

Appendix B1 – Public Information Centre Materials and Summary Reports



2021 Water and Wastewater Master Servicing Plan Update TM 3: Customer Service and Public Awareness GMBP File No. 621143 November 2023

Stakeholder List

Region of Niagara 2021 Biosolids Master Plan Update Stakeholder Contact List

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 | Category (e.g. Utilities, Provincial, Ministry) | Internal / External | Title / Role
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Region of Niagara 2021 Biosolids Master Plan Update Stakeholder Contact List

Contact Method	Stakeholder Nome	Organization	Category (e.g. Utilities, Provincial, Ministry)	Internal / External	Title / Role	Address Line 1	Addross Line 2		Postal	Contact Emoil	Contact Phone Number	Comments
Emal	Kathy Sul ivan-Shaw	Organization Grinsby Power Incorporated Grinsby Power Incorporated Grinsby Power Incorporated	Utilities	External	Executive Assistant	Address Line 1 231 Roberts Road	Address Line 2	City / Province Grimsby ON	L3M 5N2	Contact Email kathys@grimsbypower.com	905-945-5437 ext. 263	Comments
Emal	Barbara Lattimer	Grimsby Power Incorporated	Utilities	External External	Executive Assistant	231 Roberts Road		Grimsby ON	L3M 5N2	barbara @grimsbypower.com		Received letter reply on Jun 14, 2022 in
Emal												response to PIC 1/Notice of Commencement. Confirmed we are using correct email. They
Moil	Timethu Custia Warner	Hydro One Networks	1 Million	External	Dreaident	9 Hanagan Daad	D.O. Pay 450	Niroll ON	1.05 170	secondarylanduse@hydroone.com		confirm that no Hydro One Transmission assets are in subject area.
Mail Ema I Ema I		Niagara-on-the-Lake Hydro Inc. Niagara Peninsula Energy Inc. Niagara Peninsula Energy Inc.	Utilities (Hospital Contact) Utilities (Hospital Contact)	External External External	President Director of Engineering Services	8 Henegan Road 7447 Pin Oak Drive 2676 Clifford Street	P O Box 450	Virgil ON Niagara Falls ON Smithville ON	L2E 6S9	info@npei.ca jim.sorley@npei.ca	905.327.1782	
Emal	Mario Rosano Yang Xiao	Niagara Peninsula Energy Inc. Niagara Peninsula Energy Inc.	Utilities Utilities	External	Senior Engineering Technician	7447 Pin Oak Drive 2676 Clifford Street		Niagara Falls ON Smithville ON	L2E 6S9 L0R 2A0	mario.rosano@npei.ca	555.521.1162	
Mail Ema I Ema I	Jeremy Sm th	Niagara Region Broadband Networks	Utilities (Hospital Contact) Utilities	External External						jeremy.smith@nrbn.ca		Two emails provided for Contact;
Emal	Mark Kuhlmann Kent Keeler	Niagara Region Broadband Networks Ontario Power Generation Output Design Consection	Utilities	External	Construction Coordinator Senior Manager Production Support	4343 Morrison St 14000 Niagara River Parkway	R.R. #1 R R #1	Niagara-On-the-Lake ON	L2E 6Z9 L0S 1J0	fieldops@nrbn.ca OR mark.kulhmann@nrbn.ca kent.keeler@opg.com	005 074 0004	mark.kuhlman@nrbn.ca is unde iverable
Ema I Mail		Ontario Power Generation Ontario Power Generation Telus	Utilities Utilities Utilities (Hospital Contact)	External External External	Plant System Support Manager (Acting) VP Operations - Niagara Operations	14000 Niagara River Parkway 14000 Niagara River Parkway	R.R. #1 R.R. #1	Niagara-on-the-Lake ON Niagara-on-the-Lake ON	LOS 1J0 LOS 1J0	ke jones@opg.com frederic.sua@telus.com	905-371-6331	
Mail	Ross Peever Schoolboards & Interest Groups	Welland Hydro Electric System Corporation	Utilities	External	President, CEO and Secretary	950 East Main Street	P.O. Box 280	Welland ON	L3B 5P6			
Email Email	Jason Rodrigue	Conseil Scolaire Viamode Conseil Scolaire Viamode	School Boards School Boards	External External	Surintendante des affaires Director of Education	1 Promenade Vanier 116 Cornelius Parkway		Welland ON Toronto ON	L3B 1A1 M6L 2K5	fournierf@csviamonde.ca bertrandm@csviamonde.ca		
Email	M kale-Andree Joly	Conseil Scolaire Viamode Conseil Scolaire catholique MonAvenir	School Boards School Boards	External External	Director of Communications and Marketing Directrice du Service des relations corporative	55 Avenue Pelham 110 Avenue Drewry		Toronto ON Toronto ON	M6N1A5 M2M 1C8	francoeurc@csviamonde.ca mjoly@csdccs.edu.on.ca		
Email Email Mail	Catherine Audet	Conseil Scolaire catholique MonAvenir Conseil Scolaire catholique MonAvenir District School Board of Niagara	School Boards School Boards School Boards	External External External	Director of Transportation Services Communications Advisor Director of Education	110 Avenue Drewry 110 Avenue Drewry 191 Carlton Street		Toronto ON Toronto ON St. Catharines ON	M2M 1C8 M2M 1C8 L2R 7P4	mnante @csdccs.edu.on.ca caudet@csdccs.edu.on.ca		
Email Email	Sue Mabee	District School Board of Niagara District School Board of Niagara	School Boards School Boards	External External	Supervisor of Planning Chief Communications Officer	191 Carlton Street		St Catharines ON	L2R 7P4	sue mabee@dsbn org kim.yielding@dsbn.org		
Mail Mail	Len Falkiner Susan Murray	Canadian Section International Niagara Board of Control Friends of the Greenbelt	Secretary	External	VP Communications and Operations	867 Lakeshore Road 661 Yonge Street, #500	P.O. Box 5050	Burington ON Toronto ON	L7R 4A6 M4Y 1Z9		416-960-0001	
Email Mail Email		Greater Niagara Chamber of Commerce Lundy's Lane BIA Niagara Catholic District School Board	Interest and Stakeholder Groups Interest and Stakeholder Groups School Boards	External External	Catholic Education Centre	80 King's Street P.O. Box 26008 427 Rice Road	Unit 3 Lundy's Lane R.P.O.	St. Catharines ON Niagara Falls ON Welland ON	L2G 7X2	info@gncc.ca kathy.levinski@ncdsb.com	905-684-2361 905-401-8247	
Linda			School Boards	External					200701			was forwarded Notice of Commencement email
Email Email	Craig Martin Dr. Dan Patterson	Niagara College Niagara College	School Boards	External	Energy & Asset Manager President Niagara-on-the-Lake Campus	135 Taylor Road S S #4 135 Taylor Road S.S #4		Niagara-on-the-Lake ON Niagara-on-the-Lake ON	LOS 1J0 LOS 1J0	crmartin@niagaracollege ca president@niagaracolege.ca	905-641-2252 x 7356	and requested to be added to the list
Mail Email Email	Kevin Sm th Ben Embir	Niagara Emergency Medical Services Niagara Health Niagara Health	Manager of Operations	External	Emergency Services Division	509 Glendale Avenue East		Niagara-on-the-Lake ON	LOS 1J0	ben.embir@niagarahealth.on.ca donald.hall@niagarahealth.on.ca		
Email Email Email	Ed Lucchetta Chuck McShane	Niagara Home Builders Association Niagara Home Builders Association	President Interest and Stakeholder Groups	External External	Executive Officer	34 Scott Street 34 Scott Street		St. Catharines ON St. Catharines ON	L2R1C9	oonaid.naii@niagaraheaitn.on.ca info@niagarahomebuilders.ca chuck@nhba.ca and info@niagarahomebuilders.ca		
Mail Mail	Geoffrey Skaftfeld Tony Miele	Niagara Regional Police Ontario Rea ty Corporation	Interest and Stakeholder Groups Superintendent of Executive Services	External External External External	Executive Services	68 Church Street 77 Wellesley Street West	11th Floor	St. Catharines ON Toronto ON	L2R 3C6 M7A 2G3			
Email	Magdalena Kaiser Third Party Biosolids Contractors and En		Interest and Stakeholder Groups	External	Director of Public Relations - Tourism and Marketing	4890 Victoria Avenue North	P.O. Box 4000	Vineland ON	LOR 2E0	magdalena@wmao.ca	905-562-8070 ext 228	
Ema I Ema I Ema I	Geoff Boyd Tom Harz Greg Marotta	Walker Industries Walker Industries Thomas Nutrient Solutions			Vice President Operations Manager President	2800 Thorold Townline Road 2800 Thorold Townline Road 70 Beach Road		Niagara Falls ON Niagara Falls ON Ham Iton ON	L2E 6S4	gboyd@walkerind.com tharz@walkerind.com greg margta@thomasputrientsolutions.com	905-455-8808	
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	Project Steering Committee											

Region of Niagara 2021 Biosolids Master Plan Update Stakeholder Contact List

Contact Method	Stakeholder Name	Organization	Category (e.g. Utilities, Provincial, Ministry)	Internal / External	Title / Role	Address Line 1	Address Line 2	City / Province	Postal Code	Contact Email	Contact Phone Number	Comments
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	Public Stakeholders											
Ema I		n/a	Public	External					n/a			PIC 1 Form - Requested to be added to distribution list on Jun 16, 2022. GMBP confirm this request via email on Jun 16, 2022
Emai		n/a	Public	External					na			PIC 1 Form - Comment provided "Cooks Mills residents predominately along Doar's Ridge and Moyer Roads feel that the Regions yearly convoy of bio-solids runking Intrucy the heart of our quiet commun yis in appropriate. The plan is both short sighted and ignorant. We have slow down ch idren at play signs posted and a 60 km an hour speed limit. The Thomas Solutions trucks being utilized certainly do not adhere to 1. The noise, especially from one exhaust modified regular (flat black, Texas Longhon symbol) is truly difference and actually shakes the glassware in some horses. Highwar an alternative the current route. The express sent on Jun 16. Reglied Jun 21 to confirm he wants to be on ma ling list.
Emal			Public	External					n/a			PIC 2 - Requested to be added to the distribution list May 10 2023



2021 Water and Wastewater Master Servicing Plan Update TM 3: Customer Service and Public Awareness GMBP File No. 621143 November 2023

- Public Information Centre No. I

Materials

Technical Memorandum 3



Notice of Study Commencement and Public Information Centre No. 1

Biosolids Management Master Plan Update

Niagara Region completed a Biosolids Management Master Plan in 2010 to ensure a long-term, environmentally sustainable, reliable and cost effective biosolids management program for Niagara Region and its citizens. This update to the plan will identify and develop a strategy for meeting Niagara's biosolids treatment needs to the year 2051, in a manner that is transparent, sustainable, reliable, environmentally friendly, cost effective and flexible.

The Biosolids Management Master Plan will be developed to:

- Meet the unique needs of Niagara Region and its customers, including treatment requirements, land uses and users, and environmental features
- Meet future needs associated with population growth, new regulations, climate resiliency, and energy efficiency
- Provide greater flexibility and reliability for biosolids management, both in the short term (i.e., 5 years) and long term (to the year 2051)



- · Improve biosolids marketability; and
- Address community expectations regarding level of service, odour, air/noise, water quality, protection of the environment and aesthetics

The Process

The Study follows the master planning process as established by the Municipal

Engineer's Association Class Environmental Assessment process for Master Plans, which is an approved Ontario Environmental Assessment process. The Biosolids Management Master Plan Update will satisfy Phases 1 and 2 of the Class Environmental Assessment process. Public and stakeholder input will be sought throughout the process, and a Biosolids Management Master Plan Update Report will be prepared and filed for public review.



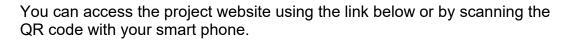


Get Involved

Public feedback is an important part of the process. Information about the project will be available on Niagara Region's website as part of Public Information Centre No. 1. You can learn about the project, strategies being considered and how you can have your voice heard.

