



Niagara  Region

REGIONAL MUNICIPALITY OF NIAGARA
SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

V4.5 – PIC Summary Reports

V4.5.1

REGIONAL MUNICIPALITY OF NIAGARA
SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

PIC Summary Reports

Public Information Centre No. 1 – May 28, 2019

Prepared By:



Regional Municipality of Niagara

South Niagara Falls Wastewater Solutions
Schedule C Class EA
PIC No.1 Summary Report

GMBP File: 718002

June 2019

Niagara  Region

TABLE OF CONTENTS

1.	BACKGROUND AND INTRODUCTION	1
1.1	Class EA Context	2
2.	PUBLIC INFORMATION CENTRE NO. 1.....	4
2.1	Purpose.....	4
2.2	Notifications.....	4
2.2.1	Newspaper Advertisements.....	4
2.2.2	Online Advertisements.....	4
2.2.3	Mail Out	5
2.3	Date, Time, and Location	7
2.4	Council Drop-in Session.....	7
2.5	PIC No. 1 Materials	7
2.5.1	Display Boards	7
2.5.2	Frequently Asked Questions.....	8
2.5.3	Information Brochure	8
2.6	PIC No. 1 Attendance.....	8
2.7	PIC No. 1 Facebook Live Event	8
2.8	PIC No. 1 Comments	9
3.	NEXT STEPS	11

APPENDICES

APPENDIX A: NOTICE OF PUBLIC INFORMATION CENTRE NO. 1

APPENDIX B: PUBLIC INFORMATION CENTRE NO. 1 DISPLAY BOARDS

APPENDIX C: HANDOUT MATERIAL

APPENDIX D: SIGN-IN SHEET

APPENDIX E: COMMENTS RECEIVED

**SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS
SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT
PIC NO.1 SUMMARY REPORT**

REGIONAL MUNICIPALITY OF NIAGARA

MAY 2019

GMBP FILE: 718002

1. Background and Introduction

GM BluePlan Limited has been retained by the Regional Municipality of Niagara to undertake a Schedule C Class Environmental Assessment (Class EA) entitled South Niagara Falls Wastewater Solutions. This study will develop and implement a wastewater servicing strategy and conceptual design for a new wastewater treatment plant (WWTP) and associated collection and conveyance facilities in south Niagara Falls.

The study is being undertaken as a Schedule ‘C’ project in accordance with the requirements of the Municipal Class Environmental Assessment process, prepared by the Municipal Engineers Association (MEA) (October 2000, as amended in 2007, 2011 and 2015).

The objective of the South Niagara Falls Wastewater Solutions Class EA is to determine:

- Where to locate the new wastewater treatment plant in South Niagara Falls;
- Which body of water will receive the clean, treated water from the new plant; and,
- How best to integrate the wastewater network to address growth, make the system as efficient as possible, and manage wet weather.

The study area covers the southern area of Niagara Falls, specifically south of Lundy’s Lane. This area was considered ideal to address projected growth based on the Niagara 2041 planning exercise and could include sanitary flows being directed from Thorold South and areas north of Lundy’s Lane. This area encompasses various watercourses and waterbodies, including the Welland River, Hydro Electric Power Canal (Ontario Power Generation operations), Chippawa Creek, and Niagara River. The study area primarily covers industrial and commercial land use with moderate open space land designations.

A key part of the public consultation component is a Public Information Centre (PIC), which serves as a forum for information exchange between the public, stakeholders and the project team.

The PIC No. 1 Summary Report represents one element of the overall Class EA documentation. The report documents the following:

- Information presented at PIC No. 1;
- Summary of attendance; and,
- Summarized table of comments received, and responses provided in order to track correspondence in a transparent and traceable manner.

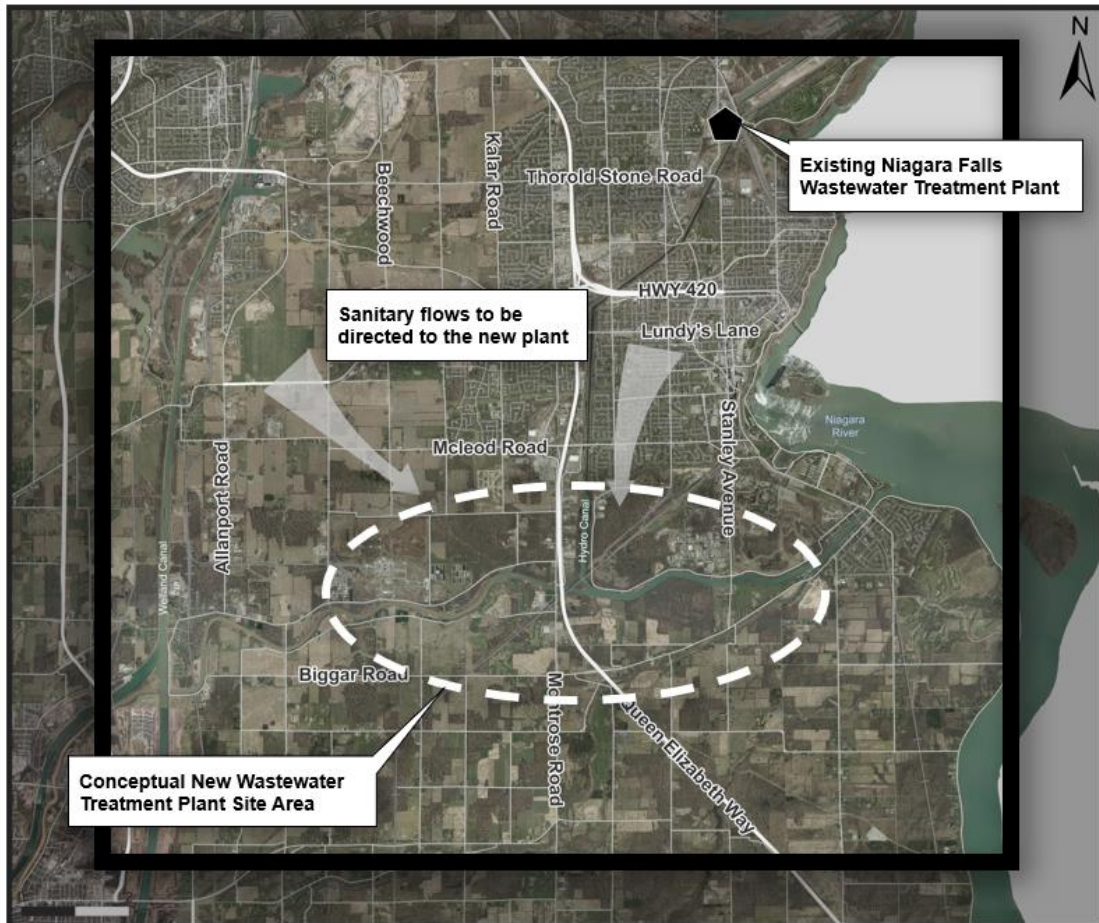


Figure 1 – Study area for the New Wastewater Treatment Plant

1.1 Class EA Context

The study involves completion of Phases 1 through 5 of the MEA Municipal Class EA Process. Public consultation is a vital component of the Class EA process and ensures transparency through encouraging stakeholder and public involvement.

The workplan initially planned for three (3) PICs. Given the complexity and integrated study components, the Project Team decided to include an additional information session ahead of evaluating the preliminary preferred solution (i.e. the wastewater treatment plant site; outfall location; and collection system strategy). This strategy provides the public and

stakeholders the opportunity to challenge and understand the detailed evaluation process. In total there are four (4) planned PICs.

The first PIC was held on May 28, 2019. The objective was to: introduce the project; identify the problem and opportunity statement; and present baseline environmental features for the study area.

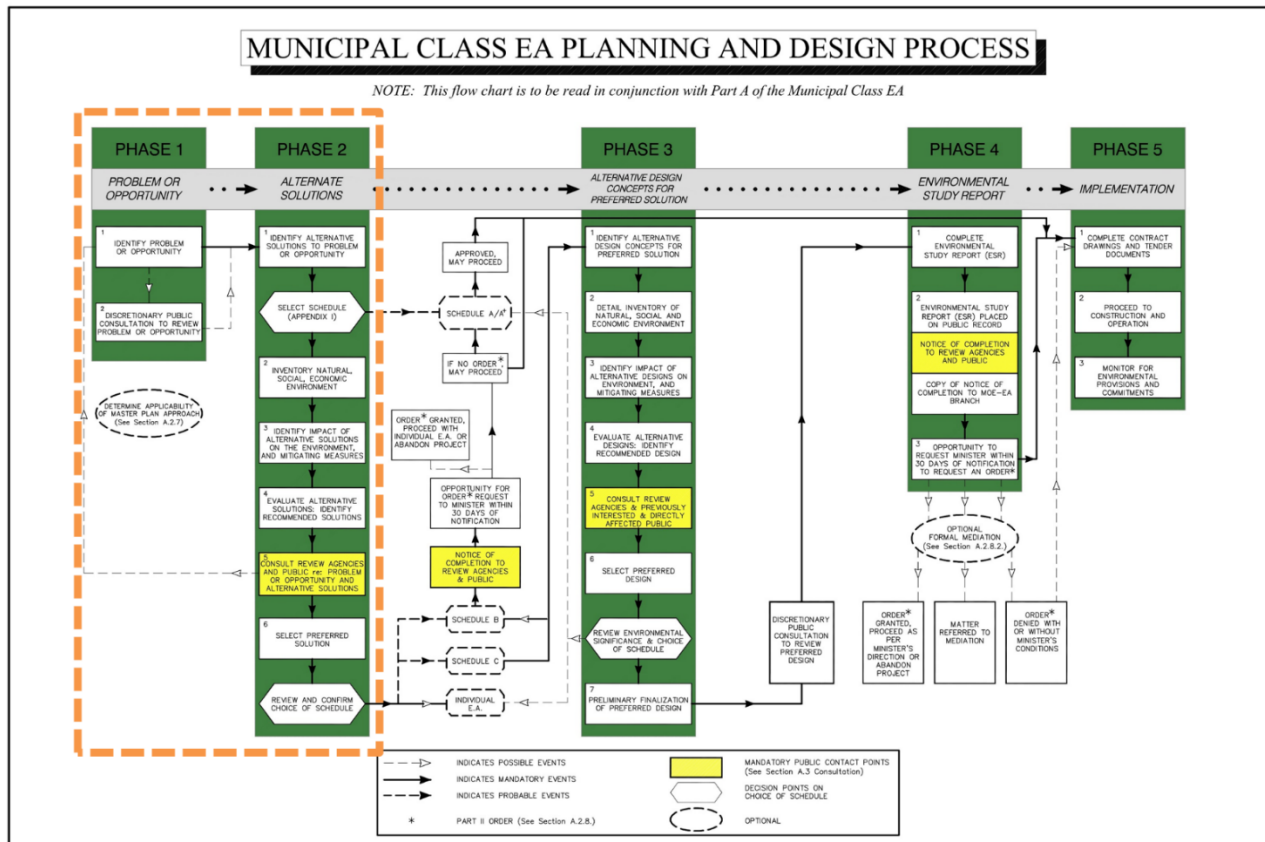


Figure 2 – This Figure illustrates the Municipal Class EA Planning and Design Process

2. PUBLIC INFORMATION CENTRE NO. 1

2.1 Purpose

Public Information Centre No. 1 was held on May 28, 2019 and included the following:

- Introduced the study;
- Described the Class EA process;
- Identified the problem and opportunity;
- Presented baseline information such as the existing systems and natural heritage and environmental features; and,
- Received public input and answer any questions.

2.2 Notifications

Stakeholders and the public were informed of the PIC by local newspaper advertisements, mail or e-mail (study contact list), Niagara Region Facebook and Twitter accounts, Green Scene news article, and through the Niagara Region website.

This study has enhanced notifications to better engage with the public on a larger platform. PIC No. 1 notification summary is available in Appendix A.

2.2.1 Newspaper Advertisements

The Notice of PIC No. 1 was first published on May 9, 2019. The Notice was included in the following publications:

- Niagara This Week (Zone 1) – May 9 & May 16, 2019;
- Niagara This Week (Zone 2) – May 9 & May 16, 2019; and,
- Niagara Falls Review – May 18, 2019.

2.2.2 Online Advertisements

The Region used additional methods of online publication. This involved the use of the Region's Twitter and Facebook accounts and seasonal *Green Scene* publication to better inform residents.

The notice was also posted on the Project Website. The website includes a sign-up option for the public to stay involved and receive future project notifications:

www.niagararegion.ca/projects/south-niagara-falls-treatment-plant/

In May 2019, the project website had 471 visits, 595 webpage views, 434 unique visitors, and 130 returning visitors.

2.2.3 Mail Out

The Notice of PIC No. 1 was dated May 9, 2019 and mailed and/or e-mailed to local government, review agencies and all other stakeholders. Notification was sent to the following groups:

Provincial

- Infrastructure Ontario
- Metrolinx/GO Transit
- Ministry of Agriculture, Food and Rural Affairs
- Ministry of Economic Development, Employment and Infrastructure
- Ministry of Indigenous Affairs
- Ministry of Infrastructure
- Ministry of Municipal Affairs and Housing
- Ministry of Natural Resources and Forestry
- Ministry of the Attorney General
- Ministry of the Environment, Conservation and Parks
- Ministry of Tourism, Culture and Sport
- Ministry of Transportation
- Niagara Escarpment Commission
- Niagara Falls Bridge Commission
- Niagara Parks Commission
- Ontario Provincial Police
- Peace Bridge Authority

Federal

- Canadian Environmental Assessment Agency
- Canadian Section, International Niagara Board of Control
- Department of Fisheries, Oceans and the Canadian Coast Guard
- Department of Indigenous and Northern Affairs
- Federal Economic Development Agency for Southern Ontario
- Health Canada
- Transport Canada, Environment and Engineering
- Transport Canada, Navigable Water Protection Program

Indigenous Communities

- Haudenosaunee Confederacy Chiefs Council
- Mississaugas of the Credit First Nation
- Six Nations of the Grand River

Conservation Authorities

- Niagara Peninsula Conservation Authority

Rail/Transit

- Canada Pacific Railway
- CN Rail
- Go Transit
- TransCanada Pipelines

Utilities

- Bell Canada
- CAA Niagara
- Canadian Automobile Association- South Central Ontario
- Cogeco Cable Niagara
- Canadian Niagara Power Inc.
- Enbridge Gas Distribution Inc.
- Enbridge Pipelines Inc.
- Grimsby Power Incorporated
- Hydro One Networks - Zone 2 Scheduling
- Niagara Peninsula Energy Inc.
- Niagara Region Broadband Networks
- Ontario Power Generation

School Boards

- Brock University
- Conseil Scolaire Viamode
- Conseil Scolaire Catholique MonAvenir
- District School Board of Niagara
- Niagara Catholic District School Board
- Niagara College

EMS and Health

- Niagara Emergency Medical Services
- Niagara Health System
- Niagara Regional Police
- City of Niagara Falls

Local Municipal: Mayors/Clerks/Councillors/Directors

- City of Niagara Falls
- City of Port Colborne
- City of St Catharines
- City of Thorold
- City of Welland
- Town of Fort Erie
- Town of Grimsby
- Town of Lincoln
- Town of Niagara-on-the-Lake
- Town of Pelham
- Township of Wainfleet

Interest and Stakeholder Groups

- Niagara Home Builders Association
- Ontario Wine Country
- Regional Niagara Bicycling Committee
- Citizens Against Unsanitary Sewage Effluent
- Greater Niagara Chamber of Commerce
- Lundy's Lane BIA
- New South Niagara Hospital

Residents

Five (5) residents requested to be added to the stakeholder list prior to May 9, 2019. These residents received notification of PIC No.1.

2.3 Date, Time, and Location

PIC No. 1 was held within the City of Niagara Falls at the Boys & Girls Club of Niagara. The SNF Team hosted the public event at the closest available facility to the immediate study area. Table 1 identifies the date, time, and location details for PIC No. 1.

Table 1. PIC No. 1 Information

Public Information Centre No. 1	
Date / Time	Tuesday May 28, 2019 Media Review – 4:00 to 5:00 p.m. Public Review – 5:00 to 8:00 p.m.
Location	Boys & Girls Club of Niagara 8800 McLeod Road, Niagara Falls, ON, L2H 0Y8

2.4 Council Drop-in Session

An additional information session was held on June 19, 2019 from 2:00 to 4:00 p.m. at the Niagara Region Headquarters for local council members. A total of 5 Councillors signed-in representing: Niagara Region, City of Niagara Falls, City of Thorold, Town of Fort Erie, and City of St. Catharines.

This session was an opportunity for council members to ask questions pertaining to the study, review the PIC No. 1 content, and understand next steps.

2.5 PIC No. 1 Materials

The following materials were made available to attendees during the PIC event and through the Project Website.

2.5.1 Display Boards

The information presented on the Display Boards at PIC No. 1 included:

- Purpose of the Study;
- Study Overview;
- Study Area and Baseline Planning Forecasts;
- Municipal Class EA Process and Consultation;
- Study Problem / Opportunity Statement;
- Existing Sanitary System;
- Environmental Features; and,
- Next Steps & Involvement.

2.5.2 Frequently Asked Questions

A handout was provided to all attendees, and uploaded to the project website, that outlined questions previously received or anticipated from the Project Team. Example content included: potential odour/noise impacts; why a wastewater treatment plant is needed; project benefits; evaluation process; and project timing.

2.5.3 Information Brochure

PIC attendees received an information brochure which included: an introduction to the study; the overall purpose and objectives; overview of the wastewater treatment process; project timeline; and project manager contact information.

2.6 PIC No. 1 Attendance

A total of 30 people attended PIC No. 1, counting only those who signed in. In addition, Representatives from Niagara Region, GM BluePlan, Golder Associates, CIMA and Redbrick Communications were present to provide information and answer questions.

2.7 PIC No. 1 Facebook Live Event

GM BluePlan hosted a live event from the Niagara Region's Facebook page an hour before the scheduled PIC. This allowed members of the public to virtually join in discussions and have questions answered in real time.

GM BluePlan introduced the Class EA and walked through the display materials including: study background; study problem and opportunity statement; and baseline environmental features that were made available during the event.

A total of 1,586 people viewed the Facebook live feed. The video reached an estimated 3,900 people.



Lisa Vespi from Niagara Region and Chris Hamel from GM BluePlan Engineering during the PIC No. 1 Facebook Live event

The PIC No. 1 Facebook Live statistics include:

- Average watch time: 0:20 minutes
- 3-second video views: 1,586
- Overall estimated reach: 3,900
- 10-second video views: 166
- Total minutes viewed: 1,223
- Peak live viewers: 15
- Comments: 3
- Shares: 6
- Reactions: 23 (these were thumbs up, hearts and laugh)

2.8 PIC No. 1 Comments

Attendees were encouraged to provide comments related to the Class EA in writing. Comments may be submitted via comment sheets, phone, emails, and letters. These comments are then reviewed and considered by the Project Team to inform the decision-making process. The Project Team responded to all questions which required follow-up. A summary of the comments received relating to PIC No. 1 event are shown below.

Table 2. Summary of PIC No. 1 Comments Received

No.	Correspondent	Type	Comment	Date Received	Status/Response
1	██████████ ASI Group	Comment Sheet	Attendee inquired about further information sessions once the Class EA was complete, and a means of treatment decided. Also expressed concern about the estimated MOE effluent criteria when discharged.	28-May-19	Response was issued during the PIC event. Study will be completing an assimilative capacity study. Comments taken into consideration
2	██████████ Niagara Falls Nature Club	Comment Sheet	Expressed concern for impact on natural areas	28-May-19	Resident comments taken into consideration.
3	██████████ Farm Resident	Comment Sheet	Resident expressed significant concern about the potential development pressure on the prime agricultural farm lands north of the Welland River as young farmers are not able to compete with developable land prices. Resident requested to be added to the contact list.	28-May-19	Response was issued during the PIC event. Resident comments taken into consideration and added to the study contact list.

3. NEXT STEPS

Following the first round of public consultation, the project team will:

- Review and consider input received during the event and through completed comments sheets;
- Respond to comments when required;
- Identify and evaluate system opportunities and constraints;
- Assess and evaluate the list of potential sites of interest for the new WWTP, receiving waterbodies for the outfall location, and collection strategies;
- Continue to work with review agencies and stakeholders;
- Prepare and advertise for Public Information Centre No. 2; and,
- Collect additional comments and input.

APPENDIX A
NOTICE OF PIC NO.1

NOTICE OF PUBLIC INFORMATION CENTRE NO. 1 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

We want to hear from you. Get involved in Niagara's future.

THE STUDY

Niagara Region is planning ahead. We are working with the cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls, and to improve the sewer system.

PUBLIC CONSULTATION

Your input is important throughout the process. You are invited to a Public Information Centre (PIC) to learn more about the study.

Date: Tuesday May 28, 2019

Time: 5:00 to 8:00 p.m.

Location: Boys & Girls Club of Niagara
8800 McLeod Road, Niagara Falls, ON
L2H 0Y8

Format: Open House with information on display

You can meet members of the project team to discuss the Environmental Assessment process and the need for this project, understand the Region's current wastewater servicing and treatment, learn how you can be engaged, and provide feedback on what's most important to you.

PROJECT BENEFITS:

- Better protect the environment
- Create new jobs and infrastructure to support new local investment
- Ensure our management of wastewater is more efficient and effective

LEARN MORE

If you would like more information about the project or to provide feedback, please contact:

Ms. Lisa Vespi, P.Eng., PMP
Niagara Region Project Manager
Regional Municipality of Niagara
1815 Sir Isaac Brock Way
Thorold, Ontario, L2V 4T7
905.980.6000 ext. 3640
NewTreatmentPlant@niagararegion.ca

Mr. Chris Hamel, P.Eng.
Consultant Project Manager
GM BluePlan Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
Phone: 416.703.0667
Email: chris.hamel@gmblueplan.ca

Or visit niagararegion.ca/projects/south-niagara-falls-treatment-plant

This notice was first issued on May 9, 2019.

Niagara Region is committed to ensure that all Regional services, programs and facilities are inclusive and accessible for persons of disability. Please contact Lisa Vespi if you need any accommodation to provide comments or feedback for this study.

MOVING WATER FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE NO. 1 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

Niagara Region is undertaking an important study to meet growing needs and provide overall environmental benefit to the South Niagara area.

YOU'RE INVITED!

DATE: Tuesday May 28, 2019

TIME: 5:00 to 8:00 p.m.

LOCATION: Boys & Girls Club of Niagara
8800 McLeod Road, Niagara Falls, ON, L2H 0Y8

FORMAT: Open House with information on display

ABOUT THE STUDY

Niagara Region is planning ahead and working with the cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls, and to improve the sewer system. As a result, we will be able to better protect the environment, create new jobs and infrastructure to support new local investment and ensure our management of wastewater is more efficient and effective.

AT THE PIC

Learn about the Environmental Assessment process and the need for the project, understand the Region's current wastewater servicing and treatment, and find out how you can be engaged and provide feedback.

LEARN MORE

niagararegion.ca/projects/south-niagara-falls-treatment-plant

Please contact Lisa Vespi, Project Manager, if you need any accommodation to provide comments or feedback for this study: 905.980.6000 ext. 3640 or newtreatmentplant@niagararegion.ca

This notice was first issued on May 9, 2019

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES



niagararegion.ca/projects/south-niagara-falls-treatment-plant

NEWS

RETRO REVIVAL AT ST. CATHARINES VIDEO GAME EXPO

NEW AND OLD COLLIDE FOR HOMEBREW NES GAME 'LIZARD'

JAMES CULIC
jculic@niagarathisweek.com

Buried among the thousands of retro video games on display at the big swap meet in St. Catharines last weekend, one game sat apart from the rest. It appeared to be an old-school Nintendo game from the 80s but it lacked the tell-tale signs of age: discoloured yellowish cartridge, worn out sticker label, crossed instruction manual.

In fact, it looked brand new. Because it was. "I guess I did it just to challenge myself, to see if I could do it," said Brad Smith, the programmer behind Lizard, a new game for a very old system. The Nintendo Entertainment System (NES) launched in North America on Oct. 18, 1985. Officially, the final software ever released for the NES came out in 1996, shortly after the system was replaced by the Super Nintendo.

But thanks to the burgeoning 'homebrew' software market, people like Smith are able to produce fully functioning re-production carts that will still work on an NES.

Figuring out how to write programming code for a 31-year-old machine was no simple task, but the more he looked into it, the more Smith said he was captivated by the whole process. By today's standards, the NES is laughably underpowered (a basic cellphone chip is thousands of times more powerful than the one-way NES processor) but Smith said there was a "elegance" to the design of the graphical architecture of the NES that he found very appealing.

"I also really like the old music from those games," said Smith, who noted the NES sound chip produced some of the most memorable and iconic video game tunes in history. "The way it produces sound is there's nothing else quite like that. It's such a particular sound."

Alongside the new retro game produced by Smith, the gaming swap meet hosted at the Port Dalhousie Lions Club featured stacks of authentically retro games from local collectors and shops like NEX Game Store in St. Catharines, and Game Zone in Niagara Falls.

To check out Lizard or purchase a cartridge for yourself, visit the website www.lizardnes.com

MOVING WATER FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE NO. 1 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

Niagara Region is undertaking an important study to meet growing needs and provide overall environmental benefit to the South Niagara area.

YOU'RE INVITED!

DATE: Tuesday May 28, 2019

TIME: 5:00 to 8:00 p.m.

LOCATION: Boys & Girls Club of Niagara
8800 McLeod Road, Niagara Falls, ON, L2H 0Y8

FORMAT: Open House with information on display

ABOUT THE STUDY

Niagara Region is planning ahead and working with the cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls, and to improve the sewer system. As a result, we will be able to better protect the environment, create new jobs and infrastructure to support new local investment and ensure our management of wastewater is more efficient and effective.

AT THE PIC

Learn about the Environmental Assessment process and the need for the project, understand the Region's current wastewater servicing and treatment, and find out how you can be engaged and provide feedback.

LEARN MORE

niagararegion.ca/projects/south-niagara-falls-treatment-plant

Please contact Lisa Vespi, Project Manager, if you need any accommodation to provide comments or feedback for this study: 905.980.6000 ext. 3640 or newtreatmentplant@niagararegion.ca

This notice was first issued on May 9, 2019

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES



niagararegion.ca/projects/south-niagara-falls-treatment-plant

COMMUNITY

COMMUNITY CLEAN SWEEP ON SATURDAY

PAUL FORSYTH
pfor5yth@niagarathisweek.com

Folks can do their part to pretty up Niagara Falls, now that winter is finally over, by taking part in the annual Spring Community Clean Sweep day on Saturday, May 11.

The event - starting at the parking lot of Mick & Angelo's restaurant, at the corner of Montrose Road and Lundy's Lane, at 9 a.m. - will see hundreds of people scatter throughout parks, trails, walkways and mainstreet boulevards with recycling and garbage bags, collecting litter.

"Currently over 200 have registered, but there is always room for more," city community development co-ordinator Jeff Goussard said on Monday.

It's one of two such community cleanups the Park in the City committee organizes each year.

Volunteers are asked to register online at <https://s.niagarafalls.ca/springclean>. Volunteers can collect their cleaning supplies and instructions at the start of the event. The event will take place rain or shine, unless the conditions become dangerous. In case of a rainout, the event will not be rescheduled, the city said.

All volunteers must conclude their cleanup by noon. Participants under age 16 must be accompanied by an adult, and there is a maximum of four youth accompanied per adult. The city said students will be able to acquire community-service volunteer hours by participating. Student forms will be signed at the end of the cleanup. "It's a great opportunity for students to acquire some community service hours," said Goussard.

After the cleanup, volunteers will be treated to a complimentary lunch. For more information, call 905-536-7521, ext. 3330.

MOTHER'S DAY BRUNCH AT CLUB ITALIA IN NIAGARA FALLS

People can treat their dear old moms to a Mother's Day brunch at Club Italia in Niagara Falls on Sunday. The banquet and conference centre at 2825 Montrose Rd. will host two seating times for brunch, at 11:30 a.m. or 1 p.m. Tickets are \$25 for adults, \$15 for kids aged 12 to six, and free for kids under age five, and must be purchased in advance at 905-776-7888.

The brunch will feature an eclectic station, breakfast station, antipasto bar, pasta station, salad bar, kids station, breads, and an ice cream and dessert station.

MOVING WATER FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE NO. 1 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

Niagara Region is undertaking an important study to meet growing needs and provide overall environmental benefit to the South Niagara area.

YOU'RE INVITED!

DATE: Tuesday May 28, 2019

TIME: 5:00 to 8:00 p.m.

LOCATION: Boys & Girls Club of Niagara
8800 McLeod Road, Niagara Falls, ON, L2H 0Y8

FORMAT: Open House with information on display

ABOUT THE STUDY

Niagara Region is planning ahead and working with the cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls, and to improve the sewer system. As a result, we will be able to better protect the environment, create new jobs and infrastructure to support new local investment and ensure our management of wastewater is more efficient and effective.

AT THE PIC

Learn about the Environmental Assessment process and the need for the project, understand the Region's current wastewater servicing and treatment, and find out how you can be engaged and provide feedback.

LEARN MORE

niagararegion.ca/projects/south-niagara-falls-treatment-plant

Please contact Lisa Vespi, Project Manager, if you need any accommodation to provide comments or feedback for this study: 905.980.6000 ext. 3640 or newtreatmentplant@niagararegion.ca

This notice was first issued on May 9, 2019

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES



niagararegion.ca/projects/south-niagara-falls-treatment-plant

LOCAL

NEW MUNICIPAL WORKS DIRECTOR FOR CITY OF WELLAND

ERIK NICKEL MOVES FROM CITY OF WELLAND

DAVE JOHNSON

In his 10+ years with the City of Welland, Erik Nickel held every management position in the engineering division.

"I've been with the city since 2008, and when I first came here I was the special projects engineer." After running it as general manager of infrastructure and development for the past 18 months, he's moving on to the City of Niagara Falls to become its municipal works director.

Nickel's last day is Friday, May 24. He starts his new job Monday, May 27. Before joining the municipal ranks, Nickel spent time as an engineering consultant and worked on the streetscaping project on East Main Street in front of Welland Civic Square.

His first big municipal project was overseeing the citywide installation of 18,000 water meters. "It was a huge project and an interesting project... when you think about all the infrastructure and plumbing that comes on to a property and into a home. It was certainly a challenge."

He said it was that project that helped him learn who was involved in public works and other departments in the city. "I met some really great people."

After completing the water meter project, Nickel became construction supervisor, overseeing the city's construction inspectors and working on road and sewer projects. From that, he went to oversee the design of road and sewer projects. "Five years ago he was managing all of engineering services, and six months ago became head of the department."

Nickel said he's leaving Welland because he's looking for a new challenge and still isn't sure what he wants to do with his career and wants to keep his options open.

"Moving to a larger size municipality does not happen very often." As he gets ready to leave, Nickel said city council and staff have been great to work with and he's learned a lot over the years, allowing him success in his career.

"I have nothing but great things to say about Welland... the community and the people are fantastic."

MOVING WATER FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE NO. 1 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

Niagara Region is undertaking an important study to meet growing needs and provide overall environmental benefit to the South Niagara area.

YOU'RE INVITED!

DATE: Tuesday May 28, 2019

TIME: 5:00 to 8:00 p.m.

LOCATION: Boys & Girls Club of Niagara
8800 McLeod Road, Niagara Falls, ON, L2H 0Y8

FORMAT: Open House with information on display

ABOUT THE STUDY

Niagara Region is planning ahead and working with the cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls, and to improve the sewer system. As a result, we will be able to better protect the environment, create new jobs and infrastructure to support new local investment and ensure our management of wastewater is more efficient and effective.

AT THE PIC

Learn about the Environmental Assessment process and the need for the project, understand the Region's current wastewater servicing and treatment, and find out how you can be engaged and provide feedback.

LEARN MORE

niagararegion.ca/projects/south-niagara-falls-treatment-plant

Please contact Lisa Vespi, Project Manager, if you need any accommodation to provide comments or feedback for this study: 905.980.6000 ext. 3640 or newtreatmentplant@niagararegion.ca

This notice was first issued on May 9, 2019

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES



niagararegion.ca/projects/south-niagara-falls-treatment-plant

NEWS

EVENT ENCOURAGES ENGAGEMENT

Continued from page 5

inaugurated with political discourse in her first year of university, something she hadn't experienced until then.

She joined in class that the more political dialogue a person is exposed to, the higher the likelihood they will vote. Through research, she said she found that the main reasons youth aren't voting are they don't understand what each party stands for, they're confused about Canada's electoral system or they just feel their vote won't impact the results.

Her own learning curve helped to reveal the wide gap in political education for youth that she sought to address. Now, she said First Vote's mandate is to teach and empower young voters so they can make a difference.

The event included non-partisan guest speakers - vice-president of Brock's finances and administration Brian Hutchings and political science professor Tim Heimlicher - and a speed networking session with 11 staffers from each political party in the Niagara Centre ridings, plus a variety of community organizations.

Rory Bulmer, the social media manager for First Vote, said the event also helped to connect young people to groups or resources that might align with their values. Whether they connected with the Liberals, NDP, Conservatives, Green party or a group like Generation Served, it gave them a variety of options to help them get engaged.

Noah Nickel, the marketing manager for First Vote, said he hoped the students will learn through the plethora of political channels available to them that through voting and getting involved, they can actually make change in their communities.

Bert Bossert, a Grade 12 student at DSRB Academy, said most of what he knew about politics before this event came from his family or from social media. After listening to the speakers and guests, he said he understands that even though he may agree with his family, he can still speak for himself.

He called First Vote an amazing opportunity and said there are many young people, like himself, who have basic knowledge about what's happening but don't fully understand why or how to get involved. "The 18-year-olds said he will definitely be voting in the upcoming federal election."

The Clear Choice

NOW IS THE TIME FOR
Spring Renovations!!

<p><i>windows</i></p> <ul style="list-style-type: none"> • Easy Tilt for Cleaning • Heavy Duty Clam Locks • Triple Weather Stripping • Security Plus 	<p><i>doors</i></p> <ul style="list-style-type: none"> • Lifetime Window Warranty • Non Pro Rated • Free Low-E • Security Steel Doors • 20 Yr. Warranty • Stop Drafts With Elegance! 	<p>WE'LL EARN YOUR BUSINESS!</p> <p>WE WON'T BE UNDER SOLD!</p> 
--	--	---

QUALITY, VALUE AND TRUST SINCE 1972



BIAMONTE
WINDOWS • SIDING • DOORS

STEEL ENTRANCE SYSTEMS • PORCH ENCLOSURES • DECKS • FENCING

FOR ALL YOUR HOME IMPROVEMENTS NEEDS **905-651-5795**
GIVE JOE A CALL www.biamontewindows.com



ENHANCE YOUR SMILE!




Same day reline & repair • Full, partial & over implant dentures • On-site lab • All procedures performed by the specialist

905-357-5542
J. Gus Koroneos B.Sc. DD

Denture Clinic

Free Consultations
www.niagaradentures.com



Taren A. Irtinade J. Gus Koroneos
B.Sc. DD B.Sc. DD



5652 MAIN STREET NIAGARA FALLS, ON

MOVING WATER FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE NO. 1 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

Niagara Region is undertaking an important study to meet growing needs and provide overall environmental benefit to the South Niagara area.

YOU'RE INVITED!

DATE: Tuesday May 28, 2019

TIME: 5:00 to 8:00 p.m.

LOCATION: Boys & Girls Club of Niagara
8800 McLeod Road, Niagara Falls, ON, L2H 0Y8

FORMAT: Open House with information on display

ABOUT THE STUDY

Niagara Region is planning ahead and working with the cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls, and to improve the sewer system. As a result, we will be able to better protect the environment, create new jobs and infrastructure to support new local investment and ensure our management of wastewater is more efficient and effective.

AT THE PIC


Learn about the Environmental Assessment process and the need for the project, understand the Region's current wastewater servicing and treatment, and find out how you can be engaged and provide feedback.

LEARN MORE
niagararegion.ca/projects/south-niagara-falls-treatment-plant

Please contact Lisa Vespi, Project Manager, if you need any accommodation to provide comments or feedback for this study:
905.980.6000 ext. 3640 or
newtreatmentplant@niagararegion.ca

This notice was first issued on May 9, 2019

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

Niagara  Region

niagararegion.ca/projects/south-niagara-falls-treatment-plant

Niagara Region
May 27, 2019 · 🌐

Provide your feedback tomorrow (May 28, 5-8 p.m.) at the public information centre for the South Niagara Falls Treatment Plant.

<https://bit.ly/2W4zSTM>



TUE, MAY 28, 2019

South Niagara Falls Wastewater Solutions

8800 McLeod Rd, Niagara Falls, ON L2H 0Y8, Canada

📅 Other

★ Interested

Niagara Region
May 28, 2019 · 🌐

Join us tonight (8800 McLeod Rd., Niagara Falls) from 5-8 p.m. to learn about the environmental assessment underway for a new wastewater treatment plant in South Niagara Falls.



TUE, MAY 28, 2019

South Niagara Falls Wastewater Solutions

8800 McLeod Rd, Niagara Falls, ON L2H 0Y8, Canada

📅 Other

★ Interested

👍 1

👍 Like

💬 Comment



Niagara Region @NiagaraRegion · 28 May 2019

We're live on Facebook right now - join us and submit your questions about the the new wastewater treatment plant in **South Niagara Falls**

💬 1 🔄 2 ❤️ 2

Show this thread



Niagara Region @NiagaraRegion · 28 May 2019

Can't attend the public information centre for the new wastewater treatment plant in **South Niagara Falls** tonight? Tune into our Facebook Live event from 2:30 to 3:00 p.m to learn about the project: facebook.com/niagararegion/



💬 1 🔄 2 ❤️ 3

Show this thread



Niagara Region @NiagaraRegion · 27 May 2019

Provide your feedback tomorrow (May 28, 5-8 p.m.) at the public information centre for the **South Niagara Falls Wastewater Treatment Plant** bit.ly/2W4zSTM



💬 1 🔄 1 ❤️ 4



Niagara Region

May 27, 2019 · 🌐

Public invited to learn more about new wastewater treatment plant planned in South Niagara Falls!

<https://bit.ly/2WteYDW>



MOVING WATER FORWARD

PLANNING TODAY FOR TOMORROW'S INFRASTRUCTURE

SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

There is significant residential and employment growth planned for Niagara Region, specifically South Niagara including in Niagara Falls and Thorold South.

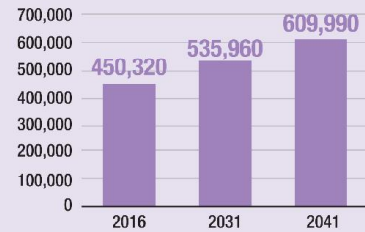
As we grow and build new communities, create new jobs, and invest in new facilities like schools and hospitals, investment is needed to plan and build our infrastructure.

Planning for the new plant and system upgrades: Planning is underway for a new wastewater treatment plant and improvements to the full wastewater system in South Niagara Falls to accommodate growth, improve existing areas and protect the environment. Council adopted the recommendation for this work in 2017 as part of the integrated process called Niagara 2041 when the 2016 Water and Wastewater Master Servicing Plan (MSP) Update was completed.

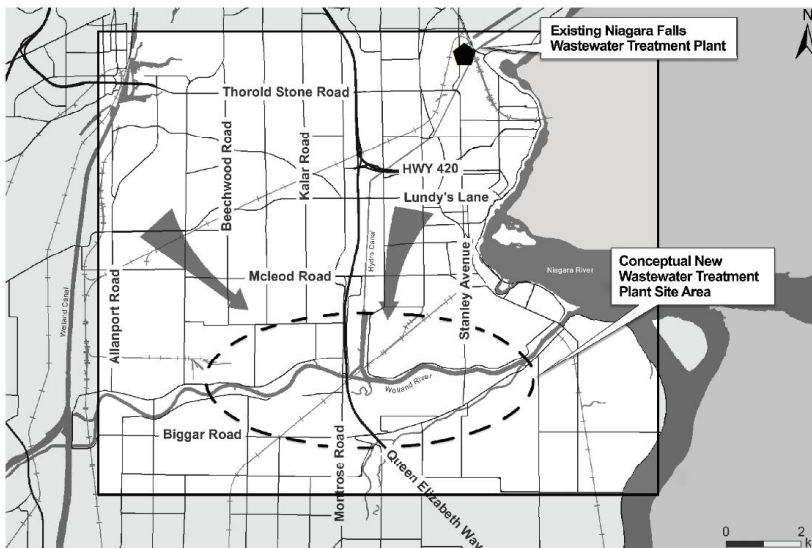
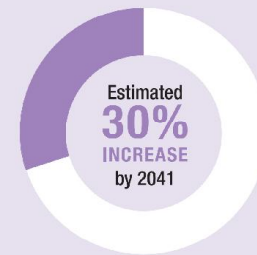
Environmental Assessment Underway: A Class C Environmental Assessment (EA) is underway to select a location for the new plant and plan the improvements to the system. The EA is a transparent, mandated process that will identify and confirm a number of things: the overall strategy, the preferred site for the new plant, the sewer routes in the area, the preferred technology and construction requirements, and the timing for design and construction.

The EA will clearly demonstrate the decision-making process including how any impacts to natural, social and cultural environments will be managed. The EA will take approximately two years to complete. The public, stakeholders and agencies will be consulted and engaged through each step.

Population growth expected across the Region



Total growth in South Niagara Falls (population and employment)



Learn more about the study at niagararegion.ca/newtreatmentplant, or email newtreatmentplant@niagararegion.ca.

Benefits of the Project:

- Improved efficiency of the wastewater system in Niagara Falls and Thorold
- Enhanced environmental protection through technology
- New jobs and infrastructure to support investment in the region
- Free up capacity at the existing Niagara Falls plant
- Allow for more options in how the Region manages wastewater

Niagara Region's Water Quality Reports: Staying Accountable Through Water Quality Reporting

Niagara Region takes treating your drinking water seriously. Together with local area municipalities, we are committed to going above and beyond the multi-barrier, health-based drinking water quality standards mandated by the province. This ensures Niagara residents continue to receive the highest quality drinking water at the tap.

Niagara Region and local area municipalities are responsible for producing annual water quality reports on drinking water systems under Ontario Regulation 170/03 under the Safe Drinking Water Act, 2002. Annual Reports are made available to the public on Niagara Region's website by municipality and by Regional water treatment facility.

Water quality reports contain information such as where your tap water comes from, what it contains, and how your tap water compares to provincial standards. Your tap water undergoes a variety of tests to determine quality and safety. All six of Niagara's water treatment plants continuously monitor and test your tap water multiple times a day. Water operations staff also collect weekly, monthly and annual samples of your tap water that are analyzed by an external accredited laboratory.

To learn more about tap water in Niagara and to view annual drinking water quality reports visit niagararegion.ca/water.

Page: **South Niagara Falls Wastewater Solutions - Niagara Region, Ontario**
<https://www.niagararegion.ca/projects/south-niagara-falls-treatment-plant/default.aspx>

Period: **May 2019**

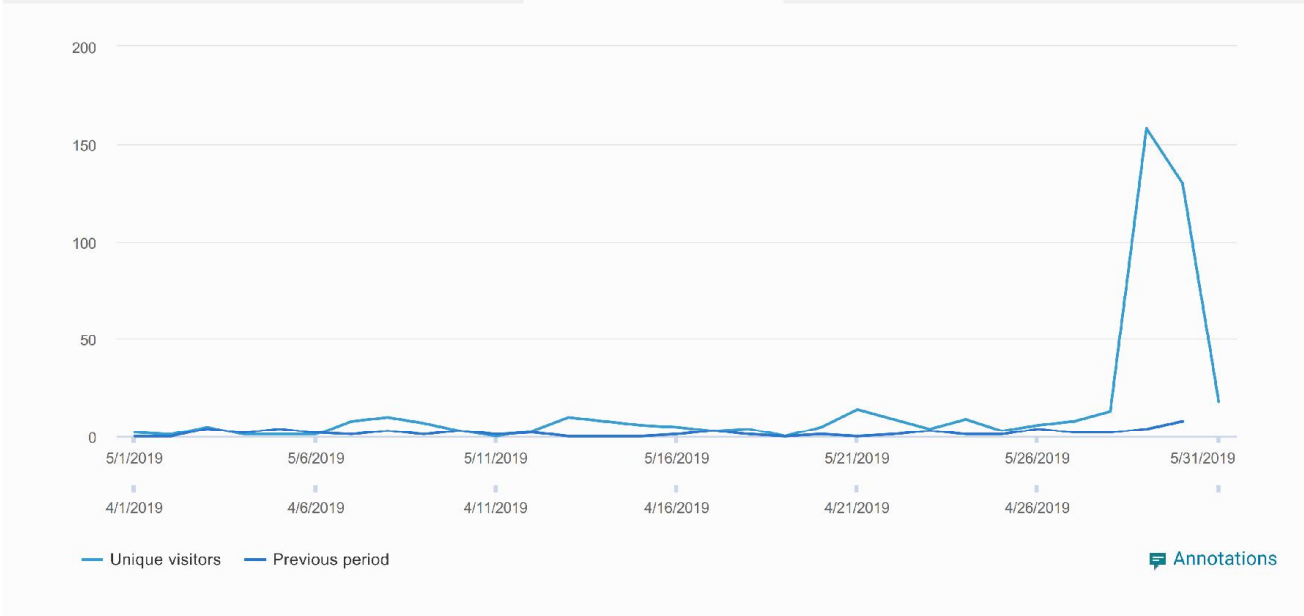
Filter: **External Only**

Page Overview

Historical Comparison

Compare to: Align weekdays: No

Visits 471 +412	Page views 595 +513	Unique visitors 434 +390	Returning visitors 130 +114	Bounce rate 64.46% +3.48
------------------------------	----------------------------------	---------------------------------------	--	---------------------------------------



Most Frequent

 From Canada	 Using Desktop	 Operating system Windows 10	 Browser Chrome 74.0	 Resolution 1920 1080
---------------------------	-----------------------------	---	-----------------------------------	------------------------------------

APPENDIX B
PIC NO. 1 DISPLAY BOARDS

South Niagara Falls Wastewater Solutions Schedule C Class Environmental Assessment

Public Information Centre No. 1

Tuesday, May 28, 2019

5 to 8 p.m.

Boys and Girls Club of Niagara



- Please sign in and take a comment sheet.
- Meeting is a “drop-in” format with display materials.
- Take an information bulletin and review the display materials.
- Members of the study team are available to answer questions.
- We welcome your feedback as your opinion will influence this study.
- Please place comment sheets in the box provided.

Themes for today’s materials

- Project Background and Introduction
- Study Process
- Information and Understanding
- Consultation and Engagement

Please note that photos and videos will be taken during this event. If you have any issues, please speak to a member of the project team.



Foundation for this Study: The Niagara Region Water and Wastewater Master Servicing Plan Update (MSP 2017)

Key issues addressed by the MSP (2017):

- Accommodating growth
- Improving and increasing capacity in the existing sanitary and combined stormwater systems
- Managing wet weather flows

Preferred Solution from the MSP (2017):

- Build a new wastewater treatment plant in South Niagara Falls
- Improve the existing sewer system and connect it to the new plant

The Master Servicing Plan Update was adopted by Niagara Region Council in 2017.

The purpose of the South Niagara Falls Wastewater Solutions Class EA is to determine:

- Where to locate the new wastewater treatment plant in South Niagara Falls
- Which body of water will receive the clean, treated water from the new plant
- How best to integrate the wastewater network to address growth, make the system as efficient as possible, and manage wet weather

This is defined as the Problem Opportunity Statement under the Class EA process



Key Study Objectives

Protect the Environment

- Reduce pollution into rivers and the environment
- Minimize flooding

Accommodate Growth

- Increase system capacity
- Support economic development

Provide Flexibility for the Future

- Ensure the facility has the ability to respond to changing regulations and needs
- Free up capacity in existing infrastructure such as the Stanley Ave. Wastewater Treatment Plant

Establish the new Wastewater Treatment Plant as a Community Asset

- Ensure the new facility fits well within the local community
- Engage the local technical & academic community in the solution
- Mitigate and manage issues such as odour, noise and traffic

(Find out more about what this EA plans to achieve at: www.niagararegion.ca/projects/south-niagara-falls-treatment-plant)





full EA study area



conceptual new plant site area

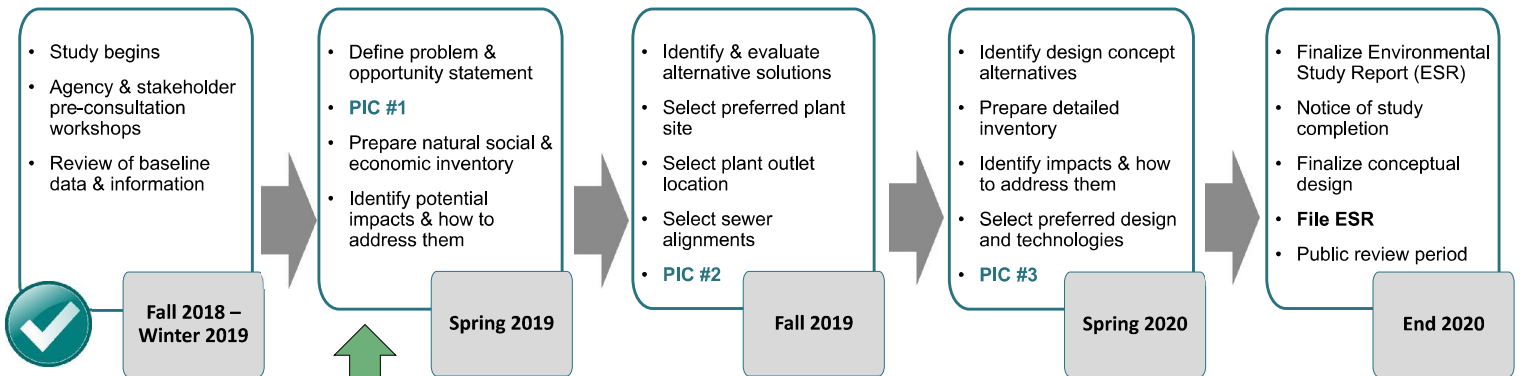


South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment

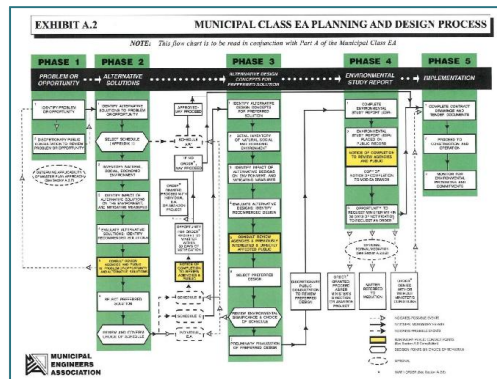
May 28, 2019
Board 5 of 12



Environmental Assessment Process and Timeline



We are here



Provincial Process

This project is following the **Class Environmental Assessment** process, which is a decision-making process that all Ontario municipalities follow for building new infrastructure.



South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment

May 28, 2019
Board 6 of 12



Environmental impacts

- Proximity to environmental features and protected areas.
- Potential effects on water resources and natural features.
- Geology, hydrogeology, contamination considerations.



Social and cultural impacts

- Existing and surrounding land use.
- Noise and odour considerations.
- Cultural heritage resources.
- Archeological resources.



Evaluating the Options

With input from the public, key stakeholders and review agencies (Ministries), the project team will develop and use criteria to evaluate options for: the new plant site, plant outlet location and connecting body of water, and sewer alignments.

Site suitability

- Land use, land size, availability and location.
- Existing infrastructure.
- Potential impact on neighbouring properties.
- Ownership, legal and jurisdictional considerations.



Technical servicing considerations

- Ability to meet future needs.
- Minimize need for system upgrades.
- Ease of integration with existing system.
- Ease of construction and operation.



Economic

- Cost effective solution.
- Operation and maintenance costs.
- Lifecycle considerations.
- Funding and finance.



How does the Wastewater System Work?

Typical Wastewater Treatment Process



1. Wastewater from our sinks, tubs and toilets drains through sewers to a wastewater treatment plant.
2. Screens remove materials such as branches, plastics, rags and other untreatable debris.
3. The wastewater flows into clarifiers, which allow remaining solids to settle or float to the surface over several hours.
4. These solids are pumped to a set of digesters where they are further broken down before being sent to a biosolids storage facility for fertilizer production. Bio-gas is produced during the digestion process and used within the plant.
5. Liquid wastewater flows from the clarifiers into aeration tanks where air is added and bacteria "eat" any dissolved solids.
6. Ferric chloride is added to remove phosphorus from the wastewater. Too much phosphorus can promote algae growth in our lakes and rivers.
7. The wastewater is sent to the final clarifiers where the wastewater and bacteria-mixture separates.
8. Chlorine is added to disinfect the wastewater, killing bacteria and viruses. The chlorine is removed before being safely returned to the nearest lake or river.

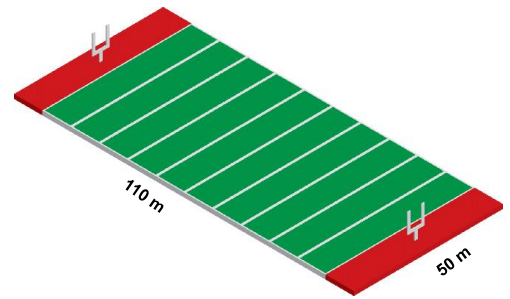


What does a Wastewater Treatment Plant Site Need?



Appropriate Land Size

The site must have suitable land size for a new plant. The potential size is approximately 400m x 400m (16 hectares). Equal to almost 30 Canadian football fields.



Positive Integration into Surroundings

The existing and surrounding land use is an important factor for a new plant site.

The team will consider potential impacts to the local environment and community, and how they will be addressed.

These measures include how we deal with noise, visual impact, odour, traffic and construction.



Proximity to the Region's Wastewater System and Future Growth Areas

The site ideally needs to be close to the existing wastewater system and close to future service areas.



Proximity to a Natural Water Body

The site must be close to a nearby river or lake where the clean, treated water can be released.

Studies are underway to review environmental features, wildlife habitats, and water quality.



We Want to Hear from You!

How to Stay Involved

- Sign up for project updates
- Attend a future Public Information Centre
- Submit an online feedback form or future survey
- Visit our website
www.niagararegion.ca/projects/south-niagara-falls-treatment-plant
- Follow us on social media
www.facebook.com/niagararegion and
www.twitter.com/niagararegion

Today

- Fill out the questionnaire and comment sheet
- We want to know if you are interested in active involvement or prefer to participate through project information updates

Next Six Months

- Provide input on evaluation criteria used
- Public Information Centre 2 in **Fall 2019**: provide your feedback on the preliminary preferred solutions including the new plant site location





Get Engaged! What do you believe is the most important outcome of this study? Using the sticky notes provided, please let us know your thoughts. Your feedback will be used to help inform the decision making process.

“I believe this study will be a success if _____.”



Thank you for Participating, Please Stay Engaged!

Do you have any questions, comments, or want to stay up to date? Please contact us anytime:

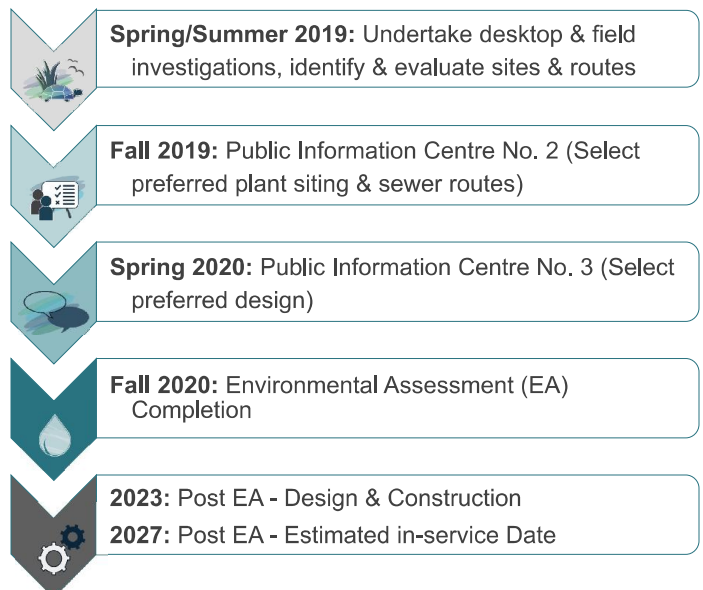
Lisa Vespi, P.Eng., PMP

Niagara Region Project Manager
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario L2V 4T7
Tel: 905.980.6000 x 3640
Email: NewTreatmentPlant@niagararegion.ca

Chris Hamel, P.Eng.

GM BluePlan Project Manager
3300 Highway No. 7, Suite 402
Vaughan, Ontario L4K 4M3
Tel: 416.577.2500
Email: Chris.Hamel@gmblueplan.ca

Schedule:



APPENDIX C
HANDOUT MATERIAL

WELCOME!

Niagara Region is planning today for tomorrow's infrastructure. This environmental assessment (EA) is an important study for a new wastewater treatment plant and improvements to the system in the South Niagara Falls area.

We know significant growth is coming to our area and as we build new communities, create new jobs, and invest in new facilities like schools and hospitals, investment is needed to enhance and build new infrastructure.

We're at the beginning of the environment assessment process and we want to make sure the community is well informed and has many opportunities to provide feedback. We hope this information will be helpful to you.

Thank you for joining us.

HOW WE GOT HERE

Out of the province's *Places to Grow Act*, Niagara Region conducted a comprehensive municipal review called *How We Grow* to guide how we will manage population growth to 2041. Under that process, in 2016, we also updated the *How We Flow, Water and Wastewater Master Servicing Plan (MSP)*.

Based on the projected growth to come to the South Niagara Falls area and the detailed evaluation from the MSP, it was determined that a new wastewater treatment plant connected to the sewer system would help accommodate growth, make the wastewater system more efficient and help manage wet weather. Niagara Region Council and Niagara Falls Council adopted these recommendations in 2017.

50,000 more people coming to live and work in the South Niagara Falls area by 2041

WHAT A WASTEWATER TREATMENT PLANT NEEDS

- Appropriate land size: 400m x 400m (approximately 30 Canadian football fields)
- Appropriate land use
- Proximity to the existing wastewater system and future growth areas
- Proximity to a water body to receive the treated water from the plant
- Integration into surroundings

MORE INFORMATION AND TO STAY INVOLVED

If you would like more information about the project or to provide feedback, we encourage you to use the following resources:

Visit niagararegion.ca/projects/south-niagara-falls-treatment-plant. You will find project information, an online feedback form and all information presented at PICs.

If you wish to receive future project notifications by email, please send your request to newtreatmentplant@niagararegion.ca.

Follow and watch for project updates through the Niagara Region's Facebook and Twitter accounts.

The Region will be hosting two additional public information sessions during key study milestones. These meetings are planned for Fall 2019 and Spring 2020 when the project team will present study findings and recommendations, ask for feedback, answer questions and discuss next steps.

If you wish to submit comments or have questions, please contact us:

Ms. Lisa Vespi, P.Eng.
Project Manager
Niagara Region
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario, L2V 4T7
905-980-6000 ext. 3640
newtreatmentplant@niagararegion.ca

Mr. Chris Hamel, P.Eng.
Consultant Project Manager
GM BluePlan Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
416-703-0667
chris.hamel@gmblueplan.ca

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

Niagara  Region

niagararegion.ca/projects/south-niagara-falls-treatment-plant

MOVING WATER FORWARD

SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

PUBLIC INFORMATION CENTRE

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

Niagara  Region

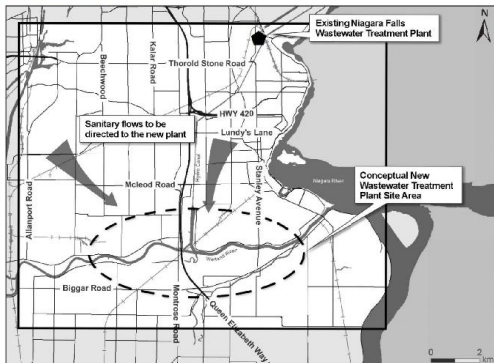
niagararegion.ca/projects/south-niagara-falls-treatment-plant

PROJECT BENEFITS

A new wastewater treatment plant will be an asset for our community in many ways.

- It will mean new jobs and infrastructure to support new investment in Niagara and help our local economy
- It will help us better protect the environment through new technology and a more efficient wastewater system, which should reduce system overflows
- It will give us more flexibility in how we manage wastewater
- It will increase our capacity by reducing flows to the existing Niagara Falls Stanley Avenue plant

STUDY AREA



The Environmental Assessment will be studying the wastewater system within the boxed area on the map. The location for the new plant will be identified within the dotted circle area.

SCOPE OF THE PROJECT

- Where to locate the new wastewater treatment plant in South Niagara Falls
- Determine which body of water will receive the treated water from the plant
- How to best integrate the wastewater network to address growth, make it as efficient as possible and manage wet weather

OBJECTIVES OF THE STUDY

- 1. Protect the Environment**
 - Less pollution into the rivers
 - Treat wastewater
- 2. Accommodate Growth**
 - Support economic and cultural development investment to city/region
 - Build community
- 3. Flexibility for the Future**
 - Adapting to changing regulations
 - Operational
 - Growth/ land use
 - Free up capacity
- 4. Community Asset**
 - Fit into local land use
 - Engage local tech/academics
 - Mitigate/manage issues related to wastewater treatment

NEXT STEPS

- Spring/Summer 2019**
Undertake desktop and field investigation, identify and evaluate potential sites and routes
- FALL 2019**
Public Information Centre #2
Select preferred plant siting and sewer routes
- SPRING 2020**
Public Information Centre #3
Select preferred design
- WINTER 2020**
Environmental Assessment completion
- 2023 Design**
2025 Construction
2027 Estimated in-service date

We Want to Hear from You!

