.

Operational Testing Summary

Operational testing of relevant parameters is completed by operational staff and on-line analyzers. There are three tables included in this section of the report which indicate the parameter being tested, the number of samples taken, the range of results (minimum and maximum values) and the regulatory requirement. All results listed meet the Ontario Drinking Water Quality Standards.

Inorganic, Organic, THM and Lead Testing Summary

Quarterly and annual sampling is required under the drinking water regulations. The charts on pages 10 through 17 list the results of this sampling. All results listed meet the Ontario Drinking Water Quality Standards.

SUMMARY REPORT:

The North Bay drinking water system summary report is also included for your information. This report is a summary of water quality information for the North Bay Water Treatment System. The report provides a description of the water treatment plant, lists the adverse water quality incidents and presents the record of water takings and treated water consumption for the North Bay Water Treatment Plant for the stated period (2020) and compares it to the 5 years prior. The 2020 treated water volume delivered into the distribution system is down by 4% from 2019.

DWQMS MANAGEMENT REVIEW:

The City of North Bay drinking water system has a quality management system which adheres to the Drinking Water Quality Management Standard (DWQMS) as required by Ontario Regulation 188. It is a requirement of the DWQMS that a management review meeting be held annually to evaluate the continuing suitability, adequacy and effectiveness of the City of North Bay's Quality Management System. Results of the management review must be provided to Council. Please find attached meeting minutes from the management review for 2020.

Financial/Legal Implications

It is required under the Ontario Regulation 170/03 of the Safe Drinking Water Act that a Summary and Annual Report be prepared for each calendar year and provided to the Owner of the System which is represented by North Bay City Council.

Corporate Strategic Plan

- | | |
|---------------------------------------------------------------------------|--------------------------------------------------|
| <input type="checkbox"/> Natural North and Near | <input type="checkbox"/> Economic Prosperity |
| <input type="checkbox"/> Affordable Balanced Growth | <input type="checkbox"/> Spirited Safe Community |
| <input checked="" type="checkbox"/> Responsible and Responsive Government | |

Specific Objectives

Ensure the efficient and effective operations of the city, with particular consideration to the

impact of decisions on the property tax rate.

Options/Analysis

1. That City Council accepts for information the attached 2020 Annual Report, Summary report, and DWQMS Management Review for the North Bay Drinking Water System
2. Do not accept for information. This is not recommended as it is a legislative requirement that this information be provided to Council.

Recommended Option

That City Council accepts for information the attached 2020 Annual Report, Summary report, and DWQMS Management Review for the North Bay Drinking Water System

Respectfully submitted,

Name: Karin Pratte, P.Eng.
Title: Senior Facilities & Environment Engineer

We concur with the above noted recommendation.

Name: Domenic Schiavone
Title: Director of Public Works

Name: David Euler, P.Eng., PMP
Title: Chief Administrative Officer

Personnel designated for continuance: Senior Facilities & Environment Engineer