Public Information Centre No. 1 Details

Information about the Biosolids Management Master Plan will be made available on the project website beginning **Wednesday**, **June 8**, **2022**. This will be followed with a two-week period to submit Public Information Centre No. 1 related comments to the Project Team.



niagararegion.ca/projects/biosolids-master-plan

If you have questions, comments or wish to be added to the study mailing list, please contact:

Albert Succi, Senior Project Manager Water & Wastewater Engineering Niagara Region 3501 Schmon Pkwy., PO Box 1042 Thorold, ON L2V 4T7 905-980-6000 ext. 3308 Toll-free: 1-800-263-7215 Fax: 905-685-5205 niagarabiosolidsmp@niagararegion.ca

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of 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.

If you require any accommodations in order to participate, please let us know in advance so that arrangements can be made in a timely manner. Special accessibility accommodations and materials in alternate formats can be arranged by contacting the Niagara Region's Accessibility Advisory Coordinator at 905-980-6000 ext. 3252 or **accessibility@niagararegion.ca**.







Phase I Class EA and Public Information Centre No. I Summary Report

2021 Biosolids Management Master Plan Update

August 2022





GUELPH | OWEN SOUND | LISTOWEL | KITCHENER | LONDON | HAMILTON | GTA www.GMBluePlan.ca



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Appendices

Appendix A	Notice of Study Commencement and PIC No. 1
Appendix B	PIC No. 1 Material

- Appendix C PIC No.1 Online Survey
- Appendix D Comments Received Summary



Region of Niagara Biosolids Management Masterplan Phase 1 Class EA & PIC No. 1 Summary Report GMBP File No. 621143 August 2022

621143 – Niagara Biosolids Management Master Plan Update Phase 1 Class EA & Public Information Centre No. 1 Summary Report

QA/QC - SIGN OFF SHEET

This report has been reviewed and approved by the undersigned.

Saurie Bayce

Laurie Boyce, B.Sc., M.A. Project Manager

I.0 Study Introduction

I.I Background and Purpose

In alignment with Niagara's Growth Management Strategy and under the legislative context of the Province's Place to Grow Plan and the Regional Policy Plan, growth in the Region of Niagara should occur in a sustainable manner addressing economic, social, and environmental considerations. The Region initiated the current Biosolids Management Master Plan (BMMP) Update to review the existing biosolids management strategy in light of these Provincial and Regional growth targets, to identify limitations, develop and evaluate alternative management strategies, and recommend a preferred strategy for implementation. The study will address Phases 1 and 2 of the Municipal Engineers Association Class Environmental Assessment Master Planning Process, while meeting the goals and objectives of the Region.

The BMMP will be developed to:

- Meet future population growth needs to the year 2051,
- Consider future regulations,
- Educate stakeholders regarding the benefits of biosolids reuse,
- Address community expectations,
- Protect the environment,
- Provide greater flexibility, reliability and cost efficiency for biosolids management, and
- Provide a 'Made in Niagara' strategy that incorporate features unique to this area

The study area covers includes all wastewater and water treatment plants in the Region of Niagara which includes Grimsby, West Lincoln, Lincoln, St. Catharines, Thorold, Welland, Pelham, Port Colborne, Niagara-on-the-Lake, Niagara Falls, and Fort Erie. Although Wainfleet does not have wastewater or water treatment, biosolids are utilized on their agricultural lands. **Figure 1** maps the overall study area.

A key part of the public consultation component of the study are Public Information Centres (PICs), which serve as a forum for information exchange between the public, stakeholders, and the project team. This report summarizes the first PIC held virtually from June 8-22, 2022, as well as the Phase 1 consultation activities and documents the following:

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

This report will be appended to the Master Plan Report submitted at the end of the study.

Region of Niagara Biosolids Management Masterplan Phase 1 Class EA & PIC No. 1 Summary Report GMBP File No. 621143 August 2022



Figure 1: Study Area



I.2 Class EA Content

The Niagara BMMP study follows Phases 1 and 2 of the Municipal Class EA Process which includes the following:

- Phase 1: Development of the Problem and Opportunity Statement
- Phase 2: Assessment of Alternative Solutions and Selection of the Preferred Solution

The PIC No. 1 event concluded Phase 1 of the Class EA Process. The Problem and Opportunity Statement for the Niagara Region BMMP Plan is defined as follows:

"The purpose of the Biosolids Management Master Plan Update is to develop a holistic, longterm strategy for biosolids management in Niagara in a manner that is transparent, sustainable, reliable, environmentally friendly, cost-effective and flexible."

The PIC No. 1 event also presented the proposed approach for the EA process. This defined the process of identifying alternative solutions for the problem and opportunity statement listed above and provided a long list of alternative strategies for biosolids management in Niagara Region. **Figure 2** displays the Municipal Class EA planning process and design planning process.

Overall, the objectives of PIC 1 were to introduce the study, provide an opportunity for stakeholders to learn about the Region's existing biosolid management program, and receive initial input on proposed long list of alternatives and evaluation criteria.

Region of Niagara Biosolids Management Masterplan Phase 1 Class EA & PIC No. 1 Summary Report GMBP File No. 621143 August 2022

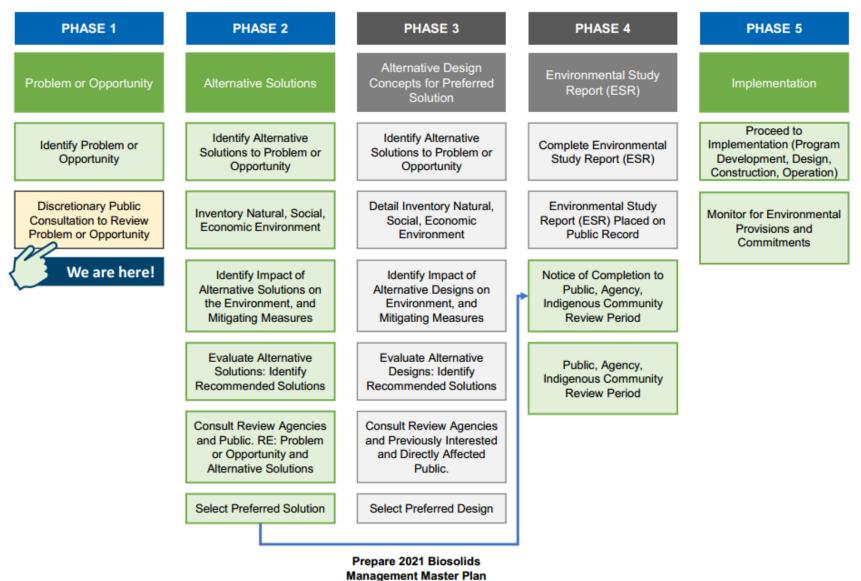


Figure 2: Municipal Class EA Planning and Design Process



2.0 **Project Initiation**

2.1 Public Consultation and Stakeholder Engagement Plan

The Region's approach to communicate and consult with stakeholders is driven by five key considerations.

- Keeping Niagara Region and area municipality councillors and senior management up to date and aware of study progress and findings.
- Undertaking and maintaining the appropriate level of communication with the public and stakeholders.
- Effectively engaging Indigenous Communities.
- Maintaining Niagara's brand and public reputation.
- Meet or exceed MEA Standards for public and stakeholder consultations.

Considering the above factors, the Region's consultation and engagement program aims to offer the following key opportunities:

- Educating the community about biosolids infrastructure and beneficial use.
- Building public and stakeholder understanding and buy-in to support the EA process and the preferred solutions.
- Raising awareness of Region services.
- Building the foundation for future steps in the project including implementation of subsequent studies and designs.

2.2 Mailing List

Early in the study process a mailing list was established. The mailing list included government review agencies, public interest groups, municipalities, Indigenous Communities, utilities and other stakeholders. The list was based on the mailing list established through the Water and Wastewater Master Plan process, input from the Ministry of Environment, Parks and Conservation (MECP), and input from the Region and area municipalities. The mailing list is continually updated through the study as additional interested parties and individuals are identified.

2.3 **Project Website**

A dedicated project website for the 2021BMMP Update has been established and is regularly updated. The site includes notices, information bulletins, and Public Information Centre (PIC) information. <u>www.niagararegion.ca/projects/biosolids-master-plan/</u>. In addition, the Region has established dedicated email address for contact throughout the project: <u>niagarabiosolidsmp@niagararegion.ca</u>.



3.0 Public Information Centre No. I

3.1 Purpose

PIC No. 1 was the first public event for this study. Due to the COVID-19 health situation, PIC No.1 was held virtually from June 8-22, 2022 and presented the following information:

- Introduced the study (including background)
- Described the Class EA process
- Identified the problem and opportunity statement
- Presented biosolids servicing alternatives being considered; and
- Evaluation approach that will be used to select the short list of recommended strategies to be developed.
- Received public input and answer any questions.

The public review material included a presentation with voice-over, interactive mapping (Story Map), and an AODA compliant pdf summary of all presented information to illustrate the problem opportunity statement, study area conditions, detailed Class EA evaluation process, long list of alternatives being considered and overview of the draft detailed evaluation methodology and criteria.

3.2 Notice of Study Commencement and PIC No. I

Stakeholders and the public were informed by local newspaper advertisements, mail and or email (study contact list), and through the Region of Niagara website.

For a copy of the Notice of Study Commencement/ PIC No. 1, please refer to Appendix A.

3.2.1 Newspaper Advertisements

The Study Commencement and PIC No. 1 Notice was published in local area newspapers which included the following:

- Standard Review Tribune Saturday May 28, 2022
- The Voice Wednesday June 1, 2022
- The Niagara On the Lake Local Wednesday June 1, 2022
- New Now Thursday June 2, 2022
- The Lake Report Thursday June 2, 2022

3.2.2 Online Advertisements

This notice was also posted to the Niagara Region website and the Project website. The website includes details for members of the public to sign up in order to stay involved through this study and receive future study notifications.

3.2.3 Contact List Mailout

The Notice of Commencement/PIC No. 1 was mailed and/or emailed to local government, review agencies, Indigenous Communities, and other stakeholders on May 25, 2022.

Notification was sent to the following groups:

Provincial

- Ministry of the Environment, Conservation and Parks
- Ministry of Northern Development, Mines, Natural Resources and Forestry
- Infrastructure Ontario
- Ministry of Agriculture, Food and Rural Affairs
- Ministry of Economic Development, Employment and Infrastructure
- Ministry of Infrastructure
- Ministry of Municipal Affairs and Housing
- Ministry of Heritage, Sport, Tourism and Culture
- Ministry of Transportation
- Niagara Parks Commission
- Ontario Provincial Police
- Peace Bridge Authority
- Ministry of the Attorney General, Aboriginal Justice Division
- Ministry of Indigenous Affairs

Conservation Authorities

• Niagara Peninsula Conservation Authority

Federal

- Canadian Section, International Niagara
 Board of Control
- Canadian Environmental Assessment
 Agency
- Department of Fisheries and Oceans Canada
- Department of Environment and Climate Change Canada
- Department of Indigenous and Northern Affairs Canada
- Federal Economic Development Agency for Southern Ontario
- Health Canada
- Transport Canada
- Canadian Food Inspection Agency

Indigenous Communities

- Mississaugas of the Credit First Nation
- Six Nations of the Grand River
- Haudenosaunee Confederacy Chiefs Council
- Assembly of First Nations
- Association of Iroquois and Allied Indians
- Metis Nation of Ontario
- Niagara Region Metis Council
- Fort Erie Native Friendship Centre
- Niagara Regional Native Centre



Rail and Transit

- CN Rail
- CP Rail
- GO Transit/Metrolinx
- TransCanada Pipelines

School Boards and Interest Groups

- Conseil Scolaire Viamode
- Conseil Scolaire Catholique MonAvenir
- District School Board of Niagara
- Canadian Section, International Niagara
 Board of Control
- Friends of the Greenbelt
- Greater Niagara Chamber of Commerce
- Lundy's Lane BIA
- Niagara Catholic District School Board
- Niagara College
- Niagara Emergency Medical Services
- Niagara Health
- Niagara Home Builders Association
- Niagara Regional Police
- Ontario Realty Corporation
- Ontario Wine Country

3.3 **PIC No. I Meeting Details**

The virtual PIC No. 1 was held from June 8 - 22, 2022. The PIC No. 1 materials were available for public comment via the study website.