As we evaluate different criteria, we need the community to tell us, in your view:

- What does success look like
- What do you want to know more about
- What do you consider to be the most important aspect(s) of wastewater treatment and the location for a new plant

TYPICAL WASTEWATER TREATMENT IN NIAGARA REGION



- 1.** Wastewater from our sinks, tubs and toilets drains through sewers to a wastewater treatment plant.
- 2.** Screens remove materials such as branches, plastics, rags and other untreatable debris.
- 3.** The wastewater flows into clarifiers, which allow remaining solids to settle or float to the surface over several hours.
- 4.** These solids are pumped to a set of digesters where they are further broken down before being sent to a biosolids storage facility for fertilizer production. Bio-gas is produced during the digestion process and used within the plant.
- 5.** Liquid wastewater flows from the clarifiers into aeration tanks where air is added and bacteria "eat" any dissolved solids.
- 6.** Ferric chloride is added to remove phosphorus from the wastewater. Too much phosphorus can promote algae growth in our lakes and rivers.
- 7.** The wastewater is sent to the final clarifiers where the wastewater and bacteria-mixture separates.
- 8.** Chlorine is added to disinfect the wastewater, killing bacteria and viruses. The chlorine is removed before being safely returned to the nearest lake or river.

Public Information Centre #1: Frequently Asked Questions

Why do we need a new wastewater treatment plant? And why in South Niagara Falls?

Niagara Region is planning ahead with the cities of Niagara Falls and Thorold. Based on the province's *Places to Grow Act*, Niagara Region's *Niagara 2041* Municipal Review and the 2016 Master Servicing Plan Update, significant growth is coming to the region and specifically to the South Niagara Falls area. Our current sewer system and capacity to treat wastewater will not be enough to meet the growing demand coming from new communities, businesses and facilities (like the planned new hospital).

A plant needs to be close to the area and neighbourhoods that will need to have wastewater servicing to best collect the flows and minimize costs, so putting a plant near a growing community makes sense.

How will a new plant benefit the region?

A new wastewater treatment plant will be an asset to our community in many ways.

- Protect the Environment
 - Reduce pollution into rivers and the environment
 - Enhanced treatment technologies
- Provide Flexibility for the Future
 - Ensure the facility has the ability to respond to changing regulations and needs
 - Free up capacity in existing system such as the Stanley Ave. Wastewater Treatment Plant
- Accommodate Growth
 - Increase system capacity
 - Support economic development
 - Building Communities

Why can't you just expand the current Niagara Falls plant?

The option to expand the existing plant (Stanley Avenue) in Niagara Falls was considered under the 2016 Master Servicing Plan. Through the detailed evaluation process, it was decided that a new plant was more preferred in order to support growth specifically in south Niagara Falls, the challenges to increase capacity in the existing system and plant and to better manage wet weather flows.

South Niagara Falls Wastewater Solutions Municipal Schedule C Class Environmental Assessment

How will the new site be chosen?

The site for the new wastewater treatment plant will be chosen based on a number of different factors: size of land, current land use and use in surrounding areas, potential environmental and natural habitat impacts, proximity to water bodies, cultural and heritage impacts, and technical requirements.

How will this project benefit the environment?

This project will benefit the environment in several ways:

- New technology will be used where appropriate to enhance environmental protection
- System overflows are targeted to be reduced, minimizing the risk of contaminants entering into nearby creeks and streams

How much land do you need for the new plant?

The potential size for a new treatment plant is approximately 400m x 400m (16 hectares) or equal to almost 30 Canadian football fields worth of land.

Won't the plant be an eyesore in the neighbourhood?

Many wastewater treatment plants built today fit within their communities and from the road, passersby don't know they are near a plant.

Not only is a new plant an asset to a community, we will endeavor to design and construct it in a way that is aesthetically pleasing. We will consider the architecture, landscaping and more to ensure the new plant fits visually within the surrounding community.

Will the Region use land that it already owns?

It is too early in the process to know what location will be preferred for the new plant. Through the EA process, we will take into consideration many different factors like existing and surrounding land use, ownership and more.

South Niagara Falls Wastewater Solutions Municipal Schedule C Class Environmental Assessment

How will noise and odour, traffic and construction be managed?

The Region will ensure that social impacts including noise, odour, traffic and construction will be managed during the design, construction and implementation of this project. There have been many new advancements in technology to help reduce these impacts and they will be a key consideration in our planning.

How close might the plant be to residential neighbourhoods? Will it impact my property values? If so, will I be compensated?

The addition of a new plant is a positive investment for the surrounding area. We will consider how close it will be to residential areas during the evaluation process, and potential impacts to surrounding properties.

What is the timing of the project?

The project began with pre-consultation with key stakeholders in early spring 2019. Now and through the summer, the project team will be undertaking field and desktop investigations and working to identify and evaluate potential sites for the new plant and routes for wastewater collection and flows. By the end of 2019, we plan to have our second Public Information Centre and select a preferred site and sewer routes. From there, through to spring 2020, the focus will be on selecting the preferred technology and construction requirements, and demonstrating the timing for design and construction. The third PIC is planned to be at that time. By fall 2020, the Environmental Assessment Report is planned to be available for public review. The EA is planned to be completed by winter 2020. Post EA, design and construction is expected to start in 2023, with the plant being up and running by 2027.

APPENDIX D
PIC NO. 1 & COUNCIL SIGN-IN SHEET

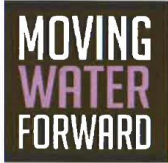


SIGN-IN SHEET

South Niagara Falls Wastewater Solutions
Municipal Schedule C
Class Environmental Assessment
Public Information Centre #1: May 28, 2019



Name	Address	Phone Number	Email (you consent to receive key project updates)	Would you like to be actively involved or just stay informed?
* Bill Savell	St. Cath Standard	905-304-5095	-	Informed <input type="checkbox"/> Involved <input type="checkbox"/>
Chris Campbell	GM Blue Plan		-	Informed <input type="checkbox"/> Involved <input type="checkbox"/>
Danielle Mackinnon	GM Blue Plan		-	Informed <input type="checkbox"/> Involved <input type="checkbox"/>
Michelle Mowe	RMON	905-650-7389	-	Informed <input type="checkbox"/> Involved <input type="checkbox"/>
[REDACTED]		[REDACTED]		Informed <input type="checkbox"/> Involved <input type="checkbox"/>
[REDACTED]	[REDACTED]	[REDACTED]		Informed <input checked="" type="checkbox"/> Involved <input type="checkbox"/>
[REDACTED]	[REDACTED]	[REDACTED]		Informed <input type="checkbox"/> Involved <input type="checkbox"/>
[REDACTED]	u	[REDACTED]	[REDACTED]	Informed <input checked="" type="checkbox"/> Involved <input type="checkbox"/>
[REDACTED]	[REDACTED]	[REDACTED]		Informed <input checked="" type="checkbox"/> Involved <input type="checkbox"/>



SIGN-IN SHEET

South Niagara Falls Wastewater Solutions
Municipal Schedule C
Class Environmental Assessment
Public Information Centre #1: May 28, 2019



Name	Address	Phone Number	Email (you consent to receive key project updates)	Would you like to be actively involved or just stay informed?
[Redacted]	[Redacted]	[Redacted]	[Redacted]@live.ca	Informed <input checked="" type="checkbox"/> Involved <input type="checkbox"/>
[Redacted]	[Redacted]	[Redacted]		Informed <input type="checkbox"/> Involved <input type="checkbox"/>
[Redacted]	[Redacted]	[Redacted]	[Redacted]@AOL.com	Informed <input checked="" type="checkbox"/> Involved <input checked="" type="checkbox"/>
[Redacted]	[Redacted]	[Redacted]		Informed <input type="checkbox"/> Involved <input type="checkbox"/>
[Redacted]	[Redacted]	[Redacted]		Informed <input type="checkbox"/> Involved <input type="checkbox"/>
[Redacted]	[Redacted]	[Redacted]		Informed <input type="checkbox"/> Involved <input type="checkbox"/>
Shahab Shafai	NR			Informed <input type="checkbox"/> Involved <input type="checkbox"/>
[Redacted]	[Redacted]	[Redacted]	[Redacted]@xplonnet.com	Informed <input checked="" type="checkbox"/> Involved <input checked="" type="checkbox"/>
				Informed <input type="checkbox"/> Involved <input type="checkbox"/>



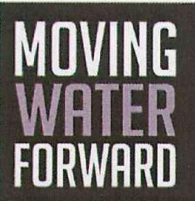
SIGN-IN SHEET

South Niagara Falls Wastewater Solutions
Municipal Schedule C
Class Environmental Assessment
Public Information Centre #1: May 28, 2019



Name	Address	Phone Number	Email (you consent to receive key project updates)	Would you like to be actively involved or just stay informed?
[Redacted]	[Redacted]	[Redacted]	[Redacted]@sympactics.ca	Informed <input type="checkbox"/> Involved <input checked="" type="checkbox"/>
[Redacted]	[Redacted]	[Redacted]	[Redacted]@cogeco.ca	Informed <input checked="" type="checkbox"/> Involved <input type="checkbox"/>
[Redacted]	[Redacted]	[Redacted]	[Redacted]@cogeco.ca	Informed <input checked="" type="checkbox"/> Involved <input checked="" type="checkbox"/>
				Informed <input type="checkbox"/> Involved <input type="checkbox"/>
				Informed <input type="checkbox"/> Involved <input type="checkbox"/>
				Informed <input type="checkbox"/> Involved <input type="checkbox"/>
				Informed <input type="checkbox"/> Involved <input type="checkbox"/>
				Informed <input type="checkbox"/> Involved <input type="checkbox"/>
				Informed <input type="checkbox"/> Involved <input type="checkbox"/>

Miscellaneous Person did not sign in.



South Niagara Falls Wastewater Solutions
Municipal Schedule C
Class Environmental Assessment
Council Drop-in Session: June 19, 2019

SIGN-IN SHEET -

Name	Address	Phone Number	Email (you consent to receive key project updates)	Would you like to be actively involved or just stay informed?
TOM INSINNA	220 Front St, F.E.	[REDACTED]	tom.insinna@niagararegion.ca	Informed <input checked="" type="checkbox"/> Involved <input type="checkbox"/>
Mary Blom	RMON	[REDACTED]		Informed <input checked="" type="checkbox"/> Involved <input type="checkbox"/>
Peter Churey	Headquarters	[REDACTED]		Informed <input checked="" type="checkbox"/> Involved <input type="checkbox"/>
Man Jenkins	408 Roland Rd	[REDACTED]	Pelham Mayor	Informed <input type="checkbox"/> Involved <input type="checkbox"/>
Bob Gale	Niag Region	[REDACTED]	bob.gale@niagararegion.ca	Informed <input type="checkbox"/> Involved <input type="checkbox"/>
TERRY UGULINI	CITY OF THOROLD	[REDACTED]	terry.ugulini@thorold.ca	Informed <input checked="" type="checkbox"/> Involved <input checked="" type="checkbox"/>
TIM RIGBY	CITY OF ST. CATH	[REDACTED]	tim.rigby@stniag.ca	Informed <input checked="" type="checkbox"/> Involved <input type="checkbox"/>
Phill Lambert	RMON	[REDACTED]		Informed <input checked="" type="checkbox"/> Involved <input type="checkbox"/>
				Informed <input type="checkbox"/> Involved <input type="checkbox"/>

APPENDIX E
PIC NO. 1 COMMENTS RECEIVED

COMMENT SHEET

Contact Information:

Name: [REDACTED]

Organization: ASI GROUP

Email: [REDACTED]@asi-group.com

Phone: [REDACTED]

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

Will there be any future information sessions once the ESA has been completed and a means of treatment has been decided upon? What will estimated MDE EFFLUENT CRITERIA LOOK LIKE AS THE SYSTEM WILL LIKELY DISCHARGE INTO NEARBY RECEIVING WATERS?

All comments and information received from individuals, stakeholder groups and agencies regarding this project are being collected under the authority of the "Municipal Act" to assist the Regional Municipality of Niagara in making a decision. Under the "Municipal Act", personal information such as name, address, telephone number, and property location that may be included in a submission becomes part of the public record.

COMMENT SHEET

Contact Information:

Name: [REDACTED]

Organization: *Niagara Falls Nature Club*

Email: [REDACTED]@cogeco.ca

Phone:

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

I am most concerned that natural areas are not impacted by this project.

All comments and information received from individuals, stakeholder groups and agencies regarding this project are being collected under the authority of the "Municipal Act" to assist the Regional Municipality of Niagara in making a decision. Under the "Municipal Act", personal information such as name, address, telephone number, and property location that may be included in a submission becomes part of the public record.

COMMENT SHEET

Contact Information:

Name: [REDACTED]

Organization: *farm resident*

Email: [REDACTED]@xplornet.com

Phone: [REDACTED]

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

You seem reluctant to even use the word agriculture or farmland.

The new plant should be located south of the Welland River in order to take development pressure off of the prime farmlands north of the Welland River.

The 1979 OMB decision on the Urban boundaries of the Region proved on page ¹² of expert witness testimony, that the soils & climate between W. Falls & Thorold including Thorold lands now being built on, have capability for plums, peaches, apples & Labrador grapes. Vinifera grapes are now also being grown here.

Young people want to farm in the subject area but cannot compete with land speculator prices.

Severe wetlands are still severe on Shroiners Creek. Eliminating wetlands should be a priority not capacity for new development.

All comments and information received from individuals, stakeholder groups and agencies regarding this project are being collected under the authority of the "Municipal Act" to assist the Regional Municipality of Niagara in making a decision. Under the "Municipal Act", personal information such as name, address, telephone number, and property location that may be included in a submission becomes part of the public record.

V4.5.2

REGIONAL MUNICIPALITY OF NIAGARA
SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

PIC Summary Reports

Public Information Centre No. 2 – November 20, 2019

Prepared By:



Regional Municipality of Niagara

South Niagara Falls Wastewater Solutions
Schedule C Class EA
PIC No. 2 Summary Report

GMBP File: 718002

November 2019

Niagara  Region

TABLE OF CONTENTS

1. BACKGROUND AND INTRODUCTION	1
1.1 Class EA Context	2
2. PUBLIC INFORMATION CENTRE NO. 2.....	4
2.1 Purpose.....	4
2.2 Notifications.....	4
2.2.1 Newspaper and Radio Advertisements.....	4
2.2.2 Online Advertisements.....	4
2.2.3 Mail Out	5
2.3 Date, Time, and Location	7
2.4 Media & Council Drop-in Session.....	7
2.5 PIC No. 2 Materials	7
2.5.1 Display Boards	8
2.5.2 Frequently Asked Questions.....	8
2.5.3 Information Brochure	8
2.5.4 PIC No. 2 Attendance	8
2.6 PIC No. 2 Facebook Live Event	9
2.7 PIC No. 2 Comments	9
3. NEXT STEPS	12

APPENDICES

APPENDIX A: NOTICE OF PUBLIC INFORMATION CENTRE NO. 2

APPENDIX B: PUBLIC INFORMATION CENTRE NO. 2 DISPLAY BOARDS

APPENDIX C: HANDOUT MATERIAL

APPENDIX D: SIGN-IN SHEET

APPENDIX E: COMMENTS RECEIVED

**SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS
SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT
PIC NO.2 SUMMARY REPORT**

REGIONAL MUNICIPALITY OF NIAGARA

NOVEMBER 2019

GMBP FILE: 718002

1. Background and Introduction

GM BluePlan Limited has been retained by the Regional Municipality of Niagara to undertake a Schedule C Class Environmental Assessment (Class EA) entitled South Niagara Falls Wastewater Solutions. This study will develop and implement a wastewater servicing strategy and conceptual design for a new wastewater treatment plant (WWTP) and associated collection and conveyance facilities in south Niagara Falls.

The study is being undertaken as a Schedule 'C' project in accordance with the requirements of the Municipal Class Environmental Assessment process, prepared by the Municipal Engineers Association (MEA) (October 2000, as amended in 2007, 2011 and 2015).

The objective of the South Niagara Falls Wastewater Solutions Class EA is to determine:

- Where to locate the new wastewater treatment plant in South Niagara Falls;
- Which body of water will receive the clean, treated water from the new plant; and,
- How best to integrate the wastewater network to address growth, make the system as efficient as possible, and manage wet weather.

The study area covers the southern area of Niagara Falls, specifically south of Lundy's Lane. This area was considered ideal to address projected growth based on the Niagara 2041 planning exercise and could include sanitary flows being directed from Thorold South and areas north of Lundy's Lane. This area encompasses various watercourses and waterbodies, including the Welland River, Hydro Electric Power Canal (Ontario Power Generation operations), Chippawa Creek, and Niagara River. The study area primarily covers industrial and commercial land use with moderate open space land designations.

A key part of the public consultation component is a Public Information Centre (PIC), which serves as a forum for information exchange between the public, stakeholders and the project team.

The PIC No.2 Summary Report represents one element of the overall Class EA documentation. The report documents the following:

- Information presented at PIC No. 2;
- Summary of attendance; and,
- Summarized table of comments received, and responses provided in order to track correspondence in a transparent and traceable manner.

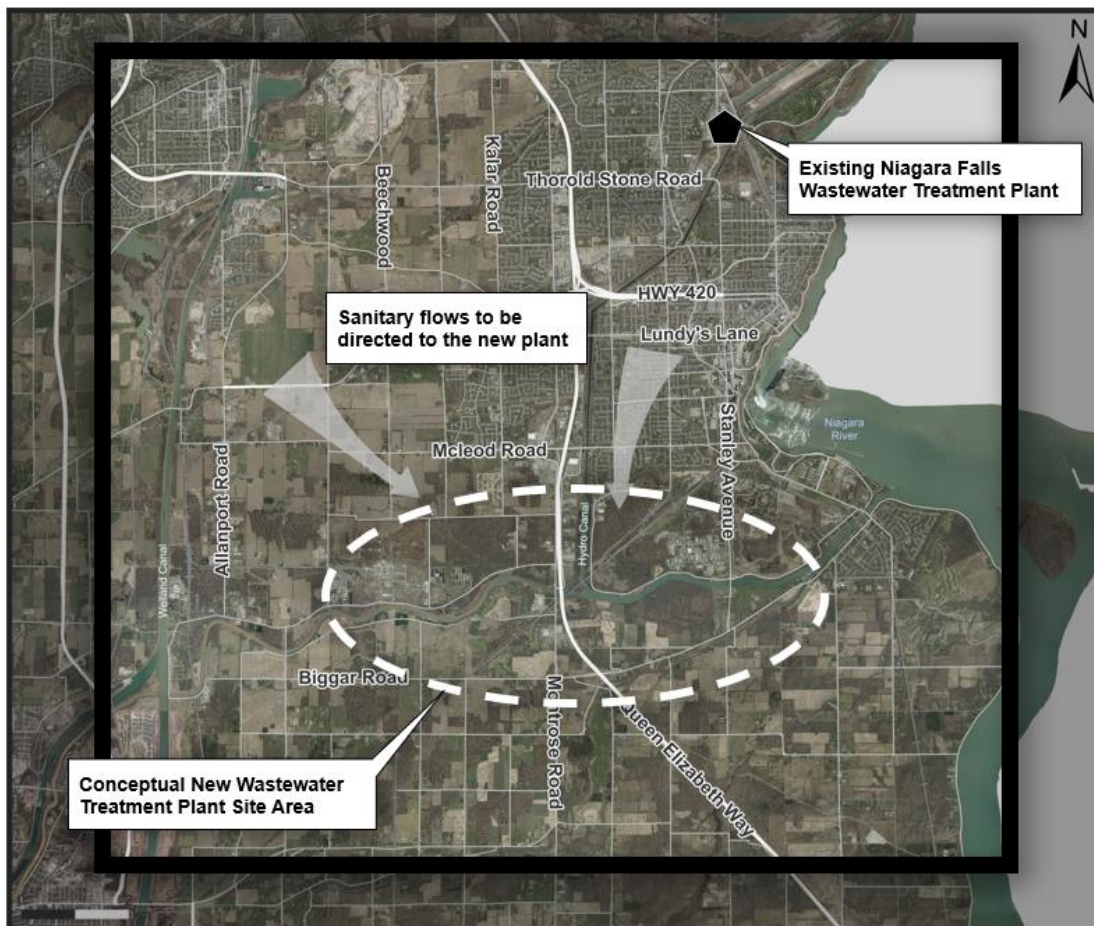


Figure 1 – Study area for the New Wastewater Treatment Plant

1.1 Class EA Context

The study involves completion of Phases 1 through 5 of the MEA Municipal Class EA Process. Public consultation is a vital component of the Class EA process and ensures transparency through encouraging stakeholder and public involvement.

The workplan initially planned for three (3) PICs. Given the complexity and integrated study components, the Project Team decided to include an additional information session ahead of evaluating the preliminary preferred solution (i.e. the wastewater treatment plant site; outfall location; and collection system strategy).

This strategy provides the public and stakeholders the opportunity to challenge and understand the detailed evaluation process. In total there are four (4) planned PICs.

The first PIC was held on May 28, 2019 to introduce the project; identify the problem and opportunity statement; and present baseline environmental features for the study area.

PIC No. 2 was held on November 20, 2019 as an additional information session. This event presented the long list of potential wastewater treatment plant sites and showed the Project Team’s proposed detailed evaluation and weighted criteria to select the preliminary preferred solution for the three project components.

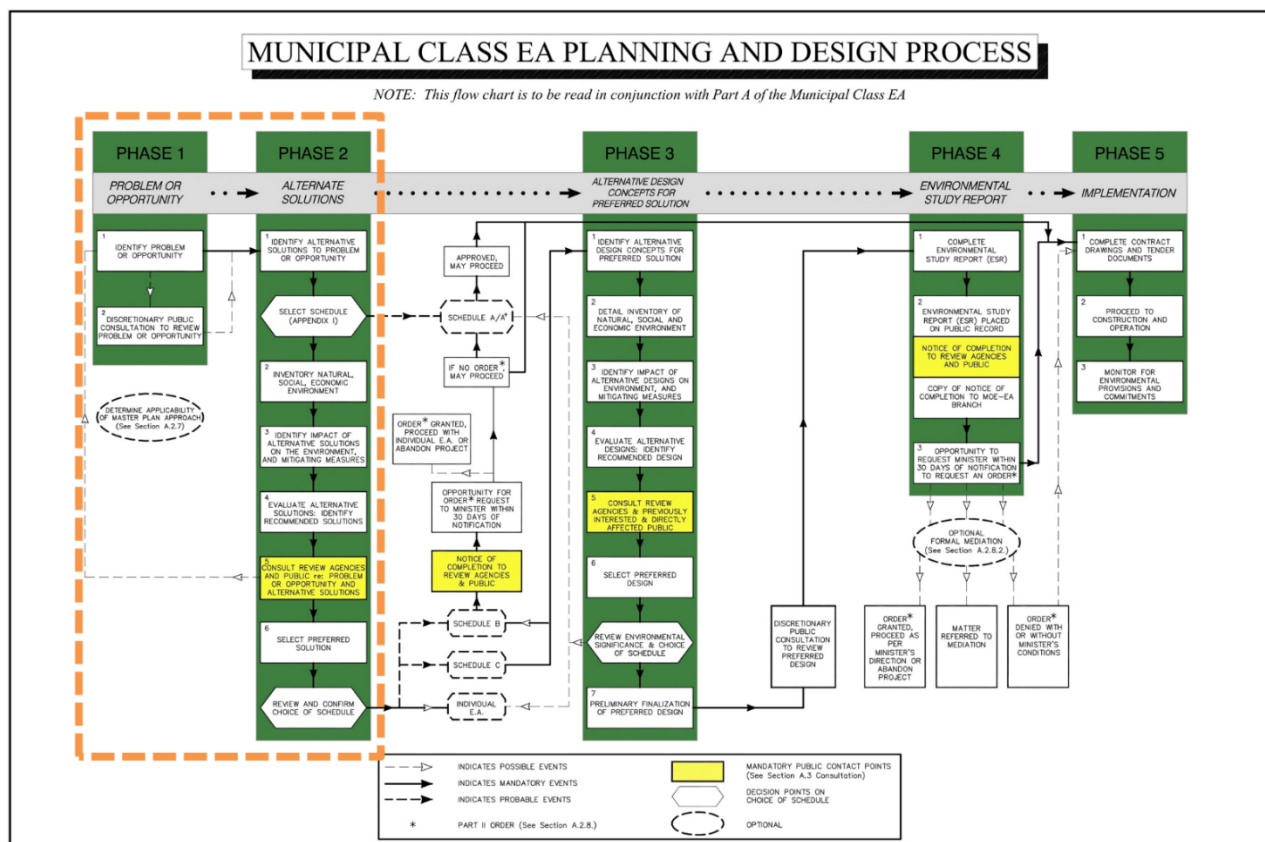


Figure 2 – This Figure illustrates the Municipal Class EA Planning and Design Process

2. PUBLIC INFORMATION CENTRE NO.2

2.1 Purpose

Public Information Centre No. 2 was held on November 20, 2019 and included the following:

- Presented the components for reviewing the alternatives:
 - Wastewater treatment plant site;
 - Outfall location and receiving waterbody; and,
 - Collection system strategy.
- Presented the long list of potential sites for the new wastewater treatment plant;
- Received feedback on the proposed weighted evaluation criteria; and,
- Received public input and answered questions.

2.2 Notifications

Stakeholders and the public were informed of the PIC by local newspaper advertisements, radio announcement, mail or e-mail (study contact list), Niagara Region Facebook and Twitter accounts, and through the Niagara Region website.

This study has enhanced notifications to better engage with the public on a larger platform. PIC No. 2 notification summary is available in Appendix A.

2.2.1 Newspaper and Radio Advertisements

The Notice of PIC No. 2 was first published on November 7, 2019. The Notice was included in the following publications:

- Niagara this Week – November 7, 2019
- Niagara Falls Review – November 9, 2019
- 101.1 More FM Radio Ad – November 8, 2019

2.2.2 Online Advertisements

The Region used additional methods of online publication. This involved the use of the Region's Twitter and Facebook accounts to better inform residents.

The notice was also posted on the Project Website. The website includes a sign-up option for the public to stay involved and receive future project notifications:

www.niagararegion.ca/projects/south-niagara-falls-treatment-plant/

In November 2019, the project website had 169 visits, 203 webpage views, 146 unique visitors, and 35 returning visitors.

2.2.3 Mail Out

The Notice of PIC No.2 was dated November 7, 2019 and mailed and/or e-mailed to local government, review agencies and other stakeholders. Notification was sent to the following groups:

Provincial

- Infrastructure Ontario
- Metrolinx/GO Transit
- Ministry of Agriculture, Food and Rural Affairs
- Ministry of Economic Development, Employment and Infrastructure
- Ministry of Indigenous Affairs
- Ministry of Infrastructure
- Ministry of Municipal Affairs and Housing
- Ministry of Natural Resources and Forestry
- Ministry of the Attorney General
- Ministry of the Environment, Conservation and Parks
- Ministry of Tourism, Culture and Sport
- Ministry of Transportation
- Niagara Escarpment Commission
- Niagara Falls Bridge Commission
- Niagara Parks Commission
- Ontario Provincial Police
- Peace Bridge Authority

Federal

- Canadian Environmental Assessment Agency
- Canadian Section, International Niagara Board of Control
- Department of Fisheries, Oceans and the Canadian Coast Guard
- Department of Indigenous and Northern Affairs
- Federal Economic Development Agency for Southern Ontario
- Health Canada
- Transport Canada, Environment and Engineering
- Transport Canada, Navigable Water Protection Program

Indigenous Communities

- Haudenosaunee Confederacy Chiefs Council
- Mississaugas of the Credit First Nation
- Six Nations of the Grand River

Conservation Authorities

- Niagara Peninsula Conservation Authority

Rail/Transit

- Canada Pacific Railway
- CN Rail
- Go Transit
- TransCanada Pipelines

Utilities

- Bell Canada
- CAA Niagara
- Canadian Automobile Association- South Central Ontario
- Cogeco Cable Niagara
- Canadian Niagara Power Inc.
- Enbridge Gas Distribution Inc.
- Enbridge Pipelines Inc.
- Grimsby Power Incorporated
- Hydro One Networks - Zone 2 Scheduling
- Niagara Peninsula Energy Inc.
- Niagara Region Broadband Networks
- Ontario Power Generation

School Boards

- Brock University
- Conseil Scolaire Viamode
- Conseil Scolaire Catholique MonAvenir
- District School Board of Niagara
- Niagara Catholic District School Board
- Niagara College

EMS and Health

- Niagara Emergency Medical Services
- Niagara Health System
- Niagara Regional Police
- City of Niagara Falls

Interest and Stakeholder Groups

- Niagara Home Builders Association
- Ontario Wine Country
- Regional Niagara Bicycling Committee
- Greater Niagara Chamber of Commerce
- Media
- CRH Canada/Dufferin Construction
- Citizens Against Unsanitary Sewage Effluent
- Lundy's Lane BIA
- New South Niagara Hospital
- ASI Group
- Parks in the City Committee
- Cogeco

Local Municipal: Mayors/Clerks/Councillors/Directors

- City of Niagara Falls
- City of Port Colborne
- City of St Catharines
- City of Thorold
- City of Welland
- Town of Fort Erie

- Town of Grimsby
- Town of Lincoln
- Town of Niagara-on-the-Lake
- Town of Pelham
- Township of Wainfleet

Property Owners

The Notice of PIC No.2 was sent to all properties identified within the long-list of preliminary wastewater treatment plant sites (10 sites). A total of sixteen (16) property owners received notification of PIC No.2.

Residents

Forty-Nine (49) residents requested to be added to the stakeholder list (via the project website, direct email, or previous PIC) prior to November 7, 2019. These residents received notification of PIC No.2

2.3 Date, Time, and Location

PIC No. 2 was held within the City of Niagara Falls at the MacBain Community Centre. The SNF Team hosted the public event at the closest available facility to the immediate study area. Table 1 identifies the date, time, and location details for PIC No. 2.

Table 1. PIC No. 2 Information

Public Information Centre No. 2	
Date / Time	Wednesday November 20, 2019 Media/Council Review – 4:00 to 5:00 p.m. Public Review – 5:00 to 7:00 p.m.
Location	MacBain Community Centre – Coronation Room 7150 Montrose Road, Niagara Falls, ON, L2H 3N3

2.4 Media & Council Drop-in Session

On November 20, 2019, an hour was dedicated to Media & Council review. This session was an opportunity for media and council members to have one-on-one consultation with the Project Team to ask questions, review the PIC No. 2 content including the long-list of potential wastewater treatment plant sites, and understand next steps.

2.5 PIC No. 2 Materials

The following materials were made available to attendees during the PIC event and through the Project Website.

2.5.1 Display Boards

The information presented on the Display Boards at PIC No. 2 included:

- Municipal Class EA Process and Consultation;
- Study Area and Growth and Planning Forecasts;
- Existing Sanitary System;
- Study Area Features;
- Components Required for the Overall Strategy;
- Conceptual Outfall Locations and Water Quality;
- Long List of Potential Sites for the New Wastewater Treatment Plant
- Evaluation Process;
- Proposed Weighted Evaluation Criteria and Evaluation Tables;
- Background Technical Considerations for Wastewater Treatment Plants;
- Example Wastewater Treatment Plant Layouts; and,
- Next Steps & Involvement.

2.5.2 Frequently Asked Questions

A handout was provided to all attendees, and uploaded to the Project Website, that outlined questions previously received or anticipated from the Project Team. Example content included: potential odour/noise/property/traffic impacts; why a wastewater treatment plant is needed; project benefits; and detailed project timing.

2.5.3 Information Brochure

PIC attendees received an information brochure which provided: an introduction to the study; the overall purpose and objectives; overview of the wastewater treatment process; project timeline; and project manager contact information.

2.5.4 PIC No. 2 Attendance

A total of thirty-four (34) people attended PIC No. 2, counting only those who signed in. Representatives from Niagara Region, GM BluePlan, Golder Associates, CIMA and Redbrick Communications were present to provide information and answer questions

2.6 PIC No. 2 Facebook Live Event

GM BluePlan hosted a live event from the Niagara Region’s Facebook page an hour before the scheduled PIC. This allowed members of the public to virtually join in discussions and have questions answered in real time.

GM BluePlan provided a Class EA update and walked through the display materials including: the long list of potential wastewater treatment plant sites; the proposed detailed evaluation process and weighted criteria that will be used to select a preliminary preferred solution.



Lisa Vespi from Niagara Region and Chris Hamel from GM BluePlan Engineering during the PIC No. 2 Facebook Live event

A total of 1,314 people viewed the Facebook live feed. The video reached an estimated 3,700 people.

The PIC No. 2 Facebook Live statistics include:

- Average watch time: 0:13
- 3-second video views: 1,314
- Overall estimated reach: 3,700
- 10-second video views: 436
- 1-minute video views: 87
- Total minutes viewed: 670
- Peak live viewers: 7
- Comments: 0
- Shares: 7
- Reactions: 15 (these are thumbs up)

2.7 PIC No. 2 Comments

Attendees were encouraged to provide comments related to the Class EA in writing. Comments may be submitted via comment sheets, phone, emails, and letters. These comments are then reviewed and considered by the Project Team to inform the decision-making process. The Project Team responded to all questions which required follow-up. A summary of the comments received relating to PIC No. 2 event are shown below.

Table 2. Summary of PIC No. 2 Comments Received

No.	Correspondent	Type	Comment	Date Received	Status/ Response
1	[REDACTED]	Comment Sheet	Property owner requested to remain on contact list regarding land between potential sites [REDACTED]	20-Nov-19	Property owner to be contacted if feasible.
2	[REDACTED] Property Owner	Comment Sheet	Property owner requested to remain on contact list regarding [REDACTED] (Beside [REDACTED] who are selling).	20-Nov-19	Property owner to be contacted if feasible.
3	[REDACTED] Resident	Comment Sheet	Expressed concern for impact to agriculture. Resident suggested the Existing Sanitary System Map should include Separated Sewer Overflows near Shiners and Beaverdam Creek. Resident also suggested that the location of the new plant should be south of the Welland River to protect the grape and fruit lands of the Haldimand Clay Region.	20-Nov-19	Residents comments taken into consideration.

No.	Correspondent	Type	Comment	Date Received	Status/ Response
4	██████████ Resident	Letter Delivered at PIC	Expressed concern that the study does not include Fort Erie and the need to decommission the Stevensville/ Douglstown Sewage Lagoon. Requests that a written response be issued.	20-Nov-19	Region issued direct response during the PIC. Comments filed.
5	Anonymous	Comment received via Interactive Display Board	Attendee requested reassurance that the new wastewater treatment plant would fit in with the neighborhood and community.	20-Nov-19	Attendees comments taken into consideration.
6	Anonymous	Comment received via Interactive Display Board	Attendee agreed that the criteria selected for the evaluation process made sense to the general population.	20-Nov-19	Attendees comments taken into consideration.
7	Anonymous	Comment received via Interactive Display Board	Attendee requested that future public information centers provide refreshments.	20-Nov-19	Attendees comments taken into consideration.
8	Anonymous	Comment received via Interactive Display Board	Attendee expressed concerns regarding the impact on agricultural overflow illustrations and reducing the costs of pumping stations.	20-Nov-19	Attendees comments taken into consideration.

3. NEXT STEPS

Following the second round of public consultation, the project team will:

- Review and consider the input received during the event and through comments sheets;
- Respond to comments when required;
- Evaluate the list of potential sites for the new wastewater treatment plant;
- Select the preliminary preferred site for the new wastewater treatment plant, outfall location, and the associated collection system strategy;
- Continue to work with review agencies and stakeholders;
- Prepare and advertise for PIC No.3; and,
- Collect additional comments and input.

APPENDIX A
NOTICE OF PIC NO. 2

NOTICE OF PUBLIC INFORMATION CENTRE #2 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

We want to hear from you. Get involved in Niagara's future.

THE STUDY

Niagara Region is planning ahead. We are working with the Cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls. We are also studying how we can make the overall sewer system better.

PUBLIC CONSULTATION

Your input is important throughout the process. You are invited to a Public Information Centre (PIC) to learn more about the study.

Date: Wednesday Nov. 20, 2019

Time: 5 - 7 p.m.

Location: MacBain Community Centre
(Coronation Room) - 7150 Montrose
Road, Niagara Falls, ON L2H 3N3

Format: Open House

Facebook Live Video: 3 - 4 p.m.

View video by visiting Niagara Region's Facebook page

The public will be able to see the long list of potential sites for the new wastewater treatment plant as well as have the chance to comment and provide input into the evaluation process and criteria. Your feedback will help the team evaluate the preferred site, outfall location and sewer routes.

This notice was first issued on Nov. 7, 2019.

PROJECT BENEFITS:

- Better protect the environment
- Create new jobs and infrastructure to support new local investment
- Ensure our management of wastewater is more efficient and effective

CONTACT

Ms. Lisa Vespi, P.Eng., PMP
Niagara Region Project Manager
Niagara Region
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario, L2V 4T7
New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.
Consultant Project Manager
GM BluePlan Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
Phone: 416-703-0667
Email: Chris.Hamel@gmblueplan.ca

If you require any accommodations for a disability in order to attend and participate in meetings or events, contact the Niagara Region's Accessibility Coordinator at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca.

Information will be collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

MOVING WATER FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE #2 MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

ABOUT THE STUDY

Niagara Region is planning ahead. We are working with the cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls, and to improve the sewer system. As a result, We will be better able to protect the environment, create new jobs and infrastructure to support new local investment and ensure our management of wastewater is more efficient and effective.

AT THE PUBLIC INFORMATION CENTRE

Learn more about the Environmental Assessment process and the need for the project. The public will be able to see the long list of potential sites for the new wastewater treatment plant as well as have the chance to comment and provide input into the evaluation process and criteria. Your feedback will help the team evaluate the preferred site, outfall location and sewer routes.

PUBLIC INFORMATION CENTRE

Wednesday, Nov. 20, 2019 | 5 – 7 p.m.

MacBain Community Centre, Coronation Room
7150 Montrose Road, Niagara Falls, ON L2H 3N3

If you require any accommodations for a disability in order to attend and participate in meetings or events, contact the Niagara Region's Accessibility Coordinator at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca.

Information will be collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

Contact Lisa Vespi, Project Manager: 905-980-6000 ext. 3640 or New.Treatment.Plant@niagararegion.ca

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

Niagara  Region

niagararegion.ca/projects/south-niagara-falls-treatment-plant

NEWS

IRON SCOW SHIFTS

Continued from page 4

loss of a major attraction" if it went over the falls.

Despite considerable deterioration over the years, the scow has "miraculously clung to its perch" since breaking loose from its towing tug on Aug. 6, 1918 about a mile up river during a dredging operation, the Parks said.

The drama that unfolded over the next two days is legendary. Gustav Lofberg and James Harris, two terrified men trapped in the scow as it hurtled downriver made a desperate move.

"They realized what was about to happen unless they did something, so they had the presence of mind enough to open the dumping doors," said Zavitz. By flooding the scow's compartments, the two men bought themselves time - but how much time was anyone's guess.

"They had no idea how long they had," said Zavitz. "At any moment it could break loose. It's a very powerful current there."

Famous riverman William "Red" Hill Sr. who had just returned from the First World War, the Niagara Falls fire and police departments, the U.S. Coast Guard and the Niagara Parks Police rallied to attempt a rescue operation.

A lifeline cannon, rushed to the scene by the U.S. Coast Guard, was able to shoot a line from the roof of the powerhouse out to the stranded men, the Parks said. Harris and Lofberg tied this light rope to a crude windlass they had constructed. A heavier rope was then tied to the lifeline.

At 9:30 p.m. that evening, a canvas suspended from a pulley, known as a breeches buoy, was put in place on the heavy rope, the Parks said. With the cooperation of The Niagara Parks Police, The Niagara



Niagara Parks

Jim Hill, senior manager of heritage for the Niagara Parks, is shown in front of the iron scow on Friday as he described in a video on Twitter how the scow has shifted and moved downriver from the spot where it was perched for more than a century.

Falls fire and police departments and hydro workers on the powerhouse roof, they began to move the breeches buoy out to the scow.

But Zavitz said the breeches buoy soon got snagged by a tangle in the line. The Parks said a "loud groan of despair" rippled through the large crowd of spectators watching the drama unfold. "There were no helicopters back then to rescue them," said Zavitz.

Lofberg, 51, and Harris, 53, spent a white-knuckled night in the darkness with what the Parks termed "torturous" rapids raging around them, not knowing if their scow would be swept over the falls. The scow held firm, and the next morning Hill - who had been wounded and gassed in France - courageously went out over the rapids to untangle the lines with the beam of a search light following him, the Parks said.

"If it hadn't been for

(Hill's) willingness, the story might not have had such a happy ending," said Zavitz.

A century later, on Aug. 6 of last year, Niagara Parks celebrated the anniversary of the iron scow and officially recognized the heroism of Hill for his daring part in the rescue.

Aerial footage taken of the scow during last year's centennial showed there was still a lot of the scow left, said Hill.

For many years Canadians had a great view of the scow, he said "(But) it's been deteriorating badly."

"Will it stay in place?" asked Hill. "It could be stuck there for days or it could be stuck there for years. It's anyone's guess."

Part of the anniversary celebration was the unveiling of a set of interpretive panels along the river that tell the story of how the scow became stranded and the "harrowing" rescue that took place, the Parks said.

LETTERS

Councillors absent from condo meeting

Re: Residents' 'dead set' against condo tower plan next to Niagara River gorge, Nov. 4

The River Road residential area has been the focus of recent meetings at Niagara Falls council. The first was concerning Airbnbs, which are operating outside of the city's current bylaw. Residents expressed concern as to why this situation has been allowed to develop. Coun. Wayne Campbell had a motion to enforce the bylaw. Logical. It was defeated. The next step is for presentation of a zoning application at council this month that will allow the proponent to conform if it is given approval.

Last Monday, there was a public meeting regarding a 37-storey, 109-metre condo development planned for River Road.

This, too, upset residents in the immediate vicinity. View blockages, setting a precedent for further development, handling of extra traffic, whether affordable housing is in the mix and especially the guarantees that 100-year-old-plus houses will not suffer damage during the building process were highlighted. The character and atmosphere of the area is under threat with this proposal. Only three councillors were in attendance at this meeting: Campbell, Carolyn Ioannoni and Lori Lococo. Is it a coincidence the remaining six were absent? Perhaps they are already fully informed.

Ross Smith
Niagara Falls

Regional councillors knew what the pay was

Re: Committee recommends new method for council pay increases, Nov. 6

Congratulations to Niagara regional council: it found a committee to recommend a substantial increase to its salaries and avoided having to do so itself. I cannot see why councillors ran for election if they knew the job was almost full time and the salary was only \$37,000-plus, along with whatever additional benefits that are not shown. I would suggest if they are not happy with the salary, and they compare their work to that done by non-union staff, that they do as non-union staff would and find a better job elsewhere. When they ran for

council, they knew what the salary was and accepted it. If it was not satisfactory, they should not have run. Although, I must commend regional chair Jim Bradley for refusing an increase; I would suggest a salary of \$136,000 plus benefits is pretty good. Perhaps regional council should agree with Bradley, who said they knew what the salary was when they were elected and should accept it. As a taxpayer, I am tired of being financially bled by various governments.

Politicians always have excuses for recommending spending increases but never accept fault. I would suggest all taxpayers inform regional councillors that they have had enough and won't tolerate any more salary increases.

Thomas Bell
St. Catharines

Ontario pit bull ban necessary

Re: Ford government should move on ending illogical pit bull ban, Oct. 28

Unlike the gift horse, we must look a dog in the mouth!

When a friend invited me to an Easter Egg Hunt she had created for her grandchildren, I brought my cocker spaniel along. My friend had carefully hollowed out and painted numerous eggs and hid them all over her very large backyard. Within minutes my dog had picked up one of those eggs, and when I called him, he ran over to me, egg in mouth.

To my amazement, there wasn't a single crack in that egg! Why? Because the cocker spaniel has a very soft mouth.

We ban the pit bull because when they clamp down on something — Easter egg or grandchild — it's virtually impossible to pry that mouth open. Thus the harm done is often devastating. We must continue to ban the pit bull.

Miriam Gersho
St. Catharines

WE WANT TO HEAR FROM YOU

We welcome letters from our readers. Please limit submissions to no more than 300 words and send them to letters@niagaradailies.com or mail to 55 King St., Suite 600, St. Catharines, Ont., L2H 3HR. Letters may be edited for length and clarity. Please include your name, address and phone number for verification purposes.

RBC Dominion Securities Inc.

Estate planning strategies & the role of the executor

A complimentary educational seminar

Please join us for an in-depth discussion on estate planning strategies related to retirement savings. We'll cover how to avoid common mistakes and reduce probate tax, as well as what to expect when you are named an executor.

Wednesday, November 13, 2019

7:00 p.m. – 9:00 p.m.

Best Western Hotel & Conference Centre
2 North Service Rd. | St. Catharines, ON

Your host:

Mark Murphy, PFP
Investment Advisor | RBC Dominion Securities

Guest speakers:

Tanja Mirazic
District Vice-President | Manulife Investments

Jon Hreljac, CPA, CMA, CFP, TEP

Area Vice-President Regional Tax, Retirement and Estate Planning Services
Manulife Investments

RSVP for you and a guest to Karyn at
905-988-5991 or karyn.buxton@rbc.com by November 5.

If you already have an RBC Investment Advisor, please contact him or her about your estate planning needs.

Sponsored in part by: Manulife Investment Management



Manulife, Manulife Investment Management, the Stylized M Design, and Manulife Investment Management & Stylized M Design are trademarks of The Manufacturers Life Insurance Company and are used by it, and by its affiliates under license. Manulife Investment Management is a trade name of The Manufacturers Life Insurance Company. RBC Dominion Securities Inc. and Royal Bank of Canada are separate corporate entities which are related. Member-Canadian Investor Protection Fund. RBC Dominion Securities Inc. is a member company of RBC Wealth Management, a business segment of Royal Bank of Canada. © / ™ Trademark(s) of Royal Bank of Canada. Used under license. RBC Dominion Securities Inc. All rights reserved. www.rbc.com

MONUMENTS
\$2,550 plus HST

Any in stock color
Serp 36" x 24"
On a 42 inch base
until November 30th

Price includes lettering and delivery anywhere in Southwestern Ontario
HST, Cemetery fees & Foundation Extra
WWW.MONUMENTMAKER.CA

GLENMOUNT MEMORIALS 3114 Hwy 3 East, Port Colborne 905.834.9587	GLENMOUNT MEMORIALS 301 Aqueduct Street, Welland 905.735.9717
THE STONE CENTRE 209 Carlton Street, St Catharines 905.688.2477	NIAGARA CEMETERY MEMORIALS 4771 Valley Way, Niagara Falls 905.357.4545

Brock University

THE 19TH ANNUAL
Terry O'Malley Lecture
in Marketing & Advertising

Thursday, Nov. 14, 2019
7:30 pm, Sean O'Sullivan Theatre
Dave Lafond
President and Co-Founder, No Fixed Address
'Built From Scratch – An Entrepreneur's Journey'

The event is free, but tickets are required.
Please visit brocku.ca/omalley to order your tickets.
The Department of Communication, Popular Culture and Film is pleased to host this annual lecture.

MOVING WATER FORWARD

**NOTICE OF PUBLIC INFORMATION CENTRE #2
MUNICIPAL SCHEDULE 'C'
CLASS ENVIRONMENTAL
ASSESSMENT**

SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

ABOUT THE STUDY
Niagara Region is planning ahead. We are working with the cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls, and to improve the sewer system. As a result, we will be better able to protect the environment, create new jobs and infrastructure to support new local investment and ensure our management of wastewater is more efficient and effective.

AT THE PUBLIC INFORMATION CENTRE
Learn more about the Environmental Assessment process and the need for the project. The public will be able to see the long list of potential sites for the new wastewater treatment plant as well as have the chance to comment and provide input into the evaluation process and criteria. Your feedback will help the team evaluate the preferred site, outfall location and sewer routes.

PUBLIC INFORMATION CENTRE
Wednesday, Nov. 20, 2019 | 5 – 7 p.m.
MacBain Community Centre, Coronation Room
7150 Montrose Road, Niagara Falls, ON L2H 3N3

If you require any accommodations for a disability in order to attend and participate in meetings or events, contact the Niagara Region's Accessibility Coordinator at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca.

Information will be collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

Contact Lisa Vespi, Project Manager: 905-980-6000 ext. 3640 or New.Treatment.Plant@niagararegion.ca

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES
Niagara Region
niagararegion.ca/projects/south-niagara-falls-treatment-plant



LEARN MORE ABOUT THE NEW WASTEWATER TREATMENT PLANT IN SOUTH NIAGARA FALLS

[News Home](#)

[More from Local News](#)

Friday, November 8th, 2019 6:00am

By Marcie Culbert



A new wastewater treatment plant is in the works in the south end of Niagara Falls.

The Niagara Region will be hosting a public information centre about it on Tuesday November 20th.

It's happening at the MacBain Community Centre, with everything getting started at 5:00 p.m. and wrapping up by 7:00 p.m.

Residents will be able to learn more about the project, check out the long list of potential locations and provide their input.



Share



Niagara Region @NiagaraRegion · Nov 20, 2019

This is happening today from 3-4 p.m. Head over to the #Niagara Region Facebook page to watch the live stream about the new wastewater treatment plant in the South Niagara Falls area



Niagara Region @NiagaraRegion · Nov 19, 2019

We're hosting a Facebook Live (facebook.com/niagararegion/) tomorrow (Nov. 20, 3-4 p.m.) at the second public information centre for a new wastewater treatment plant in the South Niagara Falls area. Check out the display boards now and prepare your questions: bit.ly/2KC6WRZ



1



Niagara Region
@NiagaraRegion

The second public information centre for a new wastewater treatment plant in South @NiagaraFalls is scheduled for Nov. 20 (5-7 p.m.) where we will share the long list of potential sites and you can provide your input on the evaluation process/criteria bit.ly/2Caxrtf



1:33 PM · Nov 4, 2019 · [TweetDeck](#)

2 Retweets 7 Likes





Niagara Region updated the event cover photo in Public Information Centre #2 - South Niagara Falls Wastewater.



November 4, 2019 · 🌐



👍 Like

💬 Comment



Niagara Region



April 12, 2019 · 🌐

We're planning ahead!

Significant growth is coming to the South Niagara Falls area by 2041, and there will soon be a need to improve our sewer system and build a new wastewater treatment plant.

An important study is underway to find a suitable location and plan how we can make our overall system better.

<https://bit.ly/2Z5rdVPf>

MOVING WATER FORWARD

By 2041
64%

of total expected growth (population and employment) in Niagara Falls will occur in **South Niagara Falls**

👍 3

5 Comments 2 Shares

👍 Like

💬 Comment

➦ Share

Page South Niagara Falls Wastewater Solutions - Niagara Region, Ontario https://www.niagararegion.ca/projects/south-niagara-falls-treatment-plant/default.aspx	Period November 2019	Filter External Only
--	--------------------------------	--------------------------------

Page Overview

Historical Comparison

Compare to Align weekdays No

Visits 169 +77 ?	Page views 203 +91 ?	Unique visitors 146 +64 ?	Returning visitors 35 +4 ?	Bounce rate 65.18% -4.05 ?
-------------------------------	-----------------------------------	--	---	---



Most Frequent

 From Canada	 Using Desktop	 Operating system Windows 10	 Browser Chrome 78.0	 Resolution 1920 1080
--	--	--	--	---

APPENDIX B
PIC NO. 2 DISPLAY BOARDS

South Niagara Falls Wastewater Solutions Schedule C Class Environmental Assessment

Public Information Centre No. 2

Wednesday, November 20, 2019

5:00 to 7:00 p.m.

MacBain Community Centre – Coronation Room



Please sign in and take a comment sheet.

Meeting is a “drop-in” format with display materials.

Take an information bulletin and review the display materials.

Members of the study team are available to answer questions.

We welcome your feedback as your opinion can influence this study.

Please place comment sheets in the box provided.

Please note that photos and videos will be taken during this event. If you have any concerns, please speak to a member of the project team.



Themes for today's Public Information Centre

1. Present the components for reviewing the alternatives:
 - Treatment plant site
 - Collection system strategy
 - Outfall location and receiving waterbody
2. Present the long list of holistic strategies and reasonable alternatives
3. Provide clarity on the process for developing and evaluating alternatives
4. Receive feedback on the proposed evaluation criteria and weighting



South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment



Background and Study Purpose

Foundation for this Study: The Niagara Region Water and Wastewater Master Servicing Plan Update (MSP 2017)

Key issues addressed by the MSP (2017):

- Accommodating growth
- Improving and increasing capacity in the existing sanitary and combined stormwater systems
- Managing wet weather flows

Preferred Solution from the MSP (2017):

- Build a new wastewater treatment plant in South Niagara Falls
- Improve the existing sewer system and connect it to the new plant

The Master Servicing Plan Update was adopted by Niagara Region Council in 2017.

The purpose of the South Niagara Falls Wastewater Solutions Class EA is to determine:

- Where to locate the new wastewater treatment plant in South Niagara Falls
- Which body of water will receive the clean, treated water from the new plant
- How best to integrate the wastewater network to address growth, make the system as efficient as possible, and manage wet weather

This is defined as the Problem Opportunity Statement under the Class EA process



South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment



Protect the Environment

- Reduce pollution into rivers and the environment
- Minimize flooding

Provide Flexibility for the Future

- Ensure the facility has the ability to respond to changing regulations and needs
- Free up capacity in existing infrastructure such as the Stanley Ave. Wastewater Treatment Plant

Accommodate Growth

- Increase system capacity
- Support economic development

Establish the new Wastewater Treatment Plant as a Community Asset

- Ensure the new facility fits well within the local community
- Engage the local technical & academic community in the solution
- Mitigate and manage issues such as odour, noise and traffic

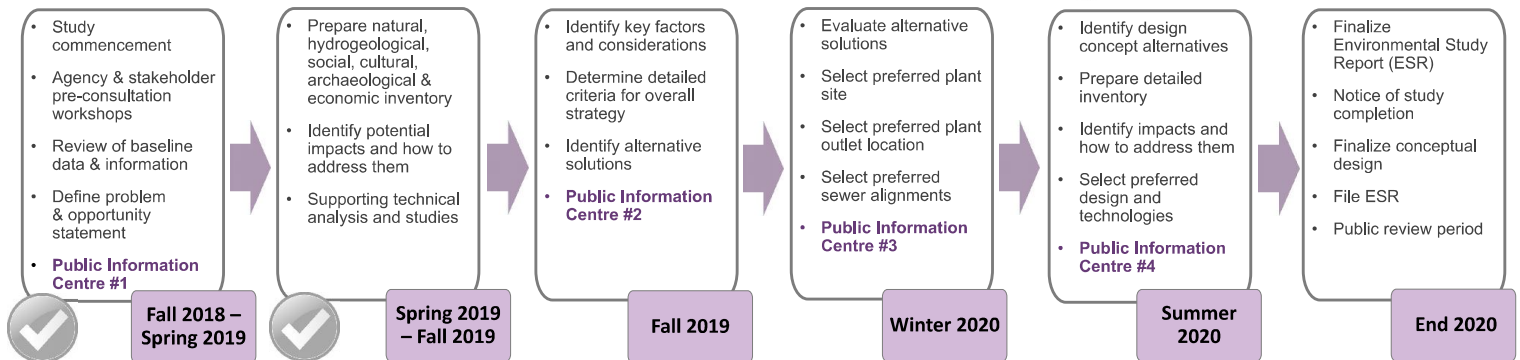
(Find out more about what this EA plans to achieve at: www.niagararegion.ca/projects/south-niagara-falls-treatment-plant)



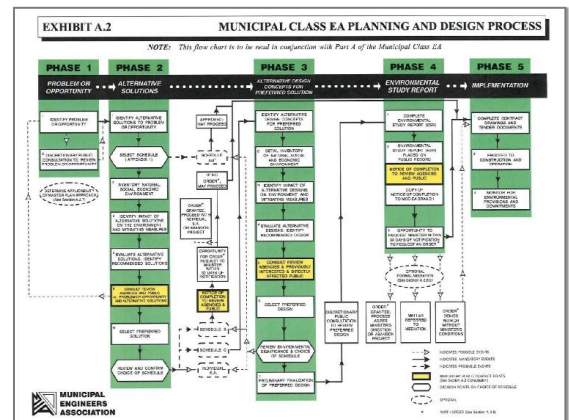
South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment



Environmental Assessment Process and Timeline

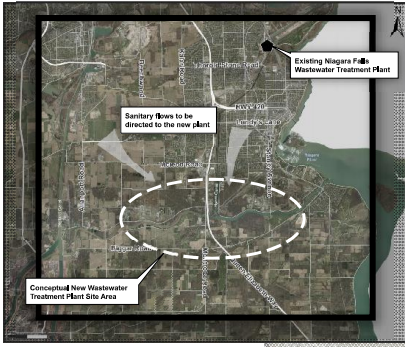


Provincial Process
This project is following the **Class Environmental Assessment** process, which is a decision-making process that all Ontario municipalities follow for building new infrastructure.

