



City of North Bay Report to Council

Report No: IO-2023-005

Date: February 28, 2023

Originator: Karin Pratte

Business Unit:

Department:

Infrastructure and Operations

Water Treatment Plant

Subject: North Bay Drinking Water System 2022 Reporting

Closed Session: yes ☐ no ☒

Recommendation

That North Bay City Council accepts for information the attached 2022 Annual Report, Summary Report, 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 2022. 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 for the following year. A copy of the report must also 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, Birch's Standpipe, Airport Standpipe and Pumping Station, Cedar Heights Pumping Station and Larocque Standpipe)

Description of Monetary Expenses Incurred

The Annual Report lists major repair and replacements to the drinking water system in 2022. 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 4 adverse water quality incidents for the North Bay drinking water system in 2022. All incidents were reported to the Ministry of the Environment and Medical officer of Health as required and corrective actions were implemented.

Microbiological Testing Summary

Weekly microbiological testing is required in the distribution system and facilities. Approximately 60-70 microbiological samples are taken monthly and tested for bacteria content. All samples met the Ontario Drinking Water Quality Standards.

Operational Testing

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 testing, the number of samples taken, the range of results (min and max values) and the regulatory requirement. All results listed meet the Ontario Drinking Water Quality Standards.

Inorganic, Organic, THM, Lead and PFAS Testing Summary

Quarterly and annual sampling is required under the drinking water regulations. The charts on pages 10-18 list the results of this sampling. All results listed meet the Ontario Drinking Water Quality Standards with the exception of one lead distribution sample and 3 lead plumbing samples which are 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 (January 1, 2022-December 31, 2022) and compares it to the 11 years prior. The 2022 treated water volume delivered into the distribution system is up by 8% from 2021.

DWMQS 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 the 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 held in 2022.

Financial/Legal Implications

It is required under the Safe Drinking Water Act that the Annual Report,

Summary Report and DWQMS Management Review meeting minutes be provided to 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

Maintain compliance with the Safe Drinking Water Act.

Options Analysis

Option 1: That North Bay City Council accepts for information the attached 2022 Annual Report, Summary Report and DWQMS Management Review for the North Bay Drinking Water System.

Option 2: That North Bay City Council 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 2022 Annual Report, Summary Report, 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 Domenic Schiavone

Title: Director Public Works and Parks

Personnel designated for continuance:

John Severino, P.Eng., MBA

Interim Chief Administrative Officer