Third Party Biosolids Contractors and End Users

- Walker Industries
- Thomas Nutrient Solutions

Ontario Federation of Agriculture

Utilities

- Bell Canada
- Canadian Niagara Power Inc.
- Canadian Automobile Association South Central Ontario
- Cogeco Cable Hamilton/Niagara
- Cogeco Cable Niagara
- Enbridge Gas Inc.
- Enbridge Pipelines Inc.
- Grimsby Power Incorporated
- Hydro One Networks
- Niagara-on-the-Lake Hydro
- Niagara Peninsula Energy Inc.
- Niagara Region Broadband Networks
- Ontario Power Generation
- Telus
- Welland Hydro Electric System Corporation



3.4 **PIC No. I Display Material**

The information presented on the PIC No. 1 video presentation slides and interactive mapping (ESRI Story Maps) included:

- Project Introduction
- Project Approach
- PIC Objectives
- Study Area
- Existing Biosolids Management System
- Evaluation Approach
- Project Schedule
- How to Get Involved

A copy of the PIC No. 1 presentation material is provided in Appendix B.

3.5 Online Survey

Recipients of the PIC No. 1 notice were encouraged to complete an online survey regarding the proposed evaluation approach for the biosolid management alternatives.

The survey included the following questions/comments:

- Do you have any comments regarding the Problem/Opportunity Statement?
- Do you have any comments on or addition to the long list of alternatives treatment technologies and end-use markets?
- Do you have any comments on the screening criteria and detailed evaluation criteria?
- Ranking of most important criteria including minimizing impact to natural environment, limiting disruptions to the public, ease of approvals and permits, minimizing costs, ensuring a sustainable solution that performs well.
- Provide additional criteria that you consider important if not listed above
- Opportunity to provide additional questions or comments
- Opportunity to be added to the stakeholder list

A copy of the survey is provided in Appendix C.

3.6 **PIC No. I Attendance**

During the two (2)-week engagement period, the video presentation received 45 views.

3.7 PIC No. I Comments Received and Region's Responses

Attendees were encouraged to provide comments related to Class EA in writing through the project website during the two-week comment period. Comments were accepted through the project website, by phone, email and/or mailed letters. These comments were then reviewed and considered by the Project Team to inform the decision-making process.

A summary of the comments received is provided in the table below. A one-page event summary was posted to the project website to demonstrate engagement as provided in Appendix D.

No.	PIC No. 1 Comments/Questions Received	Project Team Response
1	Multiple public stakeholders signed-up to be on the mailing list and receive future project notices	All individuals interested in the study have been added to the mailing list to receive study information.
2	Requested consideration for reduced truck traffic related to biosolids hauling through the community of Cooks Mills	The Region staff followed-up with Thomas Nutrient Solutions to continue to implement measures to mitigate the impacts of trucks transferring biosolids to agricultural fields. Thomas Nutrient Solutions are the third party contractor responsible for coordinating beneficial land application of biosolids. In addition, as part of this 2021 Biosolids Management Master Plan Update the Region is exploring opportunities to optimize biosolids management in the Region, including a review of biosolids hauling operations.
3	Enbridge provided approximate locations of pipeline infrastructure within the Study Area	Information provided by Enbridge will be considered in the assessment of alternatives, and the development of the preferred strategy. The Region will work with continue to work with Enbridge to mitigate and control potential impacts associated with Regional infrastructure works on pipelines.
4	Received notification from Niagara Escarpment Commission (NEC) that the Queenston WWTP and Decew Falls WTP fall within the Niagara Escarpment Plan Area and Area of Development Control and the NEC would like to be involved in the study.	NEC is a major stakeholder and will continue to be involved throughout the study process.



4.0 Next Steps

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

- Consider comments and input received into the Class EA process,
- Continue to work with review agencies and interested stakeholders,
- Prepare and advertise for Public Information Centre No. 2, and
- Continue to collect comments and input for consideration in the Class EA process.

APPENDIX A: Notice of Study Commencement and PIC No. 1



Notice of Study Commencement and Public Information Centre No. 1

Biosolids Management Master Plan Update

Niagara Region completed a Biosolids Management Master Plan in 2010 to ensure a long-term, environmentally sustainable, reliable and cost effective biosolids management program for Niagara Region and its citizens. This update to the plan will identify and develop a strategy for meeting Niagara's biosolids treatment needs to the year 2051, in a manner that is transparent, sustainable, reliable, environmentally friendly, cost effective and flexible.

The Biosolids Management Master Plan will be developed to:

- Meet the unique needs of Niagara Region and its customers, including treatment requirements, land uses and users, and environmental features
- Meet future needs associated with population growth, new regulations, climate resiliency, and energy efficiency
- Provide greater flexibility and reliability for biosolids management, both in the short term (i.e., 5 years) and long term (to the year 2051)



- · Improve biosolids marketability; and
- Address community expectations regarding level of service, odour, air/noise, water quality, protection of the environment and aesthetics

The Process

The Study follows the master planning process as established by the Municipal

Engineer's Association Class Environmental Assessment process for Master Plans, which is an approved Ontario Environmental Assessment process. The Biosolids Management Master Plan Update will satisfy Phases 1 and 2 of the Class Environmental Assessment process. Public and stakeholder input will be sought throughout the process, and a Biosolids Management Master Plan Update Report will be prepared and filed for public review.



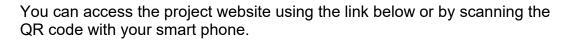


Get Involved

Public feedback is an important part of the process. Information about the project will be available on Niagara Region's website as part of Public Information Centre No. 1. You can learn about the project, strategies being considered and how you can have your voice heard.

Public Information Centre No. 1 Details

Information about the Biosolids Management Master Plan will be made available on the project website beginning **Wednesday**, **June 8**, **2022**. This will be followed with a two-week period to submit Public Information Centre No. 1 related comments to the Project Team.



niagararegion.ca/projects/biosolids-master-plan

If you have questions, comments or wish to be added to the study mailing list, please contact:

Albert Succi, Senior Project Manager Water & Wastewater Engineering Niagara Region 3501 Schmon Pkwy., PO Box 1042 Thorold, ON L2V 4T7 905-980-6000 ext. 3308 Toll-free: 1-800-263-7215 Fax: 905-685-5205 niagarabiosolidsmp@niagararegion.ca

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of 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.

If you require any accommodations in order to participate, please let us know in advance so that arrangements can be made in a timely manner. Special accessibility accommodations and materials in alternate formats can be arranged by contacting the Niagara Region's Accessibility Advisory Coordinator at 905-980-6000 ext. 3252 or **accessibility@niagararegion.ca**.



APPENDIX B: PIC No. 1 Material



2021 Biosolids Management Master Plan Update

Welcome to Virtual Public Information Centre No. 1

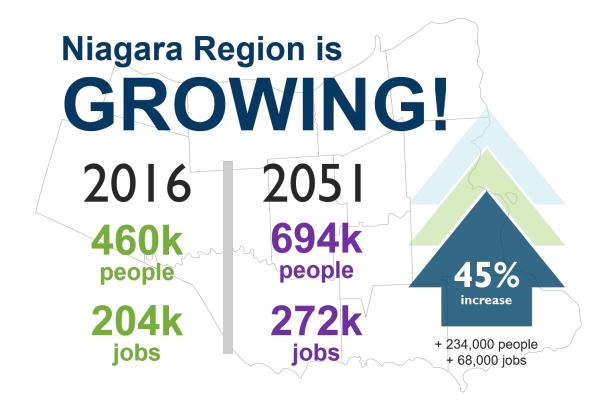
This document is provided as an alternative format that is originally hosted using ESRI StoryMaps. It is provided for those who may not have the compatible browser to view the original virtual public information materials online.

Project Introduction

The Niagara Region is undertaking a region-wide Biosolid Management Master Plan (BMMP) Update for the future management of biosolids from each of the Region's water and wastewater treatment plants.

As Niagara Region continues to grow, we need to make sure that we plan our infrastructure and services in order to meet increasing demands. More people means more wastewater, which also means more biosolids and a higher demand for treatment and management of these materials. This project will also build upon the recommendations in the 2010 BMMP, by considering regulatory and environmental changes since its implementation.

The 2021 Biosolids Management Master Plan (BMMP) Update will follow the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for Master Plans and will satisfy Phases 1 and 2 of the Class EA process.



What are Biosolids?

Biosolids are the organic materials resulting from the physical, chemical and biological treatment of sewage sludge generated at wastewater treatment plants.

Biosolids have many potential beneficial uses such as land application on agricultural lands, landscaping needs, and golf courses. The Region's biosolids are currently land applied throughout Niagara Region.

The Region's biosolids also incorporate residuals from water treatment.



Project Approach

Problem and Opportunity Statement

This project is following the Class Environmental Assessment (EA) process for Master Plan Projects, which is a decision-making process that all Ontario municipalities follow for rehabilitating and building new infrastructure. The 2021 BMMP follows the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for Master Plans and will satisfy Phases 1 and 2 of the Class EA process.

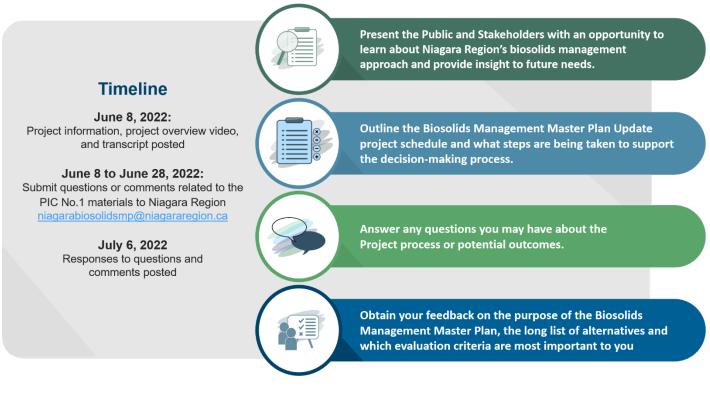
The purpose of the Biosolids Management Master Plan Update is to develop a holistic, long-term strategy for biosolids management in Niagara in a manner that is transparent, sustainable, reliable, environmentally friendly, cost-effective and flexible.

PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5
Problem or Opportunity	Alternative Solutions	Alternative Design Concepts for Preferred Solution	Environmental Study Report (ESR)	Implementation
ldentify Problem or Opportunity	Identify Alternative Solutions to Problem or Opportunity	Identify Alternative Solutions to Problem or Opportunity	Complete Environmental Study Report (ESR)	Complete Contract Drawings and Tender Documents
Discretionary Public Consultation to Review Problem or Opportunity	Inventory Natural, Social, Economic Environment	Detail Inventory Natural, Social, Economic Environment	Environmental Study Report (ESR) Placed on Public Record	Proceed to Construction and Operation
We are here!	Identify Impact of Alternative Solutions on the Environment, and Mitigating Measures	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 MOE-EA Branch	
	Consult Review Agencies and Public. RE: Problem or Opportunity and Alternative Solutions	Consult Review Agencies and Previously Interested and Directly Affected Public.	Opportunity to Request Minister Within 30 Days of Notification to Request and Order*	
	Select Preferred Solution	Select Preferred Design		
		Preliminary Finalization of Preferred Design		

The objectives of this study are to:

- Document the status of the existing biosolids management program at each wastewater treatment plant (WWTP), in terms of process capacity, availability and reliability.
- Document the status of the existing program at Garner Road Biosolids Facility, in terms of process capacity, availability and reliability.
- Identify the limitations in the existing programs with consideration for the opportunities and constraints related to the future management of biosolids.
- Complete a comprehensive review of a broad range of biosolids management options available locally and globally and identify those feasible for each facility.
- Evaluate and select preferred options for each facility and the Region's operations as a whole.
- Identify, evaluate and recommend preferred biosolids management methods.