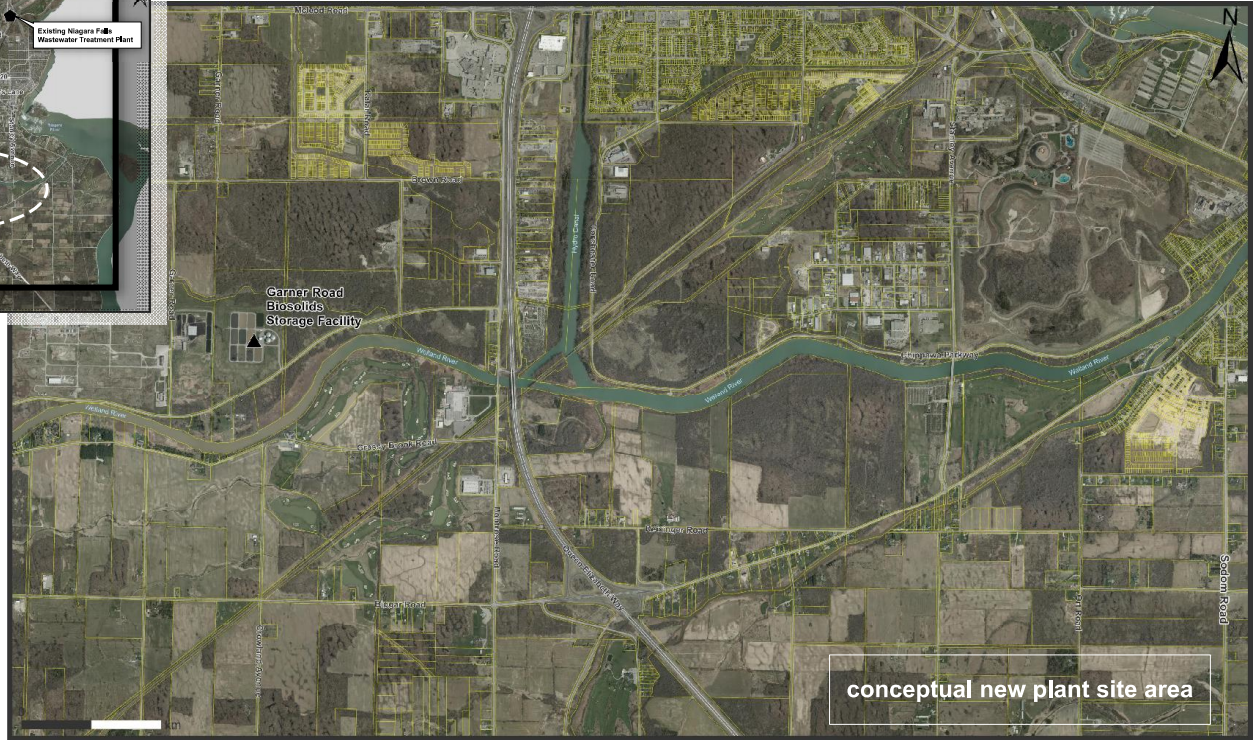


South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment





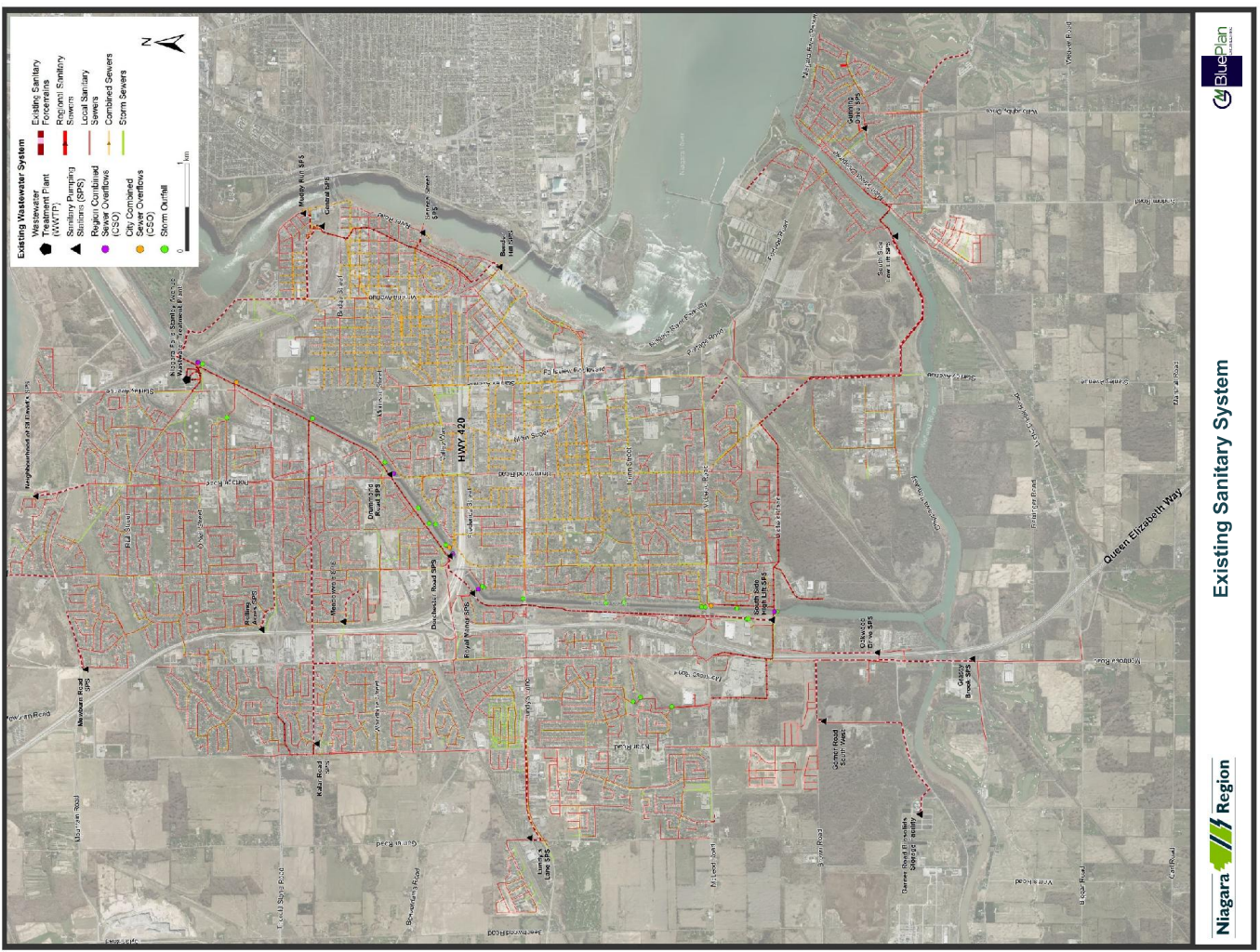
full EA study area

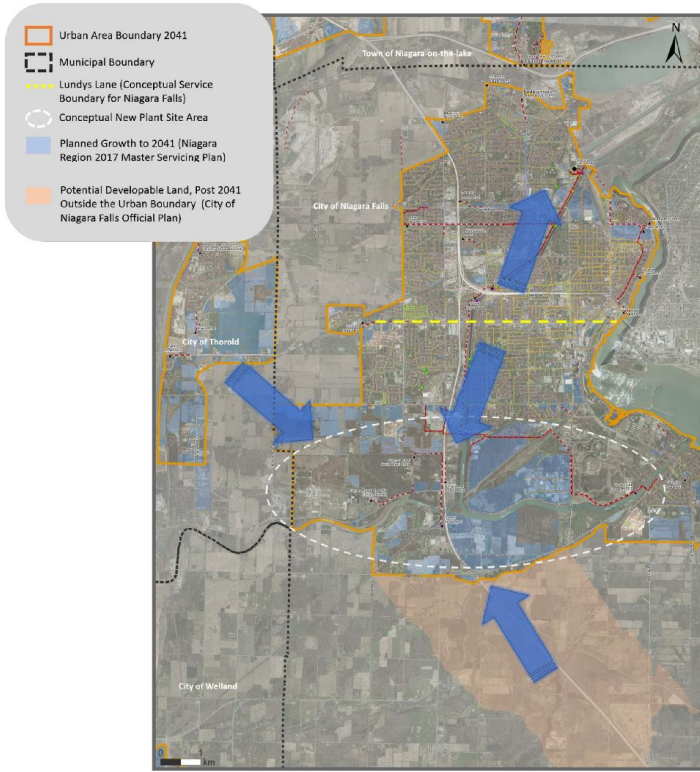


conceptual new plant site area



South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment





	Today	2041
Total City of Niagara Falls People and Jobs	130,837	185,310
People and Jobs to new Wastewater Treatment Plant	53,467	85,292
Approximate Average Daily Flow Projections	11 MLD	21 MLD *

Planned Wastewater Treatment Plant Capacity	30 MLD **
--	-----------

* Initial planned capacity will address growth needs beyond 20 years as well as firm capacity for all treatment processes
 ** Wastewater Treatment Plant site planning will consider future expansion to 60 MLD for post 2041 growth



South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment

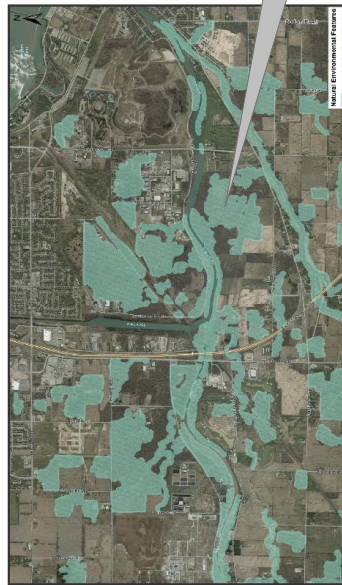


Study Area Features

Environment

This study is considering existing conditions and environmental features within the study area, including but not limited to:

- Archaeological
- Cultural heritage
- Hydrogeology
- Geotechnical
- Contamination
- Watercourses and floodplains
- Deer wintering
- Environmental protection areas
- Habitat of endangered and threatened species
- Environmental conservation areas
- Significant wildlife habitat & fish habitat
- Areas of natural and scientific interest
- Environmentally sensitive areas



Provincially Significant Wetlands

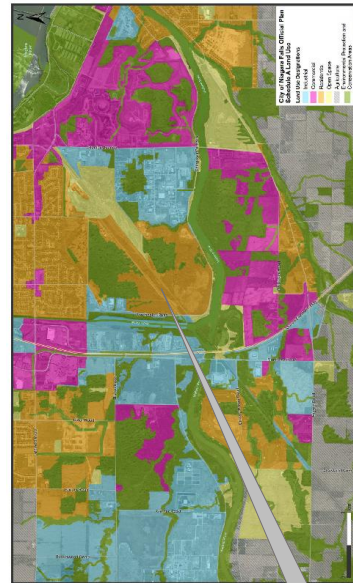
- Provincially significant wetlands (PSW) are wetlands identified by the Province as being the most valuable
- Municipalities and Conservation Authorities are legislatively required through the Planning Act, the Greenbelt Act and Conservation Authorities Act to manage PSWs and restrict land use activities in or near wetlands
- Sites constrained by PSWs were noted

Areas constrained by Provincially Significant Wetlands are not considered supportive for siting a new plant.

Socio-Economic

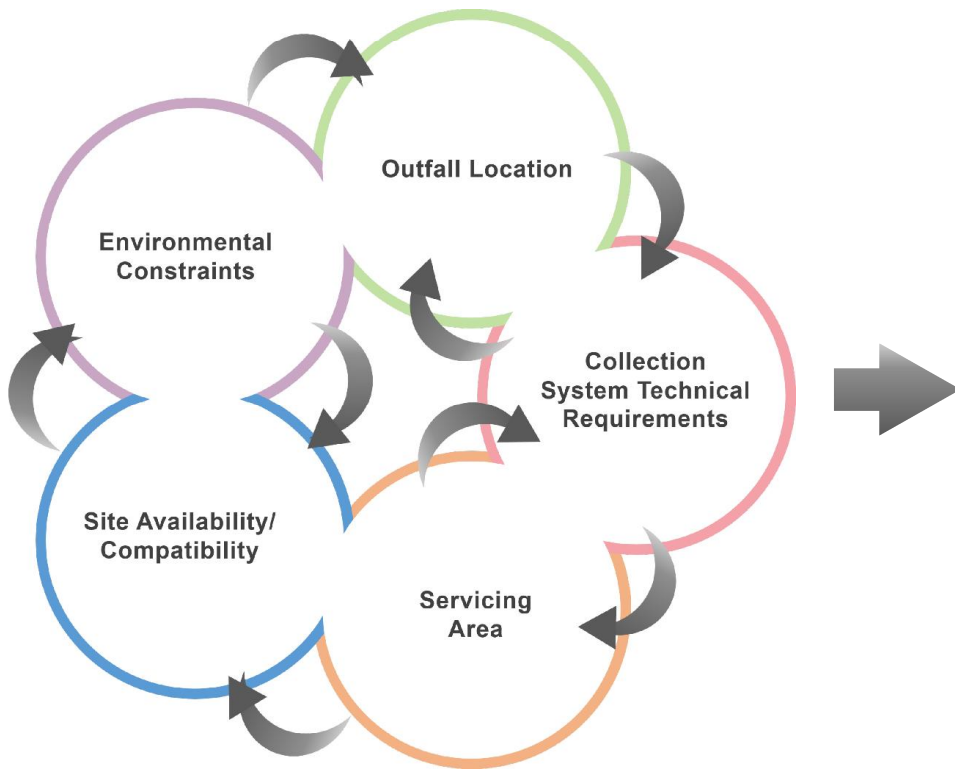
City of Niagara Falls Official Land Use Designations

- Existing and future zoning will be considered
- The study area includes mixed land use including:
 - Industrial
 - Commercial
 - Residential
 - Open Space
 - Agricultural, and
 - Environmental protection and conservation areas



Proximity to areas of existing or future residential will be considered in plant siting





Preferred Solution

- Supports servicing planned and future growth
- Minimizes sewage pumping stations
- Reduces combined sewer overflows
- Maximizes flexibility for the future
- Optimizes cost phasing/management



South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment



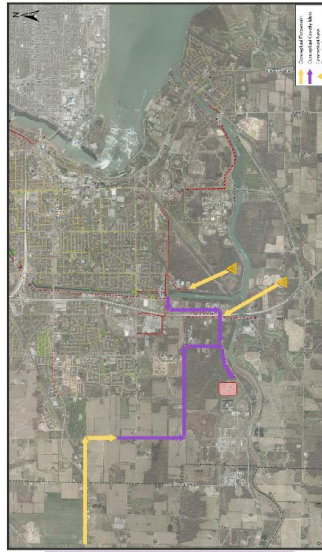
Components of the Overall Strategy

What components are required for a comprehensive wastewater solution under this study?



1. Plant Site

- The site must have suitable land size for a new plant
- For size reference, the example site, shown in red, represents the approximate amount of land required
- Existing and surrounding land use is an important factor for a new plant site
- Ability to mitigate noise, visual impact, odour, traffic and construction are key considerations



2. Collection System

- Each site will have unique collection system requirements
- For reference, the example collection system presented is unique to the example site
- Different collection systems may have longer or deeper sewers and more environmental crossings
- The collection strategy should consider flexibility for future growth areas and intensification



3. Outfall Location

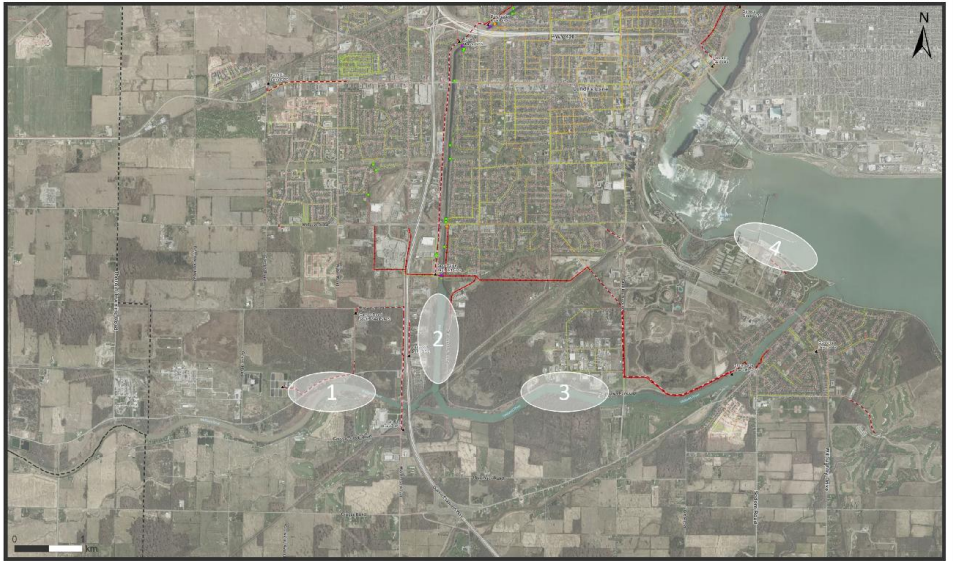
- The site must be close to a nearby river or lake where the clean, treated water can be released
- The 4 outfall locations being considered are:
 1. Welland River East
 2. Hydro Electric Power Canal
 3. Chippawa Creek
 4. Niagara River

Site and strategy shown for example purposes only



Conceptual Outfall Locations

- 1. Welland River East**
 - Requires enhanced treatment
 - Typical low flow conditions
 - Existing quality not favourable
- 2. Hydro Electric Power Canal**
 - Controlled flows and existing quality are favourable
 - Plant represents only 0.1% of Hydro Canal Flow
- 3. Chippawa Creek**
 - Existing flow and quality are favourable
 - Plant represents only 0.1% of Chippawa Creek Flow
- 4. Niagara River**
 - Typical high flow conditions
 - Increased coordination with U.S.
 - Plant represents only 0.02% of Niagara River Flow



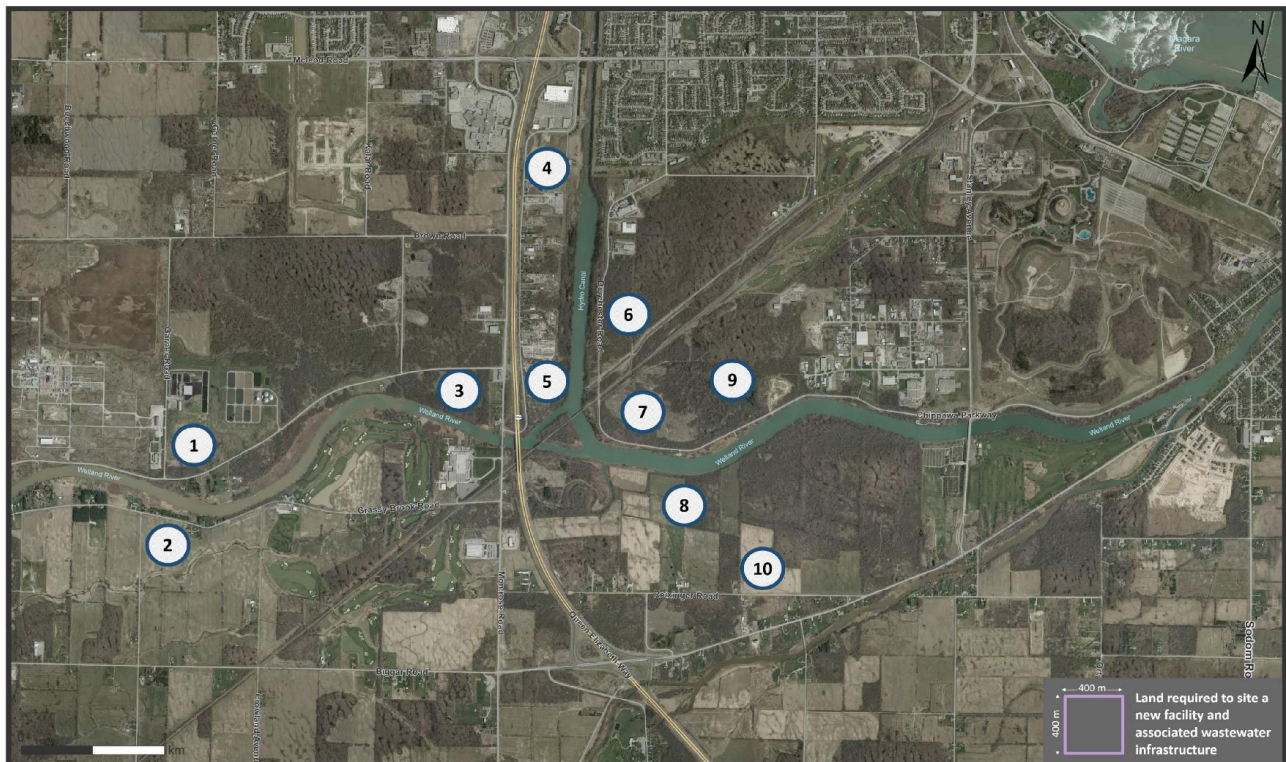
Note: The exact location of the new outfall will be determined at a later date



South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment



Long List of Potential Sites for the New Wastewater Treatment Plant



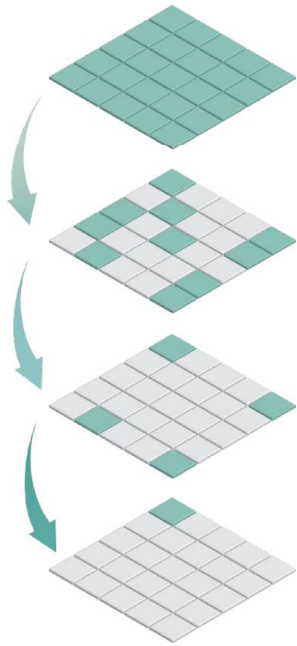
Note: The exact location of the new wastewater facility will be determined at a later date



South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment



The preferred site and associated strategies will be determined through the following evaluation process.



Study Area

- Complete a general review of the study area
- Review sites of proper size that are close to receiving waterbodies, existing and future service areas, and have limited environmental features

Long List of Alternatives

- Determine long list of reasonable sites (Present at Public Information Centre No. 2)
- Determine most suitable collection system alternative(s) for each site relating to project objectives
- Determine most suitable outfall location(s) for each site based on proximity to waterbody
- Complete desktop review of environmental features, opportunities and constraints
- Complete technical and costing analysis, including system modelling, opportunities and constraints
- Evaluate long list of alternatives using criteria and weightings

Short List of Alternatives

- Select short list of alternatives including combination of 3 to 5 alternative sites and associated collection systems and outfall locations
- Evaluate short list using criteria and weightings
- Complete detailed review of environmental features, opportunities and constraints
- Complete detailed technical and costing analysis including system modeling, opportunities and constraints

Preferred site and associated strategy

- Select preliminary preferred plant site, outfall location and collection system based on the detailed evaluation
- Present the recommended preliminary preferred alternatives at Public Information Centre No. 3 (Winter 2020)

* Public input will be used as appropriate throughout the evaluation process



South Niagara Falls Wastewater Solutions

Municipal Schedule 'C' Class Environmental Assessment



Multiple Bottom Line Decision Making

Environmental

- Potential effects to water features/resources and receiving body
- Potential impact on sensitive features
- Impact on species at risk
- Impact on system overflows
- Physical environment consideration
- Environmental risk and climate change



Social and cultural

- Impact on Indigenous Communities
- Community concerns for existing and future residents, local businesses and traffic
- Impact on archaeological/cultural heritage features
- Air quality, noise, dust and odour impacts
- Compatibility with current/planned land use



Legal and Jurisdictional

- Land use suitability and availability
- Ownership and land acquisition
- Approvals/coordination
- Worker safety and operability



Evaluating the Options

With input from the public, key stakeholders and review agencies (Ministries), the project team will develop and use criteria to evaluate options for: the new plant site, plant outlet location and connecting body of water, and sewer alignments.



Technical

- Ability to meet future needs
- System security and level of service
- Ease of integration with existing system
- Ease of construction, operation and traffic management



Financial

- Capital cost
- Lifecycle cost (operation & maintenance, resourcing and servicing)
- Cash flow/phasing
- Funding and finance opportunities



South Niagara Falls Wastewater Solutions

Municipal Schedule 'C' Class Environmental Assessment



What do you think?

Based on input to date, South Niagara Falls Wastewater Solutions presents the following proposed evaluated categories and respective weighting. Please give us your feedback.



South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment



Proposed Evaluation Tables



Long List Evaluation Table

Criteria	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	Site 9	Site 10
Environmental (25%)	Environmental Features									
	Water Quality	Comment on environmental features, water bodies and habitats that may impact siting the new facility or associated wastewater infrastructure								
Socio/Cultural (25%)	Socio-Economic									
	Cultural Heritage Archaeological	Comment on the social, cultural, and heritage factors that may impact siting the new facility and construction of the new infrastructure and integration with the local community								
Legal/Jurisdictional (10%)	Legal Property Approvals									
	Site & Treatment Outfall	Comment on the existing and future surrounding land uses, property acquisition requirements and approval requirements								
Technical (20%)	Collection									
	Lifecycle Costs Phasing	Comment on the unique wastewater strategy requirements related to each alternative (new plant site, outfall location, collection system and sewer routes) to meet current and future needs and the overall technical goals and objectives								
Financial (20%)	Capital Costs									
	Lifecycle Costs Phasing	Comment on the capital and lifecycle costs related to each holistic wastewater alternative as well as the phasing of the capital program over time								

Example Evaluation Style

Short List Evaluation Table

Criteria	Sub-Criteria	Alternative Short List A	Alternative Short List B	Alternative Short List C	Alternative Short List D
Environmental (25%)	Potential Impact on Environmentally Sensitive Features				
	Impact to Species at Risk				
	Potential Effects to Water Features/Resources				
	Receiving Waterbody				
	Physical System Overflows				
Socio/Cultural (25%)	Physical Environmental Considerations (Geology, Hydrogeology, Soil/Land Contamination)				
	Climate Change				
	Community Concerns for Residents/Local Businesses/Traffic				
	Impact on Indigenous Communities				
	Impacts on Archeological/Cultural Heritage Features				
Legal/Jurisdictional (10%)	Air Quality and Odour Impact				
	Noise, Vibration and Dust Impact				
	Compatibility with Current/Planned Land Uses				
	Approvals/Coordination				
	Land Use Suitability				
Technical (20%)	Land Acquisition				
	Safety and Operations				
	Meet Treatment, Outfall and Collection System Goals and Objectives				
	Flexibility for Future Servicing Requirements				
	Compatibility/Impacts to Existing and Future Infrastructure				
Financial (20%)	System Security and Level of Service				
	Traffic Management				
	Operation & Maintenance				
	Capital Cost				
	Lifecycle Cost (Operation, Resourcing, and Maintenance and Servicing)				
Cash Flow/Phasing of Costs					
Funding Opportunities					





Get Engaged! What do you believe is the most important criteria of this study? Do you support the evaluation approach? Using the sticky notes provided, please let us know your thoughts. Your feedback will be used to help inform the decision-making process.



How does the Wastewater System Work?

Typical Wastewater Treatment Process



1. Wastewater from our sinks, tubs and toilets drains through sewers to a wastewater treatment plant.
2. Screens remove materials such as branches, plastics, rags and other untreatable debris.
3. The wastewater flows into clarifiers, which allow remaining solids to settle or float to the surface over several hours.
4. These solids are pumped to a set of digesters where they are further broken down before being sent to a biosolids storage facility for fertilizer production. Bio-gas is produced during the digestion process and used within the plant.
5. Liquid wastewater flows from the clarifiers into aeration tanks where air is added and bacteria "eat" any dissolved solids.
6. Ferric chloride is added to remove phosphorous from the wastewater. Too much phosphorous can promote algae growth in our lakes and rivers.
7. The wastewater is sent to the final clarifiers where the wastewater and bacteria-mixture separates.
8. Chlorine is added to disinfect the wastewater, killing bacteria and viruses. The chlorine is removed before being safely returned to the nearest lake or river.

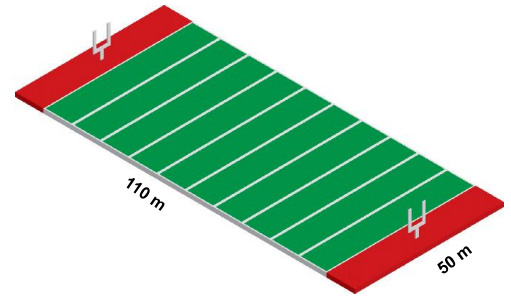


What does a Wastewater Treatment Plant Site Need?



Appropriate Land Size

The site must have suitable land size for a new plant. The potential size is approximately 400m x 400m (16 hectares). Equal to almost 30 Canadian football fields.



Positive Integration into Surroundings

The existing and surrounding land use is an important factor for a new plant site.

The team will consider potential impacts to the local environment and community, and how they will be addressed.

These measures include how we deal with noise, visual impact, odour, traffic and construction.



Proximity to the Region's Wastewater System and Future Growth Areas

The site ideally needs to be close to the existing wastewater system and close to future service areas.



Proximity to a Natural Water Body

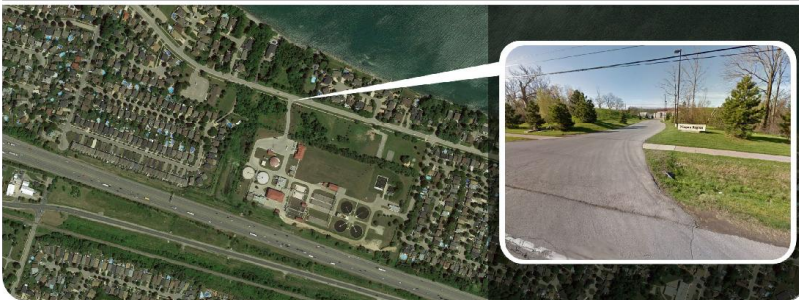
The site must be close to a nearby river or lake where the clean, treated water can be released.

Studies are underway to review environmental features, wildlife habitats, and water quality.

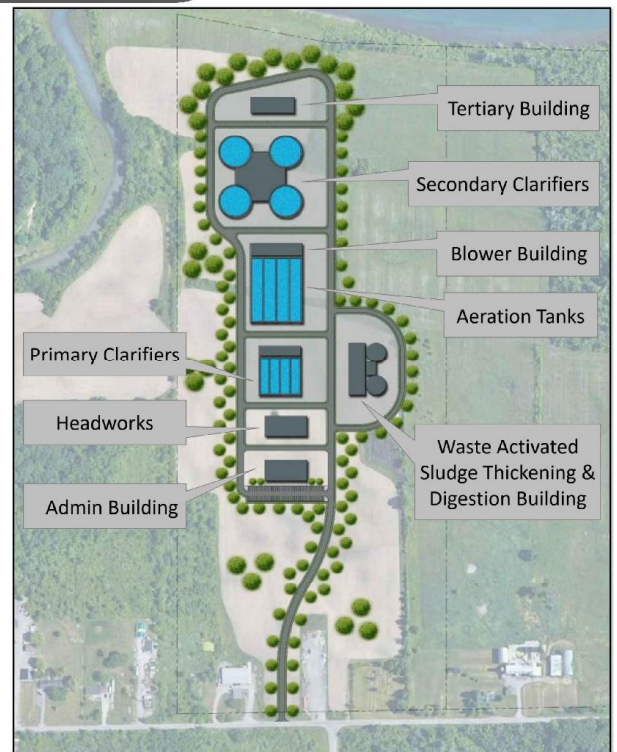


Example Wastewater Treatment Plant Layouts

Baker Road Wastewater Treatment Plant



Niagara-on-the-Lake Wastewater Treatment Plant



Example siting layout of a new Wastewater Treatment Plant



How to Stay Involved

- Sign up for project updates
- Attend a future Public Information Centre
- Submit an online feedback form or future survey
- Visit our website
www.niagararegion.ca/projects/south-niagara-falls-treatment-plant
- Follow us on social media
www.facebook.com/niagararegion and
www.twitter.com/niagararegion

Today

- Fill out the questionnaire and comment sheet
- We want to know if you are interested in active involvement or prefer to participate through project information updates

Do you have any questions, comments, or want to stay up to date? Please contact us anytime:

Lisa Vespi, P.Eng., PMP

Niagara Region Project Manager
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario L2V 4T7
Tel: 905.980.6000 x 3640
Email: New.Treatment.Plant@niagararegion.ca

Chris Hamel, P.Eng.

GM BluePlan Project Manager
3300 Highway No. 7, Suite 402
Vaughan, Ontario L4K 4M3
Tel: 416.577.2500
Email: Chris.Hamel@gmblueplan.ca

Please note that information related to this study will be collected in accordance with the *Freedom of Information and Protection of Privacy Act*. All comments received will become part of the public record and may be included in the study documentation prepared for public review. If you require an alternative format of this material please contact the Niagara Region's Accessibility Coordinator at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca



South Niagara Falls Wastewater Solutions

Municipal Schedule 'C' Class Environmental Assessment



Thank you for Participating, Please Stay Engaged!

Next Steps

- Review input provided on evaluation criteria used: Is there additional criteria you believe should be considered? Does the information provided make sense and do you agree with the evaluation criteria weightings and process?
- Complete evaluation process on long list of sites to short list of 3-5 sites then to preliminary preferred solution
- Public Information Centre 3 in **Winter 2020**: Present evaluation and preliminary preferred solution. This PIC will look to engage the public and receive feedback on the preliminary preferred solutions including the new plant site location

Schedule:



South Niagara Falls Wastewater Solutions

Municipal Schedule 'C' Class Environmental Assessment



**APPENDIX C
HANDOUT MATERIAL**

WELCOME!

Niagara Region is planning today for tomorrow's infrastructure. This environmental assessment (EA) is an important study for a new wastewater treatment plant and improvements to the system in the South Niagara Falls area.

We know significant growth is coming to our area and as we build new communities, create new jobs, and invest in new facilities like schools and hospitals, investment is needed to enhance and build new infrastructure.

The Region has added an additional Public Information Centre to the EA process to ensure the community is well informed and has many opportunities to provide feedback. We hope this information will be helpful to you.

Thank you for joining us.

HOW WE GOT HERE

Out of the province's *Places to Grow Act*, Niagara Region conducted a comprehensive municipal review called *How We Grow* to guide how we will manage population growth to 2041. Under that process, in 2016, we also updated the *How We Flow, Water and Wastewater Master Servicing Plan (MSP)*.

Based on the projected growth to come to the South Niagara Falls area and the detailed evaluation from the MSP, it was determined that a new wastewater treatment plant connected to the sewer system would help accommodate growth, make the wastewater system more efficient and help manage wet weather. Niagara Region Council and Niagara Falls Council adopted these recommendations in 2017.

50,000 more people coming to live and work in the South Niagara Falls area by 2041

WHAT A WASTEWATER TREATMENT PLANT NEEDS

- Appropriate land size: 400m x 400m (approximately 30 Canadian football fields)
- Appropriate land use
- Proximity to the existing wastewater system and future growth areas
- Proximity to a water body to receive the treated water from the plant
- Integration into surroundings

MORE INFORMATION AND TO STAY INVOLVED

We Want to Hear from You!

As we evaluate alternatives we want the community to tell us:

- What does success look like
- What do you want to know more about
- What do you consider to be the most important part of the project

Visit niagararegion.ca/projects/south-niagara-falls-treatment-plant. You will find project information, an online feedback form and materials presented at each Public Information Centre.

If you wish to receive future project notifications by email, please send your request to New.Treatment.Plant@niagararegion.ca. Follow and watch for project updates through the Niagara Region's Facebook and Twitter accounts.

The Region will be hosting public information sessions during key study milestones. These meetings will present study findings and recommendations, ask for feedback, answer questions and discuss next steps.

If you wish to submit comments or have questions, please contact us:

Ms. Lisa Vespi, P.Eng.
Project Manager
Niagara Region
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario, L2V 4T7
905-980-6000 ext. 3640
New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.
Consultant Project Manager
GM BluePlan Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
416-703-0667
Chris.Hamel@gmblueplan.ca

Last Revised: Nov. 2019

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

Niagara  Region

niagararegion.ca/projects/south-niagara-falls-treatment-plant

MOVING WATER FORWARD

SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

Niagara  Region

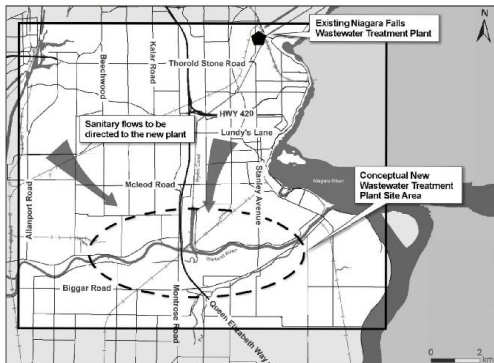
niagararegion.ca/projects/south-niagara-falls-treatment-plant

PROJECT BENEFITS

A new wastewater treatment plant will be an asset for our community in many ways.

- It will mean new jobs and infrastructure to support new investment in Niagara and help our local economy.
- It will help us better protect the environment through new technology and a more efficient wastewater system, which should reduce system overflows
- It will give us more flexibility in how we manage wastewater.
- It will increase our capacity by reducing flows to the existing Niagara Falls Stanley Avenue plant.

STUDY AREA



The Environmental Assessment will be studying the wastewater system within the boxed area on the map. The location for the new plant will be identified within the dotted circle area.

SCOPE OF THE PROJECT

- Where to locate the new wastewater treatment plant in South Niagara Falls
- Determine which body of water will receive the treated water from the plant
- How to best integrate the wastewater network to address growth, make it as efficient as possible and manage wet weather

OBJECTIVES OF THE STUDY

- 1. Protect the Environment**
 - Less pollution into the rivers
 - Treat wastewater
- 2. Accommodate Growth**
 - Support economic and cultural development investment to city/region
 - Build community
- 3. Flexibility for the Future**
 - Adapting to changing regulations
 - Operational
 - Growth/land use
 - Free up capacity
- 4. Community Asset**
 - Fit into local land use
 - Engage local tech/academics
 - Mitigate/manage issues related to wastewater treatment

PROJECT TIMING

SPRING 2019

Public Information Centre #1

- Study purpose and objectives
- Overview of the Environmental Assessment process

SPRING to FALL 2019

Public Information Centre #2

- Review of the evaluation process used to select the long list of potential sites
- Present the long list of potential sites for the new wastewater treatment plant

FALL 2019 to WINTER 2020

Public Information Centre #3

- We will present the preliminary preferred solution

WINTER/SPRING 2020 to SUMMER 2020

Public Information Centre #4

- Select preferred plant site, outfall location and sewer routes

FALL/WINTER 2020 to WINTER 2021

- Environmental Study Report for public review
- Environmental Assessment complete

2023 Design

2025 Construction

2027 Estimated in-service date

TYPICAL WASTEWATER TREATMENT IN NIAGARA REGION



1. Wastewater from our sinks, tubs and toilets drains through sewers to a wastewater treatment plant.

2. Screens remove materials such as branches, plastics, rags and other untreatable debris.

3. The wastewater flows into clarifiers, which allow remaining solids to settle or float to the surface over several hours.

4. These solids are pumped to a set of digesters where they are further broken down before being sent to a biosolids storage facility for fertilizer production. Bio-gas is produced during the digestion process and used within the plant.

5. Liquid wastewater flows from the clarifiers into aeration tanks where air is added and bacteria "eat" any dissolved solids.

6. Ferric chloride is added to remove phosphorus from the wastewater. Too much phosphorus can promote algae growth in our lakes and rivers.

7. The wastewater is sent to the final clarifiers where the wastewater and bacteria-mixture separates.

8. Chlorine is added to disinfect the wastewater, killing bacteria and viruses. The chlorine is removed before being safely returned to the nearest lake or river.

Public Information Centre #2: Frequently Asked Questions

Why do we need a new wastewater treatment plant? And why in South Niagara Falls?

Niagara Region is planning ahead with the City of Niagara Falls. Based on the province's Places to Grow Act, Niagara Region's Niagara 2041 Municipal Review and the 2016 Master Servicing Plan Update, significant growth is coming to the region and specifically to the South Niagara Falls area. Our current sewer system and capacity to treat wastewater will not be enough to meet the growing demand coming from new communities, businesses and facilities (like the planned new hospital). Putting a plant near a growing community makes sense. It makes collecting the wastewater easier and lowers costs.

How will a new plant benefit the region?

A new wastewater treatment plant will be an asset to our community in many ways.

- Protects the environment
 - Reduces pollution into rivers and the environment
 - Enhances treatment technologies
- Provides flexibility for the future
 - Ensures the facility has the ability to respond to changing regulations and needs
 - Frees up capacity in existing infrastructure such as the Stanley Ave. Wastewater Treatment Plant
- Accommodates growth
 - Increases system capacity
 - Supports economic development
 - Builds communities

Why can't you just expand the current Niagara Falls plant?

The option to expand the existing plant (Stanley Avenue) in Niagara Falls was considered under the 2016 Master Servicing Plan. Through the detailed evaluation process, it was decided a new plant was preferred for several reasons. It will support growth, specifically in South Niagara Falls. It will address the challenges of increased capacity on the existing system and plant. It will help us better manage increased flows during wet weather.

South Niagara Falls Wastewater Solutions Municipal Schedule C Class Environmental Assessment

How will the new site be chosen?

The site for the new wastewater treatment plant will be chosen based on a number of different factors: size of land, current land use and use in surrounding areas, potential environmental and natural habitat impacts, proximity to water bodies, cultural and heritage impacts, technical requirements, and input from stakeholders.

How will this project benefit the environment?

This project will benefit the environment in several ways:

- New technology will be used where appropriate to enhance environmental protection
- System overflows are targeted to be reduced, minimizing the risk of contaminants entering into nearby creeks and streams

How much land do you need for the new plant?

The potential size for a new treatment plant is approximately 400m x 400m (16 hectares) or equal to almost 30 Canadian football fields worth of land.

Won't the plant be an eyesore in the neighbourhood?

Many wastewater treatment plants built today fit within their communities and from the road, passersby don't know they are near a plant. Not only is a new plant an asset to a community, we will endeavor to design and construct it in a way that is aesthetically pleasing. We will consider the architecture, landscaping and more to ensure the new plant fits visually within the surrounding community.

Will the Region use land that is already owned by them?

Through the EA process, we will take into consideration many different factors like existing and surrounding land use, ownership and more.

South Niagara Falls Wastewater Solutions Municipal Schedule C Class Environmental Assessment

How will noise and odour, traffic and construction be managed?

The Region will ensure that social impacts including noise, odour, traffic and construction will be managed during the design, construction and implementation of this project. There have been many new advancements in technology to help reduce these impacts and they will be a key consideration in our planning.

How close might the plant be to residential neighbourhoods? Will it impact my property values? If so, will I be compensated?

The addition of a new plant is a positive investment for the surrounding area. During the evaluation process, we will consider how close it will be to residential areas, as well as any potential impacts to surrounding properties.

What is the timing of the project?

The project began with pre-consultation with key stakeholders in early spring 2019. During spring through fall 2019, the team undertook investigations including: natural environment, archaeological, cultural heritage, hydrogeological, and geotechnical review. In addition, the team has been working on technical components for the new wastewater treatment plant, which resulted in a list of criteria prepared for PIC 2 review. Following the second PIC, the team will evaluate a preliminary preferred wastewater treatment plant site, outfall location and sewer routes which will be presented at PIC #3 in winter 2020. From there, through to summer 2020, the focus will be on selecting the preferred technology and construction requirements, and determining the timing for design and construction. The fourth and final PIC is planned to be at that time. By fall 2020, the Environmental Assessment Report is planned to be available for public review. The EA is planned to be completed by the end of 2020. Post EA, design and construction is expected to start in 2023, with the plant being up and running by 2027.

APPENDIX D
PIC NO. 2 SIGN-IN SHEET



South Niagara Falls Wastewater Solutions
 Municipal Schedule C
 Class Environmental Assessment
 Public Information Centre # 2 - Nov. 20, 2019



SIGN-IN SHEET

Name (Organization if applicable)	Address	Phone Number	Email (you consent to receive key project updates)
ANDREA MONTGOMERY/REDBRICK	MISSISSAUGA	[REDACTED]	montgomery@redbrick.ca
Kent Green / GMBP	3400 NOTRE DAME CT NF	—	david.willie@cmvdlp.com
Bob Fleeton	MISSISSAUGA		r.fleeton@gmail.com
Troy Boigas	MISSISSAUGA		troy.boigas@cima.ca
Debby Riebosch	Fonthill, ON	[REDACTED]	debby.riebosch@niagararegion.ca
[REDACTED]	BEAMSVILLE	[REDACTED]	[REDACTED]@yahoo.com
Erik Nickel	CITY OF N.F.	[REDACTED]	enickel@niagarafalls.ca
CHRIS CAMPBELL	GMBP		chris.campbell@grtline.com
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.



South Niagara Falls Wastewater Solutions
 Municipal Schedule C
 Class Environmental Assessment
 Public Information Centre # 2 – Nov. 20, 2019



SIGN-IN SHEET

Name (Organization if applicable)	Address	Phone Number	Email (you consent to receive key project updates)
[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]@SYMATICO.CA
[Redacted]	[Redacted] Pr.	[Redacted]	[Redacted].ca
DONEMICO SCANC:ATORIA	[Redacted]	[Redacted]	DONEMICO.SCANC:ATORIA @ NIAGARAREGION.CA
[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted] LINDS	[Redacted]	[Redacted]@xplonnet.com
[Redacted]	[Redacted] Rd.	[Redacted]	[Redacted]@hotmail.com

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.



South Niagara Falls Wastewater Solutions
Municipal Schedule C
Class Environmental Assessment
Public Information Centre # 2 – Nov. 20, 2019



SIGN-IN SHEET

Name (Organization if applicable)	Address	Phone Number	Email (you consent to receive key project updates)
[Redacted]	[Redacted] Rd	[Redacted]	[Redacted]@gmail.com
[Redacted]	[Redacted] Dwyer NFO	[Redacted]	[Redacted]@buteatw.ca
[Redacted]	[Redacted] STAGE	[Redacted]	[Redacted]@mobile.com

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

APPENDIX E
PIC NO. 2 COMMENTS RECEIVED

COMMENT SHEET

Contact Information:

Name: _____

Organization: _____

Email: _____@xplanner.com

Phone: _____

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

- 1) Evaluation Criteria & Tables - Impact on Agriculture
ex. Northwest fruit & grape growing area
- 2) Map: Existing Sanitary System - Does not show all the overflows. There are SSO's Separated Sewer Overflow on Shrimers Creek & Newlands Creek, should be on the map.
- 3) New plant should go south of Welland River otherwise the grape & fruit lands of Haldimand Clay Loam will be lost. From about McLeod Rd south is Welland clay of a low class. It takes 1.5 acres of Welland clay to yield what you produce on 1 acre of Haldimand Clay loam.

All comments and information received from individuals, stakeholder groups and agencies regarding this project are being collected under the authority of the "Municipal Act" to assist the Regional Municipality of Niagara in making a decision. Under the "Municipal Act", personal information such as name, address, telephone number, and property location that may be included in a submission becomes part of the public record.

COMMENT SHEET

Contact Information:

Name: [REDACTED]

Organization: [REDACTED]

Email: _____

Phone: [REDACTED]

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

- property has ④ + ⑤
- just north of tanker.

A contact [Signature]

All comments and information received from individuals, stakeholder groups and agencies regarding this project are being collected under the authority of the "Municipal Act" to assist the Regional Municipality of Niagara in making a decision. Under the "Municipal Act", personal information such as name, address, telephone number, and property location that may be included in a submission becomes part of the public record.

COMMENT SHEET

Contact Information:

Name: [REDACTED]

Organization:

Email: [REDACTED]

@sympatico.ca

Phone: [REDACTED]

Please check off which of the following you would like to participate in:

- Active project involvement
- Online Surveys
- Just staying informed
- Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

- property located at [REDACTED]
- b/w 4 + 5.
- need to stay in touch.
- beside [REDACTED] who are selling.
* contact [REDACTED]

All comments and information received from individuals, stakeholder groups and agencies regarding this project are being collected under the authority of the "Municipal Act" to assist the Regional Municipality of Niagara in making a decision. Under the "Municipal Act", personal information such as name, address, telephone number, and property location that may be included in a submission becomes part of the public record.



I went to make
sure it fits
with the
neighbourhood
somehow

The criteria
makes
sense

Important Agriculture
illustration
Overlap

Reducing cost of Pump Stations

Someone requested
to have
refreshments

Sandra

V4.5.3

REGIONAL MUNICIPALITY OF NIAGARA
SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

PIC Summary Reports

Public Information Centre No. 3 – March 11, 2020

Prepared By:



Regional Municipality of Niagara

South Niagara Falls Wastewater Solutions
Schedule 'C' Class Environmental Assessment

Public Information Centre No. 3 Summary Report

GMBP File: 718002

March 2020



TABLE OF CONTENTS

1. BACKGROUND AND INTRODUCTION	1
1.1 Class EA Context	2
2. PUBLIC INFORMATION CENTRE NO. 3.....	4
2.1 Purpose.....	4
2.2 Notifications.....	4
2.2.1 Newspaper Advertisements.....	4
2.2.2 Online Advertisements.....	4
2.2.3 Mail Out	5
2.3 Date, Time, and Location	7
2.4 Media & Council Drop-in Session.....	7
2.5 PIC No. 3 Materials	8
2.5.1 Display Boards	8
2.5.2 Education Corner.....	8
2.5.3 Frequently Asked Questions.....	8
2.5.4 Information Brochure	8
2.6 PIC No. 3 Attendance.....	9
2.7 PIC No. 3 Facebook Live	9
2.8 PIC No. 3 Comments	10
3. NEXT STEPS.....	14

APPENDICES

- APPENDIX A: NOTICE OF PUBLIC INFORMATION CENTRE NO. 3**
- APPENDIX B: PUBLIC INFORMATION CENTRE NO. 3 DISPLAY BOARDS**
- APPENDIX C: HANDOUT MATERIAL**
- APPENDIX D: SIGN-IN SHEET**
- APPENDIX E: COMMENTS RECEIVED**

**SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS
SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT
PUBLIC INFORMATION CENTRE NO. 3 SUMMARY REPORT**

REGIONAL MUNICIPALITY OF NIAGARA

MARCH 2020

GMBP FILE: 718002

1. Background and Introduction

GM BluePlan Limited has been retained by the Regional Municipality of Niagara to undertake a Schedule C Class Environmental Assessment (Class EA) entitled South Niagara Falls Wastewater Solutions. This study will develop and implement a wastewater servicing strategy and conceptual design for a new wastewater treatment plant (WWTP) and associated collection and conveyance facilities in south Niagara Falls.

The study is being undertaken as a Schedule 'C' project in accordance with the requirements of the Municipal Class Environmental Assessment process, prepared by the Municipal Engineers Association (MEA) (October 2000, as amended in 2007, 2011 and 2015).

The objective of the South Niagara Falls Wastewater Solutions Class EA is to determine:

- Where to locate the new wastewater treatment plant in South Niagara Falls;
- Which body of water will receive the clean, treated water from the new plant; and,
- How best to integrate the wastewater network to address growth, make the system as efficient as possible, and manage wet weather.

The study area covers the southern area of Niagara Falls, specifically south of Lundy's Lane. This area was considered ideal to address projected growth based on the Niagara 2041 planning exercise and could include sanitary flows being directed from Thorold South and areas north of Lundy's Lane. This area encompasses various watercourses and waterbodies, including the Welland River, Hydro Electric Power Canal (Ontario Power Generation operations), Chippawa Creek, and Niagara River. The study area primarily covers industrial and commercial land use with moderate open space land designations.

A key part of the public consultation component is a Public Information Centre (PIC), which serves as a forum for information exchange between the public, stakeholders and the project team.

The PIC No. 3 Summary Report represents one element of the overall Class EA documentation. This report documents the following:

- Information presented at PIC No. 3;
- Summary of attendance; and,
- Summarized table of comments received, and responses provided in order to track correspondence in a transparent and traceable manner.

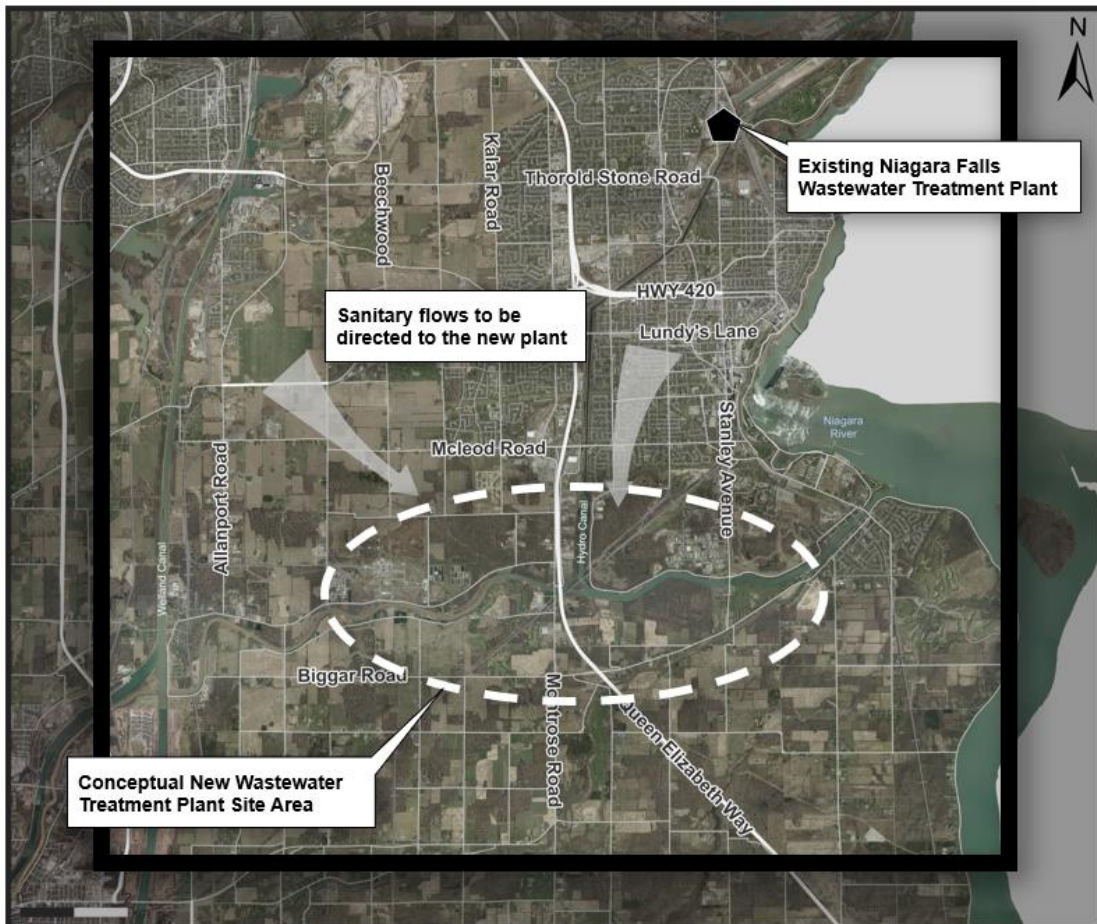


Figure 1 – Study area for the New Wastewater Treatment Plant

1.1 Class EA Context

The study involves completion of Phases 1 through 5 of the MEA Municipal Class EA Process. Public consultation is a vital component of the Class EA process and ensures transparency through encouraging stakeholder and public involvement.

The workplan initially planned for three (3) PICs. Given the complexity and integrated study components, the Project Team decided to include an additional information session ahead of evaluating the preliminary preferred solution (i.e. the wastewater treatment plant site; outfall location; and collection system strategy). This strategy provides the

public and stakeholders the opportunity to challenge and understand the detailed evaluation process. In total there are four (4) planned PICs.

The first PIC was held on May 28, 2019 to introduce the project; identify the problem and opportunity statement; and present baseline environmental features for the study area. PIC No. 2 was held on November 20, 2019 as an additional information session. This event presented the long list of potential wastewater treatment plant sites and showed the Project Team’s proposed detailed evaluation and weighted criteria that would be used to select the preliminary preferred solution for the three project components.

The third information session, PIC No. 3, was held March 11, 2020. This presented the stepped evaluation process for long to short list solutions; and short list to preliminary preferred solution. This resulted in the preliminary preferred solution including the: wastewater treatment plant site; outfall location; and collection system strategy.

The fourth PIC (PIC No. 4) is anticipated for Fall 2020 and will present the preferred conceptual design for the new wastewater treatment plant, outfall location, and collection system.

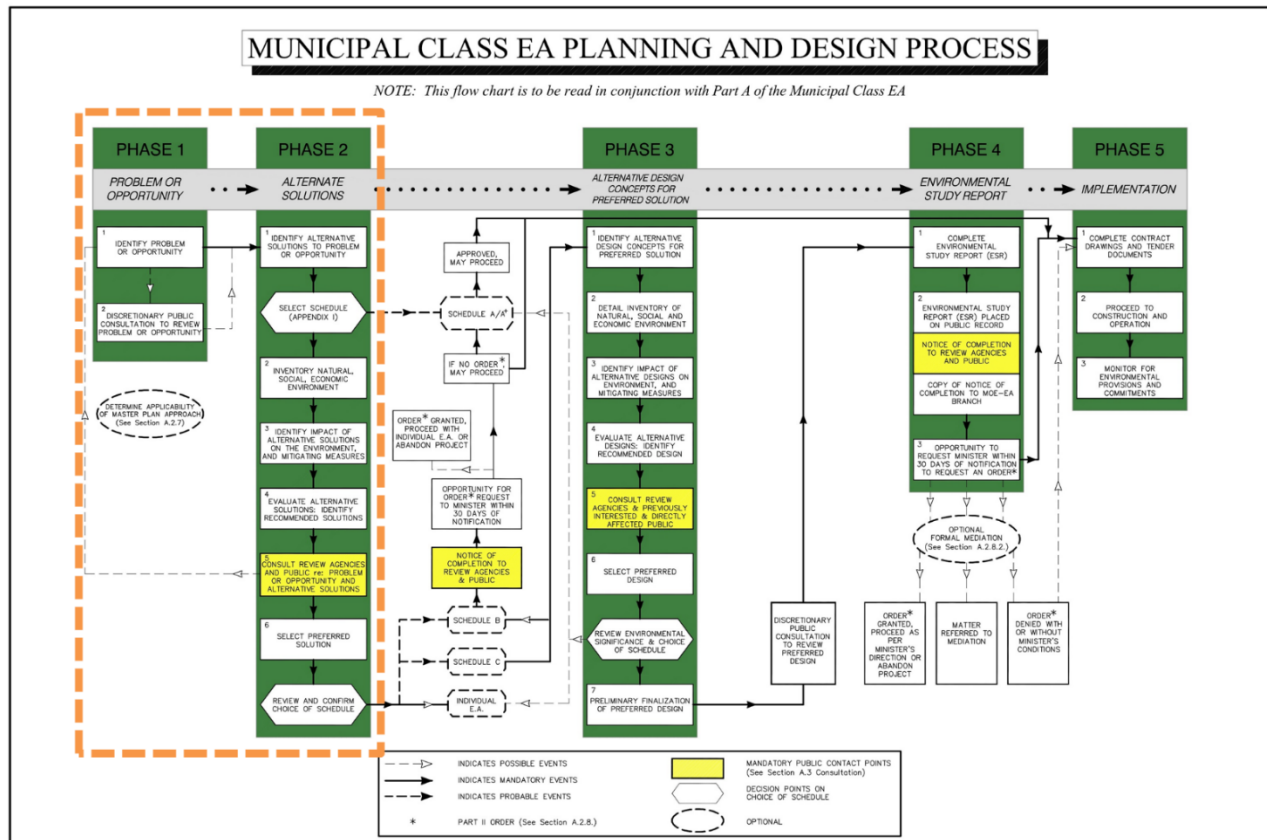


Figure 2 – This Figure illustrates the Municipal Class EA Planning and Design Process

2. PUBLIC INFORMATION CENTRE NO.3

2.1 Purpose

PIC No.3 was held on March 11, 2020 and presented the following:

- Detailed evaluation process and results for the three project components:
 - Wastewater Treatment Plant Site;
 - Outfall location and receiving waterbody; and,
 - Collection system strategy.
- Presented the preliminary preferred solution for the three components, which highlighted the new wastewater treatment plant site; the conceptual outfall location and sewer alignment.
- Received public input and answered questions.

2.2 Notifications

Stakeholders and the public were informed of the PIC by local newspaper advertisements, mail or e-mail (study contact list), Niagara Region Facebook and Twitter accounts, and through the Niagara Region website.

This study has enhanced notifications to better engage with the public on a larger platform. PIC No. 3 notification summary is available in Appendix A.

2.2.1 Newspaper Advertisements

The Notice of PIC No. 3 was first published on February 27, 2020. The Notice was included in the following publications:

- Niagara this Week – February 27 and March 5, 2020
- Niagara Falls Review – February 27 and March 5, 2020

2.2.2 Online Advertisements

The Region used additional methods of online publication. This involved the use of the Region's Twitter and Facebook accounts to better inform residents.

The notice was also posted on the Project Website. The website includes a sign-up option for the public to stay involved and receive future project notifications:

www.niagararegion.ca/projects/south-niagara-falls-treatment-plant/

In March 2020, the project website had 188 visits, 243 webpage views, 165 unique visitors, and 55 returning visitors.

2.2.3 Mail Out

The Notice of PIC No. 3 was dated February 27, 2020 and mailed and/or e-mailed to local government, review agencies and other stakeholders. Notification was sent to the following groups:

Provincial

- Infrastructure Ontario
- Metrolinx/GO Transit
- Ministry of Agriculture, Food and Rural Affairs
- Ministry of Economic Development, Employment and Infrastructure
- Ministry of Indigenous Affairs
- Ministry of Infrastructure
- Ministry of Municipal Affairs and Housing
- Ministry of Natural Resources and Forestry
- Ministry of the Attorney General
- Ministry of the Environment, Conservation and Parks
- Ministry of Tourism, Culture and Sport
- Ministry of Transportation
- Niagara Escarpment Commission
- Niagara Falls Bridge Commission
- Niagara Parks Commission
- Ontario Provincial Police
- Peace Bridge Authority

Federal

- Canadian Environmental Assessment Agency
- Canadian Section, International Niagara Board of Control
- Department of Fisheries, Oceans and the Canadian Coast Guard
- Department of Indigenous and Northern Affairs
- Federal Economic Development Agency for Southern Ontario
- Health Canada
- Transport Canada, Environment and Engineering
- Transport Canada, Navigable Water Protection Program

Indigenous Communities

- Haudenosaunee Confederacy Chiefs Council
- Mississaugas of the Credit First Nation
- Six Nations of the Grand River

Conservation Authorities

- Niagara Peninsula Conservation Authority

Rail/Transit

- Canada Pacific Railway
- CN Rail
- Go Transit
- TransCanada Pipelines

Utilities

- Bell Canada
- CAA Niagara
- Canadian Automobile Association- South Central Ontario
- Cogeco Cable Niagara
- Canadian Niagara Power Inc.
- Enbridge Gas Distribution Inc.
- Enbridge Pipelines Inc.
- Grimsby Power Incorporated
- Hydro One Networks - Zone 2 Scheduling
- Niagara Peninsula Energy Inc.
- Niagara Region Broadband Networks
- Ontario Power Generation

School Boards

- Brock University
- Conseil Scolaire Viamode
- Conseil Scolaire Catholique MonAvenir
- District School Board of Niagara
- Niagara Catholic District School Board
- Niagara College

EMS and Health

- Niagara Emergency Medical Services
- Niagara Health System
- Niagara Regional Police
- City of Niagara Falls

Interest and Stakeholder Groups

- Niagara Home Builders Association
- Ontario Wine Country
- Regional Niagara Bicycling Committee
- Greater Niagara Chamber of Commerce
- Media
- Developers
- RJ Burnside
- H2 Flow
- CRH Canada/Dufferin Construction
- Citizens Against Unsanitary Sewage Effluent
- Lundy's Lane BIA
- New South Niagara Hospital
- ASI Group
- Parks in the City Committee
- Cogeco

Local Municipal: Mayors/Clerks/Councillors/Directors

- City of Niagara Falls
- City of Port Colborne
- City of St Catharines
- City of Thorold
- City of Welland
- Town of Fort Erie
- Town of Grimsby
- Town of Lincoln
- Town of Niagara-on-the-Lake
- Town of Pelham
- Township of Wainfleet

Property Owners

The Notice of PIC No.3 was sent to all properties identified within the long-list of preliminary wastewater treatment plant sites (16 different property owners). In addition, properties along Reixinger Road and Oakwood Drive received notification based on their close proximity to the preliminary preferred site and trunk sewer location (36 properties). A total of fifty-two (52) property owners received the Notice of PIC No.3.

Residents

Sixty-two (62) residents requested to be added to the stakeholder list ahead prior to February 27, 2020. These residents received notification of PIC No.3.

2.3 Date, Time, and Location

PIC No. 3 was held within the City of Niagara Falls at the MacBain Community Centre. The SNF Team hosted the public event at the closest available facility to the immediate study area. Table 1 identifies the date, time, and location details for PIC No. 3.

Table 1. PIC No. 3 Information

Public Information Centre No. 3	
Date / Time	Wednesday March 11, 2020 Media/Council Review – 4:00 to 5:00 p.m. Public Review – 5:00 to 7:00 p.m.
Location	MacBain Community Centre – Coronation Room 7150 Montrose Road, Niagara Falls, ON, L2H 3N3

2.4 Media & Council Drop-in Session

One hour before the public open house, an hour was dedicated to Media & Council review. This session was an opportunity for media and council members to have one-on-one consultation with the Project Team to ask questions, review the PIC No. 3 content

(including the preliminary preferred wastewater treatment plant site; outfall location; and collection system strategy), and understand next steps.

2.5 PIC No. 3 Materials

2.5.1 Display Boards

The information presented at PIC No. 3 included:

- Municipal Class EA process and project timeline;
- Evaluation process overview;
- Long-to-short list evaluation results;
- Short list evaluation results (options 1, 4, 5, and 8);
- Preliminary preferred solution (wastewater treatment plant site, outfall location, and collection system strategy);
- Recreational access overview (land and water);
- Study commitments; and,
- Next steps, including an outline of PIC No. 4.

