



Staff Report

Operations – Water & Wastewater Services

Report To: Committee of the Whole Meeting
Meeting Date: June 21, 2022
Report Number: CSOPS.22.055
Title: Craigleith WWTP Sewage Pumping Station Class EA PIC 1 Follow-up
Prepared by: Allison Kershaw, Manager of Water & Wastewater Services

A. Recommendations

THAT Council receive Staff Report CSOPS.22.055, entitled “Craigleith WWTP Sewage Pumping Station Class EA PIC 1 Follow-up for their information”.

B. Overview

The purpose of this Staff Report is to provide Council with a summary of the comments and feedback that was received through the Craigleith WWTP Sewage Pumping Station Class EA Virtual Public Information Centre (PIC) 1 held on April 28, 2022.

C. Background

The Town of The Blue Mountains has initiated a Municipal Class Environmental Assessment to evaluate and select the preferred solution to address the need for the extension of a gravity sewer and associated sewage lift station at the Town’s Craigleith Wastewater Treatment Plant (CWWTP). Additionally, an assessment will be complete to determine if the septage and leachate receiving station should be relocated to the CWWTP. The proposed work will include the following:

- Extending the sewage collection system from the existing gravity sewer on the southern boundary of the intersection of Grey Road 21 and Highway 26 north within the Long Point Road allowance to the CWWTP.
- Development of solutions for a new lift station to raise the wastewater from the new sanitary sewer into the treatment plant.
- Developing solutions for the relocation of the septage and leachate receiving station from its current location on Lakeshore Road to the CWWTP site.
- Design of all facilities to accommodate imminent near-term and build out needs.

The gravity sewer along Long Point Road is considered a Schedule “A” project and may proceed; however, the pumping station and septage receiving station at the CWWTP on Long Point Road will be considered a Schedule “B” project.

The proposed solutions will be evaluated considering natural, cultural, technical, economic and environment. The preferred solution will be selected in consultation with regulatory agencies and the public.

D. Analysis

At the CWWTP Sewage Pumping Station Class EA Virtual PIC 1 held on April 28 2022, residents brought forward with a number of questions, inquiries and concerns including;

1. Extension of sanitary services

Multiple residents asked about the possibility of sanitary sewer servicing on unserved streets in the area around the CWWTP.

Town Response – This project is not intended to directly result in extensions of sanitary servicing, but it may permit the future extension of services and that the standard approach is to coordinate with the Town and your neighbours to proceed to request a sewer extension for Council that would then be paid by the residents benefiting provided it meets the affordability criteria.

2. Potential for inclusion of failsafe measures to prevent sewage backups

A resident inquired about the inclusion of failsafe measures being included in the design of the new pumping station.

Town Response – The Town understands the issues with the current lift station, and this seems like an excellent opportunity to build a facility that will work much better. The new lift station will be designed with future growth and the impacts of climate change incorporated.

3. Likelihood of increased odours caused by the proposed project

A resident asked how the Town will ensure that the current odour issues at the Craigleith Main Lift Station will not become an issue at the CWWTP.

Town Response – The area surrounding the existing Craigleith Main Lift Station is periodically exposed to increased odour levels during septage and leachate receiving as the unloading zone is not in an enclosed facility. If the facility is moved to the CWWTP, the unloading zone could be moved to an enclosed location to minimize the amount of odour that could travel to the surrounding area. An enclosed facility would also allow for more odour-control measures to be put in place.

4. Is it possible to redirect the flow from the sanitary sewer that goes through the Timmons Easement to the sanitary sewer on Grey Road 21 and abandon the Timmons easement sewer?

Town Response – Staff have considered this option, however the elevation of the sewer pipe invert at the southern end of the Timmons easement is too low (182.2 meters) in comparison

to the pipe invert of the sanitary sewer on Grey Road 21 (184 meters). If the gravity sewers were redirected, an additional lift station would be required somewhere between the Timmons easement and Grey Road 21 to lift the flow up to get into Grey Road 21 sewer. Additionally, the sanitary sewer on Grey Road 21 is not sized to handle the volume of the flow that would be directed towards it. The Timmons easement sewer is 675mm in diameter. The Grey Road 21 sewer is 525mm, and it drops down to 300mm pipe.

When the collection system was first established for the Craigleith sewer shed, the location of the Craigleith Main Lift Station was determined to allow the greatest number of connections, utilizing only one pumping station. The sewer was located in the Timmons easement because it was the shortest way to get the sewage to the lift station, then onwards to the plant.

A second PIC will be held to present the assessment and evaluation of the alternative solutions to the public to elicit comments and feedback.

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

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 Public Information Centre which took place on **April 28, 2022**. Those who provided comments at the Public Meeting and/or Public Information Centre, including anyone who has asked to receive notice regarding this matter, has been provided notice of this Staff Report.

