



Staff Report

Operations – Water & Wastewater Services

Report To: COW-Operations, Planning and Development Services
Meeting Date: January 10, 2023
Report Number: CSOPS.23.001
Title: Craigleith Wastewater Treatment Plant Sewage Pumping Station
Class EA PIC 2
Prepared by: Allison Kershaw, Manager of Water & Wastewater Services

A. Recommendations

THAT Council receive Staff Report CSOPS.23.001, entitled “Craigleith Wastewater Treatment Plant Sewage Pumping Station Class EA PIC 2”;

AND THAT Council direct staff to proceed with holding a virtual Public Information Centre on Thursday January 26, 2023.

B. Overview

This Staff Report provides Council with the materials and information that will be presented at the second Public Information Centre (PIC) for the Craigleith Wastewater Treatment Plant (CWWTP) Sewage Pumping Station Class EA PIC 2.

C. Background

In 2014, the Town constructed a gravity sewer along Grey Road 21 from slightly north of Grey Road 19 to Highway 26. Instead of crossing Highway 26 and continuing down Long Point Road to the CWWTP, a jumper sewer was installed from Grey Road 21 to Timmons Street. This jumper sewer allowed for the Windfall Development to move ahead quickly, however, when the capacity of the jumper reaches 80%, the Town is required to install the sewers to the CWWTP. Staff undertook an assessment of the Timmons Jumper in 2021, during wet weather events and it is estimated that less than 20% of the capacity is currently needed, however the Timmons Jumper will limit the amount of development that can proceed within this sewer catchment area. This area is seeing rapid growth. Additionally, the Timmons Jumper will not be able to provide the required conveyance when Castle Glen Developments comes online. Moving ahead with this study will ensure the collection system for this area is development ready. Additionally, the installation of the lift station at the CWWTP will remove some stress off the Craigleith Main Lift Station. The installation of the gravity sewer is considered a Schedule A+ Project under the Municipal Class Environmental Assessment (MCEA) and can proceed.

The gravity sewer will terminate at the CWWTP. Currently all flows entering the CWWTP are via a forcemain, and do not require a lift to get into the treatment train. When the gravity sewer is constructed, the flows will need to be lifted, to enter the treatment plant. The construction of a lift station is a Schedule B Project under the MCEA. Additionally, Staff are considering relocating the Septage Receiving Station from the Craigleith Main Sewage Pumping Station (SPS) to the CWWTP. This is also a Schedule B Project.

The purpose of this project is to evaluate options and select the best alternative to facilitate the gravity sewer on Long Point Road, as well as the Septage Receiving Station. The scoping of this project includes consideration for the immediate, long-term, and build-out needs of the sewer shed.

On a related note, the settlement area of Castle Glen completed a privately led MCEA in 2011. The MCEA was completed by Tatham Engineering Ltd. representing the Castle Glen Development Corporation (CGDC) in hopes of developing the Castle Glen site and to define the preferred means of water and wastewater servicing to the development.

The proposed development of Castle Glen did not come into fruition and the 2011 MCEA has been inactive and has since expired (a Class EA expires after 10 years).

Tatham Engineering, on behalf of the private owner in Castle Glen has recently initiated an update to their 2011 MCEA to reevaluate the preferred means of water to the proposed development. The updated MCEA will be completed privately, however, consideration for the future servicing from this area has also been considered by this MCEA.

The presentation slide deck for PIC 2 (Attachment 1) and the Notice of Public Information Centre (Attachment 2) have been attached to this Staff Report. Town staff are eager to proceed with the Virtual PIC on Thursday January 26, 2023, at 5:00 p.m. to 7:00 p.m.

D. Analysis

Public consultation is an integral part of the MCEA process. In lieu of a regular drop-in PIC, the public will be encouraged to view a live-stream presentation of the project. A recording of the presentation will be made available on the project page of the town's website following the PIC.