2.5.2 Education Corner

An education corner was created that displayed information from previous PICs. This allowed attendees to view materials from the previous sessions that they may have been unable to attend.

A water display was also available which compared Municipal tap water against effluent discharge from a local wastewater treatment plant. This provided attendees with a greater understanding of water quality that is expected to be leaving the new wastewater treatment plant.

2.5.3 Frequently Asked Questions

A handout was provided to all attendees, and uploaded to the Project Website, that outlined questions previously received or anticipated from the Project Team. Example content included: potential odour/noise/property/traffic impacts; why a wastewater treatment plant is needed; project benefits; and detailed project timing.

2.5.4 Information Brochure

PIC attendees received an information brochure which included an introduction to the study; the overall purpose and objectives; overview of the wastewater treatment process; project timeline; and project manager contact information.

2.6 PIC No. 3 Attendance

A total of thirty-six (36) members of the public attended PIC No. 3, counting only those who signed in.

Representatives from Niagara Region, City of Niagara Falls, GM BluePlan, CIMA, Golder, and Redbrick Communications were also available to answer questions.



Figure 3 – Chris Hamel, GM BluePlan Project Manager, presents the preliminary preferred site to PIC attendees

2.7 PIC No. 3 Facebook Live

GM BluePlan hosted a live event from the Niagara Region’s Facebook page one hour before the scheduled PIC. This allowed members of the public to virtually join in discussions and have questions answered in real time.

GM BluePlan provided a Class EA update and walked through display materials including: the evaluation process; the evaluation results; the preliminary preferred WWTP site, outfall location, and collection system strategy, which were made available during the event and also posted to the Project Website.



Lisa Vespi from Niagara Region and Chris Hamel from GM BluePlan Engineering during the Facebook live stream at PIC No. 3

A total of 2,905 people viewed the Facebook live feed. The video reached an estimated 7,700 people.

The PIC No. 3 Facebook Live statistics include:

- Average watch time: 0:10
- 3-second video views: 2,905
- Overall estimated reach: 7,700
- 10-second video views: 761
- 1-minute video views: 100

- Total minutes viewed: 1,048
- Peak live viewers: 21
- Comments: 11
- Shares: 7
- Reactions: 14 (these are thumbs up, hearts, etc.)

2.8 PIC No. 3 Comments

Attendees were encouraged to provide comments related to the Class EA in writing. Comments may be submitted via comment sheets, phone, emails, and letters. These comments are then reviewed and considered by the Project Team to inform the decision-making process. The Project Team responded to all questions which required follow-up. A summary of the comments received relating to PIC No. 3 event are shown below.

Table 2. Summary of PIC No. 3 Comments Received

No.	Correspondent	Type	Comment	Date Received	Status/ Response
1	██████████ Home Owner	Comment Sheet	Resident interested in the exact physical location, including street address, of the proposed wastewater treatment plant.	11-Mar-20	Region/GMBP to provide follow-up
2	██████████ Citizens Against Unsanitary Effluent	Comment Sheet / Printed Material	Presented concern that the “sewage lagoon located in South Niagara Falls (Willoughby Township) is overloaded and far exceeds the Certificate of Approval from 1988”. Would like the team to incorporate the sewage into the new wastewater treatment plant. Attendee also presented printed material on the Stevensville Douglastown Lagoons including OMB hearing news article from October 8, 1980.	11-Mar-20	Region/GMBP provided a signed formal letter to resident addressing previous concerns with the Lagoons. Concerns with additional sewage lagoons addressed during the PIC event. No further response required.
3	██████████ Preservation of Agricultural Lands Society	Comment Sheet	Resident is quite pleased to support the preferred Option 8. Following this option will facilitate appropriate development within urban boundaries in the Chippawa area.	11-Mar-20	No response required.

No.	Correspondent	Type	Comment	Date Received	Status/ Response
4	██████████ Resident	Comment Sheet	Resident resides at ██████████ Resident provided the following questions and/or concerns and requested a more detailed discussion with the Region based on his close proximity to the proposed location: <ul style="list-style-type: none"> • Exact location of the wastewater treatment plant • How it will impact his property value • How odour and noise will be controlled • How open tanks will be managed 	11-Mar-20	Region/GMBP to provide direct follow-up with ██████████
5	██████████ Resident	Comment Sheet	Resident resides at ██████████ Resident provided the following questions: <ul style="list-style-type: none"> • Concerns with effects on his property value • Where the wastewater treatment plant will be located within the 40-acre site • Concerns with odour and noise control • How open tanks will be managed • Trunk management 	11-Mar-20	██████████
6	██████████ Resident	Comment Sheet	Resident resides at ██████████ Resident provided the following questions: <ul style="list-style-type: none"> • Property value future • Odour control • Noise Control • Forestry Impact 	11-Mar-20	Region/GMBP to provide follow-up

No.	Correspondent	Type	Comment	Date Received	Status/ Response
7	██████████ Resident	Comment Sheet (1 of 2)	<p>Resident provides objection to gravity sewers through agriculturally zoned areas that are outside of and/or adjacent to the urban boundary. Believes that this threatens preservation of these lands which should be designated specialty crop with capability for grape and fruit growing.</p> <p>Resident believes forcemains are less of a threat as subdivision pipes cannot hook into the system. Resident would like to know how Thorold South sewage goes not and how does it gets there.</p>	11-Mar-20	Region/GMBP to provide follow-up
8	██████████ Resident	Comment Sheet (2 of 2)	Once the new wastewater treatment plant becomes operational, resident would like to know how much capacity will be available for sewage in the old wastewater treatment plant (in terms of sewage volume, population and housing units).	11-Mar-20	

3. NEXT STEPS

Following the third round of public consultation, the project team will:

- Conduct site specific investigation and results;
- Propose a plant location within the preferred site; select preferred technologies and processes; preliminary layout of tankage, buildings, hydraulic profile, treatment technologies; and wastewater effluent criteria;
- Present discharge location and design elements; and recommend methods of construction;
- Present preferred sewer alignments; and proposed methods of construction, including tunnel shaft locations;
- Continue to work with review agencies and stakeholders;
- Prepare and advertise for PIC No.4; and,
- Collect additional comments and input.

APPENDIX A
NOTICE OF PIC NO.3

**NOTICE OF PUBLIC INFORMATION CENTRE #3
SOUTH NIAGARA FALLS
WASTEWATER SOLUTIONS**

MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

COME VIEW THE PRELIMINARY PREFERRED SOLUTION

ABOUT THE STUDY

Niagara Region is planning ahead. We are working with the Cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls. We are also studying how we can make the overall sewer system better.

PUBLIC CONSULTATION

Your input is important throughout the process. You are invited to a Public Information Centre to learn more about the study.

The Region will be presenting the preliminary preferred solution including **the proposed wastewater treatment plant site, associated sewer strategy and plant discharge location**. The public will have the opportunity to speak to the Project team, and provide comments and input on the preferred solution.

Wednesday, March 11, 2020 | 5 – 7 p.m.

MacBain Community Centre,
Multi-purpose Room D and E

7150 Montrose Road, Niagara Falls, ON
L2H 3N3

Facebook Live Video: 3 – 4 p.m.
View video by visiting Niagara Region's
Facebook page

CONTACT

Ms. Lisa Vespi, P.Eng., PMP

Project Manager

Niagara Region

3501 Schmon Parkway, PO Box 1042

Thorold, Ontario, L2V 4T7

905-980-6000 ext. 3640

New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.

Consultant Project Manager

GM BluePlan Engineering Limited

3300 Highway 7, Suite 402

Vaughan, Ontario, L4K 4M3

416-703-0667

Chris.Hamel@gmblueplan.ca

If you require any accommodations for a disability in order to attend and participate in meetings or events, contact the **Niagara Region's Accessibility Coordinator** at 905-685-4225 ext. 3252 or **accessibility@niagararegion.ca**.

Personal information collected or submitted in writing at public meetings we be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or **FOI@niagararegion.ca**

This notice was first issued on Feb. 27, 2020



Olivia Baguolo swam 200 laps in support of the YMCA of Niagara Move for Kids campaign.

IN THE SWIM OF THINGS FOR YMCA NIAGARA'S MOVE FOR KIDS

ALISON LANGLEY
alison.langley@niagaradailies.com

Olivia Bagnolo continues to make a splash at the Niagara Falls YMCA.

The 13-year-old swam 200 laps - the equivalent of five kilometres - in support of the Move for Kids campaign on Saturday.

YMCA of Niagara fundraiser invited people to spin, walk, swim or run to support children.

All funds raised help children and families in need access various programming such as swimming lessons, physical literacy programs and day camp.

Organizers had hoped to raise in excess of \$100,000 to support more than 500 children.

Olivia raised more than \$2,000 in pledges and completed her 200 laps in less than two and a half hours.

"I feel OK... a little tired," she said after her five-kilometre swim.

Why did she want to be a part of the event?

"It's for a good cause," she said with a smile.

Joining her in the pool at the YMCA at MacBain Community Centre were two young boys from Grimsby.

Six-year-old Pierce Bhardwaj and his older brother Kieran, 8, raised more than \$500 and went down the pool's waterslide 25 times each.

The brothers have attended the Niagara Falls facility and the agency's summer camp program.

Olivia has been taking swimming lessons at the YMCA since she was in senior kindergarten.

The Move for Kids campaign is the YMCA of Niagara's largest fundraiser. Events were held at all six YMCA locations across the region Saturday.

The sixth annual event was expected to draw about 700 participants.

MOVING WATER FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE #3 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

COME VIEW THE PRELIMINARY PREFERRED SOLUTION

ABOUT THE STUDY

Niagara Region is planning ahead. We are working with the Cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls. We are also studying how we can make the overall sewer system better.

PUBLIC CONSULTATION

Your input is important throughout the process. You are invited to a Public Information Centre to learn more about the study.

The Region will be presenting the preliminary preferred solution including the proposed **wastewater treatment plant site, associated sewer strategy and plant discharge location.** The public will have the opportunity to speak to the Project team, and provide comments and input on the preferred solution.

Wednesday, March 11, 2020 | 5 – 7 p.m.

MacBain Community Centre,
Multi-purpose Room D and E
7150 Montrose Road, Niagara Falls, ON
L2H 3N3

Facebook Live Video: 3 – 4 p.m.
View video by visiting Niagara Region's
Facebook page

CONTACT

Ms. Lisa Vespi, P.Eng., PMP
Project Manager
Niagara Region
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario, L2V 4T7
905-980-6000 ext. 3640
New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.

Consultant Project Manager
GM BluePlan Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
416-703-0667
Chris.Hamel@gmblueplan.ca

If you require any accommodations for a disability in order to attend and participate in meetings or events, contact the **Niagara Region's Accessibility Coordinator** at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca.

Personal information collected or submitted in writing at public meetings we be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

This notice was first issued on Feb. 27, 2020

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES



niagararegion.ca/projects/south-niagara-falls-treatment-plant

19 | Niagara This Week 21 | Thursday, March 5, 2020

niagarathisweek.com



Paul Forsyth/Torstar
Aubrey Schimer and Reese Helle try on T-shirts with one of the winning Pink Shirt Day designs at Mary Ward Catholic Elementary School.

BULLYING NOT COOL

Continued from page 5

change," she said. "They're not being who they really are because people won't let them."

"They'll remember that their whole life." Elle, whose T-shirt design had the slogan "Be kind - it's a wonderful thing," said being picked as a winner gave her a thrill because she's doing her part to combat bullying.

"I just felt accomplished," she said. "I was really happy. Everybody needs kindness in the world."

Sue Allinotte, chair of the Catholic school council at Mary Ward, said the contest was a great way to raise awareness of the topic among students and to encourage them to stick up for each other.

"We focus on uplifting each other at Mary Ward," she said. "I think it's just wonderful."

School principal Joseph Tomabuono said the pink shirts will be distributed to all students. He said students, staff and parents need to work together to make bullying a thing of the past.

"Everybody has a part to play," he said. "The whole Mary Ward community plays an active role in this campaign."

Niagara's public school board said, in a news release this month announcing its partnership with Niagara Regional Police and Bell Media in a campaign urging the public to take part in the antibullying #PledgeChallenge, that it takes bullying seriously.

"Making sure every student feels safe, supported and respected in our schools is a community effort," said DSN education director Warren Hoshizaki. "Education on bullying, how to recognize it, and how everyone can help put a stop to it is an essential step toward true change."

MOVING WATER FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE #3 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

COME VIEW THE PRELIMINARY PREFERRED SOLUTION

ABOUT THE STUDY

Niagara Region is planning ahead. We are working with the Cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls. We are also studying how we can make the overall sewer system better.

PUBLIC CONSULTATION

Your input is important throughout the process. You are invited to a Public Information Centre to learn more about the study.

The Region will be presenting the preliminary preferred solution including the proposed **wastewater treatment plant site, associated sewer strategy and plant discharge location.** The public will have the opportunity to speak to the Project team, and provide comments and input on the preferred solution.

Wednesday, March 11, 2020 | 5 – 7 p.m.

MacBain Community Centre,
Multi-purpose Room D and E
7150 Montrose Road, Niagara Falls, ON
L2H 3N3

Facebook Live Video: 3 – 4 p.m.
View video by visiting Niagara Region's
Facebook page

CONTACT

Ms. Lisa Vespi, P.Eng., PMP
Project Manager
Niagara Region
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario, L2V 4T7
905-980-6000 ext. 3640
New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.

Consultant Project Manager
GM BluePlan Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
416-703-0667
Chris.Hamel@gmblueplan.ca

If you require any accommodations for a disability in order to attend and participate in meetings or events, contact the **Niagara Region's Accessibility Coordinator** at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca.

Personal information collected or submitted in writing at public meetings we be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

This notice was first issued on Feb. 27, 2020

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES



niagararegion.ca/projects/south-niagara-falls-treatment-plant

17 | Niagara This Week 21 | Thursday, February 27, 2020

niagarathisweek.com

» LOCAL

New legislation will require more PSWs: Home Care Ontario CEO

ALLEN BENNER
THE ST. CATHARINES STANDARD

Ontario will need more personal support workers than it has now if plans to ramp home care medical services are to succeed, says Home Care Ontario chief executive officer Sue VanderBent. VanderBent said the proposed Connecting People to Home and Community Care Act — announced by Health Minister Christine Elliott Tuesday — is “designed to modernize an old system that has been in place since the early 1990s and has become, over time, exceedingly bureaucratic.”



Home Care Ontario chief executive officer Sue VanderBent.

“The legislation will eliminate caps on the amount of in-home supports patients can receive, and give patients access to their own care plans, be able to self refer and have more access to transitional beds — among changes that are part of the provincial government’s broader effort to end halfway health care.”

“All these things are great,” VanderBent said.

But Ontario is already dealing with a serious shortage of personal support workers (PSWs), particularly in rural areas such as northern Ontario, she added. If the shortage isn’t addressed the increased focus on home care services will only exacerbate problems.

She said Niagara has been hard hit by the shortage, too, because of the region’s higher than average senior population.

“I think because of the beauty of the area, everybody is attracted to it to retire. People want to live there because it’s so lovely but services are hard to get,” said VanderBent, who lives in Hamilton.

She blamed the shortage on wages lagging behind pay offered to PSWs working in hospitals and long-term care homes, as well as shift splits home care workers often face in the early morning and evenings.

“Naturally they’re attracted to other jobs in the larger economy,” VanderBent said.

Home Care Ontario is urging the province to increase funding for PSWs working in the home care sector by five per cent in each of the next three years, to bring their salaries in line with PSWs

working in other health-care settings.

“Five per cent a year will help us catch up and attract our staff back,” VanderBent said.

During Tuesday’s announcement, Elliott said the changes will mean patients will receive “the home care they need as quickly and conveniently as possible, without having to tell their story over and over.”

The health teams will work together to understand a patient’s full medical history and “directly connect” him or her to the type of care needed, said Elliott — who hinted at such measures a year ago in announcing a major reform of the entire health-care system.

Under the existing system, all care is co-ordinated by approved agencies, which have been criticized as an extra layer of bureaucracy.

VanderBent said home care service providers hope the new legislation will be a catalyst to address PSW shortages, as well.

“I think government understands the critical role that home care plays and we’re very hopeful in this pre-budget time that they’re thinking carefully about what each region needs to really support people to stay at home,” she said.

“I think it makes it very clear that without the people we can’t possibly fulfil our mission here.”

— with files from The Toronto Star
Allen.Benner@niagaradailies.com
905-225-2629 @aenner1

Taste The Difference

Churchill Natural Meats *Gourmet Meats & Deli*



The Finest Tasting Naturally Raised, Hormone and Antibiotic-Free Meats

- Dry Aged Angus Beef
- Heritage Breeds of Pork
- Ready Made Meats
- Freezer Packs
- Artisan Cheeses
- Fresh Free Range Eggs
- Weekly Seafood Feature
- Free Run Chicken, Turkey & more

THIS WEEK'S SPECIALS

Free Run Chicken Drumsticks.....\$4.59/lb
Grand Beef Pork & Yal.....\$4.99/lb
Heritage Pork Rib Chop.....\$9.99/lb

IN THE DELI

Soppressata.....\$6.49/100g
Organic Swiss.....\$3.99/100g

Ray's Wild Game of the Week
\$1.00 Off Any Wild Game Sausage

WINTER HOURS
MON-FRI 10AM-6PM
SAT 8AM-6PM • SUN 11AM-4PM

Captain Paul's Seafood Feature:

\$1.00 OFF SMOKED TUNA
FREEZER SPECIAL
\$1.00 Off Hayters Turkey Frankfurters

Churchill Natural Meats

3 Churchill Street, Fonthill
289-897-8999

Drug Free Meats & Deli
www.churchillnaturalmeats.com

» LOCAL

Experts say wait for help with car trouble

You're taking your life in your hands when you get out of your vehicle on a 400-series highway

BILL SAWCHUK
THE ST. CATHARINES STANDARD

If you have a flat tire or scrape a guardrail, think carefully before getting out of your vehicle on the QEW, or any 400-series highway.

Experts agree — your life could hang in the balance.

“Here’s my tip for everybody,” Ontario Provincial Police Sgt. Kerry Schmidt said.

“If you ever are involved in a collision, first of all stay in your vehicle and keep your seatbelt on. Make sure your four-way hazard lights are flashing. You want to be as visible as possible to approaching motorists.”

Help is available by calling 911 or “OPP” he said. With “OPP” patrolling major highways, help is on its way.

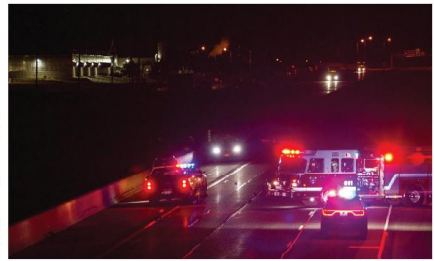
Schmidt’s advice — had it reached the right set of ears — might have saved a life earlier this year.

On Jan. 7, at about 3 a.m., a 28-year-old Niagara resident was killed on the QEW near the Ontario Street exit in Beamsville. His vehicle had sustained some front-end damage, possibly from hitting a guard rail, a police report said. With the vehicle stopped on the left shoulder, the driver tried to cross the highway.

He didn’t make it.

A transport truck hit him. Several vehicles following closely behind also ran over his body before police arrived. Some of the drivers of those vehicles didn’t realize they had hit someone. No charges were laid.

Schmidt said first responders never really get used to being on the side of the road as cars and trucks blast by at 100 km/h,



Police block the QEW after a St. Catharines man, 28, was hit and killed in January.

YOSTINA FILE PHOTO

“The Highway Traffic Act restricts the use of 400-series highways by pedestrians if you haven’t had car trouble. Police can issue a \$805 ticket and will move you to a safer place, whether you like it or not. The law covers all 400-series highways with four exceptions. One is in Niagara. Short sections of Highway 420 at it nears Niagara Falls are open to pedestrians and have sidewalks.

Schmidt said if a vehicle is involved in a minor crash on a major highway, the best bet is to drive the car to an exit and get off the highway if possible. The ideal spot to stop and wait for help, or change a tire, would be in a commuter parking lot or gas station.

When outside your vehicle on a highway, you’re also a distraction to traffic, Schmidt said.

“You are vulnerable as a motorist, and as a pedestrian,” Schmidt said. “You are dependent on the other motorists to drive slowly and for the condi-

tions. That doesn’t always happen and, sadly, we have seen numerous occasions where pedestrians have been killed because they are outside of their vehicle, and don’t realize traffic is coming toward them at highway speeds.

“You have very little time to react.”

In January, a video of a motorist standing on Highway 427 in Toronto and gesturing at passing cars made the rounds of social media, and caught Schmidt’s attention. He retrieved the video and added, “Don’t be this guy” to the caption.

South Central Ontario CAA branches field about 5,200 calls from stranded drivers on 400 series highways annually.

While crashes garner attention, many calls for roadside help to CAA are minor in nature. Battery boosts account for 41 per cent of calls while flat tires are responsible for five per cent. Calls for fuel amount to one per cent.

Cody Cabral, a public relations specialist with CAA, said there are steps that can help keep motorists and passengers safe. If there is a problem with the vehicle, safety should be top priority. Engage hazard lights and move as far off the highway as possible.

CAA said it is best for a motorist to remain in the vehicle with the seatbelt on and wait for help to arrive.

If you have to evaluate damage, use the side of the vehicle away from the roadway, and then drive and exit the highway if possible.

If you have any bright or reflective material, tie it on your antenna or door handle — and then make that call for help.

— with files from niagaradailies.com
905-225-2630 @bill_sawchuk

MOVING WATER FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE #3 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

COME VIEW THE PRELIMINARY PREFERRED SOLUTION

ABOUT THE STUDY

Niagara Region is planning ahead. We are working with the Cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls. We are also studying how we can make the overall sewer system better.

PUBLIC CONSULTATION

Your input is important throughout the process. You are invited to a Public Information Centre to learn more about the study.

The Region will be presenting the preliminary preferred solution including the **proposed wastewater treatment plant site, associated sewer strategy and plant discharge location.** The public will have the opportunity to speak to the project team, and provide comments and input on the preferred solution.

CONTACT

Ms. Lisa Vespi, P.Eng., PMP
Project Manager
Niagara Region
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario, L2V 4T7
905-980-6000 ext. 3640
New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.
Consultant Project Manager
GM BluePlan Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
416-703-0687
Chris.Hamel@gmblueplan.ca

If you require any accommodations for a disability in order to attend and participate in meetings or events, contact the **Niagara Region's Accessibility Coordinator** at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca.

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FO@niagararegion.ca

This notice was first issued on Feb. 27, 2020

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES
niagararegion.ca/projects/south-niagara-falls-treatment-plant

MOVING WATER FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE #3 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

COME VIEW THE PRELIMINARY PREFERRED SOLUTION

ABOUT THE STUDY

Niagara Region is planning ahead. We are working with the Cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant in South Niagara Falls. We are also studying how we can make the overall sewer system better.

PUBLIC CONSULTATION

Your input is important throughout the process. You are invited to a Public Information Centre to learn more about the study.

The Region will be presenting the preliminary preferred solution including the **proposed wastewater treatment plant site, associated sewer strategy and plant discharge location.** The public will have the opportunity to speak to the project team, and provide comments and input on the preferred solution.

CONTACT

Ms. Lisa Vespi, P.Eng., PMP
Project Manager
Niagara Region
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario, L2V 4T7
905-980-6000 ext. 3640
New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.
Consultant Project Manager
GM BluePlan Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
416-703-0687
Chris.Hamel@gmblueplan.ca

If you require any accommodations for a disability in order to attend and participate in meetings or events, contact the **Niagara Region's Accessibility Coordinator** at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca.

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FO@niagararegion.ca

This notice was first issued on Feb. 27, 2020

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES
niagararegion.ca/projects/south-niagara-falls-treatment-plant



Niagara Region updated the event cover photo in Public Information Centre #3 for South Niagara Falls Wastewater.

...

February 24 · 🌐



Niagara Region updated the event cover photo in Public Information Centre #3 for South Niagara Falls Wastewater.

...

February 24 · 🌐



👍 Like

💬 Comment



Niagara Region
@NiagaraRegion

▼

Don't forget that we're hosting a Facebook Live stream today at 3 p.m. today for the third public information centre for South Niagara Falls Wastewater Solutions.

You can also download the display boards and follow along with the presentation at: bit.ly/3cOVaAa



2:30 PM · Mar 11, 2020 · TweetDeck

1 Retweet





Niagara Region
@NiagaraRegion



This Facebook Live stream is happening tomorrow (March 11) from 3-4 p.m. Tune in for an overview of the preliminary preferred solution for the South Niagara Falls Wastewater Solutions.



Niagara Region @NiagaraRegion · Mar 4

Can't make it in person to the third public information centre for the South #NiagaraFalls Wastewater Treatment Plant?

No worries! Tune into our Facebook Live stream from 3-4 p.m. on March 11 for an overview of the preliminary preferred solution: facebook.com/niagararegion/ twitter.com/NiagaraRegion/...

9:28 AM · Mar 10, 2020 · [TweetDeck](#)

2 Likes



Niagara Region @NiagaraRegion · Mar 4



Can't make it in person to the third public information centre for the South #NiagaraFalls Wastewater Treatment Plant?

No worries! Tune into our Facebook Live stream from 3-4 p.m. on March 11 for an overview of the preliminary preferred solution:

facebook.com/niagararegion/



Niagara Region @NiagaraRegion · Feb 24

Join us March 11 from 5-7 p.m. for the third public information centre on the South Niagara Falls Wastewater Solutions. Staff will be presenting the preliminary preferred solution. Learn more at: bit.ly/2HOi1h6



2





Niagara Region was live.
about a month ago · 🌐

Follow

Niagara Region is planning ahead for the new wastewater treatment plant in the South Niagara Falls area. At the third public information centre, Lisa Vespi from Niagara Region and Chris Hamel from GM BluePlan Engineering present the preliminary preferred solution including the proposed wastewater treatment plant site, associated sewer strategy and plant discharge location. Send us your questions live and follow along with the display boards by downloading them at: <https://www.niagararegion.ca/.../pic3-dis...>
See Less

15 7 Shares 2.9K Views

Like Comment Share

Comments Up Next

Most Relevant ▾

[Redacted] · 25:39 As long as you consider the lower Welland River in your process. There is boating, fishing, swimming, canoeing on that portion of the river as well.
 · 4w 2

[Redacted] · 7:23 I never had a chance to comment.
 · 4w

Niagara Region · 26:35 Hi John, You can send us your comments and questions at any time!
 · 4w 1

[Redacted] · 15:01 **Niagara Region** 1/5/8 make no sense the Welland river is used for recreational purposes. I live right at Montrose and Oakwood dr. When this project was announced I had guessed that site 4 was the perfect one. There is already a pumping station on Montrose on other side of river and it's not that old. Also we have no sewers on the north side of the river because of the force main.
 · 4w

Most Relevant ▾

[Redacted] · 0:00 Site 8 is going to have smell issues with all the housing thats being built around. Also the plant in the north end is really bad for smells and most days we have to leave windows closed. Will that be an issue at the new plant?
 · 4w

[Redacted] · 16:12 There are many opportunities for odour control nowadays. Options are varied, and depend on the design & operation of the plant, but great question to ask at this time!
 · 3w 1

Most Relevant ▾

· 3w

Niagara Region · 0:00 Hi John, Thanks for your feedback. Odour is an important consideration under this study and will be further assessed during the next phase of this Class Environmental Assessment as we consider design alternatives for the new plant. Odour control technology has advanced significantly and a new plant will be designed to minimize the potential for odour impact to surrounding land uses. Site 8 is a large greenfield site that has good potential to buffer surrounding land uses compared to Site 4. The evaluation considered factors such as environmental, social, legal, technical and financial. For more information, you can visit our website at: <://niagararegion.ca/.../south-niagara-falls.../default.aspx>
 · 3w

[Redacted] Write a reply...



Niagara Region · 2:57 Share your questions and comments with us live!

· 4w

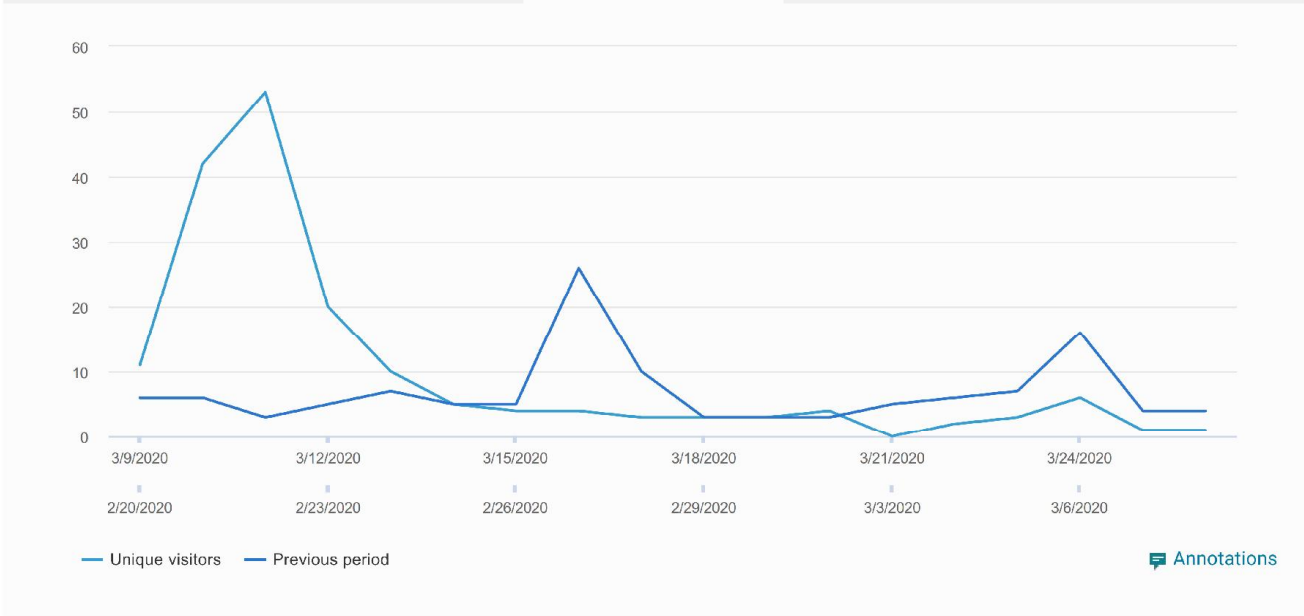
Page South Niagara Falls Wastewater Solutions - Niagara Region, Ontario https://www.niagararegion.ca/projects/south-niagara-falls-treatment-plant/default.aspx	Period 3/9/2020 - 3/26/2020	Filter External Only
--	---------------------------------------	--------------------------------

Page Overview

Historical Comparison

Compare to Align weekdays

Visits 188 +61	Page views 243 +56	Unique visitors 165 +46	Returning visitors 55 +16	Bounce rate 65.97% +6.63
-----------------------------	---------------------------------	--------------------------------------	--	---------------------------------------



Most Frequent



From
Canada



Using
Desktop



Operating system
Windows 10



Browser
Chrome 80.0



Resolution
1920 1080

APPENDIX B
PIC NO. 3 DISPLAY BOARDS

Welcome!

South Niagara Falls Wastewater Solutions Schedule C Class Environmental Assessment

Public Information Centre No. 3

Wednesday, March 11, 2020

5:00 to 7:00 p.m.

MacBain Community Centre – Multi-purpose Room D and E



South Niagara Falls Wastewater Solutions
Municipal Schedule 'C' Class Environmental Assessment



Welcome!

Please sign in and take a comment sheet.

Meeting is a “drop-in” format with display materials.

Take an information bulletin and review the display materials.

Members of the study team are available to answer questions.

We welcome your feedback as your opinion can influence this study.

Please place comment sheets in the box provided.

Please note that photos and videos will be taken during this event. If you have any concerns, please speak to a member of the project team.



South Niagara Falls Wastewater Solutions
Municipal Schedule 'C' Class Environmental Assessment

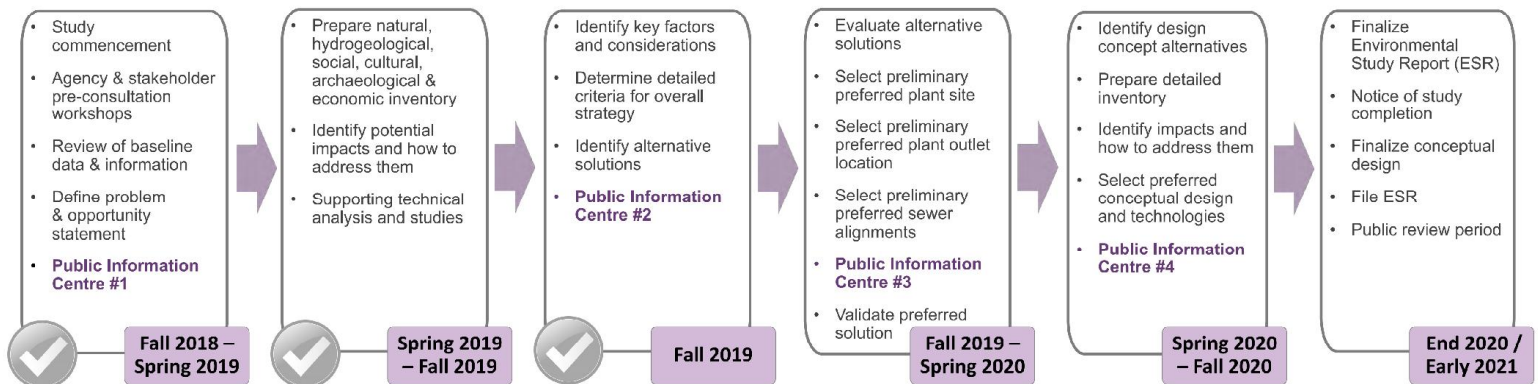


Themes for Today's Public Information Centre

1. Present the study **recommendations** and the **preliminary preferred solution**
2. Review the three major study components:
 - Treatment plant site
 - Outfall location and receiving waterbody
 - Collection system strategy
3. Provide clarity on the evaluation process and results
4. Identify next steps and study commitments to confirm preferred solution and support design concepts
5. Receive feedback on the preliminary preferred solution



Environmental Assessment Process and Timeline

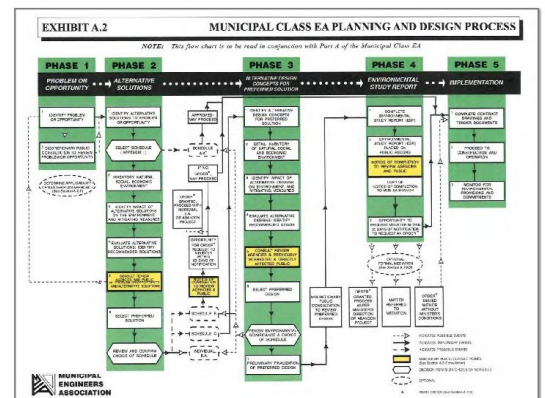


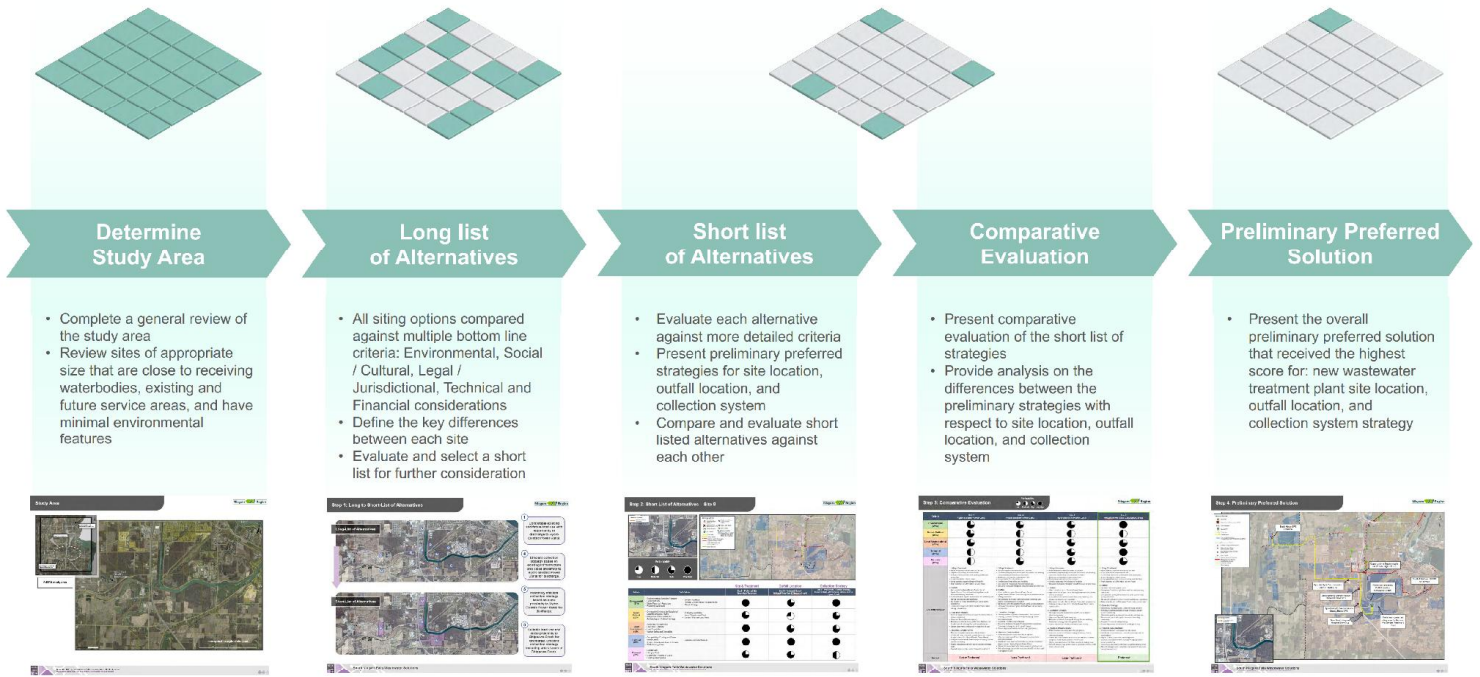
Stakeholder Engagement

This study is following the Class Environmental Assessment (EA) process, which is a decision-making process that all Ontario municipalities follow for building new infrastructure. Success of the Class EA process requires active stakeholder engagement.

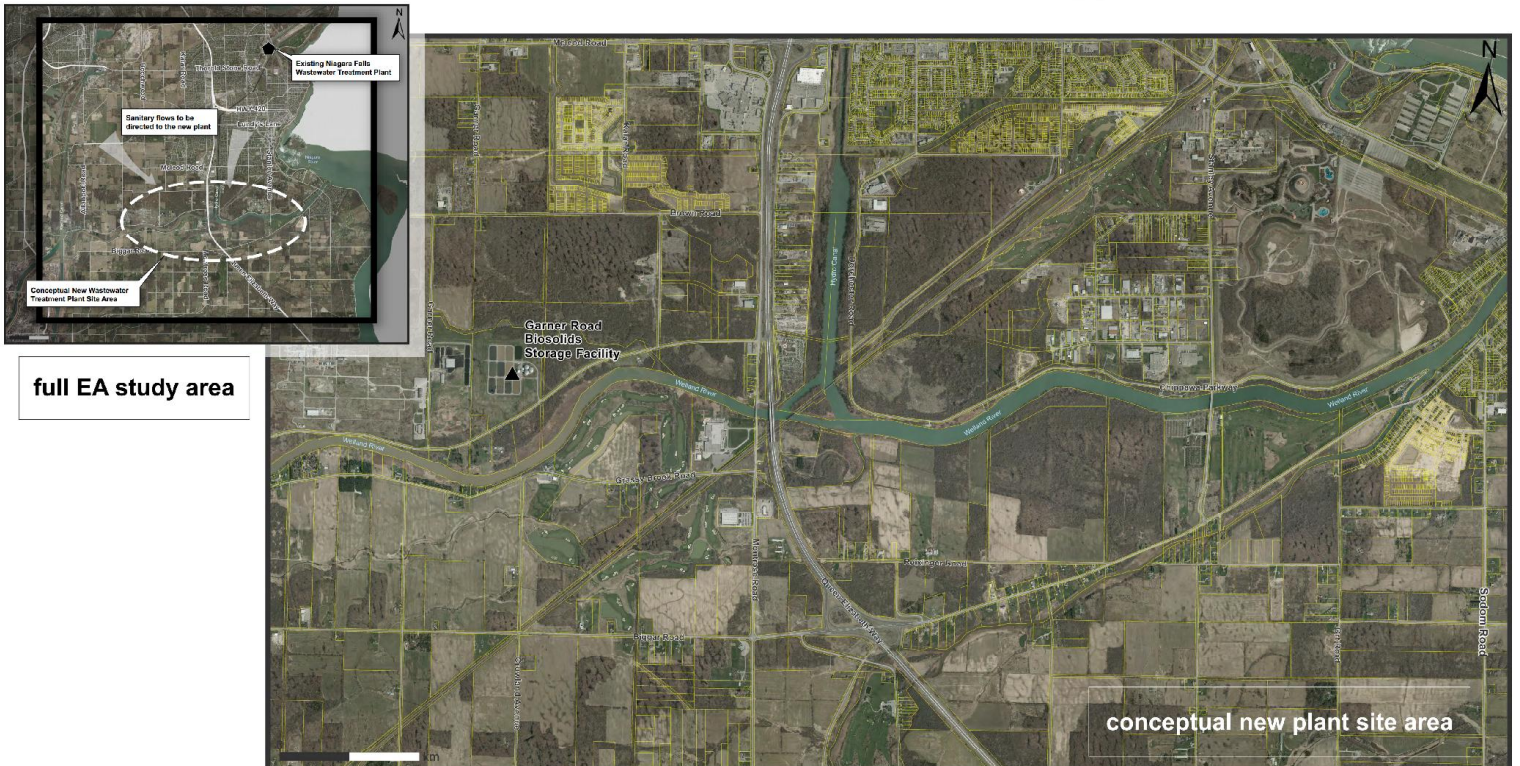
Key stakeholders in this study include:

- Federal Ministries
- Provincial Ministries
- Local Municipalities
- Indigenous Communities
- Ontario Power Generation
- Public Service Providers
- Property Owners
- Communities (including businesses and residents)
- Rail / Transit
- Utilities





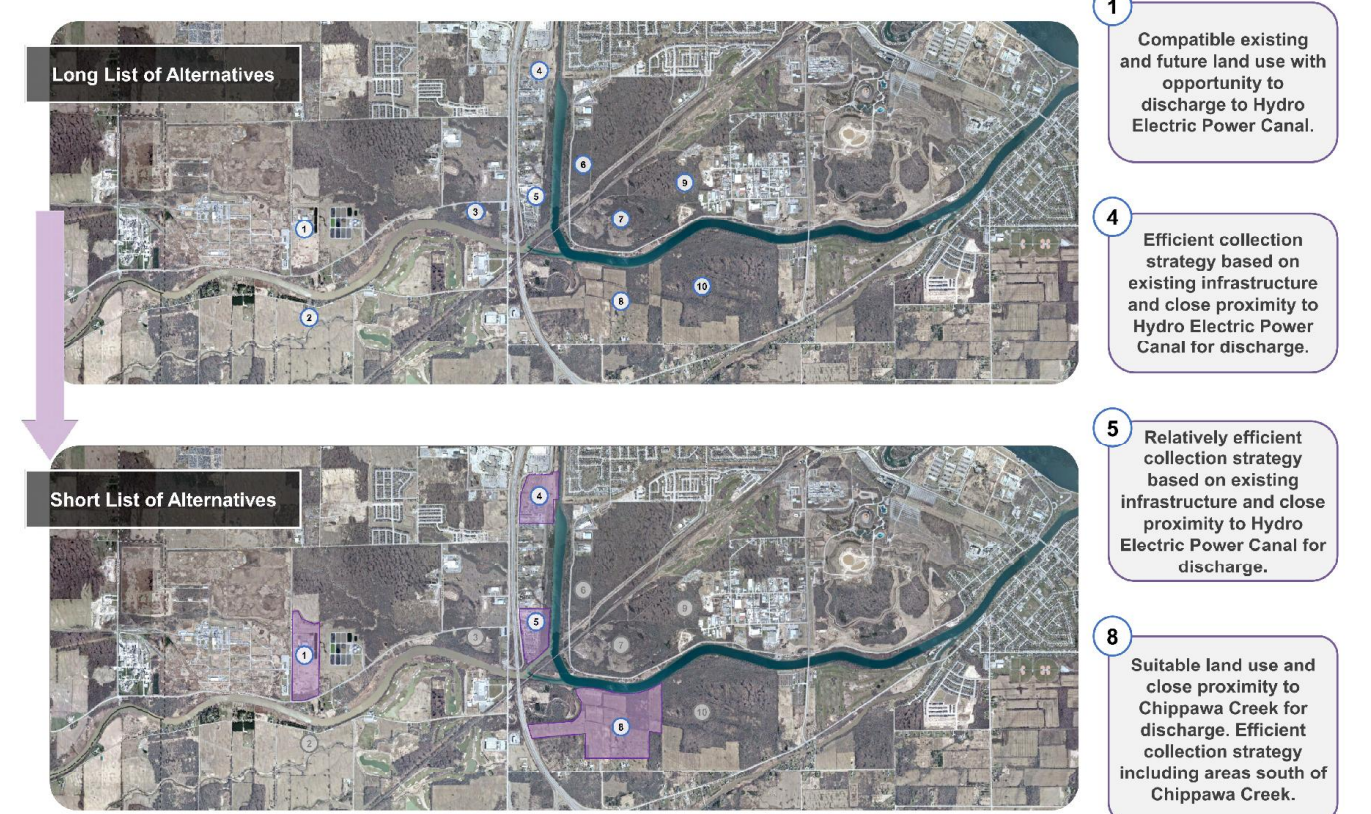
Study Area

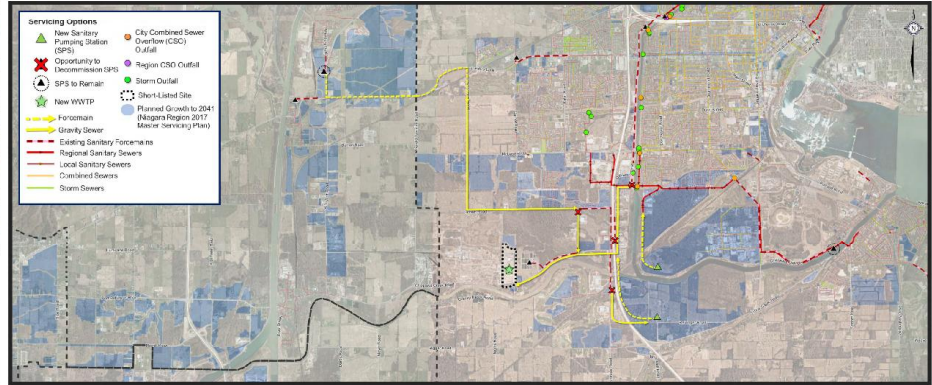


Criteria	Site 1		Site 2		Site 3	Site 4	Site 5	Site 6	Site 7			Site 8	Site 9		Site 10		
	Option 1A Welland River	Option 1B HEPC	Option 2A Welland River	Option 2B HEPC	Site 3 HEPC	Site 4 HEPC	Site 5 HEPC	Site 6 HEPC	Option 7A HEPC	Option 7B Chippawa Creek	Option 8A HEPC	Option 8B Chippawa Creek	Option 9A Chippawa Creek	Option 9B Welland River	Option 10A Chippawa Creek	Option 10B Niagara River	
Environmental	Receiving waterbody (Welland River) is more environmentally sensitive than Hydro Electric Power Canal (HEPC) and Chippawa Creek. Site has minimal environmental constraints (EPA is not a barrier) reducing potential for siting impact.	Receiving waterbody (Hydro Electric Power Canal) is less environmentally sensitive than Welland River. Site has minimal environmental constraints reducing potential for siting impact.	Receiving waterbody (Welland River) is more environmentally sensitive than HEPC and Chippawa Creek. Site has minimal environmental constraints reducing potential for siting impact.	Receiving waterbody (Hydro Electric Power Canal) is less environmentally sensitive than Welland River. Site has minimal environmental constraints reducing potential for siting impact. Duffel requires crossing of significant wetland features.	Receiving waterbody (Hydro Electric Power Canal) is less environmentally sensitive than Welland River. Site is constrained by environmental features including significant wetland features.	Receiving waterbody (Hydro Electric Power Canal) is less environmentally sensitive than Welland River. Site has minimal environmental features reducing potential for siting impact.	Receiving waterbody (Hydro Electric Power Canal) is less environmentally sensitive than Welland River. Site has minimal environmental features reducing potential for siting impact.	Receiving waterbody (Hydro Electric Power Canal) is less environmentally sensitive than Welland River. Site has minimal environmental features reducing potential for siting impact.	Receiving waterbody (Hydro Electric Power Canal) is less environmentally sensitive than Welland River. Site has minimal environmental features reducing potential for siting impact.	Receiving waterbody (Hydro Electric Power Canal) is less environmentally sensitive than Welland River. Site is constrained by environmental features including scattered wetland complexes and deer complexes.	Receiving waterbody (Chippawa Creek) is less environmentally sensitive than Welland River. Site is constrained by environmental features including scattered wetland complexes.	Receiving waterbody (Hydro Electric Power Canal) is less environmentally sensitive than Welland River. Site has minimal environmental features reducing potential for siting impact.	Receiving waterbody (Chippawa Creek) is less environmentally sensitive than Welland River. Site is moderately constrained by environmental features including scattered wetland complexes.	Receiving waterbody (Chippawa Creek) is less environmentally sensitive than Welland River. Site is moderately constrained by environmental features including scattered wetland complexes.	Receiving waterbody (Niagara River) is less environmentally sensitive than Welland River. Site is moderately constrained by environmental features including scattered wetland complexes.	Receiving waterbody (Chippawa Creek) is less environmentally sensitive than Welland River. Site is constrained by environmental features including scattered wetland complexes.	Receiving waterbody (Niagara River) is less environmentally sensitive than Welland River. Site is constrained by environmental features including scattered wetland complexes.
Social / Cultural	Site is removed from core existing and future development areas. Receiving waterbody has existing recreational use increasing potential for impact during construction.	Site is removed from core existing and future development areas. Receiving waterbody has existing recreational use increasing potential for impact during construction.	Increased potential impact to future residential properties to the east. Receiving waterbody has existing recreational use increasing potential for impact during construction.	Increased potential impact to future residential properties to the east. Receiving waterbody has existing recreational use increasing potential for impact during construction.	Site is well buffered by natural features limiting potential impact to surrounding residential / retail use. Receiving waterbody has no public access reducing potential for impact during construction.	Increased potential impact to existing residential properties and existing future commercial / retail use. Receiving waterbody has no public access reducing potential for impact during construction.	Increased potential impact to future residential properties. Receiving waterbody has no public access reducing potential for impact during construction.	Increased potential impact to future residential properties. Receiving waterbody has no public access reducing potential for impact during construction.	Increased potential impact to future residential properties. Receiving waterbody has no public access reducing potential for impact during construction.	Increased potential impact to future residential properties. Receiving waterbody has no public access reducing potential for impact during construction.	Increased potential impact to future residential properties. Receiving waterbody has no public access reducing potential for impact during construction.	Large site exhibits adequate buffer to future commercial properties. Receiving waterbody has no public access reducing potential for impact during construction.	Large site exhibits adequate buffer to future commercial properties. Receiving waterbody has no public access reducing potential for impact during construction.	Increased potential impact to future residential properties and existing future commercial / retail use. Receiving waterbody has existing recreational use increasing potential for impact during construction.	Increased potential impact to future residential properties and existing future commercial / retail use. Receiving waterbody has existing recreational use increasing potential for impact during construction.	Increased potential impact to future residential properties. Receiving waterbody has existing recreational use increasing potential for impact during construction.	Increased potential impact to future residential properties. Receiving waterbody has existing recreational use increasing potential for impact during construction.
Legal / Jurisdictional	Suitable existing, future and surrounding land use (residential / industrial). Receiving waterbody increasing permitting and approval requirements.	Suitable existing, future and surrounding land use (open space). Receiving waterbody increasing permitting and approval requirements.	Suitable existing, future and surrounding land use (open space). Receiving waterbody increasing permitting and approval requirements.	Suitable existing, future and surrounding land use (open space). Receiving waterbody increasing permitting and approval requirements.	Existing land use is not compatible for siting purposes. Significant environmental constraints increasing permitting and approval requirements.	Existing land use includes mixed commercial / residential. Receiving waterbody has no public access reducing potential for impact during construction.	Future land use (residential) is not compatible for siting purposes. Significant environmental constraints increasing permitting and approval requirements.	Future land use (residential) is not compatible for siting purposes. Significant environmental constraints increasing permitting and approval requirements.	Future land use (residential) is not compatible for siting purposes. Significant environmental constraints increasing permitting and approval requirements.	Future land use (residential) is not compatible for siting purposes. Significant environmental constraints increasing permitting and approval requirements.	Existing land is being used for agriculture. Suitable future land use (commercial).	Existing land is being used for agriculture. Suitable future land use (commercial).	Existing land is being used for agriculture. Suitable future land use (commercial).	Future land use (residential) is not compatible for siting purposes.	Future land use (residential) is not compatible for siting purposes.	Suitable existing and future land use (commercial). Significant environmental constraints increasing permitting and approval requirements.	Suitable existing and future land use (commercial). Significant environmental constraints increasing permitting and approval requirements.
Technical	Complex treatment needed to meet effluent criteria objectives due to more sensitive receiving waterbody. Short outlet to reach receiving waterbody. Inefficient collection strategy.	Reduced treatment complexity needed to meet effluent criteria objectives due to more sensitive receiving waterbody. Long outlet required to reach receiving waterbody. Inefficient collection strategy.	Complex treatment needed to meet effluent criteria objectives due to more sensitive receiving waterbody. Short outlet to reach receiving waterbody. Inefficient collection strategy.	Reduced treatment complexity needed to meet effluent criteria objectives. Limited land availability for future planning due to environmental constraints. Relatively efficient collection strategy.	Reduced treatment complexity needed to meet effluent criteria objectives. Short outlet to reach receiving waterbody. Facilities long term planning and phasing. Relatively efficient collection strategy.	Reduced treatment complexity needed to meet effluent criteria objectives. Short outlet to reach receiving waterbody. Facilities long term planning and phasing. Relatively efficient collection strategy.	Reduced treatment complexity needed to meet effluent criteria objectives. Short outlet to reach receiving waterbody. Facilities long term planning and phasing. Relatively efficient collection strategy.	Reduced treatment complexity needed to meet effluent criteria objectives. Short outlet to reach receiving waterbody. Facilities long term planning and phasing. Relatively efficient collection strategy.	Reduced treatment complexity needed to meet effluent criteria objectives. Short outlet to reach receiving waterbody. Facilities long term planning and phasing. Relatively efficient collection strategy.	Reduced treatment complexity needed to meet effluent criteria objectives. Short outlet to reach receiving waterbody. Facilities long term planning and phasing. Relatively efficient collection strategy.	Reduced treatment complexity needed to meet effluent criteria objectives. Short outlet to reach receiving waterbody. Facilities long term planning and phasing. Relatively efficient collection strategy.	Complex treatment needed to meet effluent criteria objectives. Facilities long term planning and phasing. Inefficient collection strategy.	Complex treatment needed to meet effluent criteria objectives. Facilities long term planning and phasing. Inefficient collection strategy.	Short outlet to reach receiving waterbody. Limited land availability for future planning due to environmental constraints. Difficult collection strategy.	Long outlet required to reach receiving waterbody. Limited land availability for future planning due to environmental constraints. Difficult collection strategy.	Short outlet to reach receiving waterbody. Limited land availability for future planning due to environmental constraints. Relatively efficient collection strategy.	Long outlet required to reach receiving waterbody. Limited land availability for future planning due to environmental constraints. Relatively efficient collection strategy.
Financial	Increased costs associated with treatment and inefficient collection strategy.	Increased costs associated with treatment and inefficient collection strategy.	Increased costs associated with treatment and inefficient collection strategy.	Reduced costs associated with short outlet and efficient collection strategy.	Reduced costs associated with short outlet and efficient collection strategy.	Reduced costs associated with short outlet and efficient collection strategy.	Reduced costs associated with short outlet and efficient collection strategy.	Reduced costs associated with short outlet and efficient collection strategy.	Reduced costs associated with short outlet and efficient collection strategy.	Reduced costs associated with short outlet and efficient collection strategy.	Increased costs associated with length of outlet required. Reduced costs associated with efficient collection strategy.	Reduced costs associated with short outlet and efficient collection strategy.	Reduced costs associated with short outlet and efficient collection strategy.	Reduced costs associated with short outlet and efficient collection strategy.	Reduced costs associated with short outlet and efficient collection strategy.	Reduced costs associated with short outlet and efficient collection strategy.	Increased costs associated with length of outlet required and inefficient collection strategy.
Site Differentiator	Concern with effluent discharge to Welland River and environmental implications.	Compatible existing and future land use with opportunity to discharge to Hydro Electric Power Canal.	Concern with effluent discharge to Welland River and environmental implications. Difficult and costly collection strategy.	Difficult outlet strategy to HEPC. Difficult and costly collection strategy.	Efficient collection strategy based on existing infrastructure and close proximity to Hydro Electric Power Canal for discharge.	Relatively efficient collection strategy based on existing infrastructure and close proximity to Hydro Electric Power Canal for discharge.	Inefficient collection strategy based on existing infrastructure and close proximity to Hydro Electric Power Canal for discharge.	Inefficient collection strategy based on existing infrastructure and close proximity to Hydro Electric Power Canal for discharge.	Inefficient collection strategy based on existing infrastructure and close proximity to Hydro Electric Power Canal for discharge.	Inefficient collection strategy based on existing infrastructure and close proximity to Hydro Electric Power Canal for discharge.	Suitable land use and close proximity to Chippawa Creek for discharge. Efficient collection strategy including areas south of Chippawa Creek presents favourable Site 8 option.	Suitable land use and close proximity to Chippawa Creek for discharge. Efficient collection strategy including areas south of Chippawa Creek.	Difficult collection strategy. Land availability constrained.	Difficult collection strategy. Land availability constrained.	Increased environmental constraints.	Increased environmental constraints.	
Feasibility	X	✓	X	X	X	✓	X	X	X	X	X	✓	X	X	X	X	

South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment

Step 1: Long to Short List of Alternatives





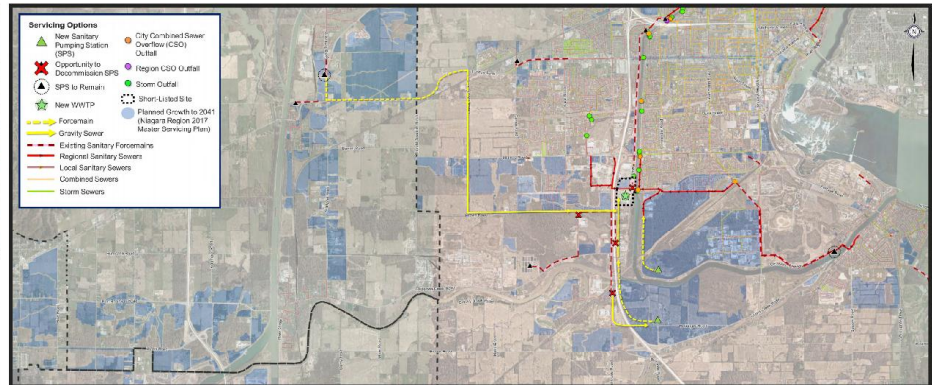
Preferability



Criteria	Sub-Criteria	Site & Treatment	Outfall Location	Collection Strategy
		Site 1 – Preferred Site Secondary Treatment	Site 1 – Preferred Outfall Hydro Electric Power Canal	Site 1 – Preferred Collection Strategy Remove High Lift Pumping Station and no Lyons Creek
Environmental (25%)	<ul style="list-style-type: none"> Environmentally Sensitive Features Species at Risk Water Features / Resources Receiving Waterbody 	<ul style="list-style-type: none"> System Overflows Physical Environmental Considerations Climate Change 		
Social / Cultural (25%)	<ul style="list-style-type: none"> Community Concerns for Residents / Local Businesses / Traffic Indigenous Communities and Archaeological / Cultural Heritage 	<ul style="list-style-type: none"> Air Quality and Odour Noise, Vibration and Dust Current / Planned Land Uses 		
Legal / Jurisdictional (10%)	<ul style="list-style-type: none"> Approvals / Coordination Land Use Suitability Land Acquisition Worker Safety and Operability 			
Technical (20%)	<ul style="list-style-type: none"> Compatibility / Existing and Future Infrastructure System Security and Level of Service Traffic Management 	<ul style="list-style-type: none"> Operation and Maintenance 		
Financial (20%)	<ul style="list-style-type: none"> Capital Cost Lifecycle Cost Cash Flow / Phasing of Costs Funding Opportunities 			



South Niagara Falls Wastewater Solutions
Municipal Schedule 'C' Class Environmental Assessment