Public Information Centre (PIC) Objectives



- 1. Present the public and stakeholders with an opportunity to learn about Niagara Region's biosolids management approach and provide insight to future needs.
- 2. Outline the Biosolids Management Master Plan Update project schedule and what steps are being taken to support the decision-making process.
- 3. Answer any questions you may have about the project process or potential outcomes.
- 4. Obtain your feedback on the purpose of the Biosolids Management Master Plan, the long list of alternatives and which evaluation criteria are most important to you.

Questions and comments can be submitted to <u>niagarabmmp@niagararegion.ca</u> until June 28, 2022.

Submit Questions or Comments

Study Area

The 2021 Biosolids Management Master Plan Update is applicable to all wastewater treatment plants and water treatment plants in Grimsby, West Lincoln, Lincoln, St. Catharines, Thorold, Welland, Pelham, Port Colborne, Niagara-on-the-Lake, Niagara Falls, and Fort Erie.

*Although Wainfleet does not have wastewater or water treatment (uses septic tanks and wells), biosolids are utilized on agricultural lands in Wainfleet as well as other area municipalities.

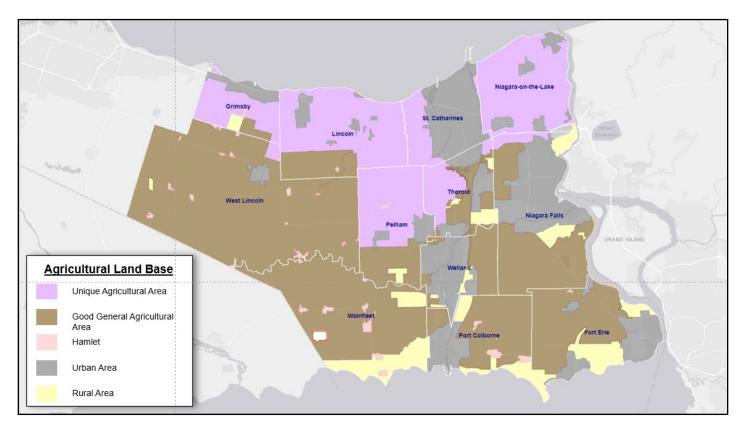


Niagara Region Official Plan Agricultural Land Base

The Region consists of roughly 74% agricultural land use.

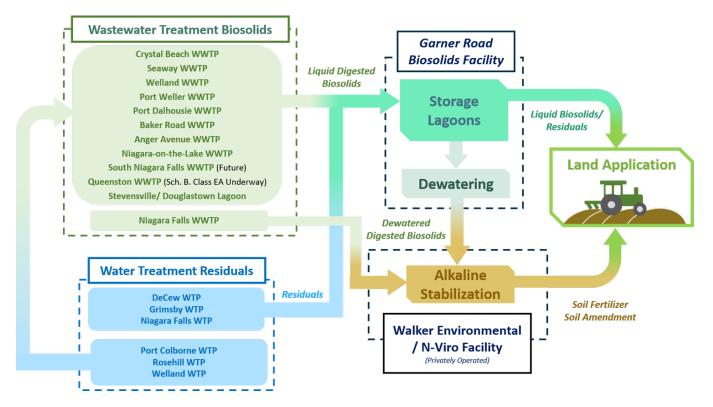
- ~51% or 96,452 hectares is categorized as Good General Agricultural Area
- ~23% or 43,542 hectares falls under Unique Agricultural Area

The agricultural industry presents the greatest potential end use market for biosolid management byproducts.



Existing Biosolids Management System

Overall, water treatment residuals and wastewater treatment biosolids are processed at the Garner Road Biosolids Facility, Walker Environmental N-Viro Facility, or both, before being converted into a product appropriate for land application in the form of fertilizer or liquid biosolids.



Wastewater Treatment Biosolids

Liquid biosolids from the Region's wastewater treatment plants (WWTPs) are transferred to the Garner Road Biosolids Facility storage lagoons. The biosolids may then be used directly for land applications as liquid biosolids or dewatered to create a biosolids cake product. Dewatered biosolids from the Garner Road Biosolids Facility and Niagara Falls WWTP are hauled to the Walker Environmental Facility that uses the N-Viro alkaline stabilization process to create soil amendment that is sold as a fertilizer.

Water Treatment Residuals

Residuals from the Decew Water Treatment Plant (WTP), Grimsby WTP, and Niagara Falls WTP are hauled to the Garner Road Biosolid Facility where they are mixed with liquid biosolids from the Region's WWTPs. Water residuals from Port Colborne WTP, Rosehill WTP, and Welland WTP are discharged to the sanitary sewer system for treatment through the Region's WWTPs.

Exiting Beneficial Use Program

Liquid Biosolids Management



Liquid biosolids and residuals (~50% of biosolids produced in Niagara Region) are:

- 1. Hauled to the Garner Road Biosolids Facility by Third Party Contractor (Thomas Nutrient Solutions),
- 2. Stored and thickened in lagoons at the Garner Road Biosolids Facility,
- 3. Hauled away and applied as a liquid fertilizer to agricultural land by Third Party Contractor (Thomas Nutrient Solution)

Dewatered Biosolids Management

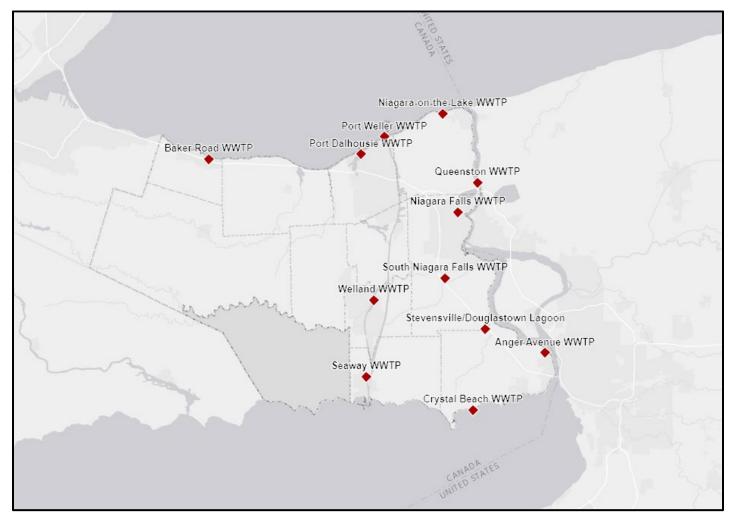


Dewatered biosolids from the Garner Road Biosolids Facility and Niagara Falls WWTP (~50% of biosolids produced in Niagara Region) are:

- 1. Hauled to the Walker Environmental Facility in Niagara Falls,
- 2. Treated using alkaline stabilization (N-Viro process) to produce a high solids, nutrient rich product,
- 3. Hauled away and applied as a solid cake fertilizer to agricultural land by Third Party Contractor.

Wastewater System Existing Conditions and Future Needs

Region Wide



Grimsby



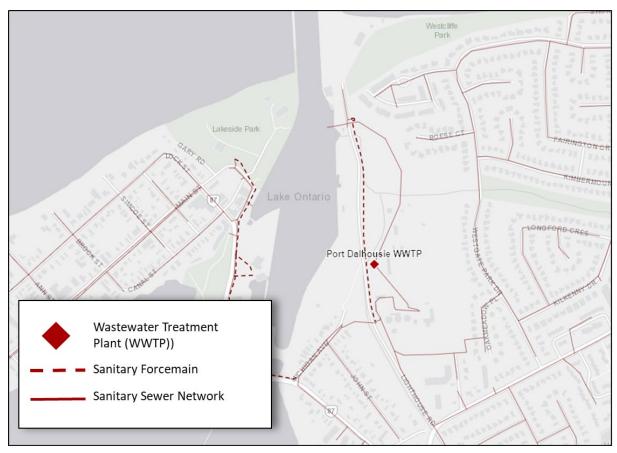


- Address: 160 Lake St, Grimsby, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 19.4
- Current Facility Capacity (MLD): 31.3
- Estimated Future Flow to 2051 (MLD): 35.82
- Existing Solids Management Process: Anaerobic digestion and storage
- Planned and Required Biosolids Upgrades by 2051: Digestor capacity upgrades



St. Catharines





- Address:40 Lighthouse Rd, St. Catharines, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 34.5
- Current Facility Capacity (MLD): 61.4
- Estimated Future Flow to 2051 (MLD): 45.49
- Existing Solids Management Process: Anaerobic digestion and storage
- Planned and Required Biosolids Upgrades by 2051: Upgrade primary digestion capacity



Port Weller Wastewater Treatment Plant

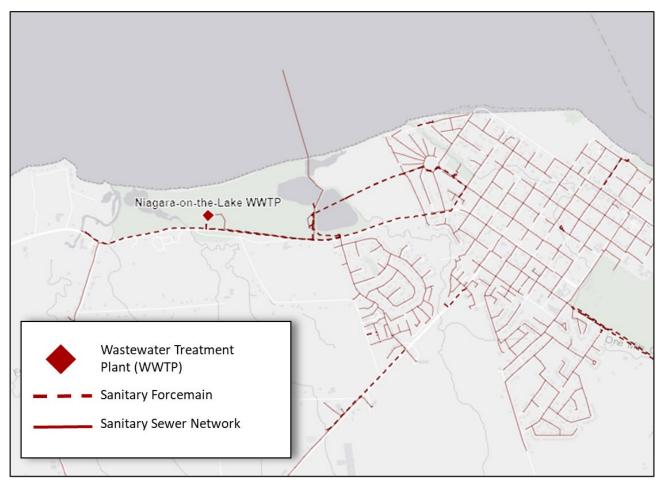
		Port Weller East Park
BE CONTRACTOR	Port Weller WWTP	RUNCORN
Wastewater Treatment Plant (WWTP)	ENAVE	WELLAN
🗕 🗕 🗕 Sanitary Forcemain	DURHAM DR	DCAN
Sanitary Sewer Network	Y TRL	WELLAND CANNES PROM

- Address: 27 Lombardy Ave, St. Catharines, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 35.6
- Current Facility Capacity (MLD): 56.2
- Estimated Future Flow to 2051 (MLD): 39.09
- Existing Solids Management Process: Anaerobic digestion
- Planned and Required Biosolids Upgrades by 2051: Upgrade primary digestion capacity



Niagara-on-the-Lake

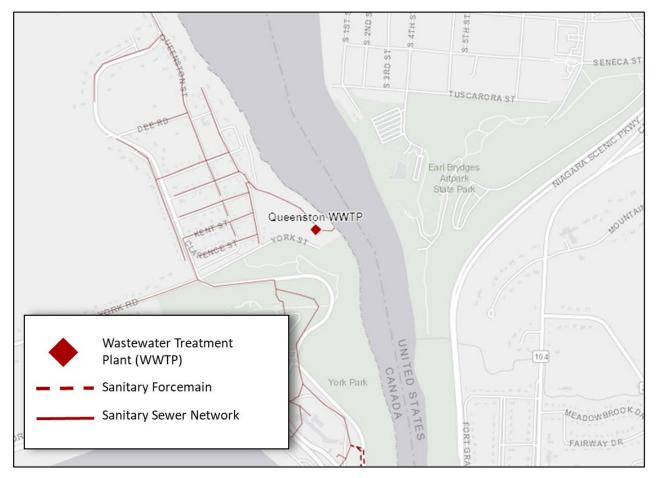




- Address: 1550 Lakeshore Road, Niagara on-the-Lake, Ontario
- Historical Flow, 2017-2021 (megalitres per day, MLD): 4.6
- Current Facility Capacity (MLD): 8.0
- Estimated Future Flow to 2051 (MLD): 5.37
- Existing Solids Management Process: Thickening and Anaerobic Digestion
- Planned and Required Biosolids Upgrades by 2051: Increase sludge equalization storage capacity and thickening capacity



Queenston Wastewater Treatment Plant



- Address: 5 River Frontage Road, Queenston, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 0.17
- Current Facility Capacity (MLD): 0.5
- Estimated Future Flow to 2051 (MLD): 0.23
- Existing Solids Management Process: Storage of waste activated sludge
- **Planned and Required Biosolids Upgrades by 2051:** Currently under Schedule B Class Environmental Assessment review.