Residents will be encouraged to attend the live-stream session, send questions in advance and/or ask questions live. The questions will be moderated and responded to either during the live-stream or following the PIC.

The comments received during the virtual PIC will be recorded and considered as part of the overall project. These will become part of the public record as with other comments received during public consultations.

The main objective of Phase 2 of a Class EA is to identify and evaluate possible alternative solutions to the problem(s) and/or opportunities identified in Phase 1. During Phase 1, the problems and opportunities identified considered that the existing lift station was not intended

to convey Grey 21 sanitary flow permanently, the Timmons Jumped to a quick fix to get the Windfall Development underway in an expedited manner. Also identified as a problem was the pressure from growth, and additional capacity from both Grey 21 and other contributors to the Craigleith SPS. Operational challenges considering the proximity of the neighbour and development to the existing pumping station. The separation distances do not lend themselves to an expansion of the pumping station. Reasonable potential solutions to the problem(s), including the 'do nothing' alternative, are considered. Based on this initial screening, four (4) alternatives for the pumping station will be carried to detailed evaluation:

- Alternative A – Do Nothing
- Alternative B – Upgrade Craigleith SPS
- Alternative C – New Sewage Pumping Station at the Plant Site
- Alternative D – New Sewage Pumping Station between Highway 26 and Plant Site.

Alternative A - Do Nothing

Under this alternative, maintaining the existing sanitary sewer from Grey Road 21 to the Craigleith SPS, with full capacity of 45.5 L/s. The Craigleith SPS would be upgraded as currently planned based on the optimization study. Does not address the identified problems and limits growth.

Alternative B - Upgrade Craigleith SPS

Under this alternative, the existing 1.3km of sanitary sewer from Grey Road 21 to Timmons Street along Highway 26 would need to be replaced with a larger diameter sewer, the Craigleith SPS would require an upgrade to for the ultimate capacity of all upstream areas and a third forcemain from the pumping station to the plant would be required.

Alternative C - New Trunk Sewer and Pumping Station at CWWTP

Under this alternative, the gravity sewer would be extended from Highway 26, north to the CWWTP, a pumping station would be constructed at the CWWTP, and new forcemain to connect the pumping station to the existing headworks at the CWWTP.

Alternative D - New Trunk Sewer and Pumping Station Between Highway 26 and CWWTP

Under this alternative, the gravity sewer would be extended from Highway 26, with a new sanitary pumping station constructed on land to be acquired along Long Point Road. A new forcemain would be required from the new pumping station to the CWWTP.

Septage Receiving Station

Two Alternatives for the Septage Receiving Station were carried to detailed evaluation:

- Alternative A – Maintaining the septage receiving station at the Craigleith SPS.

- Alternative B – Moving Septage Receiving to the CWWTP.

Alternative A – Maintaining the Septage Receiving Station at the Craigleith SPS

Under this alternative, the septage receiving station will remain at the Craigleith SPS. This will not address the existing challenges with traffic, odours, and safety concerns.

Alternative B – Moving Septage Receiving Station to the CWWTP

Under this alternative, the station will be moved to the CWWTP. This will improve traffic and safety concerns. There will be opportunities to address noise and odour concerns with improved buffers, traffic management and enclosed environment for discharge.

Preferred Alternative Solution

Alternative C, Extend the Sanitary Along Long Point Road and Construct New Pumping Station at the CWWTP; and,

Alternative B, Moving Septage Receiving Station to CWWTP

These alternatives allow for the pumping station to be built at the CWWTP with an integrated septage receiving station. The gravity sewer will allow for residents, as well as new developments, in the vicinity of the plant to be serviced. Emergency back-up power for the station can be combined in a cost-effective manner with the proposed generator upgrade for the CWWTP.

Public consultation is an integral part of the Class EA process and provides a number of ways the public may be involved in the project. The main objective of PIC 2 is to provide an update on the project to date and to seek feedback from the public and stakeholders on the assessment of alternatives and the selection of the preliminary preferred alternative identified by Town Staff.