Preferability

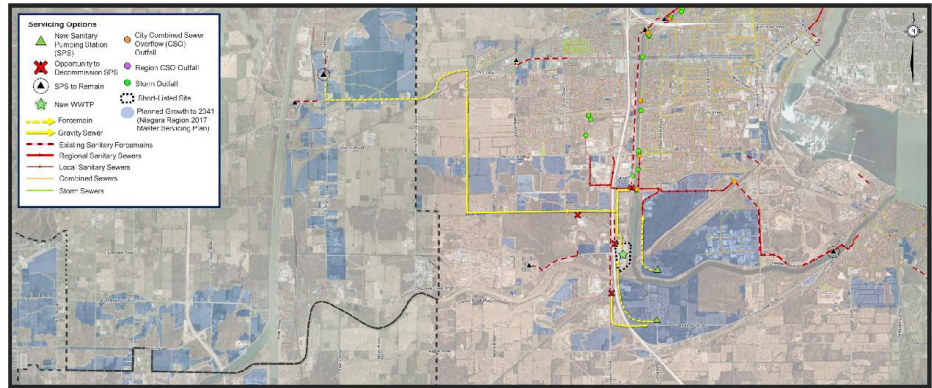


Criteria	Sub-Criteria	Site & Treatment	Outfall Location	Collection Strategy
		Site 4 – Preferred Site Secondary Treatment	Site 4 – Preferred Outfall Hydro Electric Power Canal	Site 4 – Preferred Collection Strategy Remove High Lift Pumping Station and no Lyons Creek
Environmental (25%)	<ul style="list-style-type: none"> Environmentally Sensitive Features Species at Risk Water Features / Resources Receiving Waterbody 	<ul style="list-style-type: none"> System Overflows Physical Environmental Considerations Climate Change 		
Social / Cultural (25%)	<ul style="list-style-type: none"> Community Concerns for Residents / Local Businesses / Traffic Indigenous Communities and Archaeological / Cultural Heritage 	<ul style="list-style-type: none"> Air Quality and Odour Noise, Vibration and Dust Current / Planned Land Uses 		
Legal / Jurisdictional (10%)	<ul style="list-style-type: none"> Approvals / Coordination Land Use Suitability Land Acquisition Worker Safety and Operability 			
Technical (20%)	<ul style="list-style-type: none"> Compatibility / Existing and Future Infrastructure System Security and Level of Service Traffic Management 	<ul style="list-style-type: none"> Operation and Maintenance 		
Financial (20%)	<ul style="list-style-type: none"> Capital Cost Lifecycle Cost Cash Flow / Phasing of Costs Funding Opportunities 			



South Niagara Falls Wastewater Solutions
Municipal Schedule 'C' Class Environmental Assessment

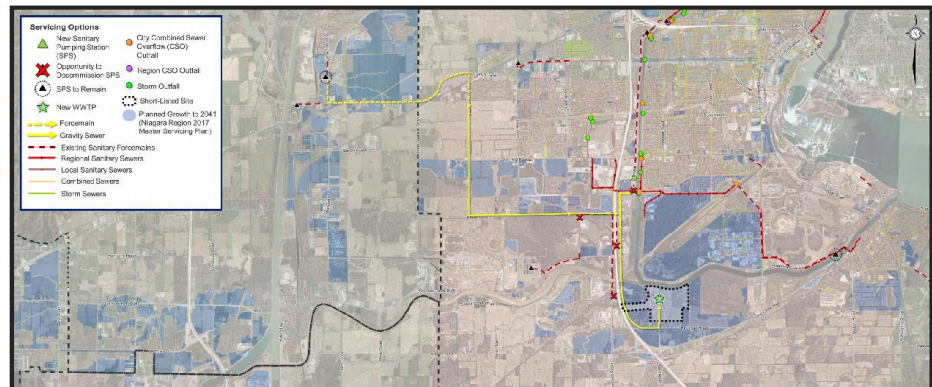
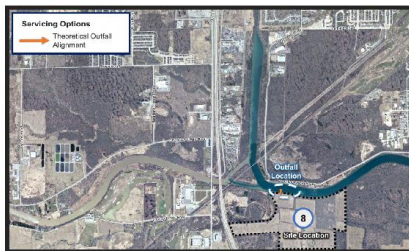




Preferability



Criteria	Sub-Criteria	Site 5 – Preferred Site	Outfall Location	Collection Strategy
		Secondary Treatment	Site 5 – Preferred Outfall Hydro Electric Power Canal	Site 5 – Preferred Collection Strategy Remove High Lift Pumping Station and no Lyons Creek
Environmental (25%)	<ul style="list-style-type: none"> Environmentally Sensitive Features Species at Risk Water Features / Resources Receiving Waterbody 	<ul style="list-style-type: none"> System Overflows Physical Environmental Considerations Climate Change 		
Social / Cultural (25%)	<ul style="list-style-type: none"> Community Concerns for Residents / Local Businesses / Traffic Indigenous Communities and Archaeological / Cultural Heritage 	<ul style="list-style-type: none"> Air Quality and Odour Noise, Vibration and Dust Current / Planned Land Uses 		
Legal / Jurisdictional (10%)	<ul style="list-style-type: none"> Approvals / Coordination Land Use Suitability Land Acquisition Worker Safety and Operability 			
Technical (20%)	<ul style="list-style-type: none"> Compatibility / Existing and Future Infrastructure System Security and Level of Service Traffic Management 	<ul style="list-style-type: none"> Operation and Maintenance 		
Financial (20%)	<ul style="list-style-type: none"> Capital Cost Lifecycle Cost Cash Flow / Phasing of Costs Funding Opportunities 			



Preferability



Criteria	Sub-Criteria	Site 8 – Preferred Site	Outfall Location	Collection Strategy
		Secondary Treatment	Site 8 – Preferred Outfall Welland River East (Chippawa Creek)	Site 8 – Preferred Collection Strategy Remove High Lift Pumping Station and no Lyons Creek
Environmental (25%)	<ul style="list-style-type: none"> Environmentally Sensitive Features Species at Risk Water Features / Resources Receiving Waterbody 	<ul style="list-style-type: none"> System Overflows Physical Environmental Considerations Climate Change 		
Social / Cultural (25%)	<ul style="list-style-type: none"> Community Concerns for Residents / Local Businesses / Traffic Indigenous Communities and Archaeological / Cultural Heritage 	<ul style="list-style-type: none"> Air Quality and Odour Noise, Vibration and Dust Current / Planned Land Uses 		
Legal / Jurisdictional (10%)	<ul style="list-style-type: none"> Approvals / Coordination Land Use Suitability Land Acquisition Worker Safety and Operability 			
Technical (20%)	<ul style="list-style-type: none"> Compatibility / Existing and Future Infrastructure System Security and Level of Service Traffic Management 	<ul style="list-style-type: none"> Operation and Maintenance 		
Financial (20%)	<ul style="list-style-type: none"> Capital Cost Lifecycle Cost Cash Flow / Phasing of Costs Funding Opportunities 			

Step 3: Comparative Evaluation



Criteria	Site 1 Hydro Electric Power Canal	Site 4 Hydro Electric Power Canal	Site 5 Hydro Electric Power Canal	Site 8 Welland River East (Chippawa Creek)
Environmental (25%)				
Social / Cultural (25%)				
Legal / Jurisdictional (10%)				
Technical (20%)				
Financial (20%)				
Site Differentiator	<p>1. Siting / Treatment:</p> <ul style="list-style-type: none"> Minor environmental features on the site Adjacent to existing Bioscience Plant Furthest removed from core existing and future residential Low potential for cultural impact Large area to support siting and flexibility High potential to buffer odour, air and noise <p>2. Outfall:</p> <ul style="list-style-type: none"> Long outfall to Hydro Electric Power Canal Hydro Electric Power Canal has high flows and favourable mixing conditions Low potential to impact recreational and waterway use during construction and operation No impact to Hydro Electric Power Canal during operations Temporary impact on Hydro Electric Power Canal during construction <p>3. Collection Strategy:</p> <ul style="list-style-type: none"> Strategy supports existing Sewage Pumping Station decommissioning Supports Thorold South servicing Requires additional Sewage Pumping Station and long forcemain strategy for south growth areas Sewer alignments anticipated in road right-of-way <p>4. Financial Considerations:</p> <ul style="list-style-type: none"> Plant construction costs same for all options Outfall will have elevated construction costs related to length to reach the Hydro Electric Power Canal Lifecycle costs benefit from Sewage Pumping Station decommissioning Higher risk associated with future servicing strategy cost Overall strategy more costly than options 4, 5 & 8 	<p>1. Siting / Treatment:</p> <ul style="list-style-type: none"> Minimal environmental features on the site Increased property acquisition risk associated with existing and planned commercial developments Moderate potential for contaminated soil Low potential for cultural impact Smaller area limits siting and flexibility Site closer to residential and commercial uses Requires increased mitigation to buffer odour, air and noise <p>2. Outfall:</p> <ul style="list-style-type: none"> Short outfall to Hydro Electric Power Canal Hydro Electric Power Canal has high flows and favourable mixing conditions Low potential to impact recreational and waterway use during construction and operation No impact to Hydro Electric Power Canal during operations Temporary impact on Hydro Electric Power Canal during construction <p>3. Collection Strategy:</p> <ul style="list-style-type: none"> Existing system supports conveyance to this location Strategy supports existing Sewage Pumping Station decommissioning Supports Thorold South servicing Requires additional Sewage Pumping Station and long forcemain strategy for south growth areas Sewer alignments anticipated in road right-of-way <p>4. Financial Considerations:</p> <ul style="list-style-type: none"> Plant construction costs same for all options Lifecycle costs benefit from Sewage Pumping Station decommissioning Outfall will have lower construction cost related to shorter length to reach Hydro Electric Power Canal Higher risk associated with future servicing strategy cost Overall strategy has similar costs to option 5 but less costly than options 1 & 8 	<p>1. Siting / Treatment:</p> <ul style="list-style-type: none"> Minimal environmental features on the site Increased property acquisition risk associated with existing seasonal recreational use and hydro corridor Moderate potential for contaminated soil Low potential for cultural impact Smaller area may limit siting and flexibility Requires increased mitigation to buffer odour, air and noise <p>2. Outfall:</p> <ul style="list-style-type: none"> Short outfall to Hydro Electric Power Canal Hydro Electric Power Canal has high flows and favourable mixing conditions Low potential to impact recreational and waterway use during construction and operation No impact to Hydro Electric Power Canal during operations Temporary impact on Hydro Electric Power Canal during construction <p>3. Collection Strategy:</p> <ul style="list-style-type: none"> Strategy supports existing Sewage Pumping Station decommissioning Supports Thorold South servicing Requires additional Sewage Pumping Station and long forcemain strategy for south growth areas Sewer alignments anticipated in road right-of-way <p>4. Financial Considerations:</p> <ul style="list-style-type: none"> Plant construction costs same for all options Lifecycle costs benefit from Sewage Pumping Station decommissioning Outfall will have lower construction cost related to shorter length to reach Hydro Electric Power Canal Higher risk associated with future servicing strategy cost Overall strategy has similar costs to option 4 but less costly than options 1 & 8 	<p>1. Siting / Treatment:</p> <ul style="list-style-type: none"> Minimal environmental features on the site Low potential for contaminated soil Good road access for construction and operations Low potential for cultural impact Large greenfield area to support siting and flexibility High potential to buffer odour, air and noise <p>2. Outfall:</p> <ul style="list-style-type: none"> Short outfall to Chippawa Creek Chippawa Creek has high flows and favourable mixing conditions Low potential to impact recreational and waterway use during operation No impact to Hydro Electric Power Canal during operations Temporary impact on Chippawa Creek during construction <p>3. Collection Strategy:</p> <ul style="list-style-type: none"> Deep trunk sewer provides future servicing flexibility Strategy supports existing Sewage Pumping Station decommissioning Maximizes gravity servicing of the south growth areas Deep trunk sewer will require increased tunneling complexity Supports Thorold South servicing Sewer alignments anticipated in road right-of-way <p>4. Financial Considerations:</p> <ul style="list-style-type: none"> Plant construction costs same for all options Outfall will have elevated construction costs related to water depth Higher upfront trunk sewer servicing costs Lifecycle costs benefit from Sewage Pumping Station decommissioning Lowest risk associated with future servicing strategy cost Overall strategy more costly than options 4 & 5 but is less costly than option 1
Impact	Least Preferred	Less Preferred	Less Preferred	Preferred

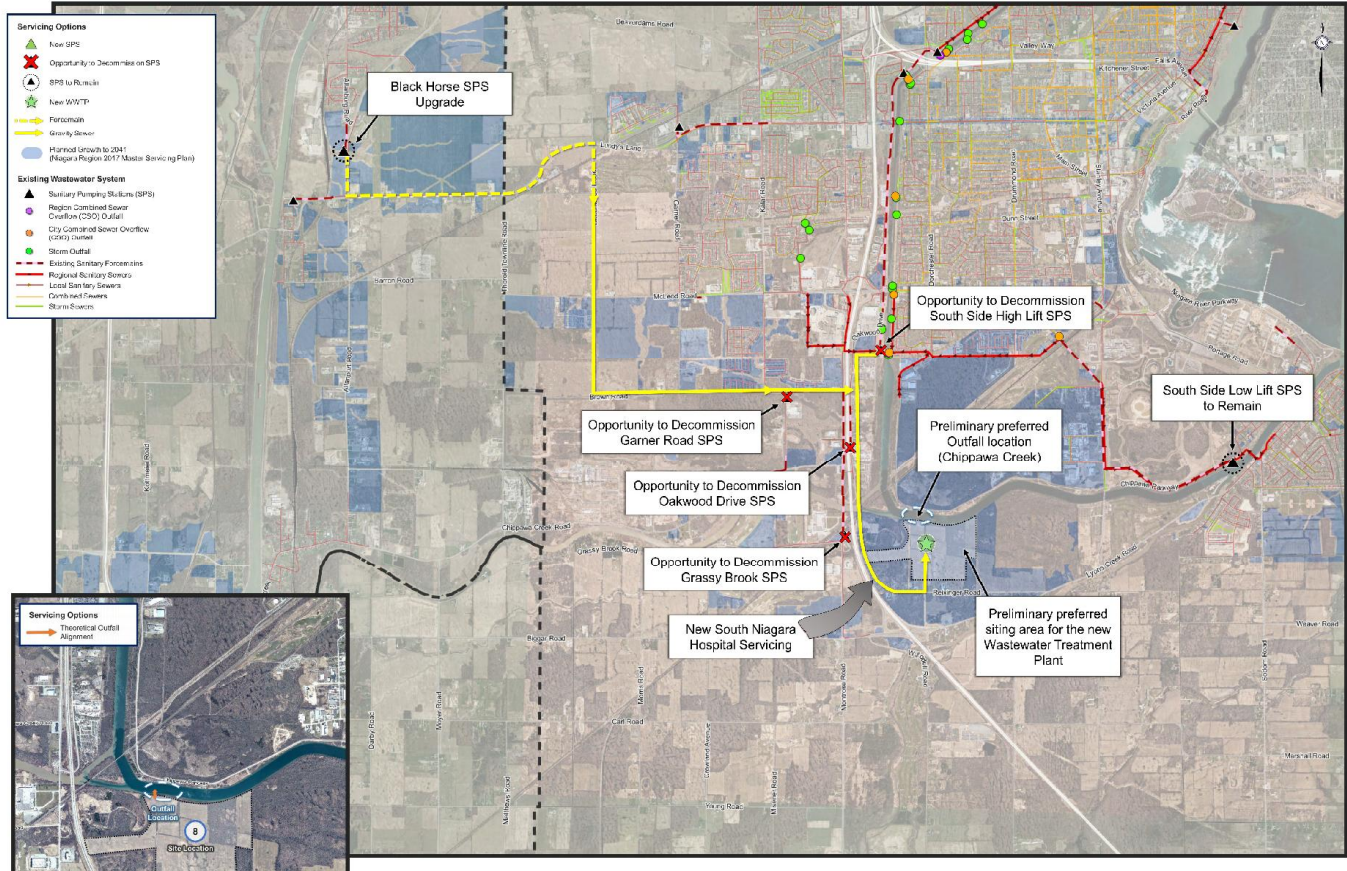


South Niagara Falls Wastewater Solutions

Municipal Schedule 'C' Class Environmental Assessment



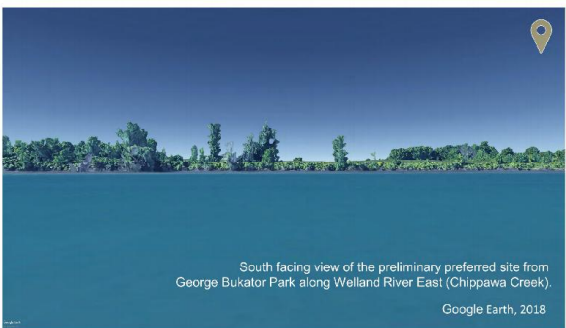
Step 4: Preliminary Preferred Solution



South Niagara Falls Wastewater Solutions

Municipal Schedule 'C' Class Environmental Assessment

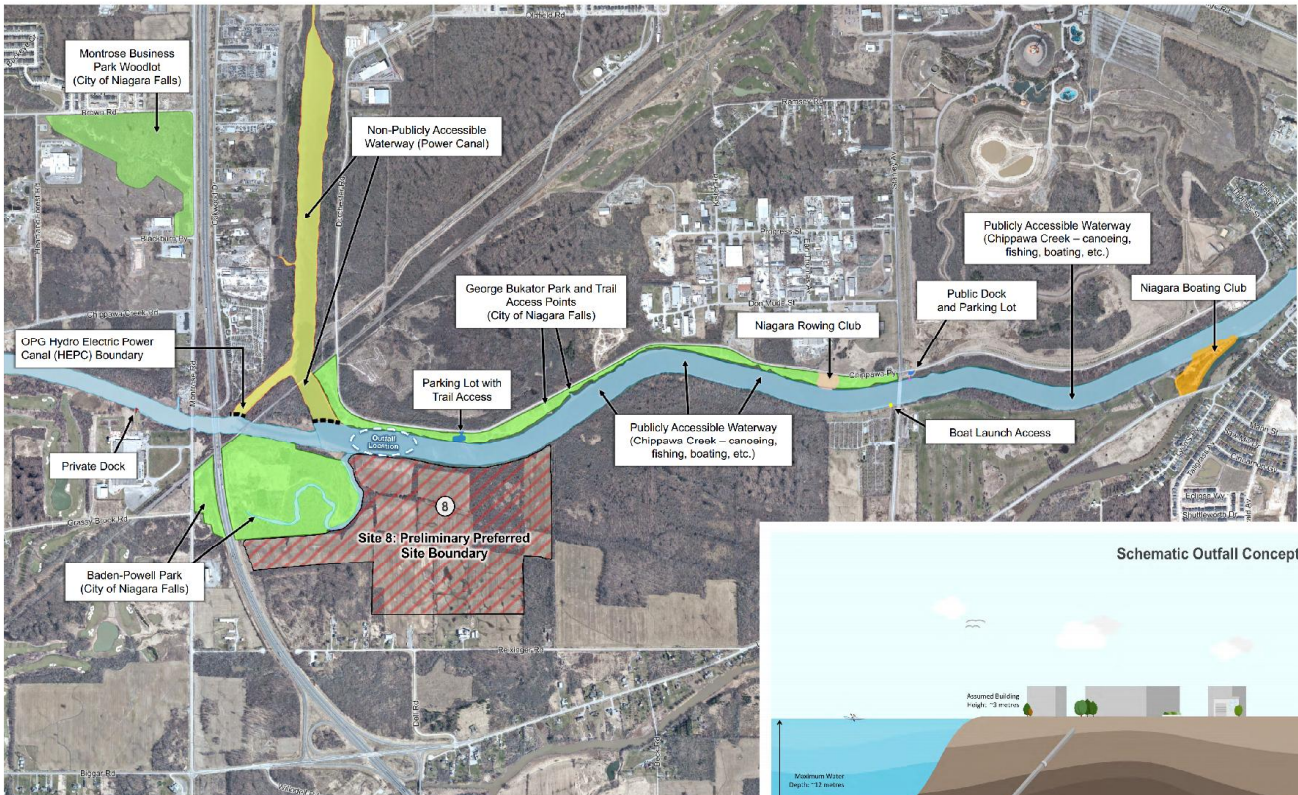




South Niagara Falls Wastewater Solutions
Municipal Schedule 'C' Class Environmental Assessment



Public Accessibility



South Niagara Falls Wastewater Solutions
Municipal Schedule 'C' Class Environmental Assessment





Get Engaged! Do you support the preliminary preferred solution? Is there anything else you'd like the team to consider? Using the sticky notes provided, please let us know your thoughts. Your feedback will be used to help inform the decision-making process.

Consider potential impact to agricultural lands

Concerns of natural areas being impacted by the new wastewater plant

Concerns with odour and noise during construction and operation

Minimize impact to recreational activities and public accessibility

Consider future residential, commercial and development plans

Important to protect the environment from system overflows

Feedback received from previous Public Information Centres



South Niagara Falls Wastewater Solutions
Municipal Schedule 'C' Class Environmental Assessment



Study Commitments

- The preliminary preferred solution has been selected based on multiple bottom line criteria and comparative evaluations
- Feedback from the PIC and from related agency and approval processes will be incorporated into development of the preferred solution
- Additional site specific investigations and studies will be completed in the next steps:
 - Stage 2 Archaeological
 - Environmental Site Assessment Investigations including contamination
 - Final Cultural Heritage Reports
 - Detailed Geotechnical and Hydrogeotechnical investigations
 - Final Traffic Impact Assessment
 - Final Noise and Odour Mitigation Reports
 - Assimilative Capacity Study Update (outfall and water body) based on MECP feedback and specific details on the preferred location
 - Updated Cost Estimates and Cost Benefit Analysis
- Using the site specific information, the preferred solution may be revised as appropriate before proceeding to development of the conceptual design details

The additional information is intended to support the selection of the preferred solution and guide the development of the design concepts. New information will be incorporated into the Class EA process.



South Niagara Falls Wastewater Solutions
Municipal Schedule 'C' Class Environmental Assessment



The following information will be presented at our next Public Information Centre (anticipated for Fall 2020):

1. Site Specific Investigation and Results
2. Design Concept Evaluation and Selection
3. Treatment Plant and Site
 - Proposed location within the preferred site
 - Selection of preferred technologies and processes
 - Preliminary layout of: tankage, buildings, hydraulic profile, treatment technologies, etc.
 - Recommended wastewater effluent criteria
4. Outfall Location
 - Discharge location and design elements
 - Recommended methods of construction
5. Collection System
 - Sewer alignments
 - Proposed methods of construction including tunnel shaft locations
6. Impacts, Mitigation and Approvals

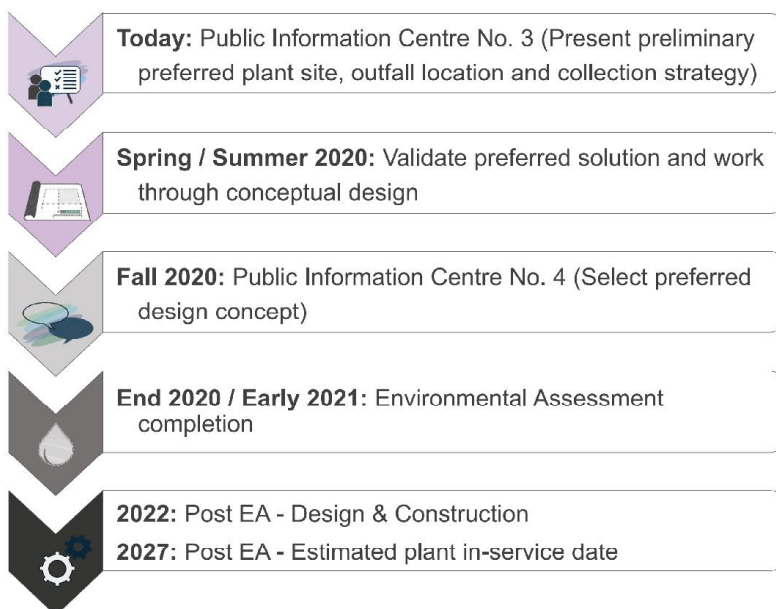


Thank you for Participating, Please Stay Engaged!

Next Steps

- Review input provided on the preliminary preferred solution: Is there additional information the team should consider? Did the public and stakeholders generally agree with the presented material?
- Validate the preliminary preferred solution and initiate a review and evaluation of design alternatives
- Public Information Centre No. 4 in Fall 2020: Present the preferred conceptual design for the new Wastewater Treatment Plant, outfall, and collection system strategy

Schedule:



How to Stay Involved

- Sign up for project updates
- Attend a future Public Information Centre
- Submit an online feedback form or future survey
- Visit our website
www.niagararegion.ca/projects/south-niagara-falls-treatment-plant
- Follow us on social media
www.facebook.com/niagararegion and
www.twitter.com/niagararegion

Today

- Fill out the questionnaire and comment sheet
- We want to know if you are interested in active involvement or prefer to participate through project information updates

Do you have any questions, comments, or want to stay up to date? Please contact us anytime:

Lisa Vespi, P.Eng., PMP

Niagara Region Project Manager
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario L2V 4T7
Tel: 905.980.6000 x 3640
Email: New.Treatment.Plant@niagararegion.ca

Chris Hamel, P.Eng.

GM BluePlan Project Manager
3300 Highway No. 7, Suite 402
Vaughan, Ontario L4K 4M3
Tel: 416.703.0667
Email: Chris.Hamel@gmblueplan.ca

Please note that information related to this study will be collected in accordance with the *Freedom of Information and Protection of Privacy Act*. All comments received will become part of the public record and may be included in the study documentation prepared for public review. If you require an alternative format of this material please contact the Niagara Region's Accessibility Coordinator at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca



**APPENDIX C
HANDOUT MATERIAL**

WELCOME!

Niagara Region is planning today for tomorrow's infrastructure. This environmental assessment (EA) is an important study for a new wastewater treatment plant and improvements to the system in the South Niagara Falls area.

We know significant growth is coming to our area and as we build new communities, create new jobs, and invest in new facilities like schools and hospitals, investment is needed to enhance and build new infrastructure.

The Region has added an additional Public Information Centre to the EA process to ensure the community is well informed and has many opportunities to provide feedback. We hope this information will be helpful to you.

Thank you for joining us.

HOW WE GOT HERE

Out of the province's *Places to Grow Act*, Niagara Region conducted a comprehensive municipal review called *How We Grow* to guide how we will manage population growth to 2041. Under that process, in 2016, we also updated the *How We Flow, Water and Wastewater Master Servicing Plan (MSP)*.

Based on the projected growth to come to the South Niagara Falls area and the detailed evaluation from the MSP, it was determined that a new wastewater treatment plant connected to the sewer system would help accommodate growth, make the wastewater system more efficient and help manage wet weather. Niagara Region Council and Niagara Falls Council adopted these recommendations in 2017.

50,000 more people coming to live and work in the South Niagara Falls area by 2041

WHAT A WASTEWATER TREATMENT PLANT NEEDS

- Appropriate land size: 400m x 400m (approximately 30 Canadian football fields)
- Appropriate land use
- Proximity to the existing wastewater system and future growth areas
- Proximity to a water body to receive the treated water from the plant
- Integration into surroundings

MORE INFORMATION AND TO STAY INVOLVED

We Want to Hear from You!

- What does success look like
- What do you want to know more about
- What do you consider to be the most important part of the project

Visit niagararegion.ca/projects/south-niagara-falls-treatment-plant. You will find project information, an online feedback form and materials presented at each Public Information Centre.

If you wish to receive future project notifications by email, please send your request to New.Treatment.Plant@niagararegion.ca. Follow and watch for project updates through the Niagara Region's Facebook and Twitter accounts.

The Region will be hosting public information sessions during key study milestones. These meetings will present study findings and recommendations, ask for feedback, answer questions and discuss next steps.

If you wish to submit comments or have questions, please contact us:

Ms. Lisa Vespi, P.Eng.
Project Manager
Niagara Region
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario, L2V 4T7
905-980-6000 ext. 3640
New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.
Consultant Project Manager
GM BluePlan Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
416-703-0667
Chris.Hamel@gmblueplan.ca

Last Revised: Feb. 2020

MOVING WATER FORWARD

SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

Niagara  Region

niagararegion.ca/projects/south-niagara-falls-treatment-plant

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

Niagara  Region

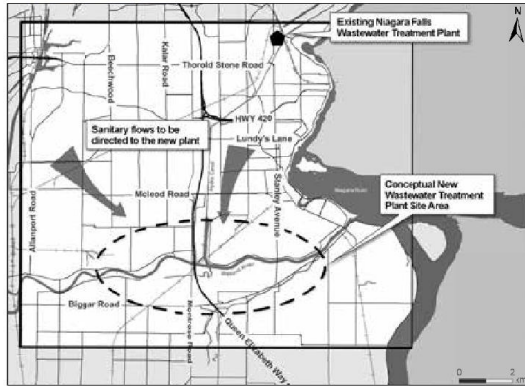
niagararegion.ca/projects/south-niagara-falls-treatment-plant

PROJECT BENEFITS

A new wastewater treatment plant will be an asset for our community in many ways.

- It will mean new jobs and infrastructure to support new investment in Niagara and help our local economy.
- It will help us better protect the environment through new technology and a more efficient wastewater system, which should reduce system overflows
- It will give us more flexibility in how we manage wastewater.
- It will increase our capacity by reducing flows to the existing Niagara Falls Stanley Avenue plant.

STUDY AREA



The Environmental Assessment will be studying the wastewater system within the boxed area on the map. The location for the new plant will be identified within the dotted circle area.

SCOPE OF THE PROJECT

- Where to locate the new wastewater treatment plant in South Niagara Falls
- Determine which body of water will receive the treated water from the plant
- How to best integrate the wastewater network to address growth, make it as efficient as possible and manage wet weather

OBJECTIVES OF THE STUDY

- 1. Protect the Environment**
 - Less pollution into the rivers
 - Treat wastewater
- 2. Accommodate Growth**
 - Support economic and cultural development investment to city/region
 - Build community
- 3. Flexibility for the Future**
 - Adapting to changing regulations
 - Operational
 - Growth/land use
 - Free up capacity
- 4. Community Asset**
 - Fit into local land use
 - Engage local tech/academics
 - Mitigate/manage issues related to wastewater treatment

PROJECT TIMING

- SPRING 2019**
Public Information Centre #1
 - Study purpose and objectives
 - Overview of the Environmental Assessment process
- SPRING to FALL 2019**
Public Information Centre #2
 - Review of the evaluation process used to select the long list of potential sites
 - Present the long list of potential sites for the new wastewater treatment plant
- FALL 2019 to WINTER 2020**
Public Information Centre #3
 - We will present the preliminary preferred solution including plant site, outfall location, and sewer routes
- WINTER/SPRING 2020 to FALL 2020**
Public Information Centre #4
 - Validate preferred solution and present preliminary preferred design concept
- END 2020 to EARLY 2021**
 - Environmental Study Report for public review
 - Environmental Assessment complete
- 2023** Design
- 2025** Construction
- 2027** Estimated in-service date

TYPICAL WASTEWATER TREATMENT IN NIAGARA REGION



1. Wastewater from our sinks, tubs and toilets drains through sewers to a wastewater treatment plant.

2. Screens remove materials such as branches, plastics, rags and other untreatable debris.

3. The wastewater flows into clarifiers, which allow remaining solids to settle or float to the surface over several hours.

4. These solids are pumped to a set of digesters where they are further broken down before being sent to a biosolids storage facility for fertilizer production. Bio-gas is produced during the digestion process and used within the plant.

5. Liquid wastewater flows from the clarifiers into aeration tanks where air is added and bacteria "eat" any dissolved solids.

6. Ferric chloride is added to remove phosphorus from the wastewater. Too much phosphorus can promote algae growth in our lakes and rivers.

7. The wastewater is sent to the final clarifiers where the wastewater and bacteria-mixture separates.

8. Chlorine is added to disinfect the wastewater, killing bacteria and viruses. The chlorine is removed before being safely returned to the nearest lake or river.



South Niagara Falls Wastewater Solutions 'Schedule C' Municipal Class Environmental Assessment

Public Information Centre No. 3: Frequently Asked Questions

Why do we need a new wastewater treatment plant? And why in South Niagara Falls?

Niagara Region is planning ahead with the Cities of Niagara Falls and Thorold. Based on the province's Places to Grow Act, Niagara Region's Niagara 2041 Municipal Review and the 2016 Master Servicing Plan Update, significant growth is coming to the region and specifically to the South Niagara Falls area. Our current sewer system and capacity to treat wastewater will not be enough to meet the growing demand coming from new communities, businesses and facilities (like the planned new hospital). Putting a plant near a growing community makes sense. It makes collecting the wastewater easier and lowers costs.

How will a new plant benefit the region?

A new wastewater treatment plant will be an asset to our community in many ways.

- Protects the environment
 - Reduces pollution into rivers and the environment
 - Enhances treatment technologies
- Provides flexibility for the future
 - Ensures the facility has the ability to respond to changing regulations and needs
 - Frees up capacity in existing infrastructure such as the Stanley Avenue Wastewater Treatment Plant
- Accommodates growth
 - Increases system capacity
 - Supports economic development
 - Builds communities

Why can't you just expand the current Niagara Falls plant?

The option to expand the existing plant (Stanley Avenue) in Niagara Falls was considered under the 2016 Master Servicing Plan. Through the detailed evaluation process, it was decided a new plant was preferred for several reasons: it will support growth, specifically in South Niagara Falls; it will address the challenges of increased capacity on the existing system and plant; and, it will help us better manage increased flows during wet weather.

How will this project benefit the environment?

This project will benefit the environment in several ways:

- New technology will be used where appropriate to enhance environmental protection.
- System overflows are targeted to be reduced, minimizing the risk of contaminants entering nearby creeks and streams.

How much land do you need for the new plant?

The potential size for a new treatment plant is approximately 400m x 400m (16 hectares) or equal to almost 30 Canadian football fields worth of land.

Won't the plant be an eyesore in the neighbourhood?

Many wastewater treatment plants built today fit within their communities. Not only is a new plant an asset to a community, we will endeavour to design and construct it in a way that is aesthetically pleasing. We will consider the architecture, landscaping and more to ensure the new plant fits visually within the surrounding community.

How will the Region ensure the natural environment is protected by this new infrastructure?

Protecting the environment is an important consideration when evaluating a site, outfall location and determining a new sewer system. Along with the social and cultural impacts, environmental impacts are weighted the highest in the evaluation criteria.

As part of this Class Environmental Assessment (EA), the project team created an inventory of environmental features in the study area. This inventory was used to identify protected areas and help eliminate sites where the new wastewater strategy could have a negative environmental impact.

As part of next steps, we will conduct further environmental testing on the specific preferred site. This testing will give us a deeper understanding of potential impacts. It will also help inform the actions and measures we'll need to put in place to protect and preserve the environment during design, construction, and operation.

When will construction start and how long is it expected to last?

Following completion of this Class EA in early 2021, design of the sewers is anticipated to start in 2022 and design of the new plant is anticipated to start in 2023. Construction of all necessary works is anticipated to start in 2024, and the plant should be in-service in 2027. There will be a phasing plan developed as part of this Class EA to determine optimum timing.

How will noise, odour, traffic, and construction be managed?

Firstly, a key factor in the selection of the treatment technology will be its ability to avoid generation of odours. Ability to buffer surrounding land use to the potential impacts of any noise, odour, traffic, and construction impacts are criteria used in the evaluation of the alternative solutions.

Following confirmation of the preferred plant site, outfall location, and sewer collection strategy, further detailed investigations to better understand any potential impacts will be undertaken. The results of these investigations will allow better design and construction approaches to safeguard and protect the environment. Items such as noise, odour, and traffic mitigation are requirements for agency permits and approvals that the Region will need to secure prior to construction.

Will neighbourhoods or access to parks and water be impacted during construction?

A review of potential impacts to neighbourhoods, public space, and water access was considered in the evaluation and preliminary selection. Following confirmation of the preferred

servicing solution, the next step in the Class EA study is to identify, evaluate, and select the preferred design concept. During this stage a range of alternatives will be evaluated against criteria to assess their potential impact and the need for mitigating measures.

Impact to public space and water access during construction will be reviewed and results will be available and presented at PIC No. 4 (anticipated for Fall 2020). The preliminary preferred site was selected in part due to its ability to buffer against impacts to surrounding land uses.

How was the preliminary preferred solution (new plant, outfall location and sewer strategy) decided?

The preliminary preferred solution was selected using a rigorous evaluation process with the following weighted criteria: Environmental (25%); Social/ Cultural (25%); Legal/ Jurisdictional (10%); Technical (20%); and Financial (20%) factors. The preliminary preferred solution was based on a balanced result of the five criteria.

The evaluation process and criteria were presented to the public at PIC No. 2 in November 2019. Additional information can be found on the project website at niagararegion.ca/projects/south-niagara-falls-treatment-plant

Who has been involved in the decision making?

Deciding where to locate a new wastewater treatment plant, outfall location, and sewer collection system requires a great deal of testing and input from many experts, stakeholders, and the public.

For South Niagara Falls Wastewater Solutions, we are following the Class EA process, which is a decision-making process that Ontario municipalities are required to follow when building new infrastructure. Success of the Class EA process requires active public and stakeholder engagement.

The Region has directly consulted with: the City of Niagara Falls; the City of Thorold; the Ministry of the Environment, Conservation and Parks; Ontario Power Generation; Niagara Peninsula Conservation Authority; and property owners of short-listed sites for feedback to help inform the decision-making process.

Example of key stakeholders engaged to date include:

- Federal Ministries
- Provincial Ministries
- Local Municipalities
- Local Indigenous Communities
- Ontario Power Generation
- Public Service Providers
- Property Owners
- Communities (including businesses and residents)
- Rail / Transit
- Local Utilities

What level of detail has been completed to date?

For each of the sites considered, the Region has completed extensive reviews and investigations including: Natural Environment; Record Site Condition Review (Contamination); Stage 1 Archaeological; Cultural Heritage Screening; Agricultural Impact Screening; Geotechnical; Hydrogeological; Assimilative Capacity; and Conceptual Costing. There has also been consideration for public impact including: receptors (noise, odour, and air), traffic, transportation, and recreational activities.

In addition, we are listening to the public and key stakeholders as we consider how the community may be impacted by the project. We still have more work to do to before we come to a final decision.

What additional investigations will the Region be undertaking?

As the study enters into Phase 4 of the Class EA process, the Region will undertake further detailed investigations to support the decisions regarding design and construction concepts for the preferred solution.

These site-specific studies will include: a more in-depth analysis of the Natural Environment; potential for soil contamination through an Environmental Site Assessment; Stage II Archaeological; Cultural Heritage Impact Assessment; and Geotechnical/ Hydrogeological Field Investigations.

To support Provincial approvals, additional site-specific studies relating to: Noise and Odour Impact and Mitigation Assessment; Assimilative Capacity Detailed Modelling and Assessment; Traffic Impact Assessment; and detailed Costing Analysis will be undertaken.

When will the final decision be made?

Following PIC No. 3, the Region will consider the feedback we receive from the public, as well as stakeholder feedback. Feedback will be reviewed to validate the selection of the preliminary preferred solution. If there is no material impact to the assessment, the preliminary preferred solution will be selected for further refinement in Phase 4 of the Class EA process.

The preferred new wastewater treatment site and layout, outfall location, sewer alignments, and preliminary technology, and construction methods will be presented at PIC No. 4 (anticipated for Fall 2020). The Class EA study is expected to be complete in early 2021.

How can I have a say before the final decision is made?

Public Information Centres are a great way to provide direct feedback to the project team. Please provide feedback on the information presented at today's PIC No. 3. The next information centre (PIC No. 4) is anticipated for Fall 2020.

Comments are welcome anytime. You can fill out the feedback form on the project webpage, or you can provide comments or concerns by email to the project team at New.Treatment.Plant@niagararegion.ca

What is the timing of the project?

The Class EA study is planned to be completed in early 2021. Post Class EA design and construction is expected to start in 2023, with the plant being operational by 2027.

APPENDIX D
PIC NO. 3 SIGN-IN SHEET



SIGN-IN SHEET

Name (Organization if applicable)	Address	Phone Number	Email (you consent to receive key project updates)
Ray Spiteri Niagara Falls Review	55 King Street, St. Catharines	[REDACTED]	[REDACTED]
Gloria Katch Thodd News	[REDACTED]	[REDACTED]	[REDACTED]@yahoo.ca
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]@hotmail.com
DOMENICO SCANDIATORRA	[REDACTED]	[REDACTED]	DOMENICO.SCANDIATORRA@NIAGARAREGION.CA
[REDACTED]	[REDACTED] St Cath.	[REDACTED]	[REDACTED]@coyeco.ca
[REDACTED]	[REDACTED] St. Catharines	[REDACTED]	[REDACTED]@ny.
[REDACTED]	[REDACTED] Niagara Falls	[REDACTED]	[REDACTED]@direct.ca
Lori Lococo	[REDACTED] Niagara Falls	[REDACTED]	llococo@niagarafalls.ca
BETTER NEIGHBOURHOODS	[REDACTED]	[REDACTED]	[REDACTED]@betterneighbourhoods.ca
[REDACTED]	[REDACTED] N.F.	[REDACTED]	[REDACTED]@coyeco.ca
[REDACTED]	[REDACTED] Niagara Falls	[REDACTED]	[REDACTED]@email.com
[REDACTED]	[REDACTED] N. Falls	[REDACTED]	[REDACTED]@gmail.com

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.



SIGN-IN SHEET

Name (Organization if applicable)	Address	Phone Number	Email (you consent to receive key project updates)
[Redacted]	[Redacted]	[Redacted]	[Redacted]@netmail.com
[Redacted]	[Redacted]	[Redacted]	[Redacted]@gmail.com
Peter Kowalski	14000 Niagara Pkwy. NOTL	[Redacted]	peter.kowalski@opg.com
Kurt Tieszen	[Redacted]	[Redacted]	Kurt@UCC.com
THANASSI LEFAS.	[Redacted] VAUGHAN	[Redacted]	THANASSI TLEFAS@EMPIRECOMMUNITIES.COM
[Redacted]	[Redacted] P.	[Redacted]	[Redacted]@phon.net
[Redacted]	[Redacted]	[Redacted]	[Redacted]@xplornet.com
[Redacted]	[Redacted] RD	[Redacted]	[Redacted]@GMAIL.COM
[Redacted]	[Redacted] North Harold	[Redacted]	[Redacted]@vaxxinc.com
[Redacted]	[Redacted] NIAGARA FALLS	[Redacted]	[Redacted]
[Redacted]	[Redacted] N.F.	[Redacted]	[Redacted]@yahoo.com
[Redacted]	[Redacted]	[Redacted]	[Redacted]@gmail.com

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.



SIGN-IN SHEET

Name (Organization if applicable)	Address	Phone Number	Email (you consent to receive key project updates)
[REDACTED]	[REDACTED] RD	[REDACTED]	[REDACTED]@sympatico.ca
[REDACTED]	[REDACTED] RD.	[REDACTED]	[REDACTED]@gmail.com
(CAUSE) [REDACTED]	STEVENSVILLE, LUS 150	[REDACTED]	[REDACTED]@AOL-COM.
[REDACTED]	N. Falls [REDACTED]	[REDACTED]	[REDACTED]@gmail.com
[REDACTED]	[REDACTED] Kingshead Ave	[REDACTED]	[REDACTED]@hotmail.ca
[REDACTED]	[REDACTED] Road	[REDACTED]	
[REDACTED]	[REDACTED] St Catharines	[REDACTED]	[REDACTED]@gmail.com
[REDACTED]	[REDACTED] FORTVILLE	[REDACTED]	[REDACTED]@gmail.com
[REDACTED]	[REDACTED] NT	[REDACTED]	[REDACTED]@sympatico.ca
[REDACTED]	[REDACTED] DR NF	[REDACTED]	
VICTOR PIETRANGELI			vpietrangel@niagarafalls.ca
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]@outlook.com

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

APPENDIX E
PIC NO. 3 COMMENTS RECEIVED

COMMENT SHEET

Contact Information:

Name: [REDACTED]

Organization: Resident

Email: [REDACTED]@gmail.com

Phone: [REDACTED]

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

Reside at [REDACTED] N. Falls.
I'm concerned with the effects it will have on my property values. Where will the waste water treatment plant be located on the 40 acre site. Concerned with odour control? Noise control, How to deal with open tanks, truck movement? Most important Property Value?

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

COMMENT SHEET

Contact Information:

Name: [REDACTED]

Organization: [REDACTED] local

Email: [REDACTED]@proline Region.com

Phone: [REDACTED]

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

property Value future
odour control
noise control
forestry Impact

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

COMMENT SHEET

Contact Information:

Name: [REDACTED]

Organization: Preservation of
Agricultural Lands Society

Email: [REDACTED]

Phone: [REDACTED]

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

I am quite pleased to support the preferred option 8. Following this option will facilitate appropriate development within urban boundaries in the Chippawa area.

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

COMMENT SHEET

Contact Information:

Name: [REDACTED]

Organization: Resident

Email: [REDACTED]@gmail.com

Phone: [REDACTED]

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

I reside at [REDACTED] Niagara Falls. I'm concerned with the impact of the new plant on my property. Where exactly is it going to be? How will this affect my property value? How are you going to control the odor and noise? How do you deal with the open tanks? As I live right beside the recommended site can the Region contact me directly for a more detailed discussion?

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

COMMENT SHEET

Contact Information:

Name: [REDACTED]

Organization: _____

Email: [REDACTED]@xplornet.com

Phone: [REDACTED]

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

Once the new plant becomes operational, how much new capacity will be available for sewage in the old Waste Treatment Plant in terms of sewage volume, population & housing units?

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

COMMENT SHEET

Contact Information:

Name: [REDACTED]

Organization: _____

Email: [REDACTED]@xplornet.com

Phone: [REDACTED]

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

Object to gravity sewers through agriculturally zoned areas outside of or adjacent to the urban boundary.
I understand that force mains are less of a threat as I am told that one cannot hook into a force main with subterranean pipes.
Where does the Thorold South sewage go now & how does it get there?
These threaten preservation of these lands which should be designated specially w/ capability for grape & fruit growing

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

COMMENT SHEET

Contact Information:

Name: [REDACTED]

Organization: Homeowner

Email: [REDACTED]@cogeco.ca

Phone: [REDACTED]

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

What is the exact physical location (street address?) of the current proposed plant.

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

COMMENT SHEET

CHX WRP WASON

Contact Information:

Name: [REDACTED]

Organization: CAUSIS CITIZENS AGAINST UNSANITARY EFFLUENT

Email: [REDACTED]@PAOL.COM

Phone: [REDACTED]

Please check off which of the following you would like to participate in:

- Active project involvement Online Surveys
 Just staying informed Project Mailing List

Comments:

Do you have any questions or comments about the study or any information presented at today's event?

THE SEWAGE LAGOON LOCATED IN SOUTH NIAGARA FALLS - WILLOUGHBY (TWP) IS OVERLOADED - ANF FAN EXCEEDS THE CERTIFICATE OF APPROVAL - 1982, INCORPORATE THE SEWAGE INTO THE NEW TREATMENT PLANT

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

Proposed sewage plant a 'double win'

RE: REGION PLANNING TO BUILD \$130-MILLION WASTEWATER FACILITY IN SOUTH NIAGARA FALLS, MAY 29

At a spring open house on May 28, we learned Niagara region is working on plans for a new Niagara Falls sewage treatment plant that will service the hospital and thousands of new homes.

This new plant will take a lot of pressure off the lone plant located on North Stanley Avenue, designed for a much smaller population.

Our group is excited at this news and fully supports the region's efforts to keep sewage effluent out of our waterways.

We should also decommission the no-longer-safe sewage lagoon, which is terribly overloaded.

The money saved from shutting down this Willoughby-located pool will help pay for the new sewage treatment plant that is now under consideration. This will be a double win for the residents of Niagara Falls.

George Jardine
Chair Citizens Against Unsanitary Sewage Effluent
Stevensville

2019

Protecting The Environment

GEORGE JARDINE



Protecting the environment and safeguarding it for future generations is vital to ensure a vibrant and healthy community.

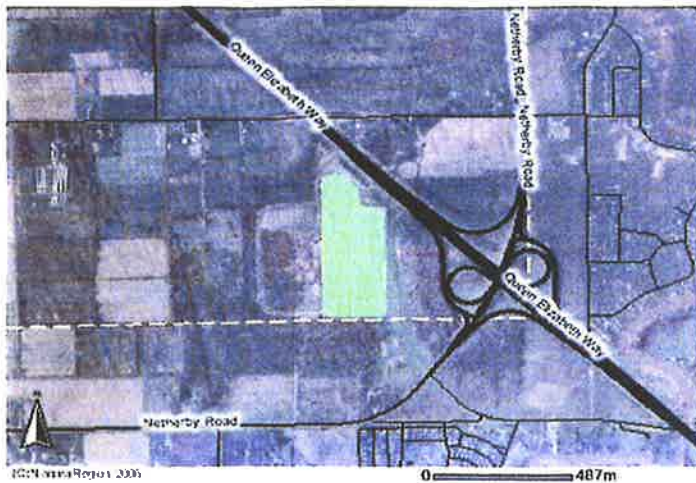
In the category of Protecting the Environment, this year's Volunteer Recognition Award goes to Black Creek resident George Jardine for a variety of

initiatives he led to protect the environment.

Jardine is the founding member of the Black Creek Community Association and he was the prime mover in acquiring the former Black Creek Public School and turning it into a community centre.

His long list of accomplishments include founding the Fort Erie Friendship Festival held on Canada Day, and working Bingos for Community Program Outreach Erie in the 1980s. He also served as chairperson of Citizens Against Unsanitary Sewage Effluent, a group for restrictions on the sewage lagoon.

For the past three years, Jardine has also served as administrator for the Green Party of Niagara.



STEVENSVILLE DOUGLASTOWN SEWAGE TREATMENT LAGOON

In Niagara Region, a treatment lagoon is a man-made pond where sewage is stored and undergoes natural decomposition. Most lagoons are built in rural areas due to low population numbers. The Stevensville/Douglastown Lagoon provides wastewater treatment service to the communities of Stevensville and Douglastown. The lagoon is located northwest of the intersection of Netherby Road and the Queen Elizabeth Way. It is an unmanned facility and operated by licensed operators at the Fort Erie Wastewater Treatment Plant (WWTP). There are three pumping stations that convey the sewage to the lagoon. If an odour complaint is received, it is recorded and corrective action is taken by staff from the Fort Erie WWTP.

The process consists of 2 cells operating in series. Cell #1, covering an area of 11.23 acres, is split by a hanging curtain to provide an aeration section and a facultative (anaerobic or with air) section. Ferric chloride is added to the aerated side for phosphorus removal. Cell #2, covering 12.9 acres, is facultative only. Treated effluent is pumped to the Niagara River.

2005 Overview

Population Served:	2,000 (approx.)
Total Design Capacity:	2.2 million litres
Utilization:	45% of total design capacity ← (SPURIOUS)
Average Daily Flow:	1.131 million litres/day
Total Amount of Sewage:	412 million litres treated in 2005

The Stevensville/Douglastown Lagoon provided effective sewage treatment for the operating year meeting all Certificate of Approval compliance and performance objectives.

2000 TRITON ENGINEERING MADE
IT A FACT!

OMB hearing approves lagoon

By Beth Swinimer
Staff Reporter

Despite objections by nearby residents, Niagara Falls city by-law allowing for a waste stabilization pond (lagoon) was approved during an Ontario Municipal Board hearing last week.

The hearing, which began Sept. 29, in Niagara Falls city council chambers, fell 16 days short of its five-day scheduling, with A.J. Chapman, chairman of the two-man board, bringing in his decision Thursday.

Local lawyer Greg Parker, representing members of the group, Citizens Against Unsanitary Sewage Effluent (CAUSE), major objectors to the lagoon, had earlier predicted the hearing would not be completed during the five days set aside by the board.

The hearing was originally to be seven days.

Mr. Parker said the chairman was very aware of the need of technical evidence to be brought in during the hearing, and tried to allay the fears of the objectors when giving the board's decision.

He feels the hearing has caused the region to research the whole lagoon issue extensively and to provide a scientifically expert system.

Mr. Parker also said the chairman agreed with members of CAUSE on the urgent need to clean up Black Creek and protect it against further contamination by sewage, a major concern of the residents.

Mayor Stella Ziff said the Town will now proceed with the designing of the collector sewage system for the proposed site as a result of this hearing decision.

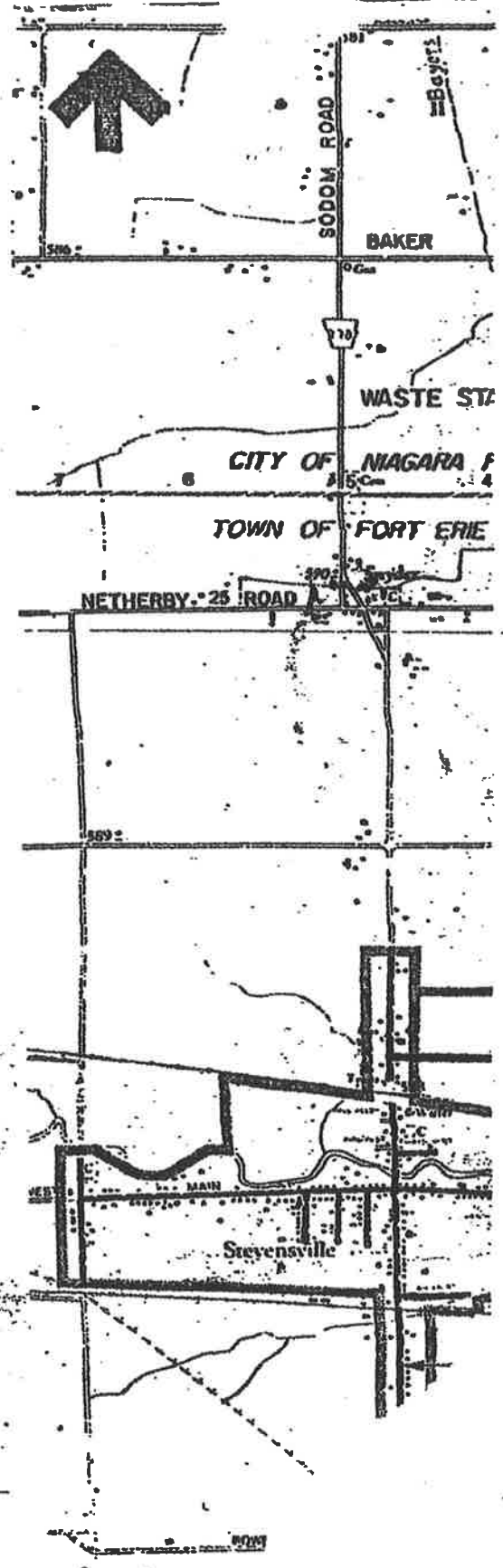
The lagoon is to be located in an excavation pit at the Netherby Road and Queen Elizabeth interchange.

Further discussion on the issues surrounding the lagoon and this hearing's potential effects will take place at the Regional level during a public works meeting Oct. 9, Mayor Ziff said.

An environmental hearing is required according to the regulations stipulated by the former Ontario Water Resources Commission, but no date has been set for such a hearing.



Q.E.W. view



V4.5.4

REGIONAL MUNICIPALITY OF NIAGARA
SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

PIC Summary Reports

Public Information Centre No. 4 – February 9 to 23, 2022

Prepared By:



Regional Municipality of Niagara

South Niagara Falls Wastewater Solutions
Schedule 'C' Class Environmental Assessment

Public Information Centre No. 4 Summary Report

GMBP File: 718002

February 2022

The logo for the Niagara Region, featuring the word 'Niagara' in a dark blue font, followed by a stylized green and blue lightning bolt icon, and the word 'Region' in a dark blue font. The logo is set against a white background with a thin dark blue border.

Niagara Region

TABLE OF CONTENTS

1. BACKGROUND AND INTRODUCTION	1
1.1 Class EA Context	3
2. PUBLIC INFORMATION CENTRE NO. 4.....	5
2.1 Purpose.....	5
2.2 Notifications.....	5
2.2.1 Newspaper Advertisements.....	5
2.2.2 Online Advertisements.....	6
2.2.3 Community Mailout.....	6
2.2.4 Contact List Mailout	6
2.3 Date, Time, and Location	9
2.4 PIC No. 4 Materials	10
2.4.1 Display Boards	10
2.5 PIC No. 4 Attendance.....	10
2.6 PIC No. 4 Comments	10
3. NEXT STEPS	15

APPENDICES

APPENDIX A: NOTICE OF PUBLIC INFORMATION CENTRE NO. 4

APPENDIX B: COMMUNITY MAILOUT REPORT

APPENDIX C: PUBLIC INFORMATION CENTRE NO. 4 DISPLAY MATERIAL

APPENDIX D: LIVE EVENT SUMMARY

**SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS
SCHEDULE C CLASS ENVIRONMENTAL ASSESSMENT
PUBLIC INFORMATION CENTRE NO.4 SUMMARY REPORT**

REGIONAL MUNICIPALITY OF NIAGARA

FEBRUARY 2022

GMBP FILE: 718002

1. Background and Introduction

GM BluePlan Limited has been retained by the Regional Municipality of Niagara to undertake a Schedule C Class Environmental Assessment (Class EA) entitled South Niagara Falls Wastewater Solutions. This study will develop and implement a wastewater servicing strategy and conceptual design for a new wastewater treatment plant (WWTP) and associated collection and conveyance facilities in south Niagara Falls.

The study is being undertaken as a Schedule 'C' project in accordance with the requirements of the Municipal Class Environmental Assessment process, prepared by the Municipal Engineers Association (MEA) (October 2000, as amended in 2007, 2011 and 2015).

The objective of the South Niagara Falls Wastewater Solutions Class EA is to determine:

- Where to locate the new wastewater treatment plant in South Niagara Falls,
- Which body of water will receive the clean, treated water from the new plant, and,
- How best to integrate the wastewater network to address growth, make the system as efficient as possible, and manage wet weather.

The study area covers the southern area of Niagara Falls, specifically south of Lundy's Lane. This area was considered ideal to address projected growth based on the Niagara 2041 planning exercise and could include sanitary flows being directed from Thorold South and areas north of Lundy's Lane. This area encompasses various watercourses and waterbodies, including the Welland River, Hydro Electric Power Canal (Ontario Power Generation operations), Chippawa Creek, and Niagara River. The study area primarily covers industrial and commercial land use with moderate open space land designations.

A key part of the public consultation component is a Public Information Centre (PIC), which serves as a forum for information exchange between the public, stakeholders and the project team.

The PIC No. 4 Summary Report represents one element of the overall Class EA documentation. This report documents the following:

- Information presented at PIC No. 4,
- Summary of virtual participation, and,
- A record of comments received, and responses provided by the project team, to track correspondence in a transparent and traceable manner.

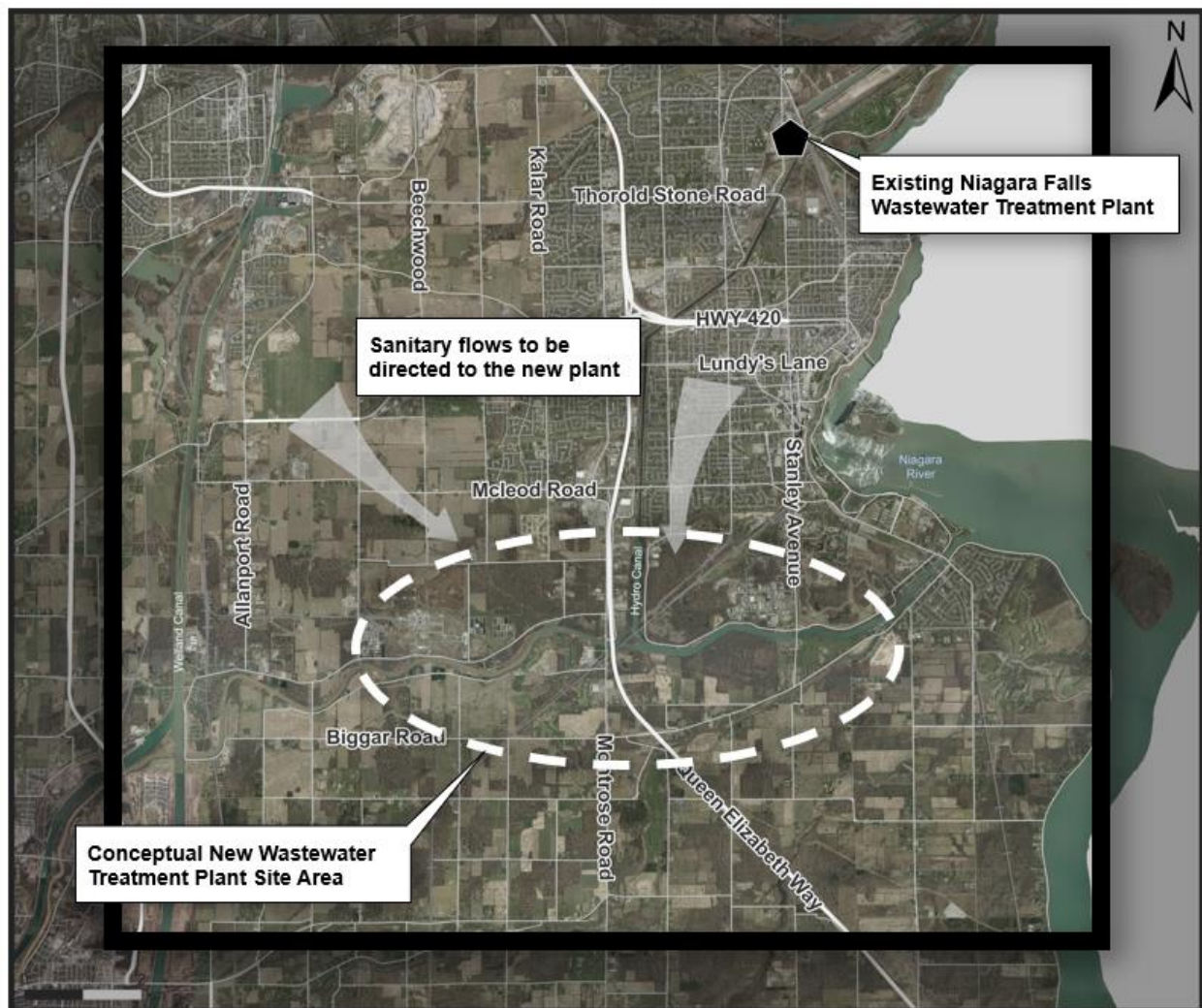


Figure 1 – South Niagara Falls Wastewater Solutions Study Area

1.1 Class EA Context

The study involves completion of Phases 1 through 5 of the MEA Municipal Class EA Process. Public consultation is a vital component of the Class EA process and ensures transparency through encouraging stakeholder and public involvement.