Niagara Falls

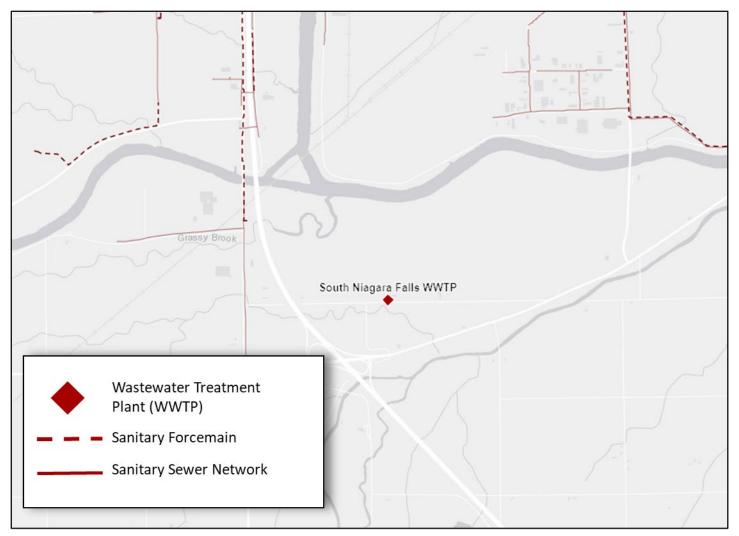
Niagara Falls Wastewater Treatment Plant



- Address: 3450 Stanley Avenue, Niagara Falls, Ontario
- Historical Flow, 2017-2021 (megalitres per day, MLD): 39.6
- Current Facility Capacity (MLD): 68.3
- Estimated Future Flow to 2051 (MLD): 37.75
- Existing Solids Management Process: Anaerobic Digestion, Storage and Dewatering
- Planned and Required Biosolids Upgrades by 2051:



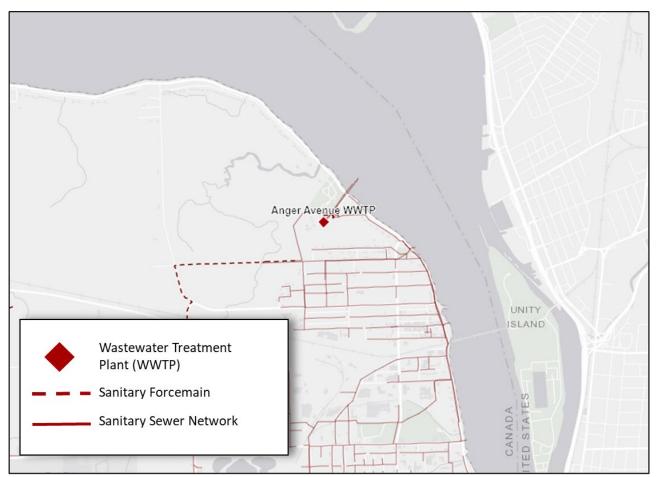
South Niagara Falls Wastewater Treatment Plant



- Address: To be determined.
- Historical Flow, 2017-2021 (megalitres per day, MLD): Not applicable.
- Current Facility Capacity (MLD): 60.0
- Estimated Future Flow to 2051 (MLD): 31.34
- Existing Solids Management Process: Anaerobic Digestion
- Planned and Required Biosolids Upgrades by 2051: None future plant not yet constructed.

Fort Erie





- Address: 1 Anger Avenue, Fort Erie, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 14.2
- Current Facility Capacity (MLD): 24.5
- Estimated Future Flow to 2051 (MLD): 18.07
- Existing Solids Management Process: Thickening, Anaerobic Digestion and Storage
- Planned and Required Biosolids Upgrades by 2051: (1) Add redundancy for thickening equipment and (2) Upgrade digestor capacity.



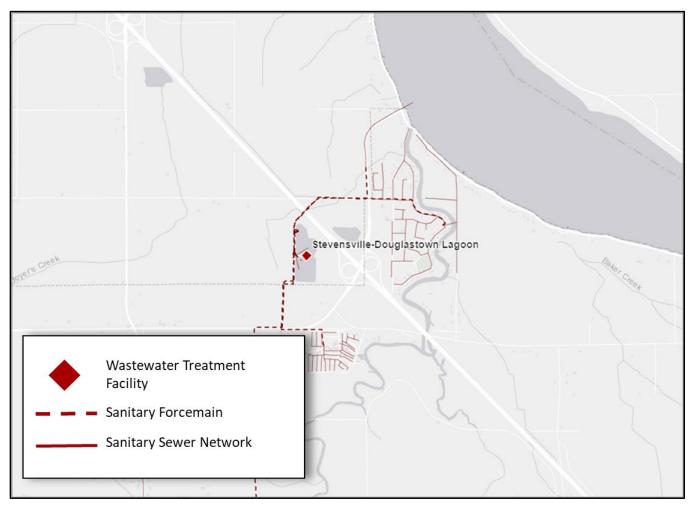
Crystal Beach Wastewater Treatment Plant



- Address: 500 Ridgeway Road, Fort Erie, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 5.7
- Current Facility Capacity (MLD): 9.1
- Estimated Future Flow to 2051 (MLD): 6.56
- Existing Solids Management Process: Thickening, Aerobic Digestion and Storage
- Planned and Required Biosolids Upgrades by 2051: (1) Add thickening capacity; (2) Improved sludge storage



Stevensville-Douglastown Lagoons

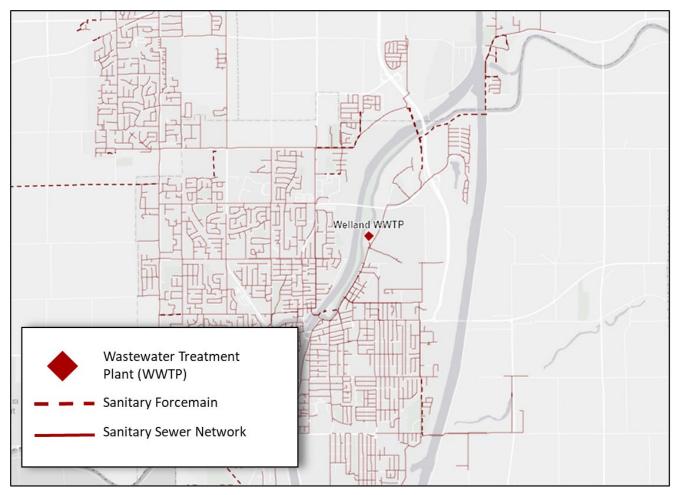


- Address: 3274 Netherby Road, Fort Erie, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 1.6
- Current Facility Capacity (MLD): 2.7
- Estimated Future Flow to 2051 (MLD): 2.45
- Existing Solids Management Process: Facultative lagoon system, with biosolids settling to the bottom of the secondary lagoon.
- Planned and Required Upgrades by 2051: No biosolids upgrades.



Welland

Welland Wastewater Treatment Plant

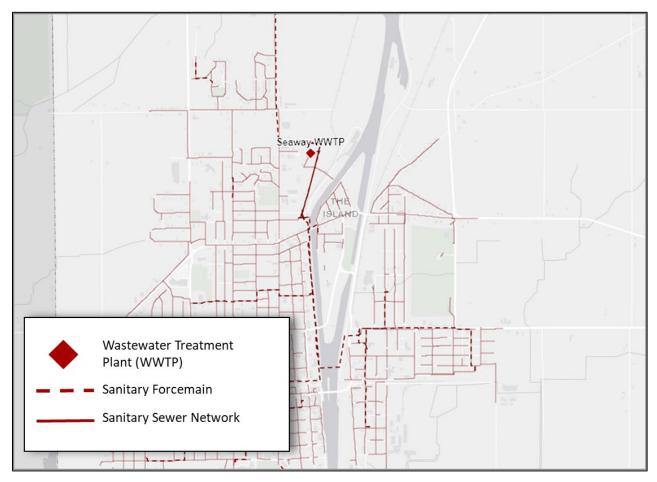


- Address: 505 River Road, RR#1, Welland, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 35.1
- Current Facility Capacity (MLD): 54.6
- Estimated Future Flow to 2051 (MLD): 48.87
- Existing Solids Management Process: Anaerobic digestion and storage
- Planned and Required Biosolids Upgrades by 2051: Digester upgrades



Port Colborne

Seaway Wastewater Treatment Plant

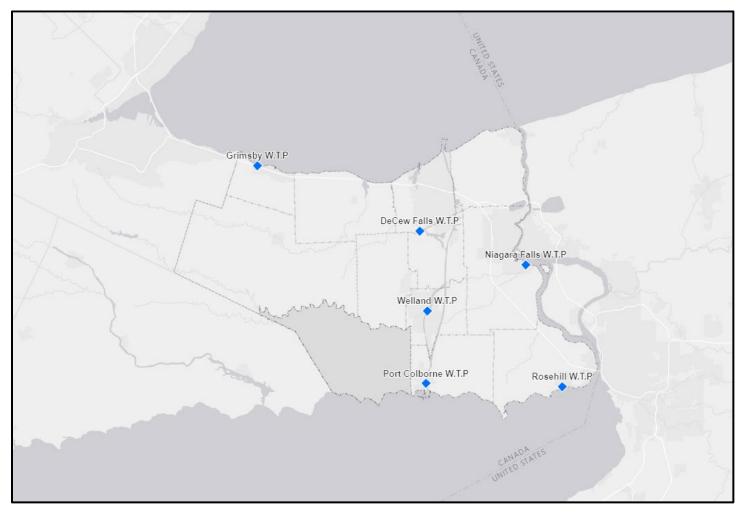


- Address: 30 Prosperity Avenue, Port Colborne, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 12.0
- Current Facility Capacity (MLD): 19.6
- Estimated Future Flow to 2051 (MLD): 13.44
- Existing Solids Management Process: Anaerobic digester and storage
- **Planned and Required Biosolids Upgrades by 2051:** No biosolids capacity upgrades are planned or expected to be required. Opportunities to increase the operational flexibility of the storage facility may be considered.



Existing Water Treatment Plants

Region Wide



Grimsby

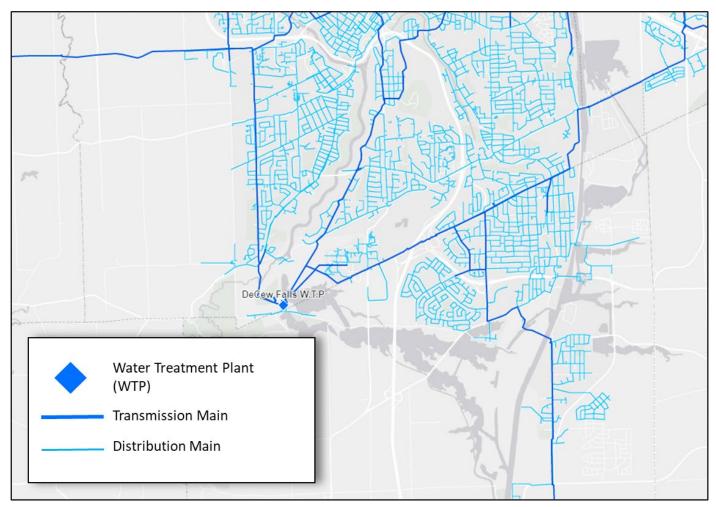
Grimsby Water Treatment Plant



- Address: 400 N Service Rd West, Grimsby, ON
- Current Facility Capacity (megalitres per day, MLD): 44.0
- Estimated Future Flow to 2051 (MLD): 25.0
- Existing Residuals Management Process: Thickened and transferred to Garner Road Biosolids Facility
- Planned and Required Residuals Upgrades by 2051: Increase sludge holding tank capacity.

