

Municipality of Lakeshore – Report to Council

Operations

Water Management



To: Mayor & Members of Council

From: Albert Dionne, C.E.T. Division Leader – Water Management

Date: March 23, 2022

Subject: 2021 MECP Drinking Water Inspections

Recommendation

This report is for information only.

Background

Lakeshore has four (4) drinking water systems as follows:

1. Lakeshore Drinking Water System (DWS# 260091507) - The Lakeshore drinking water system delivers drinking water to the north-west part of the Municipality, generally bound by Lake St. Clair to the south to Highway 401 from County Road 19 (Manning Road) to Rochester Townline Road. Water is supplied from the Lakeshore Water Treatment plant on Lakeview Drive in Belle River. The water treatment plant and the water distribution system were inspected.
2. Tecumseh Distribution System (DWS# 260004982) - Under a service agreement between the Municipality of Lakeshore and the Town of Tecumseh, water is supplied to two small areas within the Municipality of Lakeshore both off County Road 19 (Manning Road). The first area is along Little Baseline Road for approximately 700 meters east from County Road 19 (Manning Road) while the second area is the rural area between County Road 42 and Highway 401 immediately west of County Road 19 (Manning Road) along Scott Sideroad and Walls Road. These service areas have a total equivalent population of approximately 200 people. The Tecumseh Water Supply System is supplied with water from the Windsor Water Supply System (under a service agreement between the Town of Tecumseh and the Windsor Utilities Commission).
3. Union Distribution System (DWS# 260004995) - The Union Distribution drinking water system delivers drinking water to the south-west part of the municipality, generally bound by Highway 401 from County Road 19 (Manning Road) to Rochester Townline Road. Water is supplied from the Union Water Supply System Water Treatment plant in Ruthven.

4. Stoney Point Drinking Water System (DWS# 220003396) - The Stoney Point Drinking Water System delivers drinking water to most of the eastern part of the municipality and is generally bound by Lake St. Clair to County Road 8 and from Rochester Townline to just west of Richardson Sideroad. Water is supplied from Lakeshore's Water Treatment plant on St. Clair Road in Stoney Point. The water treatment plant and the water distribution system were inspected.

The Ministry of Environment, Conservation and Parks (MECP) conducts inspections of the Municipality's water systems annually.

The Ministry of Environment, Conservation and Parks (MECP) 2021 Annual Drinking Water Inspections for the Municipality of Lakeshore's following systems have been provided for information:

1. Lakeshore Drinking Water System – Report dated December 10, 2021
2. Tecumseh Distribution System – Report dated July 7, 2021
3. Union Distribution System – Report dated September 21, 2021
4. Stoney Point Drinking Water System – Report dated February 10, 2022

Comments

This report confirms that Council (as the owner of the drinking water system) has been informed when an MECP inspection takes place and the results of the inspections and these reports are provided to Council in fulfilment of regulatory requirements under the Safe Drinking Water Act, 2002.

The results of the inspection for each system are summarized below:

1. Lakeshore Drinking Water System

An announced inspection of the Lakeshore Drinking Water System was carried out by the MECP on December 10, 2021. The inspection report gives an overall rating of 96.4% and is appended to this report.

There were (2) non-compliance/non-conformances reported during the inspection of Lakeshore's Drinking Water System. These are summarized below, including the resolution:

- 1) Documentation was not complete

Commissioning Forms for the two new watermain were reviewed. Documentation was not complete/included in the commissioning forms for pre-disinfection.

- CAUSE: this non-compliance was due to missing information on watermain commissioning forms to be compliant with the regulation.

- **EFFECT:** the watermain commissioning report form has since been updated to comply with the “Watermain Disinfection Procedure” for Ontario (adopted November 21, 2021) and training on the update has been provided. The training was completed on March 11, 2022, and record of the training was sent to the MECP inspector.

2) No disinfection of sampling equipment was conducted

On January 26, 2021, a sample of the filter media was physically collected from filter #3. As per Schedule B, section 2.3 of the Permit, disinfection should have been conducted in accordance with the Ministry's and AWWA's disinfection procedures.

- **CAUSE:** The MECP Inspector found that operators were not following AWWA procedure C653-20 for completing annual filter sampling for maintenance. Any object that encounters a piece of equipment that touches water within the water treatment plant must be disinfected prior to use. Due to the nature of our filters, staff have not used this disinfection procedure in the past for the filter because the chlorine residual could adversely impair the filter media, however it was determined that the equipment still required disinfection prior to sampling.
- **EFFECT:** C653-20 procedure has been implemented and signage has been developed to inform operators of their responsibilities to disinfect equipment prior to sampling as per ANSI/AWWA procedure C653- 20.

2. Tecumseh Distribution System

An announced inspection of the Tecumseh Distribution System was carried out by the MECP on July 7, 2021. The inspection report gives an overall inspection rating of 100% and is appended to this report.

There are no items noted under **Non-Compliance/Non-Conformance Items**.

3. Union Distribution System

An announced inspection of the Union Distribution System was carried out by the MECP on September 21, 2021. The inspection report gives an overall inspection rating of 100% and is appended to this report.

There are no items noted under **Non-Compliance/Non-Conformance Items**.

4. Stoney Point Drinking Water System

An announced inspection of the Stoney Point Drinking Water System was carried out by the MECP on February 10, 2022. The inspection report gives an overall inspection rating of 100% and is appended to this report.

There are no items noted under **Non-Compliance/Non-Conformance Items**.

All reports have been appended herein in their entirety.

Financial Impacts

There are no financial impacts based on the findings of the inspection reports.

Attachments

- Lakeshore Drinking Water System – Report dated December 10, 2021
- Lakeshore DWS – 2021 – 22 - IRR
- Tecumseh Distribution System – Report dated July 7, 2021
- Tecumseh DWS – 2021 – 22 - IRR
- Union Distribution System – Report dated September 21, 2021
- Union DWS – 2021 – 22 - IRR
- Stoney Point Drinking Water System – Report dated February 10, 2022
- Stoney Point DWS – 2021 – 22 - IRR

Report Approval Details

Document Title:	2021-2022 MECP Drinking Water Inspections.docx
Attachments:	<ul style="list-style-type: none">- Lakeshore (Tecumseh DS) - 2021-22 Inspection Report - EA.pdf- Lakeshore (Tecumseh DS) IRR - 2021-22.pdf- Lakeshore (Union) DS - 2021-22 Inspection Report-EAs.pdf- Lakeshore DWS - 2021-22 Inspection Report - EAs.pdf- Lakeshore DWS - 2021-22- IRR.pdf- Stoney Pt. WTP - 2021-22-Inspection Report.pdf- Stoney Pt. WTP - 2021-22-IRR.pdf- Lakeshore (Union) IRR-2021-22.pdf
Final Approval Date:	Apr 21, 2022

This report and all of its attachments were approved and signed as outlined below:

Prepared by Albert Dionne

Submitted by Krystal Kalbol

Approved by Justin Rousseau and Truper McBride