The workplan initially planned for three (3) PICs. Given the complexity and integrated study components, the Project Team decided to include an additional information session ahead of evaluating the preliminary preferred solution (i.e., the wastewater treatment plant site, outfall location, and collection system strategy). This additional session provided the public and stakeholders the opportunity to challenge and understand the detailed evaluation process.

In total there were four (4) PICs:

- PIC No. 1 was held on May 28, 2019 to introduce the project, identify the problem and opportunity statement, and present baseline environmental features for the study area.
- PIC No. 2 was held on November 20, 2019 as an additional information session. This event presented the long list of potential wastewater treatment plant sites and showed the Project Team's proposed detailed evaluation and weighted criteria that would be used to select the preliminary preferred solution for the three project components.
- PIC No. 3 was held on March 11, 2020. This event presented the stepped evaluation process for long to short list solutions, and short list to preliminary preferred solution. This resulted in the preliminary preferred solution including the: wastewater treatment plant site, outfall location, and collection system strategy.
- PIC No. 4 was held virtually from February 9-23, 2022. This event presented the study recommendations and preliminary preferred design concepts for the new wastewater treatment plant site, outfall location, and supporting sewer alignments for City of Niagara Falls and Thorold South.

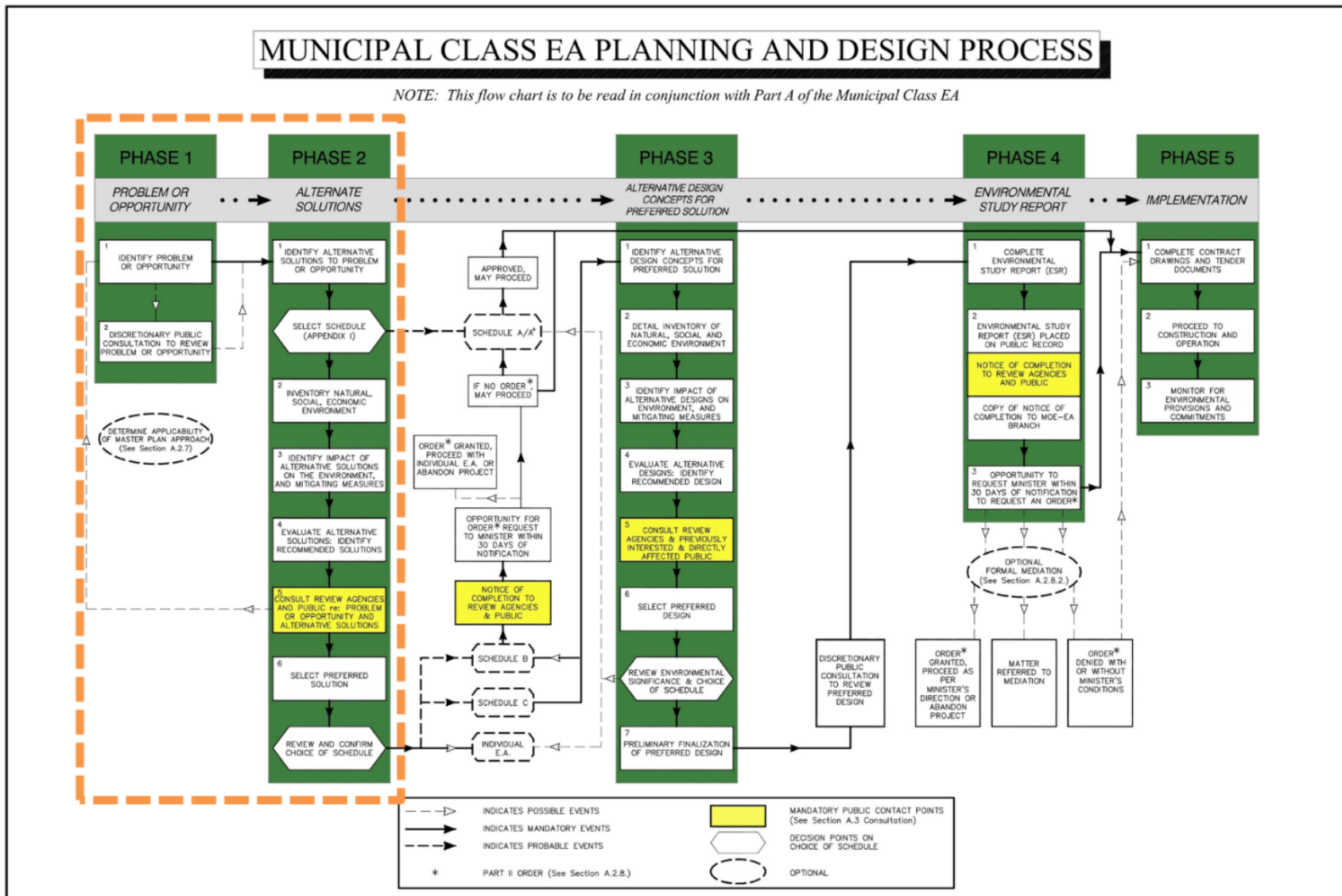


Figure 2 – This Figure illustrates the Municipal Class EA Planning and Design Process

2. PUBLIC INFORMATION CENTRE NO.4

2.1 Purpose

This PIC was the fourth and final Class EA public event. Due to the COVID-19 health situation, PIC No. 4 was held virtually from February 9-23, 2022 and presented the following information:

- Recommendations and preliminary preferred design concepts for three (3) key project components:
 - Wastewater Treatment Plant Site (6811 Reixinger Road, Niagara Falls, ON),
 - Outfall location and receiving waterbody (Chippawa Creek), and,
 - Collection system strategy.

PIC No. 4 included a live presentation and new material for review on the project website. The review material included presentation slides and interactive mapping through ESRI Story Maps to better illustrate the detailed Class EA evaluation process and study recommendations.

2.2 Notifications

In line with the previous PICs, stakeholders and the public were informed by local newspaper advertisements, mail and/or e-mail (study contact list), Niagara Region Facebook and Twitter accounts, and through the Niagara Region website.

To ensure the local community was aware of siting and alignment recommendations, notices were distributed via the Canada Post Precision Targetter platform to properties within 5-kilometres of the preferred Wastewater Treatment Plant (WWTP) site and 1km from the new Sewage Pumping Station (SPS) site in Thorold South. All properties along recommended sewer routes and within proximity to proposed construction locations received the study notice.

The PIC No. 4 notice is available in **Appendix A**.

2.2.1 Newspaper Advertisements

The Notice of PIC No. 4 was first published on January 20, 2022. The Notice was included in the following publications:

- Niagara this Week – January 20 and 27, 2022
- Thorold Today – January 22 and 29, 2022

- Niagara Falls Review – January 22 and 29, 2022

2.2.2 Online Advertisements

The Region used additional methods of online publication. This involved the use of the Region's Twitter and Facebook accounts to better inform residents.

The notice was also posted on the Project Website. The website includes a sign-up option for the public to stay involved and receive future project notifications:

www.niagararegion.ca/projects/south-niagara-falls-treatment-plant/

In February 2022, the project website had 126 visits, 190 webpage views, 90 unique visitors, and 39 returning visitors.

2.2.3 Community Mailout

As mentioned in Section 2.2, the PIC No. 4 notice was distributed to residents within a 5-kilometre radius of the WWTP site (6811 Reixinger Road), and 1-kilometre radius around the new Thorold SPS site (701 Allanburg Road).

The mailed list covered all properties along recommended sewer routes (including the trunk sewer and Thorold south servicing) and within proximity to all proposed construction locations. The mailout was distributed to:

- 13,081 houses
- 2,025 apartments
- 26 farms
- 611 businesses

The community mailout report is available in **Appendix B**.

2.2.4 Contact List Mailout

The Notice of PIC No. 4 was dated January 27, 2022 and mailed and/or e-mailed to local government, review agencies and other stakeholders. Notification was sent to the following groups:

Provincial

- Infrastructure Ontario
- Metrolinx/GO Transit
- Ministry of Agriculture, Food and Rural Affairs
- Ministry of Economic Development, Employment and Infrastructure
- Ministry of Indigenous Affairs
- Ministry of Infrastructure

- Ministry of Municipal Affairs and Housing
- Ministry of Northern Development, Mines, Natural Resources and Forestry
- Ministry of the Attorney General
- Ministry of the Environment, Conservation and Parks

- Ministry of Tourism, Culture and Sport
- Ministry of Transportation
- Niagara Escarpment Commission
- Niagara Falls Bridge Commission
- Niagara Parks Commission
- Ontario Provincial Police
- Peace Bridge Authority

Federal

- Canadian Environmental Assessment Agency
- Canadian Section, International Niagara Board of Control
- Department of Fisheries, Oceans and the Canadian Coast Guard
- Department of Indigenous and Northern Affairs
- Federal Economic Development Agency for Southern Ontario
- Health Canada
- Transport Canada, Environment and Engineering
- Transport Canada, Navigable Water Protection Program

Indigenous Communities

- Haudenosaunee Confederacy Chiefs Council
- Mississaugas of the Credit First Nation
- Six Nations of the Grand River

Conservation Authorities

- Niagara Peninsula Conservation Authority

Rail/Transit

- Canada Pacific Railway
- CN Rail
- Go Transit
- TransCanada Pipelines

Utilities

- Bell Canada
- CAA Niagara
- Canadian Automobile Association- South Central Ontario
- Cogeco Cable Niagara
- Canadian Niagara Power Inc.
- Enbridge Gas Distribution Inc.
- Enbridge Pipelines Inc.

- Grimsby Power Incorporated
- Hydro One Networks - Zone 2 Scheduling
- Niagara Peninsula Energy Inc.
- Niagara Region Broadband Networks
- Ontario Power Generation

School Boards

- Brock University
- Conseil Scolaire Viamode
- Conseil Scolaire Catholique MonAvenir
- District School Board of Niagara
- Niagara Catholic District School Board
- Niagara College

EMS and Health

- Niagara Emergency Medical Services
- Niagara Health System
- Niagara Regional Police
- City of Niagara Falls

Interest and Stakeholder Groups

- Niagara Home Builders Association
- Ontario Wine Country
- Regional Niagara Bicycling Committee
- Greater Niagara Chamber of Commerce
- Media
- Developers
- RJ Burnside
- H2 Flow
- CRH Canada/Dufferin Construction
- Citizens Against Unsanitary Sewage Effluent
- Lundy's Lane BIA
- New South Niagara Hospital
- ASI Group
- Parks in the City Committee
- Cogeco
- Public members with expressed study interest

Local Municipal: Mayors/Clerks/Councillors/Directors

- City of Niagara Falls
- City of Port Colborne
- City of St Catharines
- City of Thorold
- City of Welland
- Town of Fort Erie
- Town of Grimsby
- Town of Lincoln
- Town of Niagara-on-the-Lake
- Town of Pelham
- Township of Wainfleet

2.3 Date, Time, and Location

The Region held a live virtual presentation on February 9, 2022 to walk through study recommendations and preliminary preferred designed concepts. Representatives from Niagara Region, GM BluePlan, CIMA, and Redbrick Communications were available to answer questions live.

The recorded presentation and material, along with additional mapping, was posted to the project website starting February 9, 2022. Public feedback was accepted on PIC No. 4 material from February 9-23, 2022.

Table 1. PIC No. 4 Live Presentation Information

Public Information Centre No. 4	
Date / Time	Wednesday, February 9, 2022 from 5-6pm
Location	Zoom Webinar (Virtual Meeting)

The transcript from the live presentation is provided in **Appendix C**.

2.4 PIC No. 4 Materials

2.4.1 Display Boards

The information presented at PIC No. 4 included:

- Municipal Class EA process and status,
- Evaluation of the preferred solution,
- WWTP site and outfall alignment review,
- Technology review,
- Sewer servicing review,
- Impacts, mitigation, and approvals,
- Study commitments, and,
- Next steps

2.5 PIC No. 4 Attendance

A total of sixty-four (64) members of the public attended PIC No. 4 live presentation. Further, at the time of writing this report, a total of thirty-five (35) people have viewed the recorded presentation.

2.6 PIC No. 4 Comments

Attendees were encouraged to provide comments related to the Class EA in writing during the live event or through the project website during the two-week comment period. Comments were accepted via the webinar platform, through the project website, phone, emails, and/or mailed letters. These comments were then reviewed and considered by the Project Team to inform the decision-making process.

The Project Team responded to all questions which required follow-up. A summary of the comments received relating to PIC No. 4 event are presented in Table 2 below.

Table 2. Summary of PIC No. 4 Comments Received

No.	Attendee	Comment/Question Received	Response Provided
1	Anonymous	How many acres of land will you be purchasing for the plant?	The recommendation includes siting the new Wastewater Treatment Plant (WWTP) on one (1) property: 6811 Reixinger Road, Niagara Falls, ON. Because the solution must incorporate not just the WWTP limits itself, but also the supporting outfall corridor, the recommendation is to purchase the full 6811 Reixinger Road property to avoid isolated and inaccessible land. This recommendation includes around 100 acres of land, which is more than we need at this time but is intended to facilitate the whole property.
2	Anne G.	You've mentioned 7047 and 6811 [Reixinger Road] – will the plant be on both properties or just one?	
3	Sante T.	Was property value (i.e., loss in value) of adjacent directly impacted properties considered?	Property value is a significant consideration when siting these types of facilities. We need to consider properties that are there today, as well as the properties that might be there in the future. The preferred WWTP siting area is designated as future employment land. A consideration for siting here was based on its compatibility with these future land uses. We acknowledge that property values are a key topic of concern of those that are living in the area.
4	Anne G.	What impact will this have on properties that are in the area?	A key benefit of having the WWTP is the opportunity to bring in and create serviced land. While there may be an offset with the facility itself, having proximity to this facility will provide benefit to some property owners with the ability to have serviced land. Another consideration for property values is the facility aesthetics from the property boundaries. Extra effort has been placed on design elements to enhance visible building aesthetics. The Region is moving forward with opportunities to not negatively impact property values.
5	Anonymous	Will there be an increase to property taxes in the local area, even if we do not have sewer services?	At this time, we cannot comment on specific property taxes. We can highlight is that this type of project is a service through development charges, as well as the rate budget. Property taxes will be a different consideration of other elements happening across the City.
6	Ken H.	Will the wastewater from the Allanburg neighbourhood Gainer Street, Centre Street, Henderson Street be travelling to a new SPS or an existing one? How will the neighbourhood be affected?	The Thorold South forcemain will introduce a Barron Road sewer. The frontage of these surrounding lands, which aren't currently going to the Centre Street Sewage Pumping Station (SPS), would be able to connect to the Barron Road sewer. There would be a limit area south of Barron Road that would be able to work its way by gravity servicing to Barron Road. For properties further south there would have to be a local servicing strategy developed with the City of Thorold. There would be opportunity for a new SPS to pump to Barron, as well as some other considerations. The Region is focused on getting the trunk system in place which provides flexibility for the local municipalities to look at local servicing opportunities.
7	Sante T.	Will our properties be connected to the service as part of construction? My property is on Reixinger.	There will be two steps in terms of servicing the land. Through this study, we're recommending the trunk infrastructure that needs to be in place first. The Region and City of Niagara Falls will continue to look at ongoing opportunities. Extending the more localized sewers or water mains could come into play and be coordinated with construction. At this time, we cannot commit to timing of servicing the local properties but it's now in a much easier position to provide this servicing.
8	Barb G.	Will homes on Lyons Creek Road and on Reixinger Road to the east of the plant be connected initially or at some later date?	
9	Sarah W.	Concerns for odour as town of Chippawa is directly east of this proposed facility due to predominately westerly trade winds.	This study is focused on selecting the right process that enables us to collect, treat and manage odours within our property boundaries (i.e., 6811 Reixinger Road). As WWTPs have been around for 100 years, there are many examples around Ontario and communities around the world where the population has grown and become much closer to the WWTPs than originally planned.
10	Gregory M.	I live on Reixinger Road, it was brought up at a previous meeting about a 2km smell zone. Is this still going to be the case with this design?	With previous WWTPs we've learned where odours are created, how we can manage those odours, how we collect them, how we treat them, and how we design processes to minimize and manage those implications. These considerations have been integrated into this new facility so that we can make sure we're not only doing what we need to do today, but leveraging opportunity for the future, depending on what may be next door. The solution is really trying to give us that flexibility to adapt and manage what we need to do for the public and adjacent receptors.

11	William C.	The 2km “smell zone” is a direct quote from the consultants for the City regarding why they are recommending the surrounding area can be “future employment lands”. Are you saying this is not the case?	<p>The study looked at a 2-kilometre radius around the WWTP site to be thorough in our review of the potential receptors. We weren't just looking at dealing with odours with immediate neighbors but wanted to see what was around that could be sensitive. That radius was also an important factor for the QEW and some other features that could potentially affect the noise investigations.</p> <p>There is not a smell zone that goes out 2-kilometres. It's an area that was reviewed to ensure we didn't have sensitive receptors that required different levels of management. Our focus is controlling air odour and noise at the 6811 Reixinger Road property boundary itself.</p>
12	Anonymous	Can you please discuss odour control? Will you be using the latest technology such as bio filters which can remove up to 95 to 99 per cent of the odour and is a tried and tested system over the last 20 years.	<p>The Region will be reviewing all technologies with respect to odour management. At this stage, we won't commit to the specific technology on the odour management, but we have made allowance for the various technologies that are available. This is a detail that gets worked through the detailed design process. As mentioned, there are new technologies available. The management of odour control as it's evolved over the last number of years puts us in a very strong position to be able to manage any issues.</p>
13	Sarah W.	The clarifiers are one of the greatest sources of odour. How do you plan to control the odour from the open systems?	<p>The primary clarifier specifically handles the raw wastewater that physically comes into the WWTP through the pumping stations which has the largest source of odours. Because of this, we are proposing is we're cover the turbulent areas of that tank to ensure that we collect and manage all odours. These turbulent sources are where we release those orders to the air. This approach will collection, treat, and manage these odours so they don't go to the environment.</p>
14	Sarah W.	You propose covering the turbulent areas. Have you considered scrubbers on the existing exhaust area or do you plan to let it scape into atmosphere without additional treatment or control?	<p>The new WWTP will collect and treat the turbulent area from the headwork's area of a facility, the pumping station, and anything that comes down the sewer.</p> <p>These are were first modelled with no odour control and then secondarily looked at how we mitigate these to the best benefit of the community and to achieve the Ministry guideline requirements. This specifically looked at the property lines with respect to odour management.</p> <p>There is opportunity in the future if there was a very sensitive receiver close to the plant, that you could look at covering additional areas, but that comes at very significant cost. We've tried to make sure we have set the plant up so that it's flexible for new technologies in the future but made sure we did whatever we needed to do today to manage and avoid impacts to the adjacent community.</p>
15	Sarah W.	Further to the smell and noise zone, do you have an example of the sound maximum in decibels that are expected from this plant? And what low waves (inaudible to human, but audible to domestic animals and wildlife) can be expected from the plant?	<p>The odour and noise impacts were modelled specifically relative to Ministry guidelines. Through initial modelling, we noticed that we were getting more noise from the QEW than the facility itself. For this reason, the 2-kilometre boundary was reviewed so that we understood new impacts versus existing sources that are influencing the new facility, residents, and the community. The existing sources were the biggest reason why we extended this 2-kilometre boundary.</p> <p>Through the extension, we confirmed noise sources from the highway, specifically during the more critical nighttime hours. The new WWTP was modelled quieter than the QEW. And so again, we were looking at surrounding areas to make sure we weren't negatively impacting receptors.</p>
16	Kelly	Will green bin collection be dumped at the new site? If so how will it be stored? What is the odour potential? What about rodent control?	<p>This study does not cover the Region's wide application of external green bin waste but was something recognized as an excellent location to support this initiative, which is why it was considered for this facility.</p>
17	Riho S.	I understand that you decided to discharge into the Chippawa Creek rather than the Hydro Canal. In the case of a 50-year (very large) storm or rainfall, what potential impact could this have on the local river ecosystem? What preparations will your team take to mitigate potential impacts in	<p>What was interesting through the study is that the conditions at our location of Chippawa Creek, aside from the actual natural element of where it's located, is similar in terms of flow and complexity as the canal itself. But with our location, we need to be conscious of other elements. As I was mentioning around the wet weather program, what we've done here is that as some of capacity that I referred to, we didn't just do for the 30 MLD, but we did do for the future flow conditions as well so that we were cognizant of higher flows, higher connectivity to this plant. And if you will, some level of climate resiliency.</p> <p>One of the big advantages of the strategy as a whole, as I mentioned, is the larger trunk sewer itself. So this is a deeper bigger pipe. And what happens with the infrastructure such as that is it actually gets to be used as storage. So in some of these peak flow conditions, we're able to use the pipe</p>

		the case of extreme weather conditions that may come during the lifetime of the plant?	because of its depth and size to hold some of that peak flow and then ultimately get most of it, if not all of it treated through the plant itself. So it is a significant benefit to deal with those future worst-case conditions, as you're highlighting there.
18	Anonymous	Are there any natural heritage features on the land? How are they being protected?	As I mentioned, the detailed studies that we undertook were intended to identify those elements and determine their significance and what elements and what actions might be needed to manage or mitigate them. For example, just outside of the boundary of our site is the Dell Cemetery, so we would have sufficient clearance and stay further east from that facility. There is an existing farmhouse and barn that we did review in detail and document. And those are two features that would need to be removed to facilitate this particular plan. But the intent is to make sure that we have good documentation to preserve the knowledge of those features on public property.
19	Sarah W.	Is there planned bio-filtering in the form of creating marshland filtering ponds (cat tail/bullrush plantings) in tiered levels to further eliminate unforeseen contaminant overflow.	What we can commit to is that when we look at site layout there is quite a bit of green space still maintained and in the property as a whole and taking on this additional land provides for opportunities for some low impact development or other stormwater management elements while filtering, etc. These types of suggestions will be carried forward into the detailed design to not only present it in a natural environment sense, but also to manage the activity on the site as well.
20	Sante T	Will electricity be produced on site?	The new WWTP is positioned to support opportunities for energy recovery. There are many steps to determine how you can produce electricity. A lot of times energy recovery can remain on the site itself but depending on the Region's intent, there is opportunity to look at sending that back into the power grid. These are details that will be worked through in detailed design. Through the WWTP technology selection, there is supported opportunities.
21	Dave S.	There is good green energy planning so far and design is still preliminary. Is the goal for it to be a net zero facility? The west side could be used for other green energy production if not needed for treatment	
22	Mark F.	I own the chicken farm on Reixinger and Montrose. If you are closing Reixinger Road, I need access for 80ton trucks to come onto my property for feed daily. How will this be done?	Project Team to continue discussions with property owner through the Class EA process as well as detailed design. Accommodations will be provided to ensure the continued site operations.
23	Peter W.	The road widening on Biggar Road and Montrose Road is starting this June. Wouldn't the sewer construction start much earlier in conjunction with the road widening?	This study provided coordination with the hospital team as well as the transportation team looking at the road widening of Montrose and those construction activities. Some components will be starting earlier, but we have coordinated the alignment and location. This is a different style of construction that we would be proposing on Montrose with a tunneling activity. It will be about locating those shafts as opposed to open cut and digging up the whole road. In summary, it is coordinated but components will be coming in after. The Montrose widening construction won't extend all the way north to the full extent of our sewer. It will be focused on the southern limits near the hospital.
24	Anonymous	How much extra traffic will there be in the area due to trucks going to the plant?	Traffic was considered for the WWTP operations. A detailed traffic impact assessment will be completed through detailed design to demonstrate any traffic impacts during the construction of the recommended program.
25	Anonymous	Regarding the tunnelling, please comment on any similarity's issues if any from the 2008 Niagara Tunnelling project issues encountered.	The Region brought forward lessons learned and other issues encountered from other projects, whether it be a treatment plant project or a trunk sewer tunnel. Concerns for gas issues [hydrogen sulfide] previously encountered in the soils were brought forward, along with conflicts and the logistics of the construction. With tunnelled sewers, there are similarities with soil conditions across the general area, but also unique elements for your alignment or depth.

			In this case, we went through a lot of detail of what to expect with the completion of a geotechnical survey. We believe these issues are manageable. The Region will complete greater detail on geotechnical investigations to receive more information and points along the alignment to help ensure we manage these risks. The Region will continue to build on lessons learned and ensure that we manage those risks that can sometimes not be eliminated.
26	Anne G.	Has there been resistance to this plan?	<p>To date there has been limited resistance to the plan. I think a lot of those that we've been speaking to appreciate the broader nature of this program itself. The broader goals that we're trying to do is not just meet growth but protect the environment and the opportunities that it brings. We're very appreciative of the comments received today, and we understand that those located closer to this solution would have a different opinion than those located further away.</p> <p>We are trying to balance all the considerations from all the site locations themselves. I wouldn't say it's unanimous, but there's been general support and there's been a lot of consideration to make sure that we don't forget about as it moves forward into implementation.</p>
27	Barb G.	Is there a target date for construction?	With the class EA study being completing this year, the intent is to move straight into detailed design for these components. The Region's goal is to have their design consultant on board this year to start this process. Detailed design will take place over 2023 and into 2024. The goal is to start construction as early as late 2024. With this scale of work, this is anticipated as a three (3) year construction period. The early in-service date is focused on 2027.
28	Anonymous	Can you share the link to where we can find the recording of this zoom meeting in the future?	The presentation slides, the link, all the information about this project will be available on the project webpage (https://www.niagararegion.ca/projects/south-niagara-falls-treatment-plant/default.aspx).

3. NEXT STEPS

Following this final round of public consultation, the project team will:

- Consider all feedback received through the PIC No. 4 live presentation and two-week online comment period,
- Finalize site specific investigation and results,
- Submit appropriate disciplined studies to Indigenous Communities and respective Ministries,
- Document all study recommendations and consultation through an Environmental Study Report which will be placed on public review in spring 2022,
- Comments received during the public review period will be incorporated and considered during Class EA filing and will be brought forward into detailed design.

APPENDIX A
PIC NO. 4 NOTIFICATIONS

COME ENGAGE ON THE PREFERRED DESIGN CONCEPTS FOR THE PLANT AND SEWERS

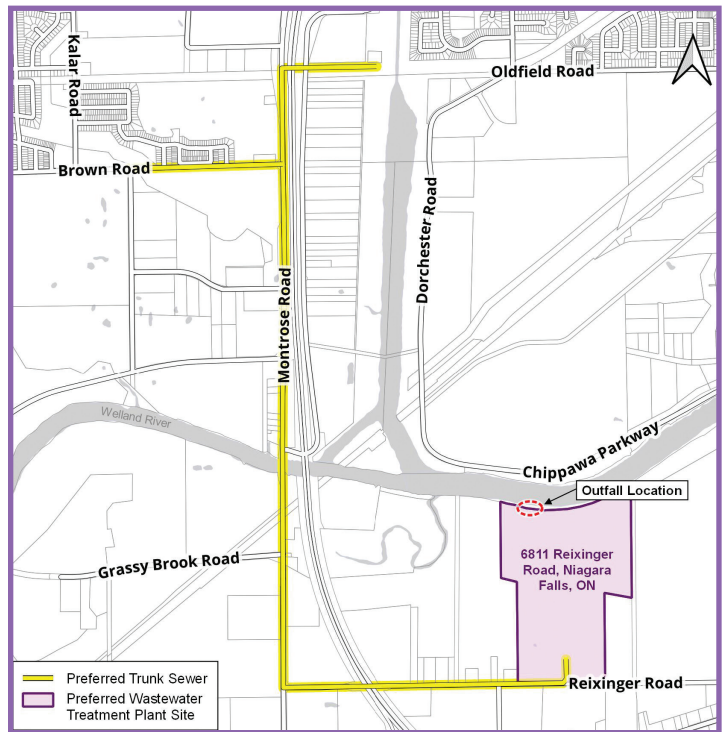
ABOUT THE STUDY

Niagara Region is planning ahead. We are working with the Cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant (WWTP) in South Niagara Falls. We are also studying how we can make the overall sewer system better.

PUBLIC CONSULTATION

Your input is important throughout the process. You are invited to a Public Information Centre to learn more about the study and the recommendations. The Region will be presenting the preferred design concepts for the new plant, trunk sewer, and Thorold servicing. This includes the proposed WWTP site (6811 Reixinger Road, Niagara Falls, ON), plant outfall discharge location (Welland River East), and associated sewer strategy (Montrose Road and Thorold South) and alignments.

The public will have the opportunity to listen to a presentation of the recommendations as well as ask questions and provide comments at the following time:



Wednesday, Feb. 9, 2022 | 6 – 7 p.m.

To attend the live virtual presentation, **please register on the project webpage**. You will receive a personalized access link. To register or view presentation materials use the link below or scan the QR code with your smartphone.

niagararegion.ca/projects/south-niagara-falls-treatment-plant

On the project webpage you may also submit feedback and/or join the study mailing list. Comments for Public Information Centre No. 4 will be accepted between Feb. 9 – 23, 2022. If you require hardcopies of review materials, please contact the undersigned.



CONTACT

Ms. Lisa Vespi, P.Eng., PMP
Manager, Capital Projects
Water-Wastewater Engineering
Niagara Region
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario, L2V 4T7
905-980-6000 ext. 3640
New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.
Consultant Project Manager
GM BluePlan Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
416-703-0667
Chris.Hamel@gmblueplan.ca

If you require any accommodations to participate, contact the **Niagara Region's Accessibility Coordinator** at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca.

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act. The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

MOVING WATER FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE #4 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

COME ENGAGE ON THE PREFERRED DESIGN CONCEPTS FOR THE PLANT AND SEWERS

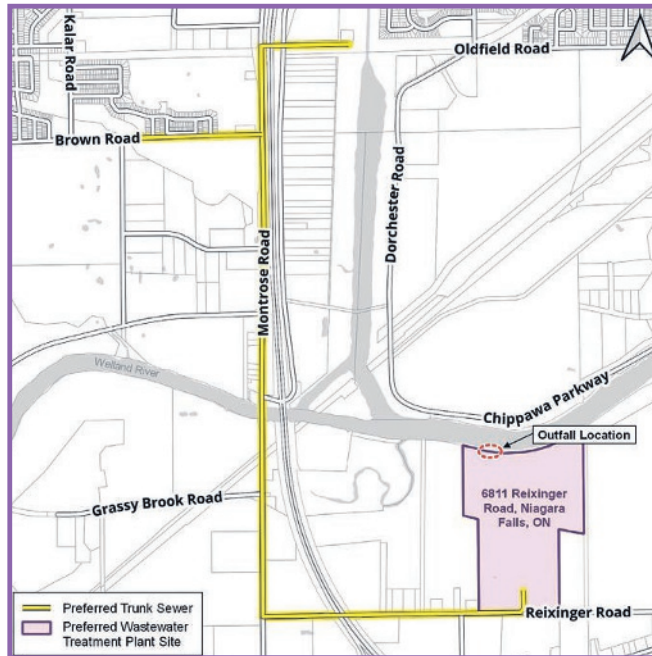
ABOUT THE STUDY

Niagara Region is planning ahead. We are working with the Cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant (WWTP) in South Niagara Falls. We are also studying how we can make the overall sewer system better.

PUBLIC CONSULTATION

Your input is important throughout the process. You are invited to a Public Information Centre to learn more about the study and the recommendations. The Region will be presenting the preferred design concepts for the new plant, trunk sewer, and Thorold servicing. This includes the proposed WWTP site (6811 Reixinger Road, Niagara Falls, ON), plant outfall discharge location (Welland River East), and associated sewer strategy (Montrose Road and Thorold South) and alignments.

The public will have the opportunity to listen to a presentation of the recommendations as well as ask questions and provide comments at the following time:



Wednesday, Feb. 9, 2022 | 6 – 7 p.m.

To attend the live virtual presentation, **please register on the project webpage**. You will receive a personalized access link. To register or view presentation materials use the link below or scan the QR code with your smartphone.
niagararegion.ca/projects/south-niagara-falls-treatment-plant



On the project webpage you may also submit feedback and/or join the study mailing list. Comments for Public Information Centre No. 4 will be accepted between Feb. 9 – 23, 2022. If you require hardcopies of review materials, please contact the undersigned.

CONTACT

Ms. Lisa Vespi, P.Eng., PMP
Manager, Capital Projects
Water-Wastewater Engineering
Niagara Region
3501 Schmon Parkway,
PO Box 1042
Thorold, Ontario, L2V 4T7
905-980-6000 ext. 3640
New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.
Consultant Project Manager
GM BluePlan
Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
416-703-0667
Chris.Hamel@gmblueplan.ca

If you require any accommodations to participate, contact the **Niagara Region's Accessibility Coordinator** at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca.

Personal information collected or submitted in writing at public meetings we be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act. The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

NEWS



Paul Forsyth/Metroland
American's Hospitality Inn tenant Eleanor Rye, shown as tenants are removed from the motel on Lundy's Lane in Niagara Falls on Saturday, said she feared her possessions could be stolen if she left.

'I'VE GOT NOWHERE TO GO,' TENANT SAYS

Continued from page 19

that she feared her possessions would be stolen if she left them behind and went to a shelter.

"I've got no means to move my stuff," she said, shivering in the extreme cold.

"Everything I have is left here," said Rye. "(People) will just ransack it but I'm out of options: I've got nowhere to go. I've been ripped out of my home."

Motel owner Gurmeet Singh said in an interview last Monday that he discovered serious problems with the motel after he purchased it in November. "The place is not livable," he said. "We need time to renovate this place."

He alleged at least some of the tenants were living there illegally.

An attempt to reach the Red Cross was unsuccessful on the weekend.

Despite the crisis that was unfolding, Rye said acts of kindness by strangers were a bright spot for tenants.

"We've had people from as far away Toronto feed us," she said on Saturday. "One lady called and donated \$350 yesterday and fed everybody." Empty McDonalds takeout food containers were visible piled against the overflowing garbage container at the motel on Saturday.

Aniko Bzdyl said she discovered the evacuation was underway after she showed up at the motel on Saturday to drop off clothing for tenants through the Socks and Snacks crew.

Rye said she was touched by the kindness shown by others. "The people who have helped us have been amazing, don't get me wrong," she said. "They're the most wonderful people. But nobody seems to understand how dire this is. This is a real emergency."

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

niagararegion.ca/projects/south-niagara-falls-treatment-plant

Niagara  Region

Meat Loaf rocked like a 'Bat Out of Hell'

Iconic album from 1977 created with Jim Steinman still among top 10 for best-selling of all time

HILLEL ITALIE

NEW YORK Meat Loaf, the rock superstar loved by millions for his "Bat Out of Hell" album and for such theatrical, dark-hearted anthems as "Paradise By the Dashboard Light," "Two Out of Three Ain't Bad," and "I'd Do Anything for Love (But I Won't Do That)," has died. He was 74.

The singer born Marvin Lee Aday died Thursday, according to a family statement provided by his long-time agent Michael Greene.

"Our hearts are broken to announce that the incomparable Meat Loaf passed away tonight," the statement said. "We know how much he meant to so many of you and we truly appreciate all of the love and support as we move through this time of grief in losing such an inspiring artist and beautiful man ... From his heart to your souls ... don't ever stop rocking!"

No cause or other details were given, but he had numerous health scares over the years.

"Bat Out of Hell," his megaselling collaboration with songwriter Jim



Steinman and producer Todd Rundgren, came out in 1977 and made him one of the most recognizable performers in rock.

Fans fell hard for the roaring vocals of the long-haired, 250-plus pound singer and for the comic non-romance of the title track, "You Took The Words Right Out of My Mouth," "Two Out of Three Ain't Bad" and "Paradise By the Dashboard Light," an operatic cautionary tale about going all the way.

Meat Loaf's biggest musical suc-

cess after "Bat Out of Hell" was "Bat Out of Hell II: Back into Hell," a 1993 reunion with Steinman that sold more than 15 million copies and featured the Grammy-winning single "I'd Do Anything for Love (But I Won't Do That)."

Steinman died in April.

Meat Loaf's other albums included "Bat Out of Hell III: The Monster is Loose," "Hell in a Handbasket" and "Braver Than We Are."

A native of Dallas, Marvin Lee Aday was the son of a school teacher who raised him on her own after divorcing his alcoholic father, a police officer.

He was still a teenager when his mother died and when he acquired the nickname Meat Loaf, the alleged origins of which range from his weight to a favourite recipe of his mother's. He left for Los Angeles after college and was soon fronting the band Meat Loaf Soul.

By the mid-1970s, he was playing the lobotomized biker Eddie in the theatre and film versions of "The Rocky Horror Picture Show" and had begun working with Steinman on "Bat Out of Hell."

"Bat Out of Hell" took more than two years to find a taker as numerous record executives turned it down, including RCA's Clive Davis, who disparaged Steinman's songs and acknowledged that he had misjudged the singer: "The songs were coming over as very theatrical, and Meat Loaf, despite a powerful voice, just didn't look like a star," Davis wrote in his memoir, "The Soundtrack of My Life."

With the help of another Springsteen sideman, Steve Van Zandt, "Bat Out of Hell" was acquired by Cleveland International, a subsidiary of Epic Records. The album made little impact until months after its release, when a concert video of the title track was aired on the British program the Old Grey Whistle Test. In the U.S., his connection to "Rocky Horror" helped when he convinced producer Lou Adler to use a video for "Paradise By the Dashboard Light" as a trailer for the cult movie.

He is survived by Deborah Gillespie, his wife since 2007, and by daughters Pearl and Amanda Aday.

Meat Loaf, shown performing in 1977, has died at age 74.

GETTY IMAGES

THE ASSOCIATED PRESS

MOVING
WATER
FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE #4 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

COME ENGAGE ON THE PREFERRED DESIGN CONCEPTS FOR THE PLANT AND SEWERS

ABOUT THE STUDY

Niagara Region is planning ahead. We are working with the Cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant (WWTP) in South Niagara Falls. We are also studying how we can make the overall sewer system better.

PUBLIC CONSULTATION

Your input is important throughout the process. You are invited to a Public Information Centre to learn more about the study and the recommendations. The Region will be presenting the preferred design concepts for the new plant, trunk sewer, and Thorold servicing. This includes the proposed WWTP site (6811 Reixinger Road, Niagara Falls, ON), plant outfall discharge location (Welland River East), and associated sewer strategy (Montrose Road and Thorold South) and alignments.

The public will have the opportunity to listen to a presentation of the recommendations as well as ask questions and provide comments at the following time:

Wednesday, Feb. 9, 2022 | 6 – 7 p.m.

To attend the live virtual presentation, please register on the project webpage. You will receive a personalized access link. To register or view presentation materials use the link below or scan the QR code with your smartphone.
niagararegion.ca/projects/south-niagara-falls-treatment-plant

On the project webpage you may also submit feedback and/or join the study mailing list. Comments for Public Information Centre No. 4 will be accepted between Feb. 9 – 23, 2022. If you require hardcopies of review materials, please contact the undersigned.



CONTACT

Ms. Lisa Vespi, P.Eng., PMP
Manager, Capital Projects Water-Wastewater Engineering
Niagara Region
3501 Schmon Parkway, PO Box 1042
Thorold, Ontario, L2V 4T7
905-980-6000 ext. 3640
New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.
Consultant Project Manager
GM BluePlan Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
416-703-0667
Chris.Hamel@gmblueplan.ca

If you require any accommodations to participate, contact the **Niagara Region's Accessibility Coordinator** at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca.

Personal information collected or submitted in writing at public meetings we be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act. The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES
niagararegion.ca/projects/south-niagara-falls-treatment-plant

Niagara Region

Click for a chance at \$1000 towards your bills!

COVID-19: Ontario to start sharing data about school absences amid Omicron

Good morning, Thorold!

Winter weather travel advisory in effect: Environment Canada

BEYOND LOCAL: Decoding cystic fibrosis and new treatments worthy of Nobel Prize

A blanket of snow covers the landmarks of Thorold

Ontario reports 604 patients in ICU, 57 deaths in latest COVID-19 report

BEYOND LOCAL: Legal reform needed to protect young women from online sexual violence

[MORE THOROLD NEWS >](#)

ONTARIO NEWS



[VIEW ALL OFFERS >](#)
[POST YOUR OWN AD HERE >](#)

BEYOND LOCAL



BEYOND LOCAL: Artificial Intelligence can discriminate against older adults due to lack of data

VIDEO: Calgary aviation buff comes to Ontario to witness Dash 8-300's last hurrah

BEYOND LOCAL: 'Congratulations, it's a girl!' - Canadian doctor helps deliver baby mid-flight

[MORE BEYOND LOCAL >](#)

COMMUNITY POLL

Participate in our next community poll. **Of the current provincial**



Congratulations Brian D, winner of a trip for two from Flair Airlines!



Introducing a new way for ThoroldToday+ members to connect with our team!

[Member homepage >](#)

PUBLIC NOTICE

Notice of Online Public Information Centre #4
South Niagara Falls Wastewater Solutions

[Learn More](#)

Niagara Region
niagararegion.ca/projects

POLICE BEAT



RECALLING THE BLIZZARD OF '77

SNOWMOBILES, MILITARY AID WERE NEEDED TO HELP DIG OUT, CATHY ROY WRITES



CATHY ROY
Column

As I write this column, the weather outside my window looks like a typical January day in Niagara. I would not have said the same thing a few days ago, when up to 50 centimetres of snow fell in less than 24 hours. It was certainly a reminder for some of us old enough to remember a different storm that occurred on Jan. 28 some 45 years ago.

The Blizzard of '77 is largely attributed to the fact that Lake Erie was entirely frozen, which was extremely rare. The National Weather Service indicated it had snowed every day since Christmas Day of 1976, which led to a whopping 150 cm of snow falling prior to the blizzard. Strong winds that peaked at more than 110 km/h blew more than 25,000 square kilometres of snow off the lake and inland to bury many people in their homes and cars. High winds also contributed to a paralyzing wind chill factor that was colder than -45 C. In these conditions, it would take as little as 10 minutes for frostbite to set in.

As you can imagine, the area roads were a mess. Snowdrifts closed the QEW from St. Catharines to Fort Erie. At first, many didn't believe that the roads were closed and they attempted to drive on them. This led to many vehicles being left stranded, preventing snowplows from clearing the streets. Some snowplow operators reported shearing the tops off buried cars! Once the snow tapered off, residents were asked to go out and put markers on mailboxes, fire hydrants and other roadside obstructions that were buried in drifts so snowplow operators could begin to clear the streets safely.

A state of emergency was declared in Niagara on Friday, Jan. 28 at 3 p.m. and shortly after, an urgent call went out for snowmobiles. By Friday evening, about 100 machines were skimming over the drifts,

See **EFFECTS**, page 52

MOVING WATER FORWARD

NOTICE OF PUBLIC INFORMATION CENTRE #4 SOUTH NIAGARA FALLS WASTEWATER SOLUTIONS

MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT

COME ENGAGE ON THE PREFERRED DESIGN CONCEPTS FOR THE PLANT AND SEWERS

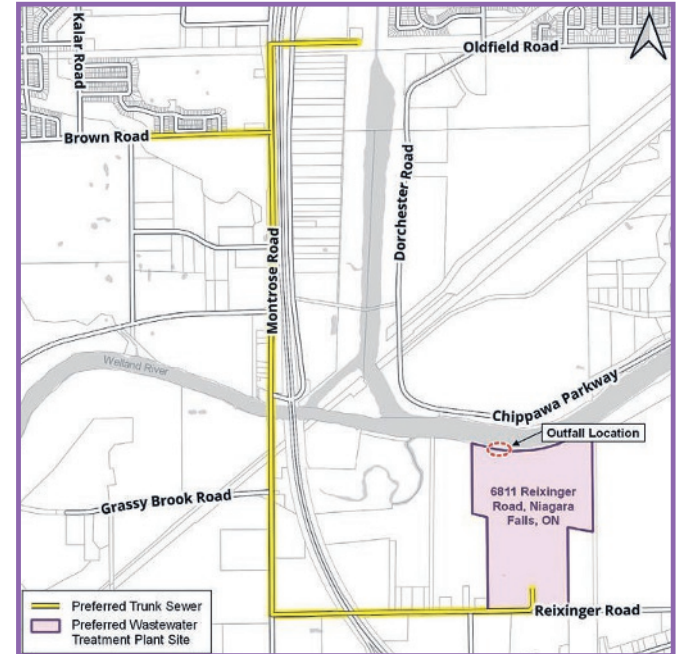
ABOUT THE STUDY

Niagara Region is planning ahead. We are working with the Cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant (WWTP) in South Niagara Falls. We are also studying how we can make the overall sewer system better.

PUBLIC CONSULTATION

Your input is important throughout the process. You are invited to a Public Information Centre to learn more about the study and the recommendations. The Region will be presenting the preferred design concepts for the new plant, trunk sewer, and Thorold servicing. This includes the proposed WWTP site (6811 Reixinger Road, Niagara Falls, ON), plant outfall discharge location (Welland River East), and associated sewer strategy (Montrose Road and Thorold South) and alignments.

The public will have the opportunity to listen to a presentation of the recommendations as well as ask questions and provide comments at the following time:



Wednesday, Feb. 9, 2022 | 6 – 7 p.m.

To attend the live virtual presentation, **please register on the project webpage**. You will receive a personalized access link. To register or view presentation materials use the link below or scan the QR code with your smartphone.
niagararegion.ca/projects/south-niagara-falls-treatment-plant



On the project webpage you may also submit feedback and/or join the study mailing list. Comments for Public Information Centre No. 4 will be accepted between Feb. 9 – 23, 2022. If you require hardcopies of review materials, please contact the undersigned.

CONTACT

Ms. Lisa Vespi, P.Eng., PMP
Manager, Capital Projects
Water-Wastewater Engineering
Niagara Region
3501 Schmon Parkway,
PO Box 1042
Thorold, Ontario, L2V 4T7
905-980-6000 ext. 3640
New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.
Consultant Project Manager
GM BluePlan
Engineering Limited
3300 Highway 7, Suite 402
Vaughan, Ontario, L4K 4M3
416-703-0667
Chris.Hamel@gmblueplan.ca

If you require any accommodations to participate, contact the **Niagara Region's Accessibility Coordinator** at 905-685-4225 ext. 3252 or accessibility@niagararegion.ca.

Personal information collected or submitted in writing at public meetings we be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act. The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

niagararegion.ca/projects/south-niagara-falls-treatment-plant

Niagara  Region

**NOTICE OF PUBLIC INFORMATION CENTRE #4
SOUTH NIAGARA FALLS
WASTEWATER SOLUTIONS
MUNICIPAL SCHEDULE 'C' CLASS ENVIRONMENTAL ASSESSMENT**

COME ENGAGE ON THE PREFERRED DESIGN CONCEPTS FOR THE PLANT AND SEWERS

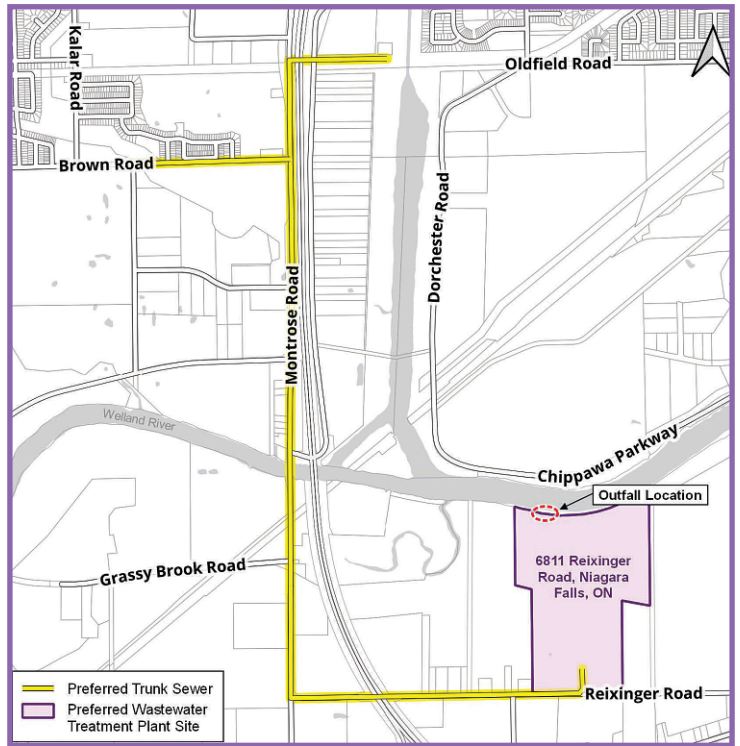
ABOUT THE STUDY

Niagara Region is planning ahead. We are working with the Cities of Niagara Falls and Thorold on an important study for a new wastewater treatment plant (WWTP) in South Niagara Falls. We are also studying how we can make the overall sewer system better.

PUBLIC CONSULTATION

Your input is important throughout the process. You are invited to a Public Information Centre to learn more about the study and the recommendations. The Region will be presenting the preferred design concepts for the new plant, trunk sewer, and Thorold servicing. This includes the proposed WWTP site (6811 Reixinger Road, Niagara Falls, ON), plant outfall discharge location (Welland River East), and associated sewer strategy (Montrose Road and Thorold South) and alignments.

The public will have the opportunity to listen to a presentation of the recommendations as well as ask questions and provide comments at the following time:



CONTACT

Ms. Lisa Vespi, P.Eng., PMP
Manager, Capital Projects Water-Wastewater Engineering
 Niagara Region
 3501 Schmon Parkway, PO Box 1042
 Thorold, Ontario, L2V 4T7
 905-980-6000 ext. 3640
New.Treatment.Plant@niagararegion.ca

Mr. Chris Hamel, P.Eng.
 Consultant Project Manager
 GM BluePlan Engineering Limited
 3300 Highway 7, Suite 402
 Vaughan, Ontario, L4K 4M3
 416-703-0667
Chris.Hamel@gmblueplan.ca

If you require any accommodations to participate, contact the **Niagara Region's Accessibility Coordinator** at 905-685-4225 ext. 3252 or **accessibility@niagararegion.ca**.

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of the Regional Council and Regional staff in accordance with the Municipal Freedom of Information and Protection of Privacy Act. The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or **FOI@niagararegion.ca**

Wednesday, Feb. 9, 2022 | 6 – 7 p.m.

To attend the live virtual presentation, **please register on the project webpage**. You will receive a personalized access link. To register or view presentation materials use the link below or scan the QR code with your smartphone.
niagararegion.ca/projects/south-niagara-falls-treatment-plant

On the project webpage you may also submit feedback and/or join the study mailing list. Comments for Public Information Centre No. 4 will be accepted between Feb. 9 – 23, 2022. If you require hardcopies of review materials, please contact the undersigned.

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES
 niagararegion.ca/projects/south-niagara-falls-treatment-plant



**NIAGARA FALLS
REVIEW**

BUILT ON TRUST
 SUBSCRIBE TODAY
1-866-318-5060

141 YEARS OF TRUST

THE NIAGARA FALLS REVIEW IS ESTABLISHED AS YOUR TRUSTED NEWS SOURCE

1867 CANADA BECOMES A COUNTRY

1879 NIAGARA FALLS REVIEW

1910 THE BIRTH OF PUBLIC RADIO BROADCASTING

1939 THE TELEVISION IS INTRODUCED

1989 THE WORLD WIDE WEB IS INVENTED

TODAY NIAGARA FALLS REVIEW

In this era of fake news and alternative facts, journalism is more important than ever. The Niagara Falls Review and its journalists are still dedicated to bringing you trusted stories that matter to you and your community.

Cash strapped? We might be able to help.

BEYOND LOCAL: Co-housing and dementia villages offer alternatives for long-term care

Rash of break-ins, vehicle thefts across the region leads to arrest in Thorold

Nearly 500 COVID patients in Ontario ICUs, province reports 67 deaths Friday

Good morning, Thorold!

St. Catharines armed robbery suspect arrested in Toronto

Attention Thorold residents: Be on the lookout for crows

City aims to finish snow removal operations by next week

[MORE THOROLD NEWS >](#)

ONTARIO NEWS



[VIEW ALL OFFERS >](#)
[POST YOUR OWN AD HERE >](#)

BEYOND LOCAL



CANADA: Ottawa girds for another day of gridlock as truckers' park-in protest rolls on

Toronto Zoo welcomes litter of cheetah cubs, says 3 of them appear to be doing well

BEYOND LOCAL: Comments from the front lines of the Parliament Hill protest against vaccine mandates

[MORE BEYOND LOCAL >](#)

COMMUNITY POLL

Participate in our next community poll.
What proof of vaccination do



Congratulations Brian D, winner of a trip for two from Flair Airlines!



Introducing a new way for ThoroldToday+ members to connect with our team!

[Member homepage >](#)

PUBLIC NOTICE

Notice of Online Public Information Centre #4
South Niagara Falls Wastewater Solutions

[Learn More](#)

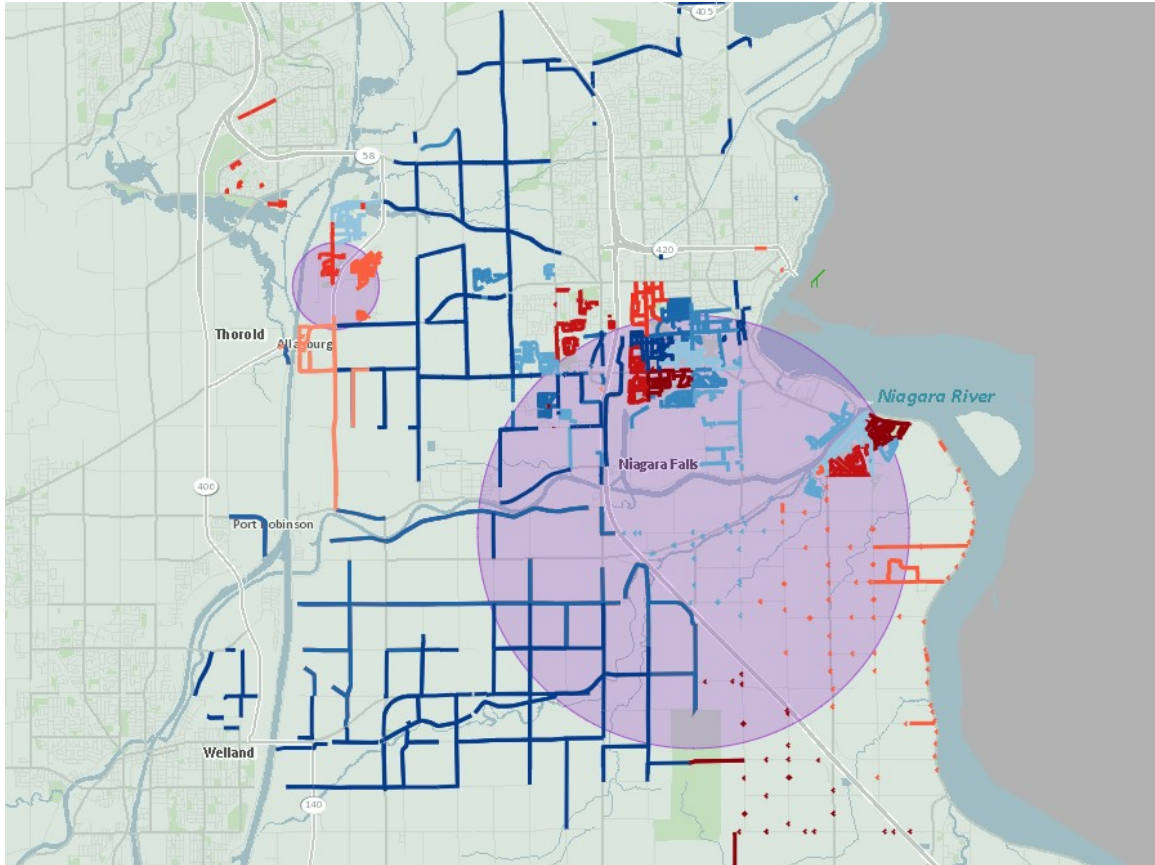
Niagara Region
niagararegion.ca/projects

POLICE BEAT



APPENDIX B
PIC NO.4 COMMUNITY MAILOUT

Reaching the right people with the right message is a key driver of campaign success. The map below shows your selected trade area and the routes that make up your coverage. The routes are colour coded according to the penetration of your selected demographic variable(s) to show how closely it matches your ideal prospect.



Your Targeting Report

Route Ranking Report



Below you will find your Route Ranking Report, which provides you with a tabular view of the routes within your trade area ranked according to the value of the selected demographic variable(s). By looking at the "Cumulative Penetration" and the "Cumulative Points of Call" columns, you can easily determine which routes you need to target in order to meet your desired quota.

GM BLUEPLAN ENGINEERING

FSA	Delivery Mode (Route)	Depot	All Points Of Call	Distance (KM)	Cumulative Points of Call
L2G	SS0008	NIAGARA FALLS LCD MAIN	879	0	879
L2V	LC0049	ST CATHARINES LCD 2	552	0.08	1431
L2V	SS0104	ST CATHARINES LCD 2	375	0.65	1806
L0S	RR0002	ALLANBURG PO	152	0.93	1958
L2E	SS0006	NIAGARA FALLS LCD MAIN	78	1.24	2036
L2V	LC0048	ST CATHARINES LCD 2	512	1.35	2548
L0S	LB0001	PORT ROBINSON PO	287	1.86	2835
L0S	RR0001	PORT ROBINSON PO	324	1.86	3159
L2H	SS0006	NIAGARA FALLS LCD MAIN	614	2.59	3773
L2G	SS0009	NIAGARA FALLS LCD MAIN	417	2.84	4190
L3B	RR0001	WELLAND LCD MAIN	493	3.62	4683
L2G	SS0007	NIAGARA FALLS LCD MAIN	71	3.68	4754
L2G	LC0019	NIAGARA FALLS LCD MAIN	1075	3.8	5829
L2G	LC0015	NIAGARA FALLS LCD MAIN	706	4.21	6535
L2G	LC0021	NIAGARA FALLS LCD MAIN	717	4.35	7252
L2H	SS0004	NIAGARA FALLS LCD MAIN	1017	4.37	8269
L2G	LC0023	NIAGARA FALLS LCD MAIN	646	4.42	8915
L2G	LC0017	NIAGARA FALLS LCD MAIN	473	4.58	9388
L2G	LC0013	NIAGARA FALLS LCD MAIN	454	4.59	9842
L2H	SS0009	NIAGARA FALLS LCD MAIN	242	4.75	10084
L2H	SS0007	NIAGARA FALLS LCD MAIN	795	5.05	10879
L2G	LC0027	NIAGARA FALLS LCD MAIN	625	5.13	11504
L2G	LC0002	NIAGARA FALLS LCD MAIN	95	5.15	11599
L2G	LC0025	NIAGARA FALLS LCD MAIN	578	5.21	12177
L2H	LC0019	NIAGARA FALLS LCD MAIN	9	5.37	12186
L2G	LC0033	NIAGARA FALLS LCD MAIN	797	5.75	12983
L2G	LC0029	NIAGARA FALLS LCD MAIN	646	6.03	13629
L2G	LC0011	NIAGARA FALLS LCD MAIN	506	6.22	14135
L2G	LC0031	NIAGARA FALLS LCD MAIN	588	6.36	14723
L2G	CF0000	NIAGARA FALLS LCD MAIN	1	6.73	14724
L2H	LC0049	NIAGARA FALLS LCD MAIN	1019	6.78	15743

Your Targeting Report

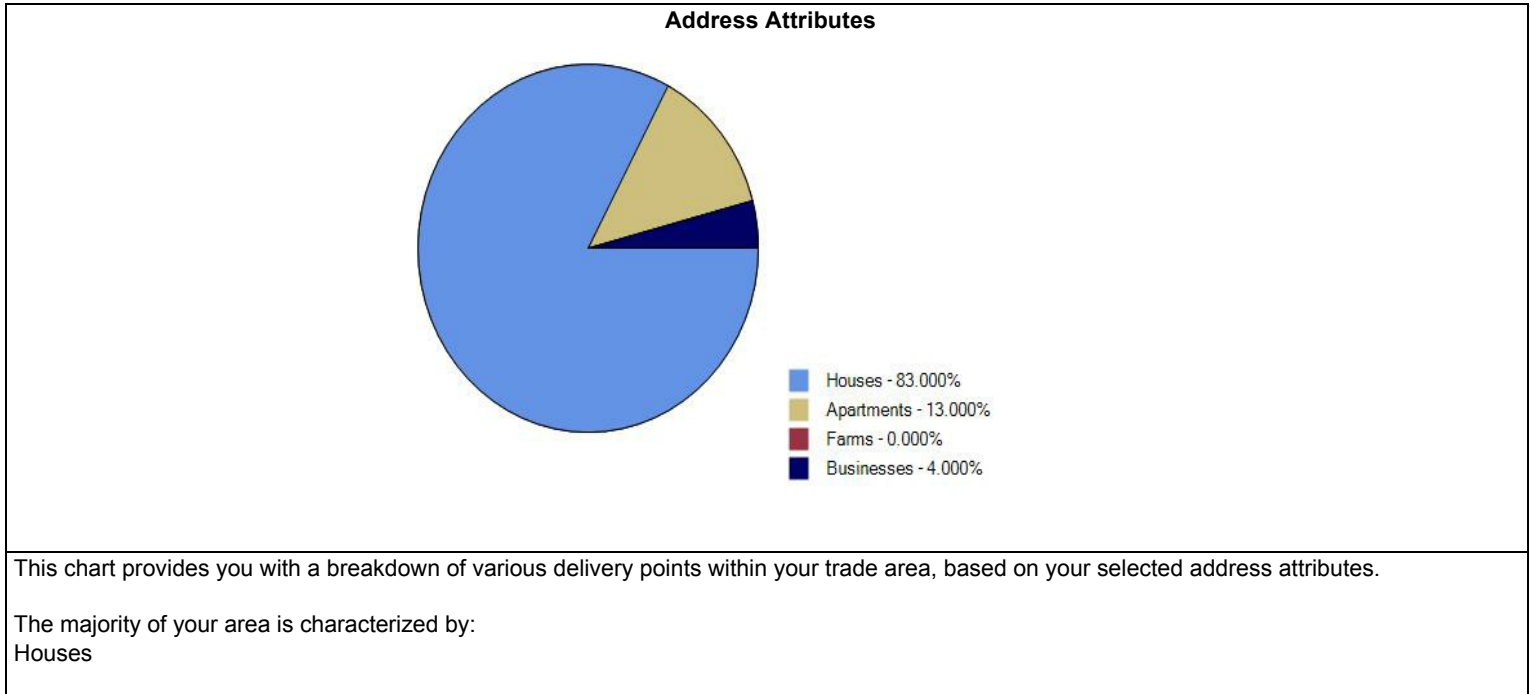
Postal Station Summary



To avoid transportation charges, you may want to deposit your Neighbourhood Mail™ directly at each postal station responsible for your mailing. The table below provides you with a list of post offices where you need to induct your mailing, and how many pieces must be deposited at each location.