- 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 Public Meeting, attaching comments received in response 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. CWWTP Sewage Pumping Station Class EA PIC 1 Follow-up Questions and Concerns

Respectfully submitted,

Allison Kershaw,
Manager of Water & Wastewater Services

Shawn Carey
Director Operations

For more information, please contact:
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Report Approval Details

Document Title:	CSOPS.22.055 Craigleith WWTP Sewage Pumping Station Class EA PIC 1 Follow-up.docx
Attachments:	- CSOPS.22.055 Attachment 1.pdf
Final Approval Date:	May 20, 2022

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

Allison Kershaw - May 20, 2022 - 9:29 AM

Shawn Carey - May 20, 2022 - 9:40 AM



Town of The Blue Mountains

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Re: Craigeith Wastewater Treatment Plant Sewage Pumping Station EA - Public Information Centre #1

This memo is intended to provide a summary of the questions, comments and answers that were received prior to, or asked during, the PIC held on April 28, 2022. The PIC was held virtually on Microsoft Teams from 5:00 p.m. to 7:00 p.m. A total of 24 individuals attended the meeting.

Included below is a summary of the primary concerns heard in the lead up to and throughout the PIC, as well as a detailed breakdown of the specific questions and comments.

- 1. Possibility of sanitary sewer servicing on un-serviced streets in the area around the Craigeith Wastewater Treatment Plant**
- 2. Potential for inclusion of failsafe measures to prevent sewage backups**
- 3. Likelihood of increased odours caused by proposed projects**
- 4. Possibility of redirecting the flow from the sanitary sewer that goes through the Timmons Easement to the sanitary sewer on Grey Road 21 and abandon the Timmons easement sewer**

Comments Received Prior to the Public Information Centre

Karen Sweeney
April 5, 2022

Need to know if sewers are planned for BROPHYS.

Thank you for your interest in the Environmental Assessment. The lift station at the Craigeith Wastewater Treatment Plant is necessary infrastructure required to service Craigeith area however, this project will not provide servicing to Brophy's Lane.

Robert Newman
April 5, 2022

Looking forward to hearing the proposal and possibly raising a question or two of my own. One regarding leachate and it's removal from the Lakeshore site. The other regarding a "failsafe" system at the lift stations to prevent sewage backup.

The Town is looking at the options to build a sewage lift station at or in the vicinity of the Craigeith WWTP. A new lift station will take some of the pressure off the Craigeith Main Lift Station on Lakeshore Road. The Town is looking for an opportunity to relocate the septage receiving station at the same time. We understand the issues with the current lift station, and this seems like an excellent opportunity to build a facility that will work more effectively. The new lift station will be designed with future growth and the impacts of climate change incorporated.

Jeffrey Brydges
April 18, 2022

Why has the Castle Glen Service Area been included and identified on the Study Area map, but not included in the description of the catchment area for the proposed sanitary sewer collection system, sewage lift station, and pumping infrastructure works?

I understand from the Nov 22 2021 town-wide water distribution system PIC that the Castle Glen Service Area was not identified on the Study Area Key Plan map.

What flows or equivalent units from the Castle Glen Service Area are included in the calculations for the sizing of the capacities of the pipes, pumps, and works?

If capacities for the Castle Glen Service Area are not included, then how is the Service Area to be serviced with both municipal water and sanitary sewer services?

We have included the anticipated flows coming from Castle Glen area in the Long Point Road Environmental Assessment (EA). Additionally, Castle Glen is included in the Water Storage and Supply EA as well. The Developer for Castle Glen is undertaking their own EA for water servicing, as their plans have differed from the original EA from 2006.

The Long Point Road EA is focused on considerations for a lift station that is adequately sized for the full build out of the sewer shed, including Castle Glen, installation a gravity sewer from Highway 26 north to the WWTP on Long Point Road and relocating the septic receiving station. We will not be considering the installation of the required sewers on Grey 19 to Castle Glen Estates. That is beyond the scope of this work. The 2006 EA did include the preferred option for sanitary servicing.

To the best of my knowledge, the anticipated build out of the Castle Glen area will be 2000 homes.

Cheryl Power
April 19, 2022

Thank you for the confirmation. I have a quick question. Does this project mean in anyway that the area homes will eventually be moving from septic to sewer? (We own a home on Timmons)

The goal of this project is not to provide sanitary services to the Timmons area. The Timmons area will eventually be serviced through a local improvement project, however that is not currently in the 5-year plan.

Is there an opportunity to service properties on Timmons Street as part of this project? Will there be any development planned as a result of the project south of Timmons Street towards County Road 21.

This project is not intended to directly result in the extension of sanitary services. Property Owners in favour of a service extension project for the street may approach Council. Council can direct staff to pursue a project provided it meets the Towns affordability criteria. Benefitting residents would share the cost of the project. Residents may contact the Town's Planning & Development Department directly or view the [Planning & Development Projects webpage](#) for

current development projects. The Consultant is unaware of any developments proposed in this area as it is a regulated area.

Mike Spitzer

Indicated that he lives along the bay, and either was impacted by the sewer back-up around the Craigleith Sewage Pumping Station or was aware of it. He thought this project was a result of that back-up. He wanted to know if servicing was going to be extended along the waterfront as part of this project. He expressed some frustration that this was not completed when water was extended.

