

Municipality of Lakeshore – Report to Council

Operations

Engineering Services



To: Mayor & Members of Council

From: Krystal Kalbol, P.Eng., Corporate Leader - Operations

Date: November 15, 2023

Subject: Water Wastewater Master Plan Update Discussion & Public Information Centre #2

Recommendation

This report is for information only.

Background

At the end of 2019, the average flows indicated that the Denis St. Pierre Water Pollution Control Plant was operating at 92% of its rated capacity.

Based on the continued growth across the Municipality and the continued increase in flows at the Plant, Council approved a total budget of \$2,200,000 in 2020 to complete the Design of the Denis St. Pierre Water Pollution Control Plant Expansion and Outfall.

A further review of the plant flow at the end of 2020 identified significantly higher flows than in 2019. 2020 saw a total increase to the plant's average flow by approximately 13%, at the time operating, on average, at 105% of its rated capacity.

At the September 14, 2021 Council meeting, Council awarded the expansion of the Denis St. Pierre Water Pollution Control Plant.

In 2021, Council also supported an update to the sanitary sewer model and the final results were completed in early 2022. At this time, it was identified that a number of the sanitary sewers within the Denis St. Pierre servicing area were experiencing significant conveyance constraints.

Further, at the September 22, 2022 Council Meeting, a report for information was received identifying that both the Stoney Point and Comber Sanitary Treatment Facilities (Lagoons) had already exceeded (Stoney Point) or were reaching their rated capacity (Comber).

Based on the above, it was identified that the existing 2018 Water Wastewater Master Plan should undergo an update to address the existing challenges and to support future growth. This was tendered in September 2022.

At the Regular Meeting of Council on November 29, 2022 the following resolution was passed:

381-11-2022

Award the Professional Services for the Water and Wastewater Master Plan Update to Jacobs Consultancy Canada Inc. for a total of \$278,950.00 including applicable HST, as presented at the November 29, 2022 Council meeting.

The project commenced at that time and the first Public Information Centre (PIC) #1 was held on June 28, 2023.

Comments

The purpose and objective of Lakeshore's Water and Wastewater Master Plan (WWMP) Update was presented at PIC #1, as shown below:

- Confirm the current demands on the water and wastewater systems, re-evaluate growth and identify the future needs related to water and wastewater services within the Municipality of Lakeshore; and
- Guide the planning and implementation of strategic water and wastewater infrastructure improvements for the next 20 years (to 2042).

PIC #1 also presented existing constraints and demands on both the water and wastewater systems within Lakeshore as well as confirmed the below key considerations:

- There are capacity constraints identified at multiple wastewater treatment facilities, in particular Stoney Point and Comber.
- There are numerous sanitary conveyance system constraints identified in the Denis St. Pierre sewershed.
- Conveyance system and treatment capacity are impacted by high levels of inflow and infiltration within the sanitary system.
- Intensification trends of residential areas result in increased wastewater flow and drinking water demand greater than the infrastructure was originally designed to service (apartment buildings, multi-unit residential, buildings, and Additional Residential Units [ARUs]).
- Provincial policy and direction emphasizes redevelopment of additional housing opportunities, including intensification, and in particular ARUs.
- Growth has been realized more quickly than projected in the 2018 Master Plan, impacting the ability to proactively finance and fund recommendations put forward in the 2018 Master Plan.

- There is interest in developing areas that currently do not have Municipal wastewater servicing.
- Accommodation of current development proposals.
- Ability to accommodate the expected growth of Lakeshore.

Preliminary Population Growth projections were presented at PIC #1, and PIC #2 will show the updated population projections into the 2042 Planning Horizon.

PIC #2 has been scheduled for November 22, 2023. This PIC will outline the Problem and Opportunity Statement related to the Master Plan and identify various treatment and conveyance solutions related to the wastewater systems.

The PIC #2 information is being presented here tonight along with an overview of the Master Planning Process, where we currently are in the process, and next steps.

This will also allow Council to ask questions and also an opportunity to provide comments and input into the process.

Others Consulted

Jacobs was consulted.

Financial Impacts

There are no financial impacts related to this report.

Attachments

Water Wastewater Master Plan Update Presentation and PIC #2 Information Boards

Report Approval Details

Document Title:	Water Wastewater Master Plan Update Discussion and Public Information Centre 2 .docx
Attachments:	- Water Wastewater Master Plan Update Presentation.pdf
Final Approval Date:	Nov 16, 2023

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

Prepared by Krystal Kalbol

Approved by Justin Rousseau and Truper McBride