	HOUSES	APARTMENTS	FARMS	BUSINESSES	TOTAL POINTS OF CALL
PORT ROBINSON PO45 BRIDGE ST E PORT ROBINSON ON L0S 1K0					
TOTAL	553	15	6	37	611
NIAGARA FALLS LCD MAIN4500 QUEEN ST NIAGARA FALLS ON L2E 2L0					
TOTAL	10560	1948	20	520	13048
ST CATHARINES LCD 21-234 BUNTING RD ST CATHARINES ON L2M 3Y0					
TOTAL	1356	55	0	28	1439
WELLAND LCD MAIN26 DIVISION ST WELLAND ON L3B 3Z0					
TOTAL	477	0	0	16	493
ALLANBURG PO2336 CENTRE ST ALLANBURG ON L0S 1A0					
TOTAL	135	7	0	10	152
GRAND TOTAL	13081	2025	26	611	15743

Below, you will find some insights to your trade area. The provided charts give a simple visual representation of some key characteristics of your target area in order to help you better understand the dynamics of your market.



Did you know...

We can help you discover and harvest untapped market potential? We do so by generating a list of additional high value routes, typically located just outside your selected trade area, that meet or exceed your targeting criteria. To take advantage of this offering, simply accept our high value walk suggestions within the online application or request this feature when having an analysis run by our team of geospatial analysts.

APPENDIX C
PIC NO. 4 DISPLAY BOARDS

South Niagara Falls Wastewater Solutions Schedule C Class Environmental Assessment

Public Information Centre No. 4

Recommendations and Preliminary Preferred Design Concepts

Study Background and Purpose

Foundation for this Study: The Niagara Region Water and Wastewater Master Servicing Plan Update (MSP 2017)

Key issues addressed by the MSP (2017):

- Accommodating growth,
- Improving and increasing capacity in the existing sanitary and combined stormwater systems, and,
- Managing wet weather flows.

Preferred Solution from the MSP (2017):

- Build a new wastewater treatment plant in South Niagara Falls, and,
- Improve the existing sewer system and connect it to the new plant.

The Master Servicing Plan Update was adopted by Niagara Region Council in 2017.

The purpose of the South Niagara Falls Wastewater Solutions Class EA is to determine:

- Where to locate the new wastewater treatment plant in South Niagara Falls,
- Which body of water will receive the clean, treated water from the new plant, and,
- How best to integrate the wastewater network to address growth, make the system as efficient as possible, and manage wet weather.

This is defined as the Problem and Opportunity Statement under the Class EA process

Key Dates

February 9, 2022:
New information posted to project website and live presentation (6-7pm)

February 10, 2022:
Recorded presentation available on the project website

February 9 to February 23, 2022:
Submit questions or comments to the Niagara Region Project Manager via the project website



Present recommendations and preliminary preferred design concepts for key study components.



Provide clarity on the Municipal Class Environmental Assessment process and results.



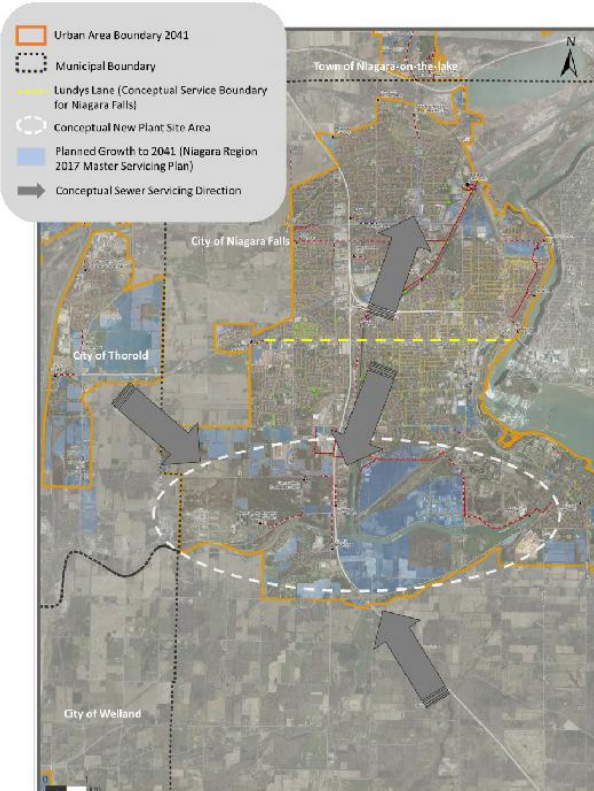
Identify next steps and study commitments.



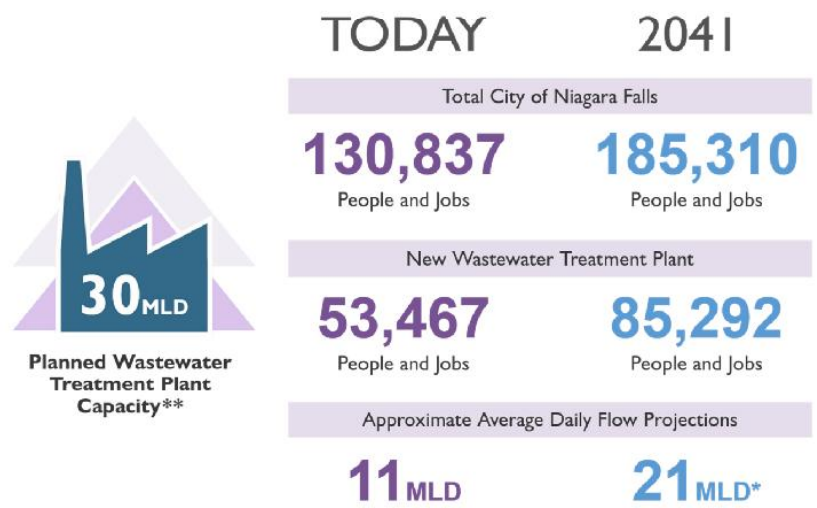
Receive feedback on the preliminary preferred design concepts.

This is the fourth and final PIC for this study.

Planning Context and Servicing Needs



Growth and Flow Projections



* Initial planned capacity will address growth needs beyond 20 years as well as firm capacity for all treatment processes.

** Wastewater Treatment Plant site planning will consider future expansion to 60 MLD for post 2041 growth.

1. Protect the environment:

- Reduce pollution into rivers and the environment
- Minimize flooding (i.e., overflows, basements)

2. Provide flexibility for the future:

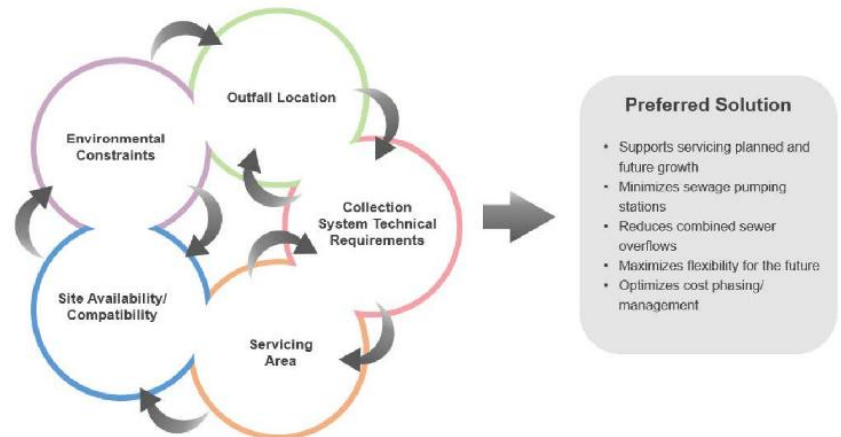
- Ensure the facility has ability to respond to changing regulations and needs
- Free up capacity in existing infrastructure

3. Accommodate growth:

- Increase system capacity
- Support economic development

4. Establish the new WWTP as a community asset:

- Mitigate and manage issues such as odour, noise, and traffic



Where are we in the Study Process?

Municipal Class EA (MCEA) Process:

- This study will satisfy Phases 1 to 4 of the MCEA Process
- The current Phase 3 process will:
 - Identify design concept alternatives
 - Prepare detailed solution inventory
 - Evaluate comprehensive design concept alternatives
 - Select the preliminary preferred design concepts and technologies
 - Identify impacts and how to address them
 - **Public Information Centre No. 4**
 - Confirm the preferred design concepts and technologies

PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5
Problem or Opportunity	Alternative Solutions	Alternative Design Concepts for Preferred Solution	Environmental Study Report	Implementation
Identify Problem or Opportunity	Identify Alternative Solutions to Problem or Opportunity	Identify Alternative Solutions to Problem or Opportunity	Complete Environmental Study Report	Complete Contract Drawings and Tender Documents
Discretionary Public Consultation to Review Problem or Opportunity (PIC No. 1)	Inventory Natural, Social, Economic Environment	Detail Inventory Natural, Social, Economic Environment	Environmental Study Report Placed on Public Record	Proceed to Construction and Operation
	Identify Impact of Alternative Solutions on the Environment, and Mitigating Measures (PIC No. 2)	Identify Impact of Alternative Designs on Environment, and Mitigating Measures	Notice of Completion to Review Agencies and Public	Monitor for Environmental Provisions and Commitments
	Evaluate Alternative Solutions: Identify Recommended Solutions	Evaluate Alternative Designs: Identify Recommended Solutions	Copy of Notice of Completion to MECP-EA Branch	2022 - 2027
	Consult Review Agencies and Public: RE: Problem or Opportunity and Alternative Solutions (PIC No. 3)	Consult Review Agencies and Previously Interested and Directly Affected Public. (PIC No. 4)	Opportunity to Request Minister Within 30 Days of Notification to Request and Order	
	Validate & Select Preferred Solution	We are here!	Spring 2022	
		Select Preferred Design		
		Preliminary Finalization of Preferred Design		

1 – Problem / Opportunity

- Study need and objectives confirmed
- Wastewater servicing boundary defined for existing and new Wastewater Treatment Plant (WWTP)
- General new WWTP siting area selected
- Baseline study area investigations completed
- Presented at PIC No.1 on May 29, 2019

2 – Develop Long List of Alternatives

- Study area reviewed for suitable WWTP sites and plant outfall receiving waterbodies
- Long list of alternatives selected:
 - ❖ 10 WWTP sites
 - ❖ 4 outfall locations
- Additional site and outfall investigations completed
- Conceptual review of wastewater servicing routes to all long list alternatives
- Evaluation of long list alternatives completed to select short list
- Presented at PIC No.2 on Nov 20, 2019

3 – Screening Short List of Alternatives

- Short list of alternatives selected:
 - ❖ 4 WWTP sites
 - ❖ 2 outfall locations
- Confirmed future storage needs for local Sewage Pumping Stations (SPS):
 - ❖ 1 new Thorold SPS (Black Horse)
 - ❖ 3 or 4 SPSs have opportunity to decommission
- Additional site and outfall investigations completed to support selection of the preliminary preferred solution
- Presented at PIC No.2 on Nov 20, 2019

4 – Preliminary Preferred Solution

- Preliminary preferred solution selected:
 - ❖ 1 WWTP site (Option #8)
 - ❖ 1 outfall location at Welland River East (Chippawa Creek)
 - ❖ Conceptual trunk sewer from High Lift SPS to WWTP site
 - ❖ Conceptual Thorold South servicing alignment selected
 - ❖ 1 new Thorold SPS site selected
- WWTP site boundary includes 6811 and 7047 Reixinger Road pending further investigations and siting evaluation
- Outfall location boundary refined following assimilative capacity study (water quality investigation) results
- Presented at PIC No.3 on Mar 11, 2020

South Niagara Falls Wastewater Solutions

Municipal Schedule 'C' Class Environmental Assessment



Phase 2 Class EA Validation Process

4 – Preliminary Preferred Solution

Same step as previous

- Preliminary preferred solution selected:
 - ❖ 1 WWTP site (Option #8)
 - ❖ 1 outfall location at Welland River East (Chippawa Creek)
 - ❖ Conceptual trunk sewer from High Lift SPS to WWTP site
 - ❖ Conceptual Thorold South servicing alignment selected
 - ❖ 1 new Thorold SPS site selected
- WWTP site boundary includes 6811 and 7047 Reixinger Road pending further investigations and siting evaluation
- Outfall location boundary refined following assimilative capacity study (water quality investigation) results
- Presented at PIC No.3 on Mar 11, 2020

5 – Development of Alternative Alignments

- Detailed Thorold South alignment investigations completed to validate the preliminary preferred solution
- New information for PIC No.4

6 – Detailed Evaluation of Alternative Alignments

- Secondary evaluation completed to capture new environmental, social/cultural, technical, legal, and financial considerations following detailed investigations
- WWTP Site #8 alternative layouts explored on 6811 and 7047 Reixinger Road
- Outfall to Chippawa Creek confirmed
- New Montrose Road trunk sewer alignment selected
- New Black Horse SPS site confirmed
- New Thorold South sewer alignment selected
- New information for PIC No.4

Screened out alternatives shown in red

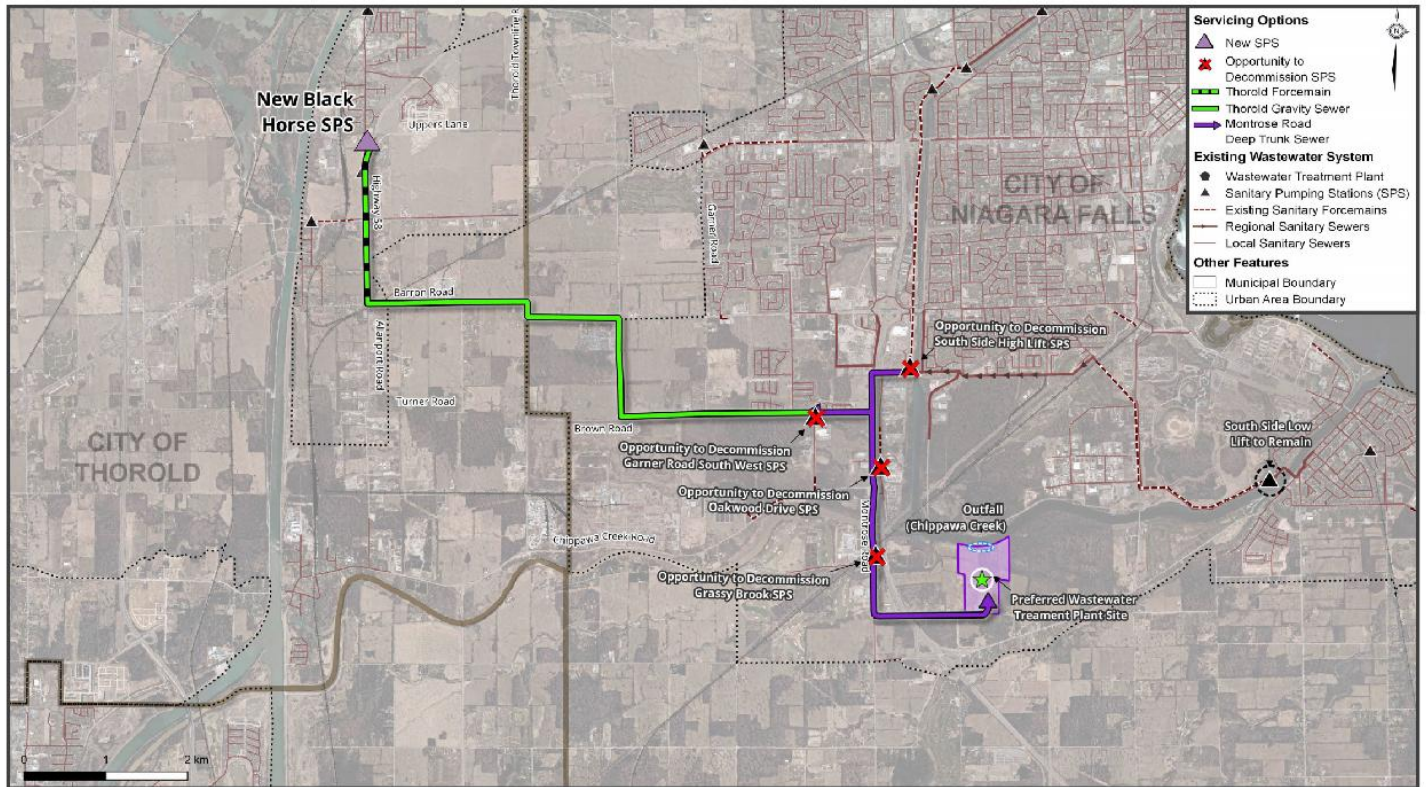
7 – Validated Preferred Solution

- Preferred solution validated
 - ❖ WWTP site refined to only include 6811 Reixinger Road, Niagara Falls ON
 - ❖ Outfall to Chippawa Creek confirmed
 - ❖ Trunk sewer alignment refined to Montrose Road
 - ❖ New Black Horse SPS site confirmed
- New sewer servicing provides opportunities to decommission the following SPSs:
 - ❖ High Lift SPS
 - ❖ Garner Road SPS
 - ❖ Oakwood Drive SPS
 - ❖ Grassy Brook SPS
- New information for PIC No.4

South Niagara Falls Wastewater Solutions

Municipal Schedule 'C' Class Environmental Assessment





Wastewater Treatment Plant and Plant Outfall Location



Preferred WWTP Site Rationale:

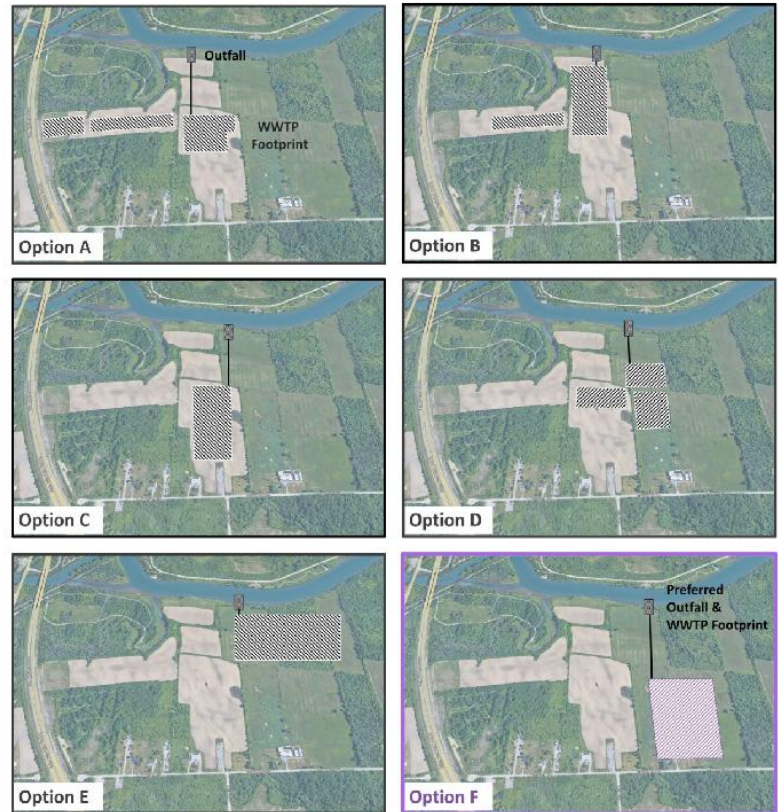
- In the heart of the future growth areas
- Strategic location to maximize gravity servicing to the new WWTP – cost effective collection system strategy
- Expansion flexibility, supports 2051 and beyond growth areas
- Supportive location with MECP for outfall discharge to Chippawa Creek
- Sufficient site area to work within environmental and archaeological constraints
- Manageable property costs
- Site location and sewer alignment provides for:
 - SPS decommissioning and reduced long term operating costs
 - Significant wet weather overflow reductions

Phase 3 WWTP Site & Outfall Investigations

The following WWTP site and outfall investigations were completed to support the evaluation of alternative design concepts:

WWTP Site & Outfall Investigations	Purpose	Report(s)
Natural Environment	• Avoid/minimize impacts to sensitive features (i.e., provincially significant wetlands, protect woodlots, etc.) during site and outfall construction	• Impact Assessment
Environmental Site Assessment (ESA)	• Avoid known sources of soil or groundwater contamination	• Phase 1 ESA • Phase 2 ESA
Archaeological Assessment (AA)	• Avoid/mitigate on-land or in-water findings or impacts during site and outfall construction	• Stage 1 AA (land & water) • Stage 2 AA (completed on 7047 Reixinger Road and portions of 6811 Reixinger Road)
Cultural Heritage	• Confirm significance of site features to remove/mitigate impact	• Impact Assessment • Assessment Report • Evaluation Report
Assimilative Capacity Study	• Confirm treatment needs to meet all regulatory standards and requirements	• Impact Assessment
Air, Odour, and Noise	• Confirm sensitive receptors to avoid/mitigate impacts to surrounding environments	• Impact Assessment
Agricultural	• Confirm existing and future land use to remove/mitigate potential agricultural impact	• Screening Assessment
Geotechnical & Hydrogeological	• Confirm solution meets technical needs through subsurface (soil, bedrock, and groundwater) investigations	• Preliminary Assessment

- Alternative layouts were considered within the preferred site (6811 & 7047 Reixinger Road)
- Options A-F show conceptual WWTP facility footprints and related outfall alignments
- Key siting considerations include:
 - Ministry setbacks/guidelines
 - Environmental features
 - Air, odour, noise impacts
 - Archaeological potential
 - Cultural heritage significance
 - Site access for operations and maintenance
 - Future flexibility for expansion and technology needs



WWTP & Outfall Evaluation

Preferability



Option A	Option B	Option C	Option D	Option E	Option F
<ul style="list-style-type: none"> Requires additional investigations and significant resources to clear known archaeological sites (financial and schedule implications) Does not meet Ministry approval setbacks from sensitive environmental features Good distance and screening from existing residential with low potential for air, odour, and noise impacts (natural buffers) No anticipated impacts from cultural heritage or contaminated soils Less efficient site layout with limited flexibility for future expansion Requires new access road adjacent to the QEW 	<ul style="list-style-type: none"> Requires additional investigations and significant resources to clear known archaeological sites (financial and schedule implications) Does not meet Ministry approval setbacks from sensitive environmental features Good distance and screening from existing residential with low potential for air, odour, and noise impacts (natural buffers) No anticipated impacts from cultural heritage or contaminated soils Less efficient site layout with limited flexibility for future expansion 	<ul style="list-style-type: none"> No anticipated archaeological impacts based on previously completed Stage 2 Assessment Closest alternative to existing residential from air, odour, and noise perspective (potential conflict with Ministry setbacks) Strategy requires purchasing multiple Reixinger fronting properties to meet Ministry setback guidelines and provide sufficient site access for plant operations No anticipated impacts from cultural heritage or contaminated soils Less efficient site layout with limited flexibility for future expansion 	<ul style="list-style-type: none"> Requires additional investigations to clear known archaeological sites in northern extent Land surrounding WWTP footprint is limited by sensitive environmental and known archaeological findings (potential conflict with Ministry setbacks) Good distance from existing residential with low potential for air, odour, and noise impacts (natural buffers) No anticipated impacts from cultural heritage or contaminated soils Strategy requires the purchase of two (2) properties for siting needs Requires the purchase of both properties now to secure land for future expansion 	<ul style="list-style-type: none"> Requires additional investigations and significant resources to clear known archaeological sites (financial and schedule implications) Requires removal of significant wooded area and increases impact to surrounding environment Furthest removed from existing residential with low potential for air, odour, and noise impacts No anticipated impacts from cultural heritage or contaminated soils Would still need additional property for flexibility of future expansion 	<ul style="list-style-type: none"> Select areas require additional investigations to clear archaeological potential No anticipated impacts to sensitive environmental features Good distance from existing residential with low potential for air, odour, and noise impacts (natural buffers) No anticipated impacts from cultural heritage or contaminated soils Requires removal of one (1) residential house and barn Provides direct sewer connection and site access for maintenance and operations from Reixinger Road Strategy requires the purchase of one (1) property only for current and future siting needs Provides greatest flexibility for future expansion
Least Preferred	Least Preferred	Less Preferred	Less Preferred	Less Preferred	Preferred

➤ Refined WWTP Property Needs:

- Requires one (1) property acquisition (6811 Reixinger Road, Niagara Falls, ON)
- Site supports Phase 1 (30 MLD) WWTP and provides flexibility for future expansion

➤ WWTP Footprint:

- Avoids sensitive environmental features & setbacks
- Distanced from existing residential to mitigate potential air, odour, & noise impacts
- Cultural heritage potential removed through site investigations
- Removed from known archaeological sites. Prior to construction, further investigations will be required to confirm potential mitigation
- Provides direct access from Reixinger Road

➤ Outfall:

- Receiving waterbody (Chippawa Creek) meets Ministry approval requirements
- Alignment requires river edge work for installation and isolated environmental considerations
- Additional archaeological work will be required for the outfall corridor



Refined WWTP Site Boundary

Wastewater Treatment Process

TYPICAL WASTEWATER TREATMENT IN NIAGARA REGION



1. Wastewater from our sinks, tubs and toilets drains through sewers to a wastewater treatment plant.
2. Screens remove materials such as branches, plastics, rags and other untreatable debris.
3. The wastewater flows into clarifiers, which allow remaining solids to settle or float to the surface over several hours.
4. These solids are pumped to a set of digesters where they are further broken down before being sent to a biosolids storage facility for fertilizer production. Bio-gas is produced during the digestion process and used within the plant.
5. Liquid wastewater flows from the clarifiers into aeration tanks where air is added and bacteria "eat" any dissolved solids.
6. Ferric chloride is added to remove phosphorus from the wastewater. Too much phosphorus can promote algae growth in our lakes and rivers.
7. The wastewater is sent to the final clarifiers where the wastewater and bacteria-mixture separates.
8. Chlorine is added to disinfect the wastewater, killing bacteria and viruses. The chlorine is removed before being safely returned to the nearest lake or river.

Preliminary Treatment

Mechanical screens and vortex grit removal remove larger debris from the wastewater

Primary Treatment

Conventional primary clarifier with separate waste activated sludge thickening

Solids Treatment

Separate thickening of solids to remove some water prior to being broken down in anaerobic digesters

Secondary Treatment




Conventional activated sludge (CAS) process with aeration tanks and secondary clarifiers

Disinfection

Chlorination to remove pathogens and dechlorination to remove residual chlorine before the clean water is discharged to the river

TECHNOLOGIES WERE REVIEWED AND RECOMMENDATIONS WERE MADE FOR EACH PROCESS COMPONENT

Three (3) key treatment technologies were evaluated for the new WWTP. These alternatives all meet wastewater treatment requirements but have varied infrastructure needs, costs, and future flexibility.

Option 1 Biological Aerated Filter (BAF)	Option 2 Biological Nutrient Removal (BNR)	Option 3 Conventional Activated Sludge (CAS)
<ul style="list-style-type: none"> Process eliminates the need for secondary clarifiers Requires additional areas for effluent storage and backwash water storage tanks To meet Phase 1 WWTP capacity of 30 MLD (and future effluent quality requirements), the following components are required: <ul style="list-style-type: none"> Construct BAF tanks Install primary effluent pumps Install screens upstream of the BAF tanks Install secondary effluent/backwash water storage tank and backwash pumps 	<ul style="list-style-type: none"> To meet Phase 1 WWTP capacity of 30 MLD (and future effluent quality requirements), the following components are required: <ul style="list-style-type: none"> Construct two (2) plug flow bioreactors. Each baffled into three (3) separate zones: anaerobic, anoxic and aerobic Add recycle pumps within the bioreactors to allow for internal mixed recycling Construct two (2) secondary clarifiers, complete with waste activated sludge (WAS) and return activated sludge (RAS) pumping BNR technology will require significantly more infrastructure construction (e.g., creation of anaerobic/anoxic selector zones) and larger bioreactor volume, compared to CAS (Option 3). 	<ul style="list-style-type: none"> To meet Phase 1 WWTP capacity of 30 MLD (and future effluent quality requirements), the following components are required: <ul style="list-style-type: none"> Construct two (2) plug flow aeration tanks Aeration tanks will be up to 6m deep depending on geotechnical conditions Construct two (2) secondary clarifiers, complete with WAS and RAS pumping <p>Key Benefits:</p> <ul style="list-style-type: none"> Proven technology Lowest overall life-cycle cost Easy operation and maintenance Familiar to Region staff Ability to incorporate new technologies in the future
<p style="text-align: center;">Less Preferred</p> 	<p style="text-align: center;">Less Preferred</p> 	<p style="text-align: center;">Preferred</p> 

WWTP Design & Mitigation Considerations

Key Design Considerations:

1. Odour Control
2. Aesthetics
3. Energy Recovery Potential
4. Future flexibility
5. Traffic Impact

Rendering of the new WWTP from Reixinger Road (north-east facing).



Preferred WWTP Layout (6811 Reixinger Road)

Odour Control:

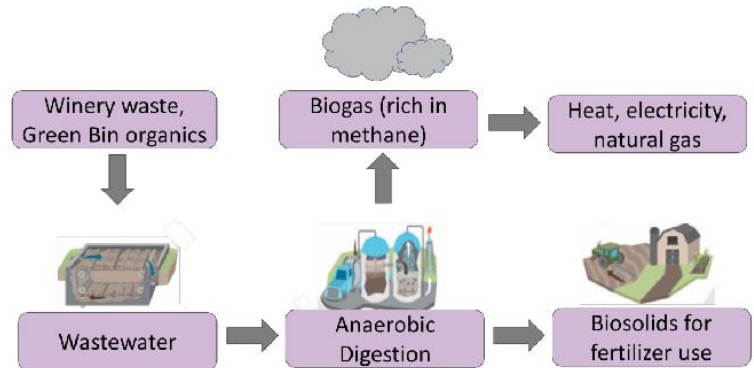
- Leverage the right equipment for odour management
- Ensure odours generated are collected and treated



Example Odour Control Facility

Energy Recovery Potential:

- Anaerobic digesters sized for future energy recovery opportunities
- Potential to accept winery waste or green bin organics in the future and leverage these materials to generate additional energy



Most Developed Technology Available:

Conventional Activated Sludge Technology

- Proven, reliable high level of treatment to meet and exceed effluent quality requirements
- Provides greatest flexibility to implement future enhancements for energy reduction and intensification



Example Conventional activated sludge aeration tanks

Hydraulics Optimized for the Future:

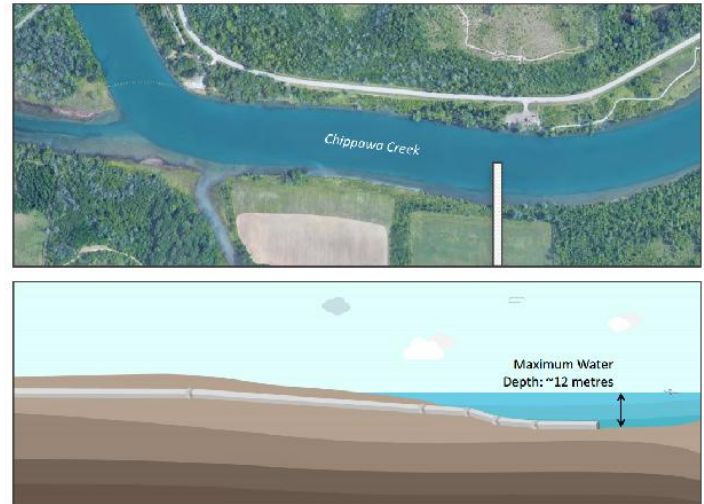
- Eliminates the need for future pumping to accommodate enhanced treatment technologies
- Improves resiliency and minimizes energy costs associated with additional pumping



Preferred Outfall Location:

- Proposed construction methodology
 - Mainly on-land construction
 - Outfall will sink to Chippawa Creek bottom
 - Minor in-water construction process (~2 days)
- Plant discharge meets MECP regulatory water quality standards and approvals
- No anticipated long-term impacts to recreational water users or aquatic life (no surface level infrastructure)
- No potential impact to marine archaeology discovered during investigations
- Associated on-land construction area may require further archaeological investigations
- Alignment will minimize impact to natural environment features

Conceptual Outfall Profile



Assimilative Capacity Study Recap

What is an Assimilative Capacity Study (ACS)?

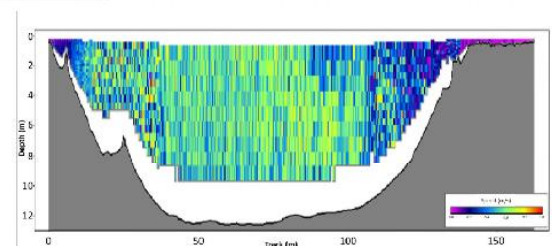
- Defines a waterbody's ability to receive treated wastewater without negatively impacting aquatic or human life

What were the results?

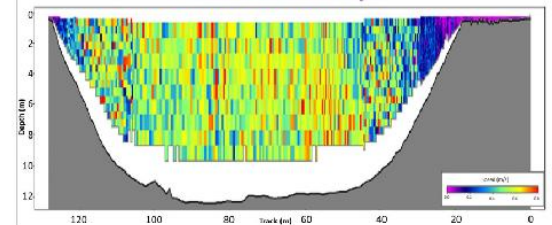
- Recommended treated water criteria were agreed to with MECP. Niagara Region will monitor water quality to ensure no negative effects to aquatic or human life

Parameters	Effluent Objectives (mg/L) ⁽¹⁾	Effluent Limits (mg/L) ⁽¹⁾
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	15	25
Total Suspended Solids (TSS)	15	25
Total Phosphorus (TP)	0.5	0.75
Total Ammonia Nitrogen (TAN)		
May to October	6.5	8.8
November to April	12.0	15.0
E. Coli (CFU/ 100 mL) ⁽²⁾	200	200

Notes:
1. Based on monthly average concentrations.
2. Based on monthly geometric means.



Welland River East (Chippawa Creek) Water Profile Example



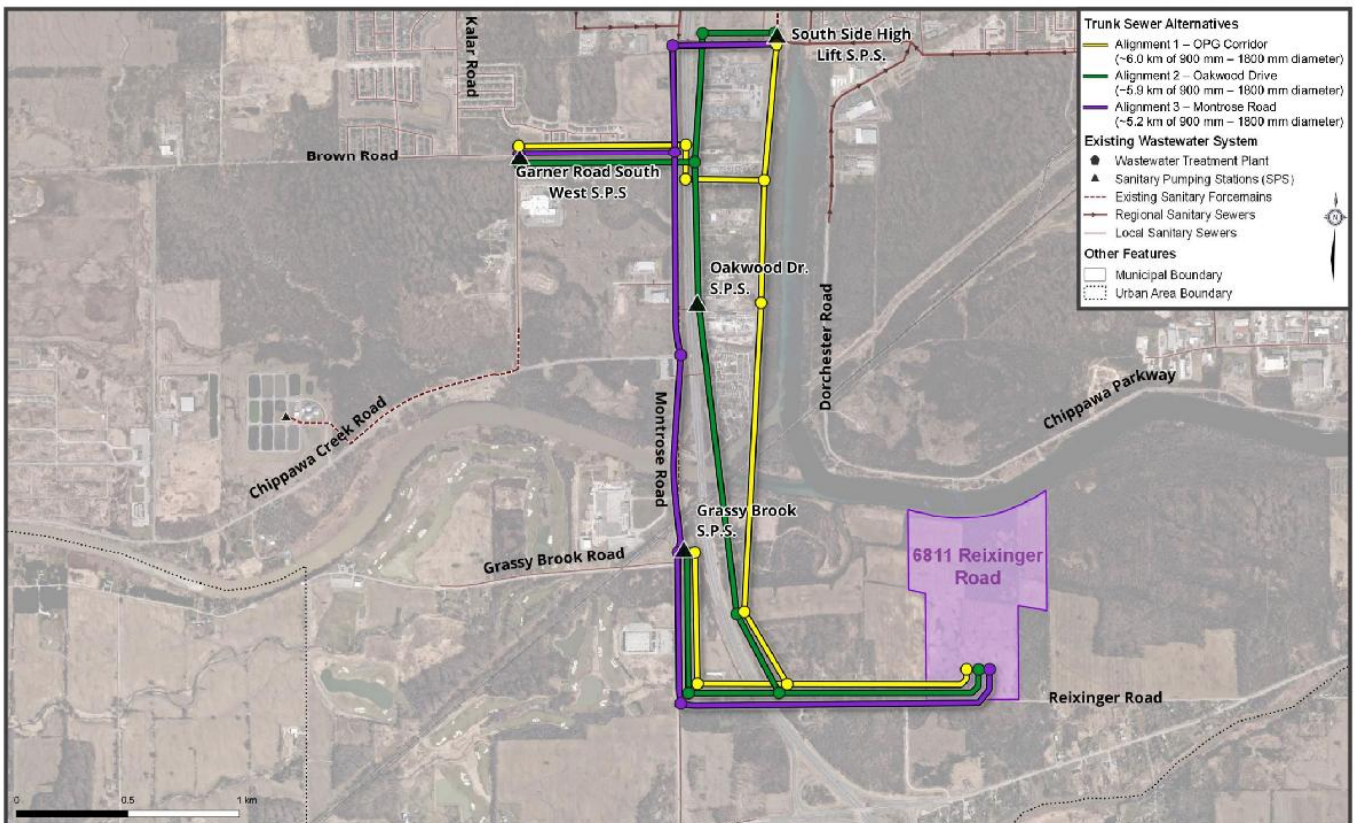
Wastewater Collection System – Trunk Sewer



South Niagara Falls Wastewater Solutions
Municipal Schedule 'C' Class Environmental Assessment



Trunk Sewer Alternatives

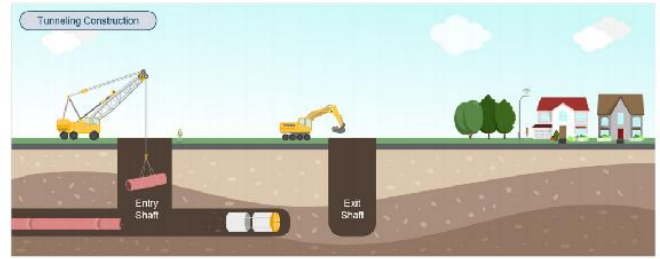


South Niagara Falls Wastewater Solutions
Municipal Schedule 'C' Class Environmental Assessment



The following trunk sewer investigations and/or reports were completed to support the evaluation of alternative design concepts:

Trunk Sewer Investigations	Purpose	Report(s)
Natural Environment	<ul style="list-style-type: none"> Avoid/minimize impacts to sensitive features (i.e., wetlands, protect woodlots, etc.) at shaft locations and during construction Mitigate impact at Welland River crossing 	<ul style="list-style-type: none"> Impact Assessment
Environmental Site Assessment (ESA)	<ul style="list-style-type: none"> Avoid known sources of contamination (soil or groundwater) 	<ul style="list-style-type: none"> Phase 1 ESA Phase 2 ESA
Archaeological Assessment (AA)	<ul style="list-style-type: none"> Avoid/mitigate on-land impacts at shaft locations or along alignment 	<ul style="list-style-type: none"> Stage 1 AA (on-land)
Cultural Heritage	<ul style="list-style-type: none"> Confirm any significance at shaft locations or along trunk sewer alignment to remove/mitigate impact 	<ul style="list-style-type: none"> Impact Assessment Assessment Report
Geotechnical & Hydrogeological	<ul style="list-style-type: none"> Confirm solution meets technical needs through subsurface (soil, bedrock, and groundwater) investigations 	<ul style="list-style-type: none"> Preliminary Assessment



Proposed construction methods will consider minimized socio-economic impacts with tunnelled solutions.

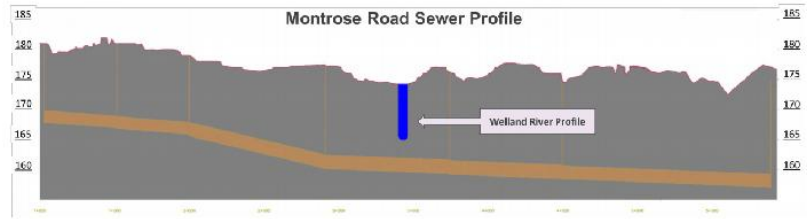
Trunk Sewer Evaluation

Preferability

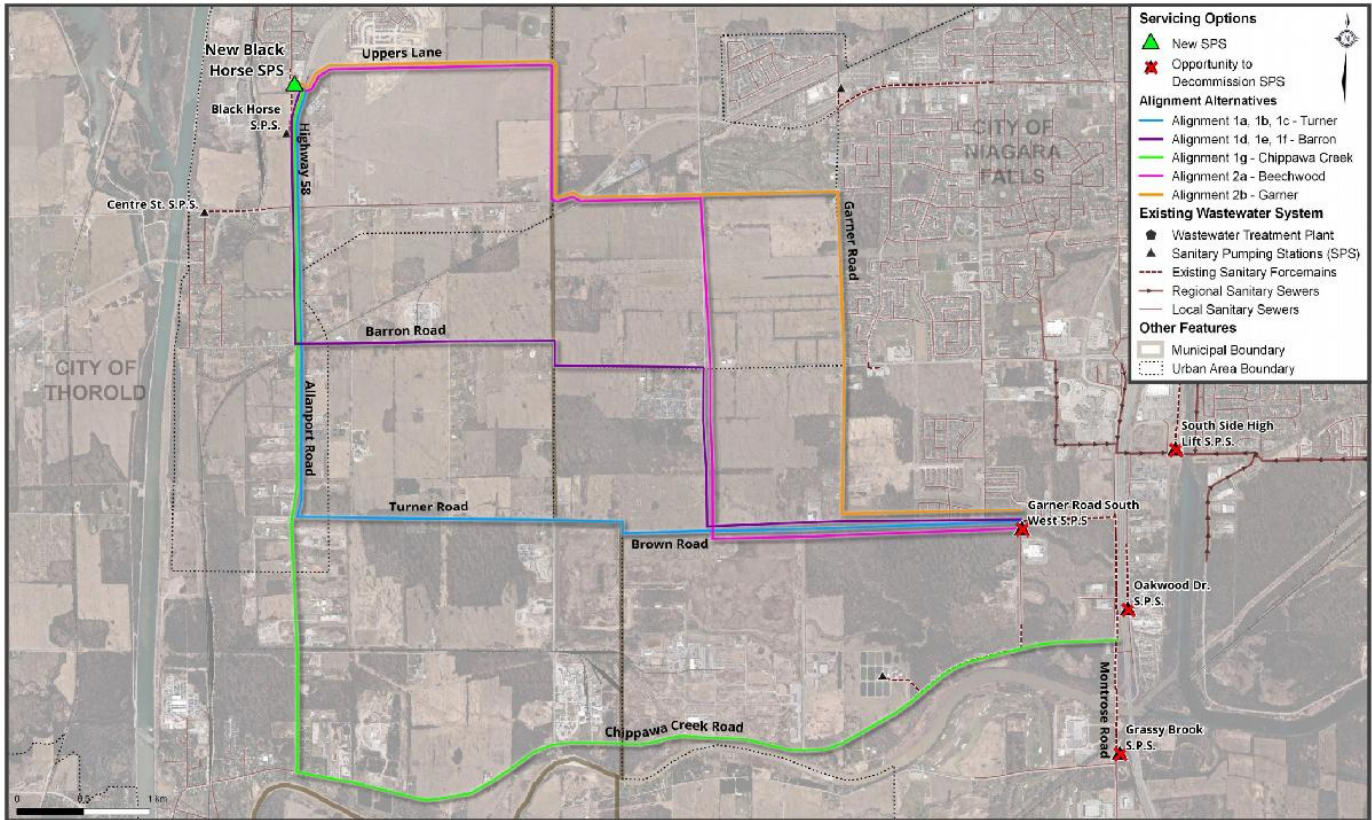


Option – OPG Corridor	Option 2 – Oakwood Drive	Option 3 – Montrose Road
<ul style="list-style-type: none"> Increased environmental impact with proximity to Hydro Canal (north alignment) and construction through Grassy Brook Park (south alignment) Requires significant water crossing of the Welland River and rail line to reach WWTP site Construction minimized within road right-of-way (ROW) reducing traffic impacts and local disruption Sewer length: ~6.0km of 900mm dia. to 1800mm dia. tunnelled sewer (longest alternative) Shaft locations: 11 - 12 Total (including inlet Pumping Station) Preliminary cost estimates (consistent for all alternatives): Each shaft ranges from \$10,000 - 12,000/m and tunnelled sewers from \$7,000 - \$11,000/m No conflicts with Ministry of Transportation Ontario (MTO) setbacks Minimal conflicts with existing utilities Most expensive alternative 	<ul style="list-style-type: none"> Moderate environmental impact with south crossing of Grassy Brook Park to reach WWTP site. North alignments have minimal impact within road ROW Requires local road closure of Oakwood Drive for construction Sewer length: ~5.9km of 900mm dia. to 1800mm dia. tunnelled sewer Shaft locations: 9 - 10 Total (including inlet PS) Potential conflicts with overhead hydro and existing utilities along Oakwood Drive Significant section of Oakwood Drive encroaches with MTO's required setback Crossing near Oakwood Drive and new bridge structure – outside of MTO's preferred 14m setback from property line Additional sewer along Montrose from Grassy Brook SPS is required to service future growth and hospital needs Second-most expensive alternative 	<ul style="list-style-type: none"> Majority of alignment will be constructed within existing Road ROW limiting the need to purchase additional properties Traffic control will be required along Montrose Road (more businesses and traffic compared to Oakwood Drive) No conflict with MTO Sewer length: ~5.2 km of 900mm dia. to 1800mm dia. tunnelled sewer (shortest alternative) Shaft locations: 8 - 9 Total (including inlet PS) Welland River crossing drives depth at Reixinger with opportunity to provide gravity sewer solution ROW has conflicting underground and overhead utilities that requires more coordination with stakeholders Provides deep connections at Chippawa Creek Road and Blackburn Parkway to accommodate future growth Least expensive alternative
<p>Least Preferred</p>	<p>Less Preferred</p>	<p>Preferred</p>

- Sewer alignments within road right of way
 - Temporary road closures:
 - Brown Road and Montrose Road
 - Reixinger Road and Montrose Road
- 7 Shaft locations required (+1 inlet at WWTP site)
 - Sewer diameters: 900-1800mm
 - Sewer lengths: 470-1370m
 - Shaft depths: 10-18m
- Construction Methodology
 - Tunnelled sewer (incl. under Welland River)
 - Minimize surface level impacts
 - Construction activities focused to shaft locations only



Wastewater Collection System – Thorold Servicing Strategy



Servicing Options

- New SPS
- Opportunity to Decommission SPS

Alignment Alternatives

- Alignment 1a, 1b, 1c - Turner
- Alignment 1d, 1e, 1f - Barron
- Alignment 1g - Chippawa Creek
- Alignment 2a - Beechwood
- Alignment 2b - Garner

Existing Wastewater System

- Wastewater Treatment Plant
- Sanitary Pumping Stations (SPS)
- Existing Sanitary Forcemains
- Regional Sanitary Sewers
- Local Sanitary Sewers

Other Features

- Municipal Boundary
- Urban Area Boundary

Thorold South Servicing Considerations

The following Thorold South investigations and/or reports were completed to support the evaluation of alternative design concepts:

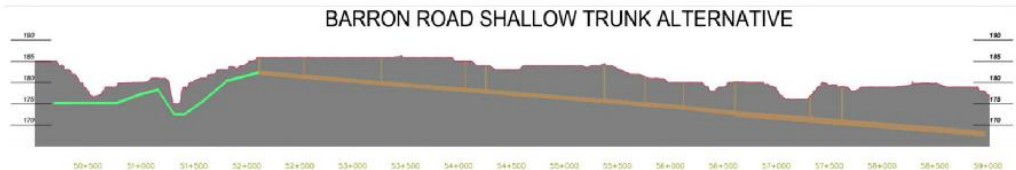
Thorold South Servicing Investigations	Purpose	Report(s)
Natural Environment	<ul style="list-style-type: none"> Avoid/mitigate impacts to sensitive features (i.e., significant wetlands, protect woodlands, etc.) at new SPS site, shaft locations and sewer alignments (outside of road right of way) 	<ul style="list-style-type: none"> Impact Assessment
Environmental Site Assessment (ESA)	<ul style="list-style-type: none"> Ability to avoid sources of contamination (soil or groundwater) if identified at new SPS site or outside road ROW 	<ul style="list-style-type: none"> Phase 1 ESA
Archaeological Assessment (AA)	<ul style="list-style-type: none"> Avoid/mitigate on-land impacts if identified at new SPS site or outside road ROW 	<ul style="list-style-type: none"> Stage 1 AA Stage 2 AA (new SPS site only)
Cultural Heritage	<ul style="list-style-type: none"> Confirm any significance along sewer alignment to remove/mitigate impact 	<ul style="list-style-type: none"> Impact Assessment Assessment Report
Geotechnical & Hydrogeological	<ul style="list-style-type: none"> Ensure sewer solution meets technical constructability needs (tunnelled or open-cut alternatives) through subsurface (soil, bedrock and groundwater) investigations 	<ul style="list-style-type: none"> Preliminary Assessment
Flow & Growth Projections	<ul style="list-style-type: none"> Confirm strategy with Cities of Niagara Falls and Thorold to support future anticipated servicing needs Resilience to changing environment 	<ul style="list-style-type: none"> Technical Memorandums Baseline Assessment



Option 1A/B/C Turner Road	Option 1D/E/F Barron Road	Option 1G Chippawa Creek Road	Option 2A Beechwood	Option 2B Garner
<p>Pros:</p> <ul style="list-style-type: none"> Supports servicing existing and future land use south of Lundy's Lane Brown Road alignment supports future servicing areas in Niagara Falls <p>Cons:</p> <ul style="list-style-type: none"> Most significant impact to environmental features (Provincially Significant Wetland and additional creek crossings) Alternative requires additional environmental approvals. If approved, would require significant mitigation on Turner Road Additional easement and forcemain costs Requires Highway 58 servicing easement Requires longer alignment and longer deep trunk on Turner Road 	<p>Pros:</p> <ul style="list-style-type: none"> No major environmental impact Avoids wetland approval requirements Facilitates servicing of existing and future land use south of Lundy's Lane Brown Road alignment supports future servicing areas in Niagara Falls Deep sewer along Barron Road supports future servicing <p>Cons:</p> <ul style="list-style-type: none"> Shallow Barron Road sewer reduces gravity servicing of Allanport South area Additional easement costs Requires Highway 58 servicing easement Forcemain requires air release and drain Requires longer alignment and longer deep trunk on Turner Road 	<p>Pros:</p> <ul style="list-style-type: none"> Supports servicing existing and future land use south of Lundy's Lane and near Port Robinson <p>Cons:</p> <ul style="list-style-type: none"> Potential environmental impact with proximity to Welland River Chippawa Creek Road provides minimal servicing benefits to Niagara Falls areas Requires Highway 58 servicing easement Forcemain will require air release and drain Additional easement costs Requires longer alignment and longer trunk on Chippawa Creek Road (increased risk of dewatering) Higher costs 	<p>Pros:</p> <ul style="list-style-type: none"> No major environmental impact Beechwood alignment facilitates future servicing for areas of Niagara Falls Brown Road alignment and depth supports future servicing for south limits of Thorold South Alignment is mostly greenfield and rural road construction Direct and shorter alignment route <p>Cons:</p> <ul style="list-style-type: none"> Does not benefit servicing Allanport Road area in Thorold South Requires coordination of Uppers Lane alignment and Lundy Lane crossing 	<p>Pros:</p> <ul style="list-style-type: none"> No major environmental impact Garner Road alignment supports future Niagara Falls servicing Alignment is mostly greenfield and rural road construction Direct and shorter alignment route <p>Cons:</p> <ul style="list-style-type: none"> Does not benefit servicing Allanport Road area in Thorold South Requires construction along recently serviced and paved Garner Road Infrastructure and urban conflicts present on Garner Road Brown Road alignment is less supportive for future servicing Requires advanced coordination for Uppers Lane alignment and Lundy Lane crossing
<p>Least Preferred</p>	<p>Preferred</p>	<p>Least Preferred</p>	<p>Less Preferred</p>	<p>Less Preferred</p>

Preferred Thorold South Servicing

- Servicing alignment supports future growth areas in Cities of Niagara Falls and Thorold
- New Black Horse SPS site selected at 701 Allanburg Road, Thorold (south of existing fire station)
- Alignment anticipated within Road right-of-way (with exception of Allanport Road north of Hwy 20 which has MTO ownership)
- Infrastructure will mainly be constructed by open-cut. Trenchless construction will be considered for crossings (watercourse and utilities) and due to depths along Brown Road near Montrose Road
- Traffic impacts can be minimized through construction practices



Project Components	Revised Estimates
South Niagara Falls Wastewater Treatment Plant	\$247.66 million
New South-West Trunk Sewer – South Niagara Falls	\$107.82 million
New South-West Trunk Sewer	\$19.61 million
Black Horse Sanitary Pumping Station (SPS)	\$5.91 million
New South Niagara Falls Outfall	\$5.74 million
Black Horse Forcemain	\$3.32 million
Peel Street SPS Upgrades and Forcemain	\$5.92 million
South Side High Lift SPS Decommissioning	\$0.63 million
Garner, Oakwood, Grassy Brook SPS Decommissioning	\$1.14 million
McLeod Road Overflow Diversion	\$1.89 million

\$399.64 million
Total

Approved by Council in September 2021

Cost impacts following Phase 3 investigations:

- Geotechnical conditions (soils) at the WWTP site and along trunk sewer alignment
 - Prevalent across the study area
 - Impacts WWTP foundation – requires piles
 - Impacts trunk sewer tunnelling constructability
- Property Impacts
- Archaeological Impacts

Impacts, Mitigation and Approvals

South Niagara Falls Wastewater Solutions provides recommendations that will:

- Minimize impacts to environmental and archaeological features
- Maximize buffer from existing and future neighbouring properties
- Meet MECP setback requirements
- Optimize Wastewater Treatment Plant with flexibility for future treatment technology, expansions, and changing environment
- Key investigations required for detailed design:
 - Stage 2 Archaeological Assessment (AA) for sewer shaft locations and portions of the Wastewater Treatment Plant site
 - Stage 3 AA for plant outfall construction areas (as required)
 - Natural Environment Monitoring (to reduce potential construction impacts)
 - Advanced Geotechnical and Hydrogeological investigations
 - Traffic Impact Assessment / coordination with Cities of Niagara Falls and Thorold

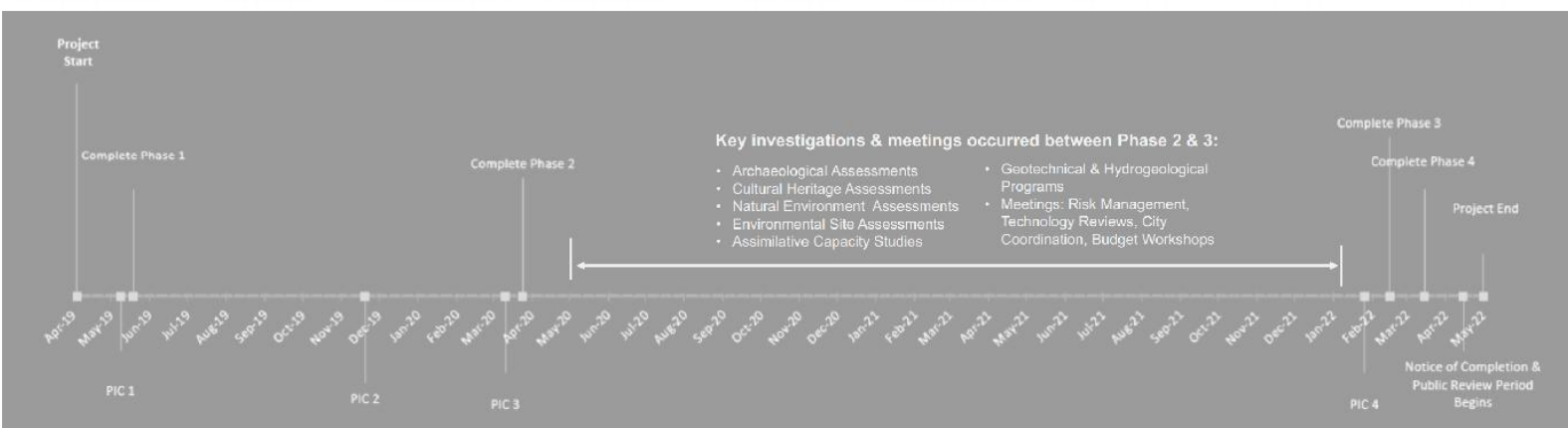
- Program Components:
 - New Wastewater Treatment Plant and outfall,
 - New Montrose Trunk Sewer, and,
 - New Thorold South Servicing.
- Addresses 2041 growth needs plus 2051 growth needs with flexibility for long term capacity requirements.
- Ability to phase in capacity at the WWTP in the future.
- Provides significant environmental benefits through optimizing wet weather management:
 - Captures peak flows and provides conveyance storage,
 - Minimizes overflows and flooding events across the study area, and,
 - Future connectivity and flexibility supports additional servicing and benefits.
- Current infrastructure planning and technology principles help the Region respond to changing regulations and needs.



South Niagara Falls Wastewater Solutions Municipal Schedule 'C' Class Environmental Assessment



Project Timeline and Phase 3 Tasks



- | | | | | |
|--|---|---|--|--|
| <ul style="list-style-type: none"> • Study commencement • Agency & stakeholder pre-consultation workshops • Review of baseline data & information • Define problem & opportunity statement • Public Information Centre No. 1 | <ul style="list-style-type: none"> • Prepare natural, hydrogeological, social, cultural, archaeological & economic inventory • Identify potential impacts and how to address them • Supporting technical analysis and studies • Identify key factors and considerations • Determine detailed criteria for overall strategy • Identify alternative solutions • Public Information Centre No. 2 | <ul style="list-style-type: none"> • Evaluate alternative solutions • Select preliminary preferred plant site • Select preliminary preferred plant outfall location • Select preliminary preferred sewer alignments • Public Information Centre No. 3 | <ul style="list-style-type: none"> • Validate preferred solution • Identify design concept alternatives • Prepare detailed inventory • Identify impacts and how to address them • Select preliminary preferred conceptual design and technologies • Public Information Centre No. 4 | <ul style="list-style-type: none"> • Confirm preferred design concepts and technologies • Finalize Environmental Study Report • Notice of study completion • Finalize conceptual design • File study report • Public review period |
|--|---|---|--|--|

Phase 1



Phase 2



Phase 3



Phase 4



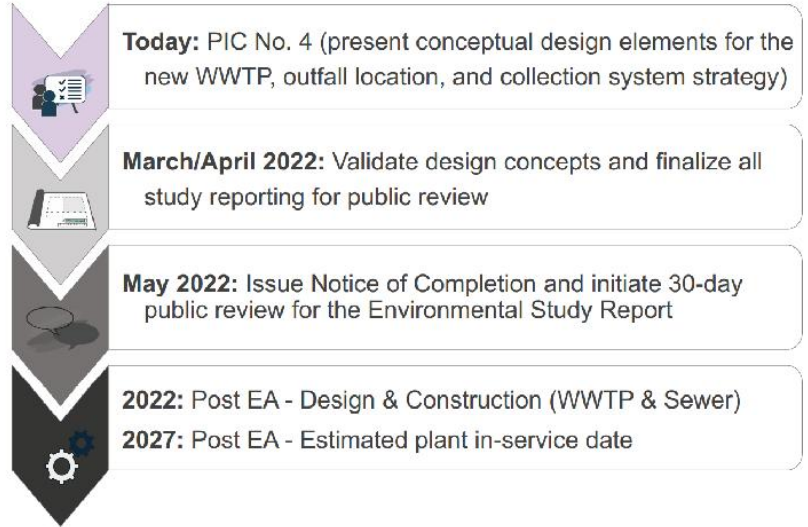
We want to hear from you!