This project was not a result of the sewer back-up. This project is being undertaken to address growth and system efficiency. This project is not intended to directly result in the extension of sanitary services. Property Owners in favour of a service extension project for the street may approach Council. Council can direct staff to pursue a project provided it meets the Towns affordability criteria. Benefitting residents would share the cost of the project. This project is the prerequisite work to allow for any future extension and the Consultant is unaware of the conditions related to the water extension, but that water servicing was prioritized after Walkerton in some areas and without the Long Point Sanitary Sewer there may have not be an efficient way to service those properties.

James Ross

Timmons Street

Concerned that this project included providing communal sewers to Timmons Street. Resident indicated that he didn't want to see that happen.

This project is not intended to directly result in the extension of sanitary services. Property Owners in favour of a service extension project for the street may approach Council. Council can direct staff to pursue a project provided it meets the Towns affordability criteria. Benefitting residents would share the cost of the project.

Paul Fox

Wondering about sewers on Brophy's Lane. His septic has failed and he is in the process of replacing it.

This project is not intended to directly result in the extension of sanitary services. Property Owners in favour of a service extension project for the street may approach Council. Council can direct staff to pursue a project provided it meets the Towns affordability criteria. Benefitting residents would share the cost of the project.

Joe Luca

Is the Wastewater Treatment Plant being expanded, and will the Town be providing sewers on Brophy's Lane?

This project is not intended to directly result in extensions of sanitary servicing, but it may permit the future extension of services and that the standard approach is to coordinate with the Town and your neighbours to proceed to request a sewer extension from Council that would then be paid by the residents benefiting provided that it meets the affordability criteria. The rated capacity of the plant will not change from the current value. The actual plant size will not change,

however adding a lift station to the plant will allow for sewage to flow by gravity to the plant, then be lifted into the process.

Comments Received During the Public Information Centre

Robert Newman

When the wastewater gets to the new lift station. What are the plans if there is a failure. What safeguards are there to prevent sewage backup in the line?

Pumping stations are designed with multiple redundancies in place including backup generators and multiple pumps to prevent backups. Sewers are also designed to allow for a buffer period for Town staff to respond in the event of a system failure.

Follow up: Is there a way to make this fail safe?

A level of design redundancy is maintained in terms of number of pumps and additional station capacity in accordance with Ministry of Environment guidelines.

Blair McDonnell

How can you ensure that the current odour problems will not become an issue at the WWTP?

The area surrounding the existing Craigleith Lift Station is periodically exposed to increased odour levels during septage receiving as the unloading zone is not in an enclosed facility. If the facility is moved to the Craigleith Wastewater Treatment Plant, the unloading zone could be moved to an enclosed location to minimize the amount of odour that could travel to the surrounding area. An enclosed facility would also allow for more odour-control measures to be put in place.

Alex Cumming

How long a process is this? How long before there would be a pipe in the ground to the proposed Castle Glen expansion and it would be hooked to the treatment plan?

This assessment is anticipated to be completed by the end of 2022. Upon completion, the Town could begin construction once budget is approved, and engineering design is completed. Installing sewer pipe to Castle Glen would have to go through a separate process of approvals and design.

Robert Newman

Am I to understand that the new site for leachate disposal will be changed from Craigleith Lift Station? Or you're not there yet?

If the preferred alternative is to relocate the station to the Craigleith Wastewater Treatment Plant, then the leachate would be trucked to that location and unloaded in the new facility there.

Follow up: Waste treatment plants have aerators, don't they?

Yes, wastewater treatment plants do have aeration facilities.

Alex Cumming

Is there a link to the 2006 EA for the Castle Glen pipe?

No, the 2006 EA document is not available on the Town's website, however it can be provided to you. This document was provided to the resident.

Comments Received Following the Public Information Centre

George Powell

April 30, 2022

I question how you propose to handle wastewater from Castle Glen. What you mentioned at the meeting was pumping as part of the inflow. The flow from this development is large and could be handled by gravity. The cost of pumping forever is a significant cost. I believe this is an alternative solution and would make the sewer on Long Point Road a Schedule B MCEA.

The sanitary sewers from Castle Glen are anticipated to be gravity. The connection to existing sewers will be along Grey 21, just north of Grey Road 19, by Tees Please. The sewer on Grey 21 is all gravity, however, it currently takes a sharp left at Hwy 26 and goes to the Craigleith Main Lift Station. All flows to the Craigleith Wastewater Treatment Plant currently go through the Craigleith Main lift station, on Old Lakeshore Road, by Fraser Cres. The Long Point EA is to evaluate the options for three projects:

1. Installation of the gravity sewer north on Long Point Road to the plant - Schedule A
2. Relocate the septic receiving from the Craigleith Main lift station to the plant - Schedule A
3. Installation of the pump station, at or close to the plant - Schedule B

The reason the pumping station is required is to get the gravity flow up and into the plant. Currently the plant is only fed by a forcemain from the Craigleith Main Lift Station. We have no ability to lift up and into the plant right now.