St. Catharines

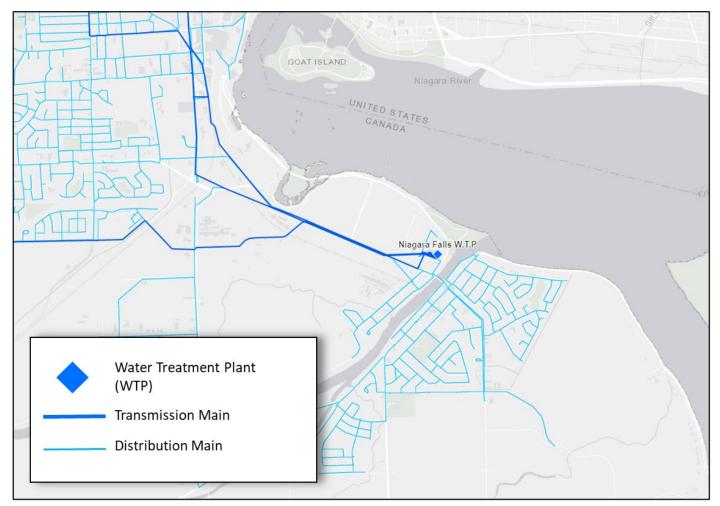
Decew Falls Water Treatment Plant



- Address: 2700 DeCew Rd, St. Catharines, ON
- Current Facility Capacity (megalitres per day, MLD): 227.0
- Estimated Future Flow to 2051 (MLD): 68.0
- Existing Residuals Management Process: Thickened and transferred to Garner Road Biosolids Facility
- Planned and Required Residuals Upgrades by 2051: Increase sludge holding tank capacity.

Niagara Falls

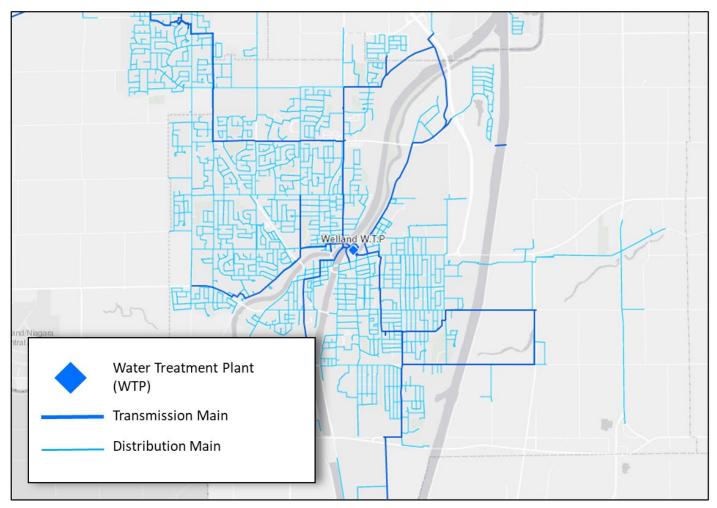
Niagara Falls Water Treatment Plant



- Address: 3599 Macklem St, Niagara Falls, ON
- Current Facility Capacity (megalitres per day, MLD): 145.0
- Estimated Future Flow to 2051 (MLD): 55.0
- Existing Residuals Management Process: Thickened and transferred to Garner Road Biosolids Facility
- Planned and Required Residuals Upgrades by 2051: No expansion needed.

Welland

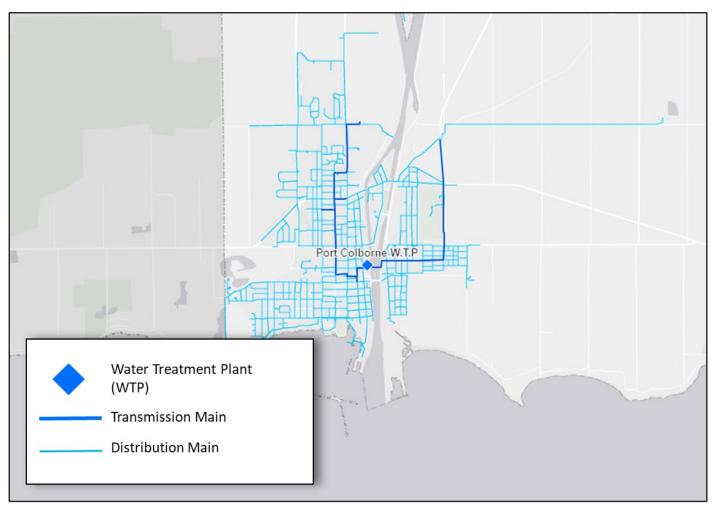
Welland Water Treatment Plant



- Address: 4 Cross St, Welland, Ontario
- Current Facility Capacity (megalitres per day, MLD): 65.0
- Estimated Future Flow to 2051 (MLD): 34.0
- Existing Residuals Management Process: Discharged to sanitary sewer
- Planned and Required Residuals Upgrades by 2051: No expansion needed

Port Colborne

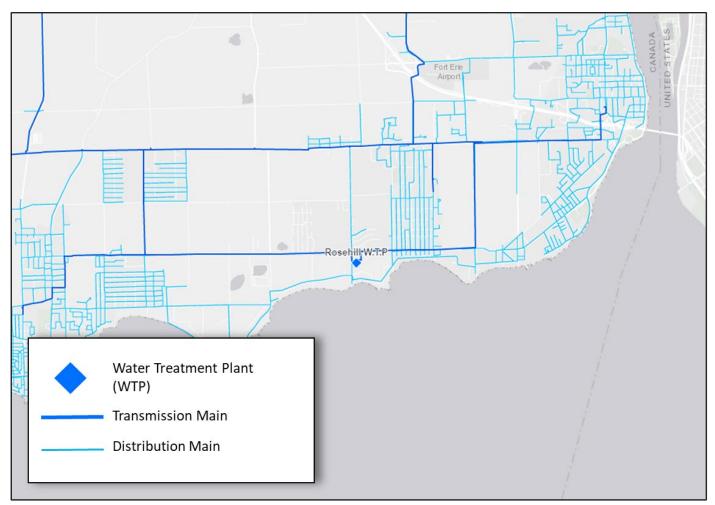
Port Colborne Water Treatment Plant



- Address: 323 King St, Port Colborne, ON
- Current Facility Capacity (megalitres per day, MLD): 50.0
- Estimated Future Flow to 2051 (MLD): 15.0
- Existing Residuals Management Process: Discharged to the sanitary sewer.
- Planned and Required Residuals Upgrades by 2051: No expansion needed.

Fort Erie

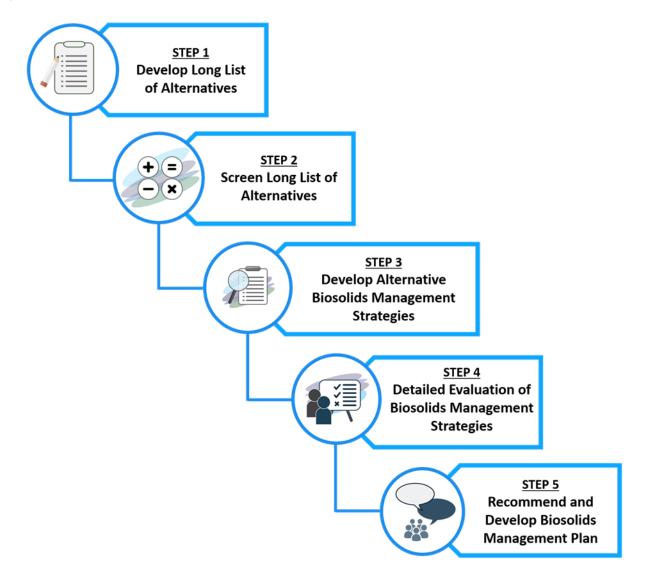
Rosehill Water Treatment Plant



- Address: 300 Rosehill Road, Fort Erie, Ontario
- Current Facility Capacity (megalitres per day, MLD): 50.0
- Estimated Future Flow to 2051 (MLD): 15.0
- Existing Residuals Management Process: Discharged to sanitary sewer.
- Planned and Required Residuals Upgrades by 2051: No expansion needed.

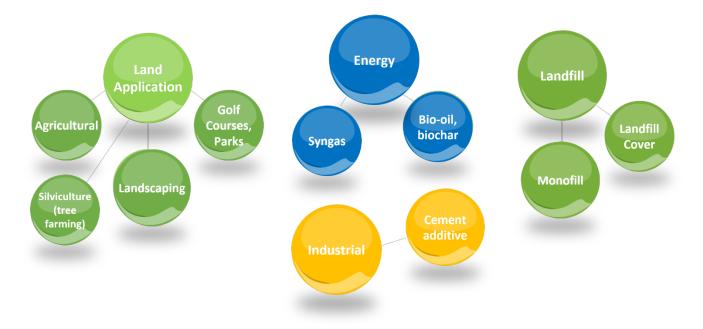
Evaluation Approach

Long List of Biosolids End Use Markets



- 1. Develop Long List of (a) Alternative Treatment Technologies and (b) Alternative End-Use Markets.
- 2. Screen each Long List of Alternatives based on "Must-Have" criteria.
- 3. Develop Alternative Biosolids Management Strategies that combine screened list of technologies, and end use markets.
- 4. Complete Detailed Evaluation of the Biosolid Management Strategies.
- 5. Recommend and Develop the Biosolid Management Plan to include potential Sewer-Use By-Law changes, infrastructure and/or operational requirements at each wastewater treatment plant, water treatment plant and the Garner Road Biosolids Facility, service delivery options, implementation program and schedule, and contingency planning.

Long List of Biosolids End Use Markets



Four potential end use markets of biosolids are:

- 1. **Land Application:** agriculture, silviculture (tree farming), recreational (golf courses, parks), landscaping
- 2. Energy: syngas, bio-oil, biochar
- 3. Industrial: cement additive
- 4. Landfill: monofil, landfill cover

Long List of Biosolids Treatment Technologies

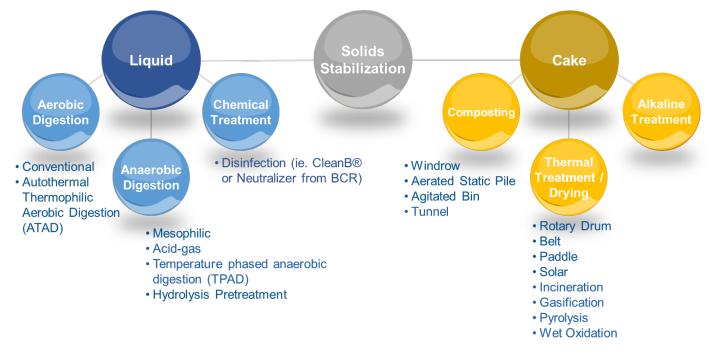
Different technologies can be used to stabilize the biosolids, depending on whether biosolids are in the form of liquid or cake.

Liquid biosolids can be further processed through aerobic digestion, anaerobic digestion or chemical treatment.

- Aerobic digestion technologies include conventional aerobic digestion or Autothermal Thermophilic Aerobic Digestion (ATAD).
- Anaerobic digestion technologies considered include hydrolysis, pre-treatment, acid-gas, mesophilic, and temperature-phased anaerobic digestion (TPAD).
- Chemical treatment using disinfection technologies, such as Clean B[©] or BRC Solids Solutions' Neutralizer[®].

Biosolid Cake, produced from dewatering of liquid biosolids, can be treated through composting, thermal treatment/drying or alkaline treatment.

- Composting of biosolid cake through windrow composting, aerated static pile, agitated bin or tunnel composting.
- Thermal treatment and thermal drying can be conducted in rotary drums, on a belt, using paddles or solar technology, incineration, gasification, pyrolysis, or wet oxidation.
- Alkaline stabilization on sludge using lime (e.g. N-Viro© process).