- **Visit our website:**
www.niagararegion.ca/projects/south-niagara-falls-treatment-plant
- **Provide PIC No. 4 feedback** on the website from February 9 to 23, 2022
- **Sign-up to receive study notifications** on the website, including notice of study completion when the final report is available for public review

For any Class EA questions, please contact the Project Manager:

Lisa Vespi, P.Eng., PMP
new.treatment.plant@niagararegion.ca

Next Steps:

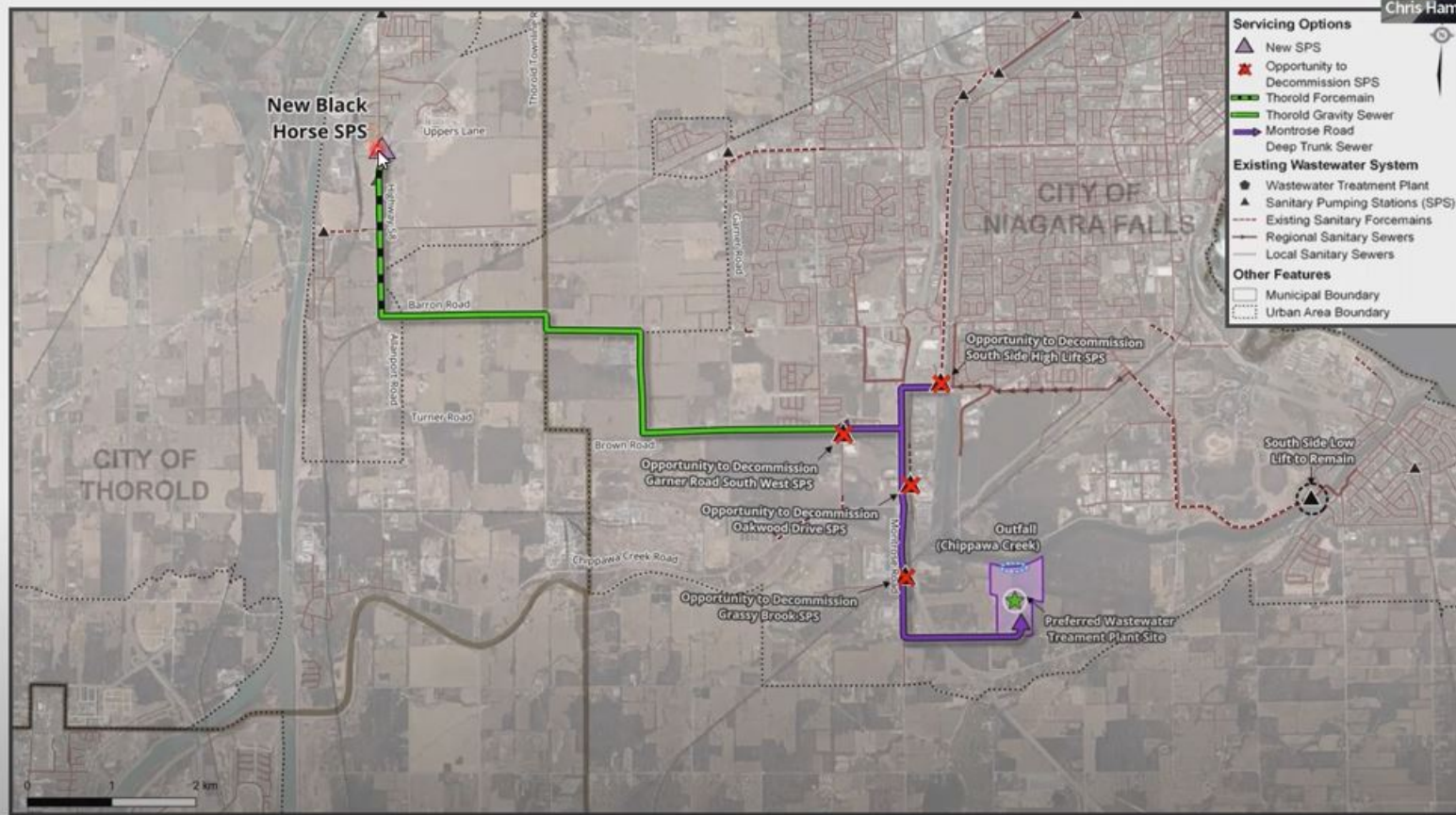


APPENDIX D
LIVE PRESENTATION SUMMARY

Step 7: Validated Phase 2 Class EA Solution



Chris Hamel



17:27 / 1:26:48 **South Niagara Falls Wastewater Solutions** Municipal Schedule 'C' Class Environmental Assessment

CC ⚙️ 📄 📱 📺 🔍

South Niagara Falls Wastewater Solutions Public Information Centre #4 Presentation

Unlisted

35 views • Feb 15, 2022

👍 0 🗑️ DISLIKE ➦ SHARE ✂️ CLIP ⌵ SAVE ...



Niagara Region

SUBSCRIBE

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:00:38 - 00:01:51

A. Montgomery

Welcome as you're joining here. We'll start in about one minute. Just give a couple more moments for people to join on.

00:01:53 - 00:02:14

A. Montgomery

First of all, welcome and thanks to everyone for joining us tonight. We appreciate that you're participating in tonight's PIC number four and this is the fourth public information centre that we have had for the South Niagara Wastewater Solutions Schedule C Class Environmental Assessment Study.

00:02:14 - 00:02:27

A. Montgomery

I'm Andrea Montgomery. I am part of the project team here working with the region and I'm going to be facilitating tonight's session. I just want to first let you know for those of you who just joined on, we are recording tonight's session.

00:02:27 - 00:02:41

A. Montgomery

Just as a reminder to that, we want to make sure it's available later for those who could not attend and be with us tonight. It is recording currently as we speak right now. Tonight's presentation is going to be led by Chris Hamel.

00:02:41 - 00:02:53

A. Montgomery

For those of you who can see a number of people on the screen, these are a number of individuals who are on the project team and they bring different expertise to the table. Chris will be leading the presentation.

00:02:53 - 00:03:11

A. Montgomery

As I mentioned, he is from the engineering firm GM BluePlan. They are the lead consultants for this EA. Lisa Vespi is also here with us and she is from Niagara Region. She's the project lead and she is also the capital projects manager for water and wastewater with the region.

00:03:11 - 00:03:28

A. Montgomery

You'll see the other members. As I mentioned, another person I'd like to just highlight specifically is Troy Briggs. He is a partner with CIMA, and he's a senior director of wastewater and infrastructure.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:03:28 - 00:03:46

A. Montgomery

And he and his team have been quite critical during this whole study process. They have quite a bit of expertise in effective wastewater treatment, best practices, infrastructure, and they've provided quite a bit of analysis and their recommendations as we've gone through this study.

00:03:47 - 00:04:05

A. Montgomery

As a reminder, this is actually going to be the last PIC for this project. The members of the community will have up until February 23rd to provide feedback on what you hear tonight and to provide feedback on the information that's provided on the project web page, which is on the region's website.

00:04:05 - 00:04:21

A. Montgomery

We'll show that [web] address later. Following the PIC, the project team still has a little bit of work to do in order to validate some of the design concepts that you'll hear about tonight, and they will also be finalizing an environmental study report.

00:04:21 - 00:04:40

A. Montgomery

Now, once that report is completed again, that will be made available to the public. Members of the community are welcome to provide feedback and give their input on that report before it is completely finalized. We do look forward to having some more public comment at that time as well, so we certainly invite you to be engaged tonight.

00:04:40 - 00:04:55

A. Montgomery

We hope that you will ask questions and provide any comments. And tonight, we're going to ask you to do that using the Q&A feature, which is at the bottom of your screen. We've disabled the separate chat feature.

00:04:55 - 00:05:05

A. Montgomery

We won't be using the chat and the raise hands feature. That just makes it a little trickier for us to track questions. I would ask you to use the Q&A feature, which is at the bottom with those two little speech bubbles.

00:05:06 - 00:05:21

A. Montgomery

And if you could add your questions there, you can click on that icon. You'll get a little window that pops up and then you can type in your question and we'll be monitoring for that. Please know when you do put in your question, we will be able to see your name, it will be visible to the -

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:05:21 - 00:05:34

A. Montgomery

- panelists. There is an option to be anonymous if that's what you prefer, so you could take a look at that. Chris, Lisa and I will be monitoring for questions. Most of them, we're going to wait till the end of the presentation to answer them.

00:05:35 - 00:05:48

A. Montgomery

However, if it's clear if we're getting some confusion or if we have a moment where we can take a break, then we'll certainly do that at the appropriate time. If you have any technical questions on Zoom while you're going through this again, you can use that that Q&A feature.

00:05:48 - 00:06:04

A. Montgomery

We do have other moderators that will help and be available to respond to you and support you on Zoom. The last thing I want to say is just, as you know, we've been living in this pandemic for a couple of years now, longer than any of us hoped for sure.

00:06:04 - 00:06:22

A. Montgomery

But I do want to pre-emptively ask for your patience assuming if there is a technical glitch that happens as we go through this. We certainly are doing our best. We've prepared so that this PIC goes smoothly. That said, we all know that these things come up and I'm sure we've all experienced that at some point.

00:06:22 - 00:06:34

A. Montgomery

We do ask for your patience if that happens, and we'll certainly work to recover very quickly from that. Thank you again for joining us. I'm going to put it over to Chris. He's going to walk you through how we got to this stage.

00:06:34 - 00:06:48

A. Montgomery

And basically, tonight we're going to talk about three of the core recommendations that are coming through this EA study. One being the preliminary design concepts for the new wastewater treatment plant, some of its features where it's going to be located on the property.

00:06:49 - 00:07:05

A. Montgomery

Secondly, we'll be looking at the preferred location for where the clean treated water will be going into Chippawa Creek, we'll talk about that, and also where the team is recommending that all the sewer lines go that will feed into the wastewater treatment plant.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:07:05 - 00:07:14

A. Montgomery

That's my plain language version of talking about it. Chris will certainly be talking more eloquently about all of those things. Chris, I'll leave that over to you.

00:07:15:23 - 00:07:27

Chris Hamel

Well, that's great, Andrea, thank you very much, and again, Chris Hamel with GM BluePlan, and I appreciate the opportunity to present to everybody, and I'm doing so on behalf of Lisa Vespi and the Niagara Region project team.

00:07:28 – 00:07:44

Chris Hamel

As Andrea mentioned, we are going to cover a lot of information. This has been several years in the process and there's a lot to talk about and I'm going to do my best to cover some slides quickly and spend more time on others that require a little more detail.

00:07:45:11 - 00:08:05

Chris Hamel

Again, it's always important to go right back to the beginning and be aware of the foundation that setup this study and how we started this study. This is a strategy that was supported through the region's Master Planning Council, and the idea of a class environmental assessment is to take a fairly general recommendation that's in the master plan and get into the details.

00:08:06 – 00:08:32

Chris Hamel

As Andrea mentioned, make sure we know exactly where the plant is going, exactly where the pipes are going, have a better understanding of those alignments and ensure that we undertake a detailed class environmental assessment evaluation process that balances multiple factors: natural environment, social, cultural, legal, jurisdictional, technical as well as economic factors as we, we produce our preferred solution.

00:08:33 – 00:08:47

Chris Hamel

Again, just highlighting the PIC number four objectives and reminding everyone that this material is going to be available on the project website with the region. Tonight is the live presentation.

00:08:48 – 00:09:05

Chris Hamel

I think we're all trying to manage in today's pandemic. I know the first few PICs which were in person. I really enjoyed those. We meet a lot of folks from the area, had great discussions done through Facebook Live, which has worked well but now we're in a virtual environment

South Niagara Falls Wastewater Solutions PIC No. 4 – Live Presentation Transcript

00:09:05 – 00:09:15

Chris Hamel

We'll do this as a live presentation for the next hour, but all this material will be posted on the website and as Andrea was mentioning, looking to get comments on what you hear tonight over the next two weeks.

00:09:16 – 00:09:41

Chris Hamel

Those comments are incorporated into the process and the environmental study report. Again, a little more foundation there is no question that the growth plan for Niagara Region and Niagara Falls in particular was one of the primary triggers for this particular project and grouping of solutions. You can see here that at the time of this project starting, we were looking at growth projections out to 2041.

00:09:42 - 00:09:59

Chris Hamel

We've also incorporated our Projections and knowledge of where the region might see themselves in 2051 as we develop our solutions here. Niagara Falls is going to see quite a bit of growth, and a lot of that growth is going to be located in South Niagara Falls, not just south of Lundy's Lane, but also south of that river.

00:09:59:20 - 00:10:21

Chris Hamel

And that really triggered the need to consider a more southern location for the new wastewater treatment plant. We are going to use terms like 30 MLD, 30 megalitres per day, that's the supplementary sizing for the first phase of the treatment plant, and it was the size that was identified to at least the 2041 growth.

00:10:21 - 00:10:42

Chris Hamel

But it's not just about growth. one thing that we're quite proud of under this study is sort of a broader view of what we're trying to achieve for the region and multiple municipalities. While we are looking at long term growth out to 2041, 2051 and beyond, we have to think long term when we talk about such major infrastructure but a big piece was protecting the environment.

00:10:43 – 00:11:04

Chris Hamel

What's interesting with wastewater systems and every system is unique, the way we need to deal with climate change, resiliency. These larger flows that get into our pipes, if the pipes can't handle that level of flow, we do have a need to look at how that gets overflowed into potentially the environment or how it made backup in the basements.

South Niagara Falls Wastewater Solutions PIC No. 4 – Live Presentation Transcript

00:11:04:10 - 00:11:27

Chris Hamel

And this solution is an opportunity to deal with protecting that environment. And we also need to think about the future. When we talk about big, large, significant pieces of infrastructure, they have decades and decades of lifespan. You could almost consider this as 100 years solution. We need to have flexibility to deal with our immediate needs as well as the long term needs out into the future.

00:11:28 – 00:11:46

Chris Hamel

And what we do can see is this is a complicated Project and the program is not just a wastewater treatment plant but it's the collection sewers, it's managing those wet weather flows, it's planning for growth. We need to balance all these commitments and factors as we go through our evaluation process.

00:11:47 – 00:12:10

Chris Hamel

To do the evaluation, we follow the class environmental assessment process. It's a proven approach that's used in Ontario. When you have a project of our complexity, you do all the phases of the EA process, which is Phase 1 identifying the problem the opportunity, Phase 2 looking at alternative solutions.

00:12:11 – 00:12:36

Chris Hamel

And what we're really talking about tonight is Phase 3, where we take that preferred solution and get into the details around alignments, technologies, locations, etc. You can see here for approaching the end of Phase 3, which is our last public meeting. And then from this public meeting, we will then have an environmental study report that will be available for the public review.

00:12:37 – 00:13:03

Chris Hamel

What we wanted to do it this time was just to highlight how we got to Phase 3 and the general solution. So as Andrea mentioned, we did have three previous public meetings. We wanted to make sure we had additional public meetings to bring stakeholders and the public along with the train of thought developments through the study and key options that we were looking at. And this is intended to sort of depict the flow of developing this type of study.

00:13:04 – 00:13:30

Chris Hamel

As you can see from the first step here is the problem and opportunity. We needed to understand where the growth was, where were the wet weather issues in the area, what areas were we going to be supporting. I'll get into a little more detail but with our strategy there is benefit to the same catchment system, and the lake system and Thorold South. We needed to understand our study area as a whole as well as the opportunities for where this infrastructure could be located.

South Niagara Falls Wastewater Solutions PIC No. 4 – Live Presentation Transcript

00:13:31 – 00:13:52

Chris Hamel

From there, we move to a long list of alternatives where we looked at ten different wastewater treatment plant sites. We also looked at four different locations of where that treated wastewater to discharge into the environment. We looked at the Welland River West, Welland River East [here at Chippawa Creek], the [OPG Hydro Electric Power] canal, as well as the Niagara River.

00:13:53 – 00:14:15

Chris Hamel

We needed to look at how will all of these sites and outfall locations play into broader strategies. When considering how the growth area would meet and actually debate flows to each of the sites and whether Pumping would be required, the length of pipes, etc. It was a very complex and more iterative process to do these evaluations.

00:14:16 – 00:14:34

Chris Hamel

What we did is we went from our ten sites down to four sites. You can see here North of the Welland River; on the west side of the QEW we have two sites in that corridor; just east of the QEW here. And then our fourth site south of the river on the East side of the QEW.

00:14:35 – 00:14:54

Chris Hamel

With those four sites, we were primarily looking at a discharge location at either the Chippawa Creek or the Hydro Canal. And then through a detailed evaluation process that again balanced all of those criteria from environmental, social, cultural, legal, technical and environmental. We came to a preliminary preferred solution.

00:14:55 – 00:15:15

Chris Hamel

And this solution is really intending to create a conveyance of major trunk sewer that'll bring wastewater flows to a new wastewater treatment plant site located here just off of Reixinger Road south of the river. And it will also provide an opportunity to pump and convey flows from Thorold South into this system.

00:15:15 – 00:15:34

Chris Hamel

The Red "X" is depicting the opportunity to decommission sewage pumping stations that are in the area. So again, this was the best solution that balanced all of those criteria and really met our goal of achieving the growth capacity as well as managing wet weather flows.

South Niagara Falls Wastewater Solutions PIC No. 4 – Live Presentation Transcript

00:15:35 – 00:16:01

Chris Hamel

And just to stress what this strategy does. As I mentioned right now, all the wastewater flows currently in Niagara Falls pump north to the existing plant. By introducing this trunk sewer we're now able to put all the southern portion of Niagara Falls down this pipe and into this new treatment plant site, which frees up capacity to the North, frees up capacity to support Niagara on the lake and also it deals with those environmental constraints that we see on the existing system.

00:16:02 – 00:16:24

Chris Hamel

And then with servicing Thorold South over to this new plant, it provides us the opportunity to stop pumping some of these areas in Thorold South that currently go north through St Catharine's. They are now able to come south to the new plant, which also frees up capacity in the St. Catharine's system and provides that wet weather management and protection of the environment.

00:16:27 – 00:16:56

Chris Hamel

From that preferred solution we then took the next steps to go into more detail around the treatment plant site itself, as well as the alignments to achieve those sewers. You can see, and I will get into this in more detail for each, there is a number of different alignments to come from the Black Horse pumping station to our system. There were a number of alignments to work through for the major trunk sewer. And there was different siting and layouts to look at in the treatment plant site itself.

00:16:57 – 00:17:13

Chris Hamel

We then went through a detailed evaluation of all those combinations, again using our multiple bottom line evaluation criteria. From all of this work what we're presenting tonight is our preferred solution and preferred design concept, which you see here.

00:17:14 – 00:17:41

Chris Hamel

So again, in a little more detail, a little closer up, so you can actually see it. The strategy will be the Peel Street sewage pumping station will now pump down to a new location for the Black Horse Pumping Station. This will pump along the green alignment, which I'll get into more detail, and be able to connect to the Purple line. This purple line depicts the large trunk sewer, which is a deeper, larger diameter trunk sewer.

00:17:42 – 00:18:00

Chris Hamel

The benefit of that size of trunk sewer is it's going to support capacity and connection for the long term. And it also helps address storage, which allows those wet weather flows to work their way through this pipe. And then ultimately, they will discharge to the new treatment plant site here and to the Chippawa Creek outfall.

South Niagara Falls Wastewater Solutions PIC No. 4 – Live Presentation Transcript

00:18:02 – 00:18:26

Chris Hamel

Our intent tonight is to go through this process in detail and make sure that you have a clearer understanding. And again, as Andrea was highlighting, it's important to understand this has multiple components. I am going to talk to the treatment plant in outfall in detail. I will then talk about the purple component, or the trunk sewer. And then lastly, speak to the Thorold South servicing in the green lines.

00:18:30 – 00:18:47

Chris Hamel

Firstly, the treatment plant and outfall location. As identified, this broader purple area was our preferred site. You can see it initially comprised two different properties: 7047 on Reixinger Road and 6811 Reixinger.

00:18:48 – 00:19:13

Chris Hamel

When we first identified this property itself, we wanted to identify sufficient land to meet the long-term needs. This location in particular was very beneficial because as I was mentioning, it's located in the south limits. It's south of the river, which is very central, where a lot of the growth servicing needs are required. This larger block of land could support different orientations on the sites and would support our long-term capacity.

00:19:14 – 00:19:34

Chris Hamel

And with its location, what we'll be able to do is service future growth without having to continue to pump it north. It also does support decommissioning other pumping stations, which brings a lot of efficiency and reduction of energy and other issues related, so it was a great location to support all of those particular needs.

00:19:35 – 00:19:55

Chris Hamel

You can see here that we're showing sort of a view from across the other side of the river, and we recognize that there is a number of different features within this larger site as a whole. It did provide us opportunity to use some of the natural screening to be cognizant of a lot of the features that were in the site when we started determining how we could orientate our new plans.

00:19:57:00 – 00:19:22

Chris Hamel

To support the further evaluation and to support understanding how we could complete this layout for the new plant we did undertake a number of additional studies and this was particularly important. We needed to have a clear understanding of the natural environment and the impacts that could or might need to be mitigated. The environmental assessment was needed. Archeological was a big piece for this site in particular.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:19:23 – 00:20:40

Chris Hamel

Cultural heritage, so what type of significant features might be on this property or near the property. Assimilative Capacity Study is a very detailed modeling exercise that's done to understand the impact of the clean wastewater and how it impacts the quality of the water of the Chippawa Creek.

00:20:41 – 00:21:01

Chris Hamel

We completed detailed air, odour and noise studies and art and agricultural impact and screening assessment. As well as detailed geotechnical and hydro-geotechnical investigations. We needed to understand the soil conditions to confirm if they were consistent across the site or particular features to be aware of.

00:21:02 - 00:21:28

Chris Hamel

What I can say is this group of reports is quite significant. It's one of the areas that we spent a long time over the last year plus developing, and they will all be available in the public information for review. They're all very Integral in helping us make our decisions. Again, this was the detail we were completing under Phase 3.

00:21:29 – 00:21:52

Chris Hamel

With that larger block of land, it actually provided opportunities in around that 180 or so acres, when really we needed was somewhere between 40 or 60 acres as our preliminary needs for the treatment plant site itself. If there is opportunity to take more land it would provide better flexibility and perhaps give us opportunities to orientate the plants in different ways.

00:21:52 – 00:22:24

Chris Hamel

When we looked at the larger block of land, you can see here, we went through six different options (Options A through F) to see how we could orientate the site: 1) to avoid certain features, 2) to provide screening, 3) we had to think about the technical connectivity to the conveyance system, etc. and also to meet our technical needs around air, odour, noise, how they're screened and the flexibility for future expansion.

00:22:26 – 00:22:41

Chris Hamel

Using all this various multiple bottom-line criterion it came down to the Option F and you can see that on the far right here, this was determined to be the preferred location.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:22:41 – 00:23:14

Chris Hamel

In a simple sense, when we looked at Option A, it was a difficult orientation. It did not bring a lot of efficiency on how we could technically layout the site. It did also have several conflicting features that would require additional cost and additional mitigation. It was unfortunately a problematic layout and site, which was very similar to Option B. Again, made some significant constraints that would make it difficult for us to build under that layout.

00:23:14 – 00:23:31

Chris Hamel

Option C showed some promise. One of the main conflicts with Option C is the inability for longer term expansion, so it does kind of lock us into that location and it's a little bit near to some of the existing properties in that area.

00:23:32 – 00:23:56

Chris Hamel

Option D was developed to try to situate the site a little further north, a little further away from Reixinger. Again, the further north we got it started to conflict with certain features that were going to be difficult to build and difficult to mitigate. Option E while it did avoid some, it did bring into this woodlot environmentally sensitive features that were also a problem.

00:22:57 – 00:24:24

Chris Hamel

With Option F, we got ourselves removed as much possible from a lot of these constraints. It did have continuity and size of land that would work well for the immediate need of the plant, as well as the future expansion. We are working with one property itself and not having much overlap between multiple property owners. It brings a very direct and efficient and cost-effective means of bringing the sewer to the treatment plant site itself.

00:24:26 – 00:24:42

Chris Hamel

In a little more detail, you can see the footprint that we're showing there. I'll get into more detail of the layout because it's a larger enough block of land that will not only support that initial phase of the 30 MLD, but it will support the future flexibility.

00:24:43 – 00:25:01

Chris Hamel

It provides a fairly direct access to our outfall location. What you'll see as we show you more detail, the sewers will be coming along Reixinger into the treatment plant, work its way through the wastewater treatment process, and then through this it will discharge to the outfall location at the Chippawa Creek.

South Niagara Falls Wastewater Solutions PIC No. 4 – Live Presentation Transcript

00:25:02 -00:25:56

Chris Hamel

We did do detail to some of the capacity modeling to demonstrate that that receiving water body will meet the Ministry approval requirements, so we do have support. Again, the river edge work is fairly minimal and is isolated from other environmental considerations. But there is some archeological work that will be required to be cleared prior to finishing the outfall alignment. But with this location, we are able to minimize our impact to sensitive environmental features. We're able to maximize setbacks from existing properties as well as future. And it does work well for air, odour, and noise impacts. And we're able to locate our facilities in a way that mitigates and manages those types of issues that would a lot of people would expect that comes with a new wastewater treatment plant. Again, this work really well as an overall location.

00:25:58 – 00:26:27

Chris Hamel

The next step was to take that location and work through the process itself, how do we orientate all the key elements of wastewater treatment which is the screening, the primary treatment through clarifiers, and then we have the solid treatment, the secondary treatment and ultimately disinfection and dichlorination to make sure we have clean water going into the environment. This is a large process that has a number of different ways of achieving it through different means of technology.

00:26:28 – 00:26:51

Chris Hamel

Very quickly, and I realize this is a lot of information, but this is a very detailed technical review. For us when we work through this there is three primary technologies that we reviewed to consider. What was nice about this particular project, in a way, is that we really have a blank slate. We have the opportunity to choose what we think is best for the Region today and providing flexibility into the future.

00:26:52 – 00:27:12

Chris Hamel

The first option we looked at is biological aerated filter or path. Essentially, what this is a very compact filter system. One issue in a way that we have with this is that it is a proprietary technology, so we don't have as much flexibility with different vendors to support this particular treatment process.

00:27:12:13 - 00:27:40

Chris Hamel

There are a number of these, a handful if you will, across Ontario in operation. But normally what we see is that this is a technology that's typically applied to build retrofits. When you have an existing facility where you're looking to enhance treatment or enhance capacity, and because of its tighter footprint, there is an opportunity to retrofit and bring that on. But in our case, it wasn't necessarily suiting our needs as best as something other, as we get into Option three here.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:27:41 – 00:28:10

Chris Hamel

Under Option two, biological nutrient removal, or BNR. What we have is a process that brings in a larger activated sludge process, so it's 30% bigger. And the intent on being bigger there is essentially you're trying to reduce the chemicals and you're letting the natural process do its work. With the bigger processor, which is about 30% bigger, it comes with higher upfront costs. But it does have some reduction in the chemical costs over time.

00:28:11 – 00:28:26

Chris Hamel

One of our bigger concerns with this particular process was with better tankage you now have more open area to the environment. It's something we needed to be conscious of, particularly as we're managing odours moving forward.

00:28:27 – 00:28:53

Chris Hamel

Where we ended up is our preferred technology for the treatment processes is conventional activated sludge. This is probably the most popular treatment process around the world. Most treatment plants you will see are operating under this process, including the existing wastewater treatment plants across the Region. That provides a great benefit for staff and long-term operations having a similar technology.

00:28:54 – 00:29:29

Chris Hamel

It isn't just about what's in the ground today. What works really well with the conventional activated sludge is because of the proliferation of this technology globally, there's a lot of attention around research, a lot of attention on opportunities for enhancing, bringing other efficiencies. By having this in place today, we will see a lot of opportunity for benefits moving forward as that research, as other improved enhancements and efficiencies come forward. At the same time, it also does bring the lowest overall lifecycle cost to the region.

00:29:32 – 00:30:16

Chris Hamel

So how does that look on the property? As we've described you can see here, again, I have Reixinger Road along the south limits. And this was the property on the right side. What we've tried to do is layout and put [a lot of the major] facilities. A lot of the facilities working within some of the natural screening that we have with the forested areas. What we would also do is put sort of the more attractive, aesthetically pleasing administrative style buildings at the front on Reixinger, so you can see a rendering here. The idea would be to have a lot of green space in the front, as well as buildings that are amenable to the general area and the type of development we might see there in the future.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:30:19 – 00:30:40

Chris Hamel

And really, locating a lot of the treatment process farther to the north are screened behind these buildings, as well as other natural features. The location of this infrastructure is at quite a distance away from the Chippawa Creek itself so we have a lot of space and natural screening that it won't be as visible from the river.

00:30:40 – 00:31:11

Chris Hamel

What this also does is make allowances for future expansions. It provides a lot of opportunity as this facility sits there for the next many, many years, and we're trying to maximize all our distances from property boundaries for future development. Again, it's a good layout that we think will really work well as a community asset and really be able to showcase a good-looking wastewater treatment plant for the community as a whole.

00:31:13 – 00:31:43

Chris Hamel

Notwithstanding layout, we realize that there are many key elements that would not only be top considerations for the public, but something that we need to think about as a Region, operations, etcetera. Usually, the number one topic that comes with wastewater treatment plants are odours. We did spend a lot of time and a lot of focus working with Region team, working with our modelers on the project team to ensure that we have appropriate and very forward looking odour control for the particular facility.

00:31:44 – 00:32:16

Chris Hamel

One thing that we did do at this stage of the study, which is sort of a little more in advanced and detailed design, is we actually put a lot of time and effort into the modeling itself working with the Ministry so that we were recommending a layout and technology that would be approved and would meet those odour control and public expectations moving forward. With that modeling, we were able to show that we're not just meeting the Ministry criteria, we're meeting it at the property boundary. That was really important.

00:32:17 – 00:32:46

Chris Hamel

And what it also did is it drove different opportunities to look at how we might design this particular plant. One thing that we planned for at this stage is covering some of the key elements in the wastewater treatment plant itself. That does come with additional costs, but it also ensures that we're able to manage the odour moving forward. We can ensure that a lot of effort has been put in place to ensure that we are managing the odour at this site, at the property boundary, and not something well, well beyond.

South Niagara Falls Wastewater Solutions PIC No. 4 – Live Presentation Transcript

00:32:49 – 00:33:23

Chris Hamel

Another key area that we were looking at is energy recovery. It's one thing that we look at with initial technology selection, but how can we support additional and other technologies that might come forward just to bring on additional energy recovery. That could come on with different types of waste that come to our particular facility. When we think about the green bins, when we think about the ability to take on winery waste, etc., what that does is it really brings in some bio-rich elements that we can use for energy recovery.

00:33:24 – 00:33:51

Chris Hamel

The biogas itself, which is rich in methane, that can be used not just for the facility itself, but it's usually focused on the heat, the electricity, the natural gas, et cetera. And of course, the biosolids as well, which can be further utilized back in the Agriculture community for fertilizer, etc. There is a lot of opportunity with the technology we selected to bring energy recovery for it and be forward looking for the Region.

00:33:52 – 00:34:20

Chris Hamel

As we mentioned, one of the key selections in choosing conventional activated sludge is that it is the most developed technology available. And what that comes with is the opportunity for further and future enhancements and efficiencies coming forward. With treatment in place, the research that continues to be happening around this particular technology, we expect that we'd be able to take advantage of those improvements as they come our way. It's one of the key reasons we chose this technology.

00:34:21 – 00:34:46

Chris Hamel

And then lastly, we need to be thinking about a layout, not just for today but where the Region's needs might be in the future. As I was highlighting, this shows you how the treatment plant can be expanded, if not twinned or double that and then ultimately brought on for even as much as 90 megalitres per day. The other thing that we have done is made allowance for additional treatment requirements.

00:34:47 – 00:35:05

Chris Hamel

One thing that we've seen over the years, you can appreciate that the regulations change over time. So what treatment, water quality, wastewater quality from years ago could be more stringent today and could be even more stringent moving forward, if that's the case. We made provision to be able to bring on additional treatment requirements if necessary.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:35:07 – 00:35:42

Chris Hamel

And then the last piece related to the plant is the outfall itself. You can see here again the outfall pipe will extend into Chippawa Creek. It is however, at the bottom of the riverbed itself. The means of installing a pipe such as this, there will be a portion that's constructed as normal pipes would be with open cut through this portion of the land. But what you do is put the pipe together on land and you extend it out onto the water. And then you sink it down to the river bottom.

00:35:43 – 00:36:30

Chris Hamel

To facilitate this will require some excavation right at the shoreline of the river itself. This is a process that's generally around two days. It's something that's been completed for most outfalls in the area, in Ontario and other locations. We did our homework with a marine archeological study to understand the significance of the shoreline itself. And we undertook a very significant constructability review with experts in this field to ensure that our approach, to the outfall itself, was viable and suitable. This would be an alignment that would minimize the impact of the natural features and try to keep the impact into the river itself to minimum.

00:36:33 – 00:37:13

Chris Hamel

I did highlight the assimilative capacity. I won't spend too much time here, but for those listening, it's a very detailed process that ensures that the wastewater treatment process and the water that is then discharged into the river itself is at a quality that not only meets the Ministry guidelines, but is it not going to have a negative impact on the water quality that's there today. This was a very detailed process that was undertaken relatively early in the study, and it was great to have the Ministry of Environment [MECP] on board supporting us through this study and supporting the recommendations for the level of treatment that this will provide.

00:37:15

A. Montgomery

Chris, if you don't mind, can we take a little break? There are a few questions that have come in.

00:37:20:19 - 00:37:21:13

Chris Hamel

Absolutely.

00:37:32 - 00:37:52

A. Montgomery

I've been acknowledging the questions as they've come in. Chris, we've got two up front that were related to the impact to properties around the area and if there would be any loss of property value to those that are adjacent and if there will be any general impact to the properties in the area.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:37:53:10 – 00:38:23

Chris Hamel

Thank you for those questions. And absolutely, it's a big consideration when thinking about siting these types of facilities. We do need to think of the properties there today, as well as the properties that might be there in the future. This area is designated as future employment land. Part of the siting was based on its compatibility with those future land uses. We do acknowledge that property values is a key topic of concern of those that are living in the area.

00:38:25:04 - 00:38:31:01

Chris Hamel

A benefit of this program and having the treatment plant itself is the opportunity to bring in and create the land as service land. While there is an offset with the facility itself, the proximity to this facility will provide benefit to some of property owners just having the ability to have service land.

00:38:49 – 00:39:20

Chris Hamel

The one thing that we are being very conscious of with respect to property value, as I mentioned, is the aesthetics and the types of facilities that you are able to see from the property boundaries. And that's why the extra cost and effort have been placed to ensure that we would have an aesthetically pleasing grouping of buildings that would be visible to the public in the area. And again, it's working with the Region moving forward that's an opportunity to ensure that property value is not negatively impacted.

00:39:22 - 00:39:33

A. Montgomery

Excellent, thanks, and to clarify again, the plant will be on both the properties, we showed two addresses for Reixinger.

00:39:33 – 00:39:40

Chris Hamel

At this time, we're recommending that it be just on the one property [6811 Reixinger Road], which is the eastern block of land of the shape.

00:39:41 - 00:39:51

A. Montgomery

And the clarification as well that those properties will be connected to the service. Will the properties that are on Reixinger be connected to the service as part of construction?

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:39:53 - 00:40:31

Chris Hamel

There will be two steps in terms of servicing the land. What we're recommending here is the trunk infrastructure that needs to be in place first. The Region will look at ongoing opportunities. The Region and the City of Niagara Falls I should say. Extending the more localized sewers you could be looking at watermains that could be coordinated with this construction. I would have to confirm the timing of those types of pieces of infrastructure. I don't want to commit that servicing to the local properties will be there on day one of plant operations but it's now in position that the local servicing can be provided much easier.

00:40:33 - 00:41:05

A. Montgomery

Great. And then speaking to the discharge into the Chippawa Creek. The question here is, "I understand that you decide to discharge into Chippawa Creek rather into rather than into the hydro canal. In the case of a 50 year or very large storm or rainfall what potential impact could the discharge location have on the local river ecosystem? And what preparations is the team going to take to mitigate the potential impacts in the case of extreme weather?"

00:41:05:19 – 00:41:47

Chris Hamel

That's a great a great question. What was interesting through the study is that the conditions at our location of Chippawa Creek, aside from the actual natural element of where it's located, is similar in terms of flow and complexity as the canal itself. But with our location, we need to be conscious of other elements. As I was mentioning around the wet weather program, what we've done here is that as some of capacity that I referred to, we didn't just do for the 30 MLD, but we did do for the future flow conditions as well so that we were cognizant of higher flows, higher connectivity to this plant. And if you will, some level of climate resiliency.

00:41:48 – 00:42:21

Chris Hamel

One of the big advantages of the strategy as a whole, as I mentioned, is the larger trunk sewer itself. This is a deeper and larger pipe. And what happens with the infrastructure such as that is it actually gets to be used as storage. In some of these peak flow conditions, we're able to use the pipe because of its depth and size to hold some of that peak flow and then ultimately get most of it, if not all, of it treated through the plant itself. It is a significant benefit to deal with those future worst-case conditions, as you're highlighting there.

00:43:00 - 00:43:05

A. Montgomery

Great, and then the final question we have so far is will electricity be produced on the site?

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:43:07 - 00:43:44

Chris Hamel

So that was one of the elements that I was highlighting around the energy recovery. There is absolutely an opportunity for that. We positioned the plant to support this. There are many steps to determine how you if you will produce electricity. A lot of times that energy recovery can remain on the site itself but depending on the Region's intent, there is opportunity to look at sending that back into the grid, if you will. These are details that will be worked through in detailed design. The good news is, through the technology selection, it is supported.

00:44:04 - 00:45:12

Chris Hamel

I see a new one here, which is an excellent question around this 2-kilometre smell zone and how do we manage odours. This is an important area of clarification, so I appreciate the question. We took a 2-kilometre radius around the plant site to be thorough in our review of the potential receptors in the area. We needed to understand what was around. We weren't just looking at dealing with odours by the immediate neighbors, but we wanted to see what was around that could be sensitive that we would need to factor in. That radius was also important because it was important to factor in the QEW and some other features that affect not just on as much the odour but more on the noise side of our investigations as well. There is not a smell zone that goes out 2 kilometres. It's an area that was reviewed to ensure we didn't have sensitive receptors that required different levels of management. Our focus is controlling air odour and noise at the property boundary of the plant site itself.

00:45:12- 00:45:28

A. Montgomery

OK, and there was another further clarification about odour control. Will you be using the latest technologies such as biofilters, which can remove up to 95% to 99% of the odour and is a tried and tested system over the last 20 years?

00:45:30 – 00:46:01

Chris Hamel

We will be reviewing all technologies with respect to odour management. At this stage, we don't have to commit to the specific technology on the odour management, but we have made allowance for the various technologies that are available. And that's a detail that gets worked through under detailed design. To your point, there's new technologies. The management of odour control as it's evolved over the last number of years puts us in a very strong position to be able to manage any of those issues.

00:46:02 - 00:46:17

A. Montgomery

Excellent. And then can you just speak finally, before you move on to public reaction, so far, what we've heard through PICs 1, 2 and 3 and even up till today in terms of acceptance or any resistance to the plan?

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:46:19 – 00:46:49

Chris Hamel

At this time, there's been only limited resistance to the plan. I think a lot of those that we've been speaking to appreciate the broader nature of this program itself. The broader goals that we're trying to do is not just meet growth but protect the environment and the opportunities that it brings. We're very appreciative of the comments received today, and we understand that those located closer to this solution would have a different opinion than those located further away.

00:46:50 - 00:47:06

Chris Hamel

We were trying to balance all the considerations from all the site locations themselves. I wouldn't say it's unanimous, but there's been general support and there's obviously been many ideas to make sure that we don't forget about as it moves forward into implementation. I would say in general, it's been supported, but there's definitely been concerns and other issues brought up through the process.

00:47:16 - 00:47:27

A. Montgomery

Great thanks, we'll put off the rest of answering the questions to allow you to continue with the presentation, Chris, if you can keep going and then we'll get to the remainder when you're done.

00:47:28 - 00:47:36

Chris Hamel

And I apologize. We're running a little long here, so hopefully everybody can bear with me and I'll try to focus on the important things as we move forward.

00:47:37 – 00:47:52

Chris Hamel

The next piece is the trunk sewer itself. I've gone into great detail about the ability of putting this line back to the plant site turns the flows around so it's no longer pumping north for bringing them to the south. When we were looking at that particular strategy, we focused on three different alignments.

00:47:53 – 00:48:12

Chris Hamel

The yellow, you can see, is down the OPG Corridor. It's on the east side of all those properties down a corridor of land between those properties and the canal itself. We looked at the green alignment, which was essentially Oakwood Drive. And then we looked at the purple alignment coming down Montrose Road.

South Niagara Falls Wastewater Solutions PIC No. 4 – Live Presentation Transcript

00:48:13 – 00:49:08

Chris Hamel

We undertook the same level of investigations with the environment, archeological, cultural heritage [studies]. We did several boreholes for these alignments to make sure we understood that we had technical and hydrogeological conditions in the area. While we were looking at these alignments, we were considering different construction methodologies. Typically, some might see what we call open cut is, where the machines are there and they're digging and they're laying the pipe as you move forward, as you can see here. And then in those cases you have larger shafts, or larger elements that are open to the public. Where in tunneling you're really focusing on shafts and those are the areas that are disruptive to the public. And you're using a machine to tunnel and connect those shafts. We were thinking about all these elements as we move towards this investigation.

00:49:09 - 00:49: 31

Chris Hamel

We also brought in, again, some constructability peer reviews to weigh out the options in terms of different tunneling methodologies, as well as interpretation of our soil conditions of what would work and not work. And it really brought a lot of great brainstorming to how we could put this larger and deeper pipe into place.

00:49:32 – 00:49:56

Chris Hamel

Within the three options, really to cut to the chase, the OPG corridor, while it did provide some benefits in terms of removing some of the construction activity through some of the community areas it created a lot of conflict and cost in the south end of that limit, having to go under the Grassy Brook Park and some of the other environmental features in that area.

00:49:56 - 00:50:17

Chris Hamel

The Oakwood Drive would have required closure of Oakwood to facilitate the level of construction we were putting through there. And both of those elements would have had additional pipe lengths to support the same solution. Where we ended up with Montrose Road.

00:50:18 -00:51:05

Chris Hamel

Montrose provides the most holistic solution, not just from a constructability standpoint, but in terms of supporting the area for servicing as a whole. What we're showing here are the locations of the shafts. You can see the canal here. QEW working its way through the river itself here. You would have these compounds storing all the equipment and basically these are the locations you would see that and then the pipe would be tunnel from spot to spot. This would require this intersection here. Would have some conflict and would require closure or temporary closure of Brown Road but this would be managed with detouring in the area.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:51:06 – 00:51:20

Chris Hamel

Similarly, the intersection of the cul-de-sac at Reixinger and Montrose would require closure, but we would manage the traffic requirements with the local properties. What you can also see is the depth of this pipe that we're referring to.

00:51:21 - 00:51:51

Chris Hamel

This is going to tend to almost 20 meters deep by the time it reaches the treatment plant part of the need for that is to make sure that we're well under the Welland River. You can see the bottom of the riverbed here and the depth and profile of our sewer to achieve that. When we do this and ultimately have this in place, we provide the service area a strong connectivity point here and Reixinger and Montrose, which is right near adjacent to the new hospital location.

00:51:52 - 00:52:25

Chris Hamel

We have a deep sewer located here, which provides future connections further to the east. And with this location here on Brown Road supports the connectivity of the Thorold South solution. And again, we did look at tunneling methodologies with what we're seeing. There's the intent on providing enough flexibility to allow a number of different contractors with different approaches to look at giving us the best cost-effective solution and manage the risks of installing a big deep sewer like this moving forward.

00:52:28 – 00:53:13

Chris Hamel

The last piece on the collection side is Thorold South. As mentioned, this is an area that's currently pumping north that we are also turning south and looking to connect to that point here at Garner Road. We looked at a number of different alignments, all with different benefits, pluses and minuses on each of the routes. When we were looking at these different combinations, we were really trying to say: OK, what is our most efficient way of conveying the flows? Can we look at alignments that consider servicing existing properties that currently don't have municipal servicing? How does this play into servicing future areas, as well as balancing the needs of both Thorold and Niagara Falls? And each of these alignments provide different benefits to achieve those goals.

00:53:14 – 00:53:38

Chris Hamel

Again, just very quickly, the geotechnical review, the growth projection review, all the [archaeological], environmental, cultural heritage assessments completed all support our evaluation. Again, I just want to stress anytime we talk about evaluation, we're balancing all of these multiple criteria to get to our final recommendation.

South Niagara Falls Wastewater Solutions PIC No. 4 – Live Presentation Transcript

00:53:39 – 00:54:15

Chris Hamel

Our preferred alignment for this piece of the servicing is along Barron Road and then down to Brown Road. This provides an efficient direct forcemain to go from the new pumping station. It has efficient and it's located in a way that will support both existing servicing and some future servicing for Thorold South. It's in a good alignment to support future servicing in Niagara Falls and it's a cost effective way of creating this connectivity between Thorold South and our new trunk system.

00:54:16 – 00:54:33

Chris Hamel

Some of the others had significant environmental constraints. Some unfortunately had significant length and high costs associated with it. Others were really more subtleties of what's the best approach to go down to support future servicing.

00:54:33 - 00:55:15

Chris Hamel

This is the preferred strategy and the preferred alignment. We are moving the Black Horse pumping station to be just south of the firehall, so this is a property you can see here. From there you would be pumping, so this is what's called a forcemain or a pressure pipe that basically gets the flows uphill. At Barron Road will be a shallow depth that can be supported by open-cut until we then get down closer to the deep sections and connections. The other thing with that piece is there's this existing Garner Road pumping station that can be decommissioned to support an all-gravity solution moving forward.

00:55:19 – 00:56:01

Chris Hamel

Again, as you've heard today, we're talking about a lot of study components. One thing we wanted to be clear on is this is a [comprehensive] program. It's a treatment plant, it's an outfall, it's the deep trunk sewer, it's the other connecting sewers as well as decommissioning and pumping station upgrades. There's a lot of talk around a 400 million dollar project and it is a significant amount of money. We wanted to make sure it was clear that this represents the whole program: all the alignments, everything we've shown on our maps today. The plant itself is estimated at 250 million. That big trunk sewer is a 100 million dollars sewer that sets us up for that future servicing. And then all those other pieces are shown here.

South Niagara Falls Wastewater Solutions PIC No. 4 – Live Presentation Transcript

00:56:02- 00:57:00

Chris Hamel

We spent a lot of time around cost estimating, looking at managing risks moving forward for the project. The additional work that we did around [geotechnical] and those other studies in Phase 3 did brought more knowledge with the unknowns a lot of times seen in these service areas. Having more insight to what we might encounter to install this infrastructure did increase the costs. But we've brought the cost estimating to a level we're trying to manage moving forward and avoid cost increase surprises that sometimes you do see on major projects. It's a significant program. This is a cost estimate and program that was reviewed in detail with Region staff, finance department and council to ensure that we can move forward with this infrastructure and still support the ongoing water and wastewater servicing needs of the Region as a whole.

00:57:02 – 00:57:47

Chris Hamel

There are more steps to do so after this study, the Region would be moving forward into design and then ultimately construction. As I mentioned with that additional effort that we put under the study, it does identify some commitments that the Region will undertake to make sure each of these pieces are built properly and meet the commitments that we've had with our stakeholders and review agencies. There are additional environmental-archeological studies that will be completed during design for those specific components. There will be monitoring during construction. There will be more boreholes to ensure we have clarity on the hydrology and geotechnical conditions, and there will be more detail placed on understanding the traffic impacts during construction of the recommended program.

00:57:48 – 00:58:29

Chris Hamel

This brings us close to the end here, I just want to recap what you've heard today, again I know it's a lot of information. Again, it's a program, it's the wastewater treatment plant and outfall, it's the new Montrose trunk sewer, and it's the Thorold South servicing. The original focus was on 2041 growth, we've been able to consider the 2051 growth impacts as well as long term capacity needs. With those future growth needs, one of the good benefits with this type of solution is we can phase in the capacity at the wastewater treatment plant when we need it. The Region will monitor as the development happens, the types of flows that are coming there to determine when the next expansion is needed.

00:58:30 – 00:59:04

Chris Hamel

We are very pleased with the environmental benefit that comes with this program, our ability to capture peak flows, conveyance storage, work more of those flows through the treatment process itself to help minimize and manage the overflows and flooding in the area. It provides significant connectivity flexibility to support the Region's goals moving forward. And with the level of effort that we've put under this study, we really made a siting and technology selection that really positions the Region well moving forward into the future.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

00:59:05 – 00:59:28

Chris Hamel

Lastly, in terms of the timeline, you can see that this goes back to 2019. This is a significant study. It takes a lot of effort to work our way through Phases 1, 2. Phase 3 in particular it required all the additional studies. Now we're in a position where we're looking to finalize the Class EA study and file it for public review here in the spring of 2022.

00:59:29 – 1:00:17

Chris Hamel

With that, I appreciate that you've been with me to listen to all this content and we'll take some more questions. We want to continue hearing from you. Your input, your questions are great at this stage of the project and they will be incorporated into our final recommendations. Again, the feedback period is Feb 9 to 23. In May of this year 22, all the documentation around everything I've just described will be available for public review. This will be another opportunity for feedback and comment that will be addressed by the EA team. On behalf of Lisa Vespi and the Niagara Region Project team, thanks for listening to the presentation. And now, Andrea, we can try to work through some of our questions.

01:00:18 - 01:00:51

Andrea Montgomery

Thanks, Chris. We just have a little bit more clarification, Chris, on the odour control piece and William is the one who brought that forward. I have been connecting with the project team on this, so we're talking about the 2 kilometres smell zone and whether or not that is actually the case or not. I think Troy has a bit more clarification on that. If we can just jump directly to Troy.

01:00:51 – 01:02:19

Troy Briggs

Thank you. The important thing is we're really focusing on the property boundaries and selecting the right process that enables us to collect, treat and manage odours within our property boundaries. As wastewater treatment plants have been here for 100 years, and there are so many examples around Ontario and every other community around the world where the population has grown and become much closer to the plants than originally planned. And with those, we've learned so much about where odours are created, how we manage those odours, how we collect them, and how we treat them, and how we design processes to minimize and manage those implications. Those are all the things we've integrated into this new facility so that we can make sure we're not only doing what we need to do today, but leveraging opportunity for the future, depending on what may become the next door that we don't know in the future. It's trying to give us that flexibility to adapt and do what we need to do for the public and for the adjacent receptors to manage the impacts.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

01:02:23 - 01:02:53

A. Montgomery

Thank you, Troy. We have a question for sharing the link to where this recording is going to be. The presentation slides, the link, all the information about this project will be available on the project webpage. Can we just confirm quickly about target date for construction and also how many acres of land will be purchased for the plant?

01:02:55 – 01:03:31

Chris Hamel

As mentioned, the planned site is the full property [6811 Reixinger Road]. Because we have to incorporate not just the plant limits itself, but the alignment for the corridor, our recommendation is to take the full block of land to not isolate inaccessible land. The recommendation is 100 acres which is slightly more than we need but is intended to facilitate the whole property. What was the second piece of the question?

01:03:32 - 01:03:33

A. Montgomery

The second is the target construction and timing.

01:03:33 - 01:04:

Chris Hamel

Yes, construction timing. As mentioned with the class EA study completing this year, the intent is to move straight into detailed design for these components. The Region's goal is to have their design consultant on board this year and start the process. It will require 2023 and probably some of 2024. It might be a little ambitious, but the goal is to try to potentially start construction as early as late 2024. This type of magnitude will be at least a three-year construction period. The early in-service date is focused on 2027.

01:04:17 - 01:04:31

A. Montgomery

Will the wastewater from Allanburg neighborhood, Gainer Street, Centre Street, Henderson Street be traveling to the new SPS (sewage pumping station) or an existing one? And how will the neighborhood be affected?

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

01:04:35 – 1:05:38

Chris Hamel

With the forcemain coming down here and introducing a Barron Road sewer at this location, a lot of these lands that aren't currently going to the Centre Street sewage pumping station, the frontage would be able to connect to the Barron Road sewer. There would be a limit of area south of Barron Road that would be able to work its way by gravity back up to Barron Road. For properties further south there would have to be a local servicing strategy developed with the City to determine the best way to achieve this. There would be opportunity for a new sewage pumping station to pump up here as well as some other ideas on the table. What's important here is that the Region is focused on getting the trunk system in place, and then that provides flexibility for the local municipalities to look at other local servicing options.

01:05:39 - 01:05:49

A. Montgomery

If you can speak to as well the homes on Lyons Creek Road and on Reixinger to the east of the plant, will they be connected initially or at some later date?

01:05:50 - 01:06:10

Chris Hamel

As always, highlighting once the trunk infrastructure is in place and in service that will allow for the local servicing to happen. Lisa (Vespi) or the Region may come back to this as we close out the meeting. But I don't think it would be readily available right on day one, but it's in a position to be extended in the near future.

01:06:11 - 01:06:19

A. Montgomery

Will there be an increase to property taxes in the local area, even if we do not have sewer services?

01:06:22 – 1:06:49

Chris Hamel

I don't normally get involved in the property tax discussion, but one thing I can highlight is that this type of project is a service through development charges, as well as the rate budget. With respect to property taxes that will be a different consideration of other elements happening across the City. I'm not sure if I can make a commitment one way or the other.

01:06:51 - 01:06:59

A. Montgomery

The clarifiers are one of the greatest sources of odour. How do you plan to control odour from the open systems?

01:07:01: - 01:07:06

Chris Hamel

I did touch on that briefly, but Troy's the expert in this area and can jump in.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

01:07:07 - 01:07:49

Troy Briggs

The primary clarifier specifically would handle the raw wastewater that physically comes into the plant through the pumping station are the largest source of odours. What we're proposing is we're covering the turbulent areas of that tank, for lack of a better word, to ensure that we collect and manage all the odours from all the turbulence sources. And the turbulent sources are where we release those orders to the air. What we do is collect those, we treat them and manage them so that they don't go to the environment.

01:07:50 - 01:08:10

A. Montgomery

In the noise zone, do you have an example of the sound maximums in decibels that are expected from this plant? And what low waves inaudible to the human, but audible to domestic animals and wildlife can we be expected from the plant?

01:08:12 - 01:09:18

Troy Briggs

We modeled this specifically relative to Ministry guidelines. And when we did the modeling initially, we noticed that we were getting more noise from the QEW than the facility. That's why that was part of the reason Chris described earlier is extending that region to that 2-kilometre boundary so that we understood where we were impacting versus the other natural sources or other sources, not natural necessarily, that are influencing the facility, residents and the community as a whole. That was the biggest reason why we extended that boundary. When we did that, we noticed that we were getting more noise propagation from the highway, specifically during the more critical nighttime hours or a different noise levels, depending on nighttime, daytime, etc.

01:09:18:09 - 01:09:38

Troy Briggs

We noticed is that the plant was quieter than the QEW as an example. Again, we were trying to look at those things to make sure that we weren't negatively impacting [any] receptor within that 2-kilometre radius.

01:09:39 - 01:09:45

A. Montgomery

Thank you. Are there any natural heritage features on the land and how are they being protected?

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

01:09:47 - 01:10:31

Chris Hamel

As I mentioned, the detailed studies that we undertook were intended to identify those elements and determine their significance and what elements and what actions might be needed to manage or mitigate them. For example, just outside of the boundary of our site is the Dell Cemetery, so we would have sufficient clearance and stay further east from that facility. There is an existing farmhouse and barn that we did review in detail and document. And those are two features that would need to be removed to facilitate this particular plan. The intent is to make sure that we have good documentation to preserve the knowledge of those features on public property.

01:10:34 - 01:10:44

A. Montgomery

The road widening on Biggar Road and Montrose Road is starting this June. Wouldn't the sewer construction start much earlier in conjunction with this road widening?

01:10:46 - 01:11:22

Chris Hamel

We did undertake coordination with the hospital team as well as the transportation team looking at the road widening of Montrose and those construction activities. Some components will be starting earlier, but we have coordinated alignments and locations. This is a different style of construction that we would be proposing on Montrose with a tunneling activity. It's about locating those shafts as opposed to open cut and digging up the whole road, which is what some of those other projects will be doing.

01:11:23 – 01:11:42

Chris Hamel

It is coordinated but parts will be coming in after. The Montrose construction that you're referring to isn't going all the way north, all the way up to the full extent of our sewer. It is focused on the southern limits near the hospital.

01:11:43 - 01:11:52

A. Montgomery

Will this site be the only site that eventually be used for green box, etc., or will other sites be doing this as well?

01:11:55 - 01:12:22

Chris Hamel

I can't speak for the Region wide application of external green bin waste, but it was something recognized as an excellent location to support that, which is why it was factored in for this particular facility. I do believe there's other opportunities in other facilities if the Region would like to comment.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

01:12:23 - 01:12:42

A. Montgomery

Great. You propose covering the turbulent areas. Have you considered scrubbers on the existing exhaust area or do you plan to let it escape into the atmosphere without any additional treatment or control?

01:12:50 - 01:13:24

Troy Briggs

We are collecting all the turbulent areas, sending it, and treating it. We're collecting from the, I'm going to call these "screenings", and grit removal, which we call the headwork's area of a facility, also from the pumping station. Anything that comes down the sewer that might be a little bit older sewage because it's been traveling along a long sewer. We are also recognizing there may be odour escaped from there. So those are the three key sources.

01:13:25 – 01:13:49

Troy Briggs

These are what we've started the model with no odour control and then looked at how we mitigate these to manage to the best benefit of the community to achieve the goals that the Ministry requirements. Specifically looking at the property line with respect to odour management.

01:13:50 - 01:14:43

Troy Briggs

There is opportunity [if we] ended up with a very sensitive receiver like very close to the plant, you could look at covering additional areas, but that comes at very significant cost. We've tried to make sure we have set the plant up so that it's ready to do whatever we need to do in the future but made sure we did whatever we needed to do today to make sure the impacts to all of the adjacent community are managed and are not an issue.

01:14:46 - 01:15:02

A. Montgomery

Thanks, Troy. Regarding the tunneling please comment on any similarities or issues, if any, from the 2008 Niagara tunneling project that the issues encountered.

01:15:04:05 - 01:15:46

Chris Hamel

The Region team brought forward lessons learned and other issues that they've encountered from previous projects, whether it be a treatment plant project or a trunk sewer tunnel. The gas issues [hydrogen sulfide] that were previously encountered in the soils were brought forward. The interesting thing with trunk tunneled sewers is while there are similarities with soil conditions across the area, you're always going to encounter unique elements for your particular alignment or depth.

South Niagara Falls Wastewater Solutions PIC No. 4 – Live Presentation Transcript

01:15:47 – 01:16:23

Chris Hamel

In this case, we did go through a lot of detail of what we are to expect with the information provided from the [geotechnical survey] to date. We believe these issues are manageable. What the Region will do moving forward is they will do a greater detail on the geotechnical investigations, more boreholes, if you will. Get more information and more points along the alignment to help ensure we manage that. So again, I think it's a good approach. Building on lessons learned and ensuring that we manage those risks, sometimes you can't eliminate them, but the idea is to manage them.

01:16:24 - 01:16:53

A. Montgomery

Great. We did get another question about green bin collection. I know you mentioned that it's outside of the scope of this project. Is there planned bio filtering in the form of creating marshland, filtering ponds to further eliminate unforeseen contaminant overflow?

01:17:29 - 01:18:09

Chris Hamel

What we can commit to is that when we looked at site layout there is quite a bit of green space still maintained and in the property as a whole and taking on that additional land provides opportunities for some low impact development or other stormwater management elements while filtering, etc. These types of suggestions will be carried forward into the detailed design to not only present it in a natural environment sense, but also to manage the activity on the site as well.

01:18:09 - 01:18:25

A. Montgomery

Great. An anonymous one of our attendees did say that, “was very lovely, Chris. That was the best presentation from the Region I've ever attended. Thank you for being clear, honest and detailed.” We appreciate that.

01:18:25 - 01:18:41

Chris Hamel

Well, that's nice to hear. I appreciate we do our best and especially in these environments. I know there's a lot of information to go and everyone's staring at their computer screens. We do appreciate that and I think unfortunately, we are going to have to start trying to wrap this up.

01:18:41:07 - 01:19:05

Chris Hamel

What I would say is with the email that's here for Lisa Vespi: new.treatment.plant@NiagaraRegion.ca, we would love to continue to receive this commentary as well as the questions. The ones that we are seeing come through the Q&A will continue to be reviewed in the next steps of our study. We do want to incorporate these ideas into the final documentation as a whole.

**South Niagara Falls Wastewater Solutions
PIC No. 4 – Live Presentation Transcript**

01:19:07 - 01:19:28

A. Montgomery

Thanks very much. As Chris said, we've got the website address that's up here on the screen. You should see it also in the chat.

01:19:29 - 01:20:02

A. Montgomery

If you look under South Niagara Falls Wastewater Solutions, if you Google that you will come up with the web page as well if you don't remember the web address. We certainly would like you to visit there. You can see there is an online form if you would like to submit any further comment or ask any further questions, and then you'll get all the details, including timelines and that kind of thing that are coming in terms of next steps. Within the next little while, we'll get this full slide deck and the recording up there.

01:20:03 - 01:20:34

A. Montgomery

Again, all comments are going to be consolidated and considered as part of the final report. We're certainly gathering and paying attention to this input that we're getting. We really appreciate and value your input. I just want to thank everyone very much for joining us this evening, for taking the time. Those of you that stay the little extra and were engaged in this, we really appreciate your input. Please stay in touch and all the best for a wonderful evening and the rest of your week.

01:20:36 - 01:20:39

Chris Hamel

Thank you, everybody, appreciate it.

01:20:39 - 01:20:44

A. Montgomery

Appreciate your participation. Thank you. I will stop recording now.