



City of North Bay Report to Council

Report No: IO-2024-004

Date: April 4, 2024

Originator: Karin Pratte, P.Eng.

Business Unit:

Department:

Infrastructure and Operations

Engineering

Subject: North Bay Drinking Water System 2023 Reporting

Closed Session: yes no

Recommendation

That North Bay City Council accepts for information the attached 2023 Annual Report, Summary Reports, and DWQMS Management Review for the North Bay Drinking Water System.

Background

In accordance with legislative requirements, attached is the Annual Report, Summary Report, and Drinking Water Quality Management Standard (DWQMS) Management Review meeting minutes for the North Bay Drinking Water System for the year of 2023. It is required under Ontario Regulation 170/03 of the Safe Drinking Water Act that an Annual and Summary Report be prepared for each calendar year and provided to the Ministry of Environment, Conservation and Parks no later than February 28th of the following year. A copy of the report must be provided to 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 and Pumping Station, CFB Standpipe, Judge Valve Chamber, Birches Standpipe, Airport Standpipe and Pumping Station, Larocque Standpipe, Cedar Heights Pumping Station.

Description of Monetary Expenses Incurred

The Annual Report lists major repair and replacements to the drinking water system in 2023. 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 were 3 adverse water quality incidents for the North Bay drinking water system in 2023. All incidents were 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 80 microbiological samples are taken monthly and tested for bacteria content. All samples met 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 9 through 18 list the results of this sampling. All results listed meet the Ontario Drinking Water Quality Standards with the exception of one lead plumbing sample which is noted in the Adverse Water Quality Incidents.

Summary Report

The North Bay drinking water system summary report is also included for your information. 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 (2023) and compares it to the 12 years prior. The 2023 treated water volume delivered into the distribution system is up by 2% from 2022.

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 the owner of the drinking water system which is represented by the Mayor and Council. Please find attached meeting minutes from the management review held in 2023.

Financial/Legal Implications

It is required under the Safe Drinking Water Act that the Drinking Water Annual Report, Summary Report and DWQMS Management Review meeting minutes be provided to Council.

Corporate Strategic Plan

- Natural North and Near
- Affordable Balanced Growth
- Responsible and Responsive Government
- Economic Prosperity
- Spirited Safe Community

Specific Objectives

Maintain compliance with the Safe Drinking Water Act.

Options Analysis

Option 1: That North Bay City Council accepts for information the attached 2023 Annual Report, Summary Report, and DWQMS Management Review for the North Bay Drinking Water System.

Option 2: That North Bay City Council does not accept the information. This is not recommended as it is a legislative requirement that Council receive this information.

Recommended Option

That North Bay City Council accepts for information the attached 2023 Annual Report, Summary Reports, and DWQMS Management Review for the North Bay Drinking Water System.

Respectfully submitted,

Name: Karin Pratte, P.Eng.

Title: Senior Environment & Facilities Engineer

I concur with this report and recommendation

Name: Alan Korell, P.Eng.

Title: Interim City Engineer

Name: John Severino, P.Eng., MBA

Title: Chief Administrative Officer

Personnel designated for continuance:

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