Screening Criteria for Long List of Alternatives

The long list of alternative treatment technologies, products and end use markets were evaluated against "must-have" screening criteria:

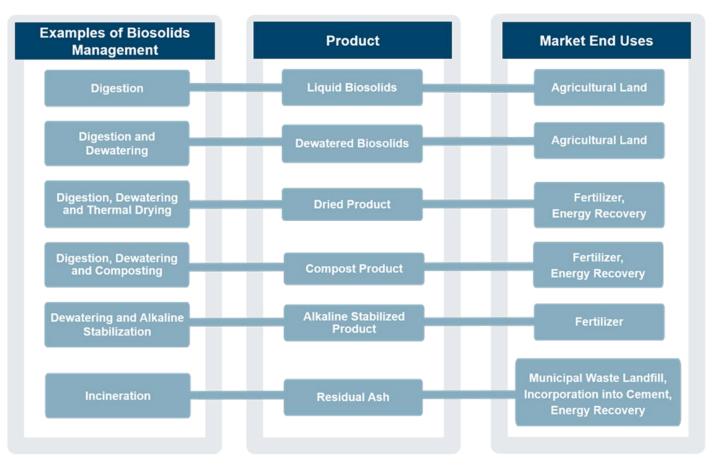
- Maturity of the Technology and Market Availability
- Compatibility with Existing Water and Wastewater Treatment Process and Biosolids Management Programs and Contracts
- Long-term Reliability and Sustainability
- Implementable

Based on the results of screening the long list of technologies and end use markets, biosolids management strategies will be developed.



Examples of biosolids management strategies:

- Digestion producing liquid biosolids suitable for agricultural land use;
- Digestion and Dewatering producing biosolids cake for agricultural land use;
- **Digestion, Dewatering and Thermal Drying** producing a dried product that may be used as fertilizer or for energy recovery
- **Digestion, Dewatering and Composting** producing a compost product that may be used as fertilizer or for energy recovery
- Dewatering and Alkaline Stabilization creates an alkaline stabilized product to be used for fertilizer
- **Incineration** results in residual ash that can be incorporated into cement, used for energy recovery, or deposited into a municipal waste landfill



Draft Detailed Evaluation Criteria

A draft list of detailed evaluation criteria for assessing each biosolids management strategy has been developed to reflect each component of the environment.

- 1. Natural Environment
- 2. Socio-Cultural Environment
- 3. Technical Considerations
- 4. Economic Considerations

Natural Environment

- Terrestrial Systems
- Aquatic Systems
- Surface and Groundwater Quality and Source Water Protection
 Air Quality /Greenhouse Gas
- Emissions

- Technical Considerations
- Performance
- Sustainability / resiliencyEase of Operation
- Compatibility with existing
- infrastructure
- Energy use and recovery
- Climate change adaptability
- Permits and Approvals

Socio-Cultural Environment

- Odour
- Noise/Vibrations
- Visual/Aesthetics
- Truck Traffic
- Agricultural Use and Users
- Human health and well beingExisting and Future Land Use
- Compatibility
- Archaeology / Cultural Heritage





Economic Considerations

- Capital Cost
- Operating and Maintenance Cost
- Life Cycle Costs



Project Schedule



Key Dates

- June 8 to June 28, 2022: Submit questions and comments to Niagara Region
- July 6, 2022: Responses to questions and comments posted on the Niagara Region website.
- **November 2022:** Virtual PIC No. 2 assessment of alternatives and recommended biosolids management strategy.
- Early 2023: Biosolids Management Master Plan Update filed for 30-Day public review.

Get Involved

Public feedback is important. Sign-up to be added to the study contact list and submit any questions or comments to the Project Team. You may also submit comments at the link below, including feedback on the long list of alternatives and the evaluation criteria most important to you.

Sign-Up for Project Updates

Provide Feedback

We encourage you to get provide feedback by filling out <u>this survey</u> by June 28, 2022 to provide any feedback on the study and/or if you would like to receive project information updates. Responses to all comments received will be posted on July 6, 2022. Please click "Project Survey Form" button to access.

Project Survey Form

Contact Us

niagarabiosolidsmp@niagararegion.ca 1815 Sir Isaac Brock Way, Thorold, ON, L2V 4T7

- Albert Succi, Project Manager, Niagara Region
- Laurie Boyce, Strategic Planning and Project Advisor, GM BluePlan Engineering Limited

Privacy and Accessibility

The Niagara Region is committed to ensuring that persons of all abilities are able to access our programs and services without encountering barriers. If you require additional or other formats for communicating, <u>contact Niagara Region</u> to make arrangements.

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 related will become part of the public record and may be included in the study documentation prepared for public review.

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APPENDIX C: PIC No. 1 Online Survey

PIC No.1 Biosolids Master Plan Update

Public Information Centre No. 1 comments and feedback will be accepted between June 8 - June 22, 2022.

The Niagara Region is committed to ensure that all Regional services, programs and facilities are inclusive and accessible. Please contact the Project Manager, Albert Succi (<u>niagarabiosolidsmp@niagararegion.ca</u>) if you require accommodations to provide feedback for this study.

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 related will become part of the public record and may be included in the study documentation prepared for public review.

•••

* Required

1. First and Last Name (Optional)

Enter your answer

2. Organization (Optional)

Enter your answer

3. Do you have any comments regarding the Problem/Opportunity Statement? *

Enter your answer

4. Do you have comments on or addition to the long list of alternative treatment technologies and end-use markets? *

Enter your answer

5. Do you have any comments on the screening criteria and detailed evaluation criteria? *

Enter your answer

6. Which of the criteria below do you consider most important? Please rank from 1 to 5, with 5 being the most important: *

	1	2	3	4	5
Minimizing impact to natural environment	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Limiting disruptions to the public	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Ease of approvals and permits	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Minimizing costs	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Ensuring a sustainable solution that performs well	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0

Region of Niagara Biosolids Management Masterplan Phase 1 Class EA and PIC No. 1 Summary Report Appendix C

7. Please provide additional criteria that you consider important if not listed above. *

Enter your answer

8. Do you have any other comments or questions about this Master Plan? *

Enter your answer

9. If you wish to be notified for continued involvement in the study progress, please enter your email below. *

Enter your answer

APPENDIX D: Comments Received Summary

2021 Biosolids Management Master Plan Update Public Information Center No. 1 – Comments Received

Virtual Public Information Centre (PIC) No. 1 was held from June 8 to June 15, 2022. This included an introductory video presentation, project materials for review, and opportunity for interested individuals to provide comments via an online submission form or through the project email.

PIC No. 1 materials for review included project introduction, the problem and opportunity statement, project approach, review of the existing biosolids and residuals management program and future needs, long list of alternatives, evaluation approach, screening criteria and preliminary project schedule. These materials will remain posted on the Biosolid Management Master Plan Update project website:

Video Presentation: <u>https://youtu.be/L6qxU8Bm_eM</u>

Niagara /// Region

Project Information: <u>https://www.niagararegion.ca/projects/biosolids-master-plan/pdf/pic1.pdf</u>

During the 2-week engagement period, the video presentation received 45 views. Numerous stakeholders signed-up to be on the mailing list and receive future project notices. Comments were also provided from interested stakeholders including:

- Requested consideration for reduced truck traffic related to biosolids hauling through the community of Cooks Mills
- Received approximate locations of pipeline infrastructure within the Study Area from Enbridge
- Received notification from Niagara Escarpment Commission (NEC) that the Queenston WWTP and Decew Falls WTP fall within the Niagara Escarpment Plan Area and Area of Development Control and the NEC would like to be involved in the study

The feedback above will be considered in the development and evaluation of biosolids management alternatives. The Master Plan Update will satisfy Phases 1 & 2 of the Municipal Class Environmental Assessment process. The Region will host one (1) additional Public Information Centre to present the preliminary preferred biosolids management strategies.





2021 Water and Wastewater Master Servicing Plan Update TM 3: Customer Service and Public Awareness GMBP File No. 621143 November 2023

Public Information Centre No. 2

Materials

MOVING WATER Forward

Notice of Public Information Centre No. 2

Biosolids Management Master Plan Update Municipal Class Environmental Assessment

Niagara Region completed a Biosolids Management Master Plan in 2010 to ensure a long-term, environmentally sustainable, reliable and cost effective biosolids management program for Niagara Region and its citizens. This update to the plan will identify and develop a strategy for meeting Niagara's biosolids treatment needs to the year 2051, in a manner that is transparent, sustainable, reliable, environmentally friendly, cost effective and flexible.

The Biosolids Management Master Plan will be developed to:

- Meet the unique needs of Niagara Region and its customers, including treatment requirements, land uses and users, and environmental features
- Meet future needs associated with population growth, new regulations, climate resiliency, and energy efficiency
- Provide greater flexibility and reliability for biosolids management, both in the short term (i.e., 5 years) and long term (to the year 2051)
- Improve biosolids marketability; and



 Address community expectations regarding level of service, odour, air/noise, water quality, protection of the environment and aesthetics

Through this study, alternative strategies for managing biosolids were developed and evaluated, considering environmental and socio-cultural impacts, along with technical feasibility and cost. The objective of PIC 2 is to present our preliminary evaluation results and get your feedback on the preferred strategies.

The Process

The Study follows the master planning process as established by the Municipal Engineer's Association Class Environmental Assessment process for Master Plans,

which is an approved Ontario Environmental Assessment process. The Biosolids Management Master Plan Update will satisfy Phases 1 and 2 of the Class Environmental Assessment process. Public and stakeholder input will be sought throughout the process, and a Biosolids Management Master Plan Update Report will be prepared and filed for public review.





Get Involved

Public feedback is an important part of the process. Information about the project will be available on Niagara Region's website as part of Public Information Centre No. 2. You can learn about the project, preliminary recommendations, and how you can have your voice heard.

Public Information Centre No. 2 Details

Public Information Centre 2 will be made available on the project website beginning **Wednesday**, **May 17**, **2023**. This will be followed with a two-week period to submit comments to the Project Team.

You can access the project website using the link below or by scanning the QR code with your smart phone.



niagararegion.ca/projects/biosolids-master-plan

If you have questions, comments or wish to be added to the study mailing list, please contact:

Jason Oatley, Project Manager Niagara Region 3501 Schmon Pkwy., PO Box 1042 Thorold, ON L2V 4T7 905-685-4225 ext. 3758 Fax: 905-685-5205 niagarabiosolidsmp@niagararegion.ca

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of 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.

If you require any accommodations in order to participate, please let us know in advance so that arrangements can be made in a timely manner. Special accessibility accommodations and materials in alternate formats can be arranged by contacting the Niagara Region's Accessibility Advisory Coordinator at 905-980-6000 ext. 3252 or accessibility@niagararegion.ca.





Phase I Class EA and Public Information Centre No. 2 Summary Report

2021 Biosolids Management Master Plan Update

June 2023





GUELPH | OWEN SOUND | LISTOWEL | KITCHENER | LONDON | HAMILTON | GTA www.GMBluePlan.ca



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Appendix C	PIC No. 2 Material
Appendix D	PIC No.2 Online Survey
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Region of Niagara Biosolids Management Masterplan Phase 2 Class EA & PIC No. 1 Summary Report GMBP File No. 621143 June 2023

621143 – Niagara Biosolids Management Master Plan Update Phase 2 Class EA & Public Information Centre No. 2 Summary Report

QA/QC - SIGN OFF SHEET

This report has been reviewed and approved by the undersigned.

Laura Verhaeghe, P.Eng Project Manager

I.0 Study Introduction

I.I Background and Purpose

In alignment with Niagara's Growth Management Strategy and under the legislative context of the Province's Place to Grow Plan and the Regional Policy Plan, growth in the Region of Niagara should occur in a sustainable manner addressing economic, social, and environmental considerations. The Region initiated the current Biosolids Management Master Plan (BMMP) Update to review the existing biosolids management strategy in light of these Provincial and Regional growth targets, to identify limitations, develop and evaluate alternative management strategies, and recommend a preferred strategy for implementation. The study will address Phases 1 and 2 of the Municipal Engineers Association Class Environmental Assessment Master Planning Process, while meeting the goals and objectives of the Region.