Following PIC 2, Town Staff will bring forward a Staff Report with the results and public feedback and how the comments have been addressed by Town Staff.

Furthermore, Town Staff will be seeking direction from Council on the final selection of the preferred alternative identified by Town Staff and seeking approval to issue the Notice of Completion for the EA.

E. Strategic Priorities

1. Communication and Engagement

We will enhance communications and engagement between Town Staff, Town residents and stakeholders

2. Organizational Excellence

We will continually seek out ways to improve the internal organization of Town Staff and the management of Town assets.

3. Community

We will protect and enhance the community feel and the character of the Town, while ensuring the responsible use of resources and restoration of nature.

4. Quality of Life

We will foster a high quality of life for full-time and part-time residents of all ages and stages, while welcoming visitors.

F. Environmental Impacts

Significant alterations to municipal infrastructure require a Class Environmental Assessment. The Class Environmental Assessment takes into consideration the impacts and the solutions on the natural and cultural environment. The level of impacts in each option are weighed against other impacts such as cost. Options for mitigating natural and cultural impacts (such as historic significance) are also put forth.

G. Financial Impacts

This EA was approved in the amount of \$385,000 to be fully funded from Wastewater Development Charges.

H. In Consultation With

Sam Dinsmore, Deputy Treasurer/Manager of Budgets & Accounting

Jason Petznick, Communications Coordinator

Mark Service, Wastewater Supervisor

I. Public Engagement

The topic of this Staff Report has been the subject of a Public Meeting and/or a Public Information Centre in accordance with the following schedule:

- April 7 & April 21, 2022, Notice of Study Commencement and Notice of PIC 1 advertised in Collingwood Connection.
- April 14, 2022, Notice of Study of Commencement and Notice of PIC 1 mailed to Stakeholders.
- April 12, 2022, Committee of the Whole – Initial staff report CSOPS.22.033 with recommendation to proceed to public consultation.

- April 25, 2022, Council – Recommendations from April 12, 2022, Committee of the Whole confirmed.
- April 28, 2022, Virtual PIC 1 to be held.
- June 21, 2022, Committee of the Whole – Follow-up report to the PIC 1, attaching comments received in response to the PIC 1.
- January 5, 2023, Notice of PIC 2 mailed to Stakeholders.
- January 5 & January 19, 2023, Notice of PIC 2 advertised in Collingwood Connection.
- January 10, 2023, Committee of the Whole – CSOPS.23.001 Craigleith Wastewater Treatment Plant Sewage Pumping Station Class EA PIC 2 report to proceed to public consultation.
- January 23, 2023, Council – Recommendations from January 10, 2023, Committee of the Whole confirmed.
- January 26, 2023, Virtual PIC 2 to be held.
- March 14, 2023, Committee of the Whole – Follow-up report to the Public Meeting

Any comments regarding this report should be submitted to Allison Kershaw, Manager of Water & Wastewater Services managerwww@thebluemountains.ca .

J. Attached

1. Public Information Centre 2 Presentation
2. Public Information Centre 2 Notice

Respectfully submitted,

Allison Kershaw,
Manager of Water & Wastewater Services

Shawn Carey
Director Operations

For more information, please contact:
Allison Kershaw, Manager of Water & Wastewater Services
managerwww@thebluemountains.ca
519-599-3131 extension 226

Report Approval Details

Document Title:	CSOPS.23.001 Craigleith WWTP Sewage Pumping Station Class EA PIC 2.docx
Attachments:	- CSOPS.23.001 Attachment 1 PIC Presentation.pdf - CSOPS.23.001 Attachment 2 PIC Notice.pdf
Final Approval Date:	Dec 19, 2022

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

Allison Kershaw - Dec 15, 2022 - 4:55 PM

Shawn Carey - Dec 19, 2022 - 4:37 PM