The BMMP will be developed to:

- Meet future population growth needs to the year 2051,
- Consider future regulations,
- Educate stakeholders regarding the benefits of biosolids reuse,
- Address community expectations,
- Protect the environment,
- Provide greater flexibility, reliability and cost efficiency for biosolids management, and
- Provide a 'Made in Niagara' strategy that incorporate features unique to this area

The study area, as shown in **Figure 1**, covers the entire Region of Niagara and all lower tier municipalities including Grimsby, West Lincoln, Lincoln, St. Catharines, Thorold, Welland, Pelham, Port Colborne, Niagara-on-the-Lake, Niagara Falls, and Fort Erie, and includes all wastewater and water treatment plants.

A key part of the public consultation component of this Master Plan study are Public Information Centres (PICs), which serve as a forum for information exchange between the public, stakeholders, and the project team. This report summarizes the second PIC held virtually from May 17, 2023 to May 31, 2023 on the Region's website as well as the Phase 2 consultation activities. This report documents the following:

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

This report will be appended to Tech Memo 3 on Customer Service and Public Awareness, which will be appended to the Master Plan Report submitted at the end of the study.

Region of Niagara Biosolids Management Masterplan Phase 2 Class EA & PIC No. 2 Summary Report GMBP File No. 621143 June 2023



Figure 1: Niagara Biosolids Management Master Plan Study Area



I.2 Class EA Content

The Niagara BMMP study follows Phases 1 and 2 of the Municipal Class EA Process which includes the following:

- Phase 1: Development of the Problem and Opportunity Statement
- Phase 2: Assessment of Alternative Solutions and Selection of the Preferred Solution

The PIC No. 2 event is part of Phase 2 of the Class EA Process. **Figure 2** displays the Municipal Class EA planning process and design planning process.

The Problem and Opportunity Statement for the Niagara Region BMMP Plan is defined as follows:

"The purpose of the Biosolids Management Master Plan Update is to develop a holistic, longterm strategy for biosolids management in Niagara in a manner that is transparent, sustainable, reliable, environmentally friendly, cost-effective and flexible."

The PIC No. 2 event also presented the proposed approach for the EA process. This defined the process of identifying alternative solutions for the problem and opportunity statement listed above and provided a long list of alternative strategies for biosolids management in Niagara Region. Finally, PIC No. 2 presented the long list of biosolids treatment technologies and end use markets, screening level evaluation, detailed evaluation of short-listed strategies and a preliminary proposed implementation plan.

Overall, the objectives of PIC 2 were to:

- Present the Region's biosolids management approach and provide insight to future needs;
- Provide a progress update on the BMMP and work completed to date; and
- Obtain feedback on the list of alternative biosolids management strategies, detailed evaluation of these strategies and preliminary recommendations.

Region of Niagara Biosolids Management Masterplan Phase 2 Class EA & PIC No. 2 Summary Report GMBP File No. 621143 June 2023



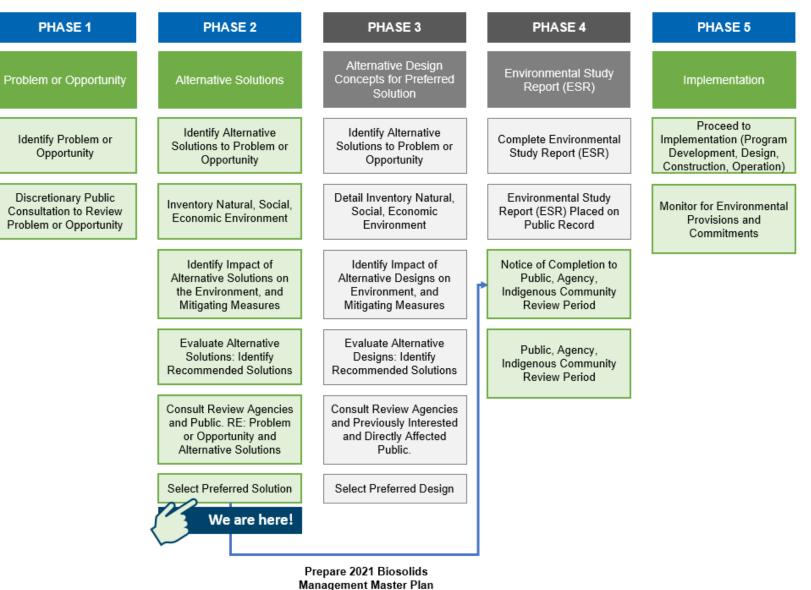


Figure 2: Municipal Class EA Planning and Design Process



2.0 **Project Initiation**

2.1 Public Consultation and Stakeholder Engagement Plan

The Region's approach to communicate and consult with stakeholders is driven by five (5) key considerations.

- 1. Keeping Niagara Region and area municipality councillors and senior management up to date and aware of study progress and findings.
- 2. Undertaking and maintaining the appropriate level of communication with the public and agency stakeholders.
- 3. Effectively engaging Indigenous Communities.
- 4. Maintaining Niagara's brand and public reputation.
- 5. Meeting or exceeding MEA Standards for public and stakeholder consultations.

Considering the above factors, the Region's consultation and engagement program aims to offer the following key opportunities:

- Educating the community about biosolids infrastructure and beneficial use.
- Building public and stakeholder understanding and buy-in to support the EA process and the preferred solutions.
- Raising awareness of Region services.
- Building the foundation for future steps in the project including implementation of subsequent studies, design and construction.

2.2 Stakeholder Communication Distribution List

Early in the study process a stakeholder communication distribution list was established. The list included government review agencies, public interest groups, municipalities, Indigenous Communities, utilities and other stakeholders. The list was based on the mailing list established through the Water and Wastewater Master Plan process, input from the Ministry of Environment, Parks and Conservation (MECP), and input from the Region and area municipalities. The mailing list is continually updated through the study as additional interested parties and individuals are identified.

2.3 **Project Website**

A dedicated project website for the 2021 BMMP Update has been established and is regularly updated. The site includes notices, information bulletins, and Public Information Centre (PIC) information and is found at: www.niagararegion.ca/projects/biosolids-master-plan/. In addition, the Region has established a dedicated email address for contact throughout the project: niagarabiosolidsmp@niagararegion.ca.



Region of Niagara Biosolids Management Masterplan Phase 2 Class EA & PIC No. 2 Summary Report GMBP File No. 621143 June 2023

3.0 Public Information Centre No. 2

3.1 Purpose

PIC No. 2 was the second public event for this study and was held virtually from May 17 to May 31, 2023. PIC No 2 presented the following information:

- Project Overview (including background)
- Described the Class EA process
- Identified the Problem and Opportunity Statement
- Described the Alternative Evaluation Approach
- Long List of Treatment Technologies / End Use Markets and Screening of Long Lists
- Development and Detailed Evaluation of Short-Listed Strategies
- Preliminary Recommendations and Implementation
- Methods to provide comments and feedback.

The public review material included a presentation with voice-over and an AODA-compliant pdf document summarizing all presented information.

3.2 Notice of Public Information Centre No. 2

Stakeholders and the public were informed by local newspaper advertisements, mail and or email (study stakeholder communication list), and through the Region of Niagara website.

For a copy of the Notice PIC No. 2, please refer to Appendix A.

3.2.1 Newspaper Advertisements

The Notice of PIC No. 2 was published in local area newspapers as follows:

- Standard Review Tribune Saturday May 13, 2023
- Niagara Falls Review Saturday May 13, 2023
- Welland Turbine Saturday May 13, 2023
- Niagara This Week Zones 1, 2, 3, 4, 5, 6, & 7 Thursday May 11, 2023
- Fort Erie Observer Thursday May 11, 2023
- News Now (Grimsby) Thursday May 11, 2023
- Niagara-on-the-Lake Local Wednesday May 10, 2023
- The Lake Report Thursday May 11, 2023
- Voice of Pelham Wednesday May 10, 2023
- Thorold News Wednesday May 10, 2023
- Regional Website Wednesday April 26, 2023





3.2.2 Online Advertisements

This notice was also posted to the Niagara Region website and the Project website. The website includes details for members of the public to sign up in order to stay involved through this study and receive future study notifications.

3.2.3 Stakeholder Communication List Notification

The Notice of PIC No. 2 was mailed and/or emailed to local government, review agencies and other stakeholders on May 4, 2023.

Notification was sent to the following groups:

Provincial

- Ministry of the Environment, Conservation and Parks
- Ministry of Northern Development, Mines, Natural Resources and Forestry
- Infrastructure Ontario
- Ministry of Agriculture, Food and Rural Affairs
- Ministry of Economic Development, Employment and Infrastructure
- Ministry of Infrastructure
- Ministry of Municipal Affairs and Housing
- Ministry of Heritage, Sport, Tourism and Culture
- Ministry of Transportation
- Niagara Parks Commission
- Ontario Provincial Police
- Peace Bridge Authority
- Ministry of the Attorney General, Aboriginal Justice Division
- Ministry of Indigenous Affairs

Federal

- Canadian Section, International Niagara
 Board of Control
- Canadian Environmental Assessment
 Agency
- Department of Fisheries and Oceans Canada
- Department of Environment and Climate Change Canada
- Department of Indigenous and Northern Affairs Canada
- Federal Economic Development Agency for Southern Ontario
- Health Canada
- Transport Canada
- Canadian Food Inspection Agency

Third Party Biosolids Contractors and End Users

- Walker Industries
- Thomas Nutrient Solutions

Ontario Federation of Agriculture



Region of Niagara Biosolids Management Masterplan Phase 2 Class EA & PIC No. 2 Summary Report GMBP File No. 621143 June 2023

Conservation Authorities

• Niagara Peninsula Conservation Authority

Rail and Transit

- CN Rail
- CP Rail
- GO Transit/Metrolinx
- TransCanada Pipelines

School Boards and Interest Groups

- Conseil Scolaire Viamode
- Conseil Scolaire Catholique MonAvenir
- District School Board of Niagara
- Canadian Section, International Niagara
 Board of Control
- Friends of the Greenbelt
- Greater Niagara Chamber of Commerce
- Lundy's Lane BIA
- Niagara Catholic District School Board
- Niagara College
- Niagara Emergency Medical Services
- Niagara Health
- Niagara Home Builders Association
- Niagara Regional Police
- Ontario Realty Corporation
- Ontario Wine Country

3.2.4 Indigenous Community Engagement

In their acknowledgement letter to the Notice of Commencement (June 3, 2023), the MECP provided direction as to the Indigenous Communities to engage and the protocols for engaging these communities. Personalized letters were sent to the following Indigenous Communities, as identified by the MECP:

• Mississaugas of the Credit First Nation

Utilities

- Bell Canada
- Canadian Niagara Power Inc.
- Canadian Automobile Association South Central Ontario
- Cogeco Cable Hamilton/Niagara
- Cogeco Cable Niagara
- Enbridge Gas Inc.
- Enbridge Pipelines Inc.
- Grimsby Power Incorporated
- Hydro One Networks
- Niagara-on-the-Lake Hydro
- Niagara Peninsula Energy Inc.
- Niagara Region Broadband Networks
- Ontario Power Generation
- Telus
- Welland Hydro Electric System Corporation

Region of Niagara Biosolids Management Masterplan Phase 2 Class EA & PIC No. 2 Summary Report GMBP File No. 621143 June 2023



- Six Nations of the Grand River
- Haudenosaunee Confederacy Chiefs Council
- Haudenosaunee Development Institute

The letters were emailed and mailed to the community contacts on April 19, 2023. The letter provided an update on the study including details on the preliminary preferred strategies and to provide an opportunity for input on the study.

Copies of the letters are provided in Appendix B.

3.3 PIC No. 2 Meeting Details

The virtual PIC No. 2 was held from May- 17 - 31, 2023. The PIC No. 2 materials were available for public comment via the study website.

3.4 PIC No. 2 Display Material

The information presented on the PIC No. 2 video presentation slides included:

- Project Introduction
- Project Approach
- PIC Objectives
- Study Area
- Existing Biosolids Management System
- Evaluation Approach
- Long List of Biosolids End Use Markets and Treatment Technologies and Screening Results
- Detailed Evaluation
- Preliminary Recommendations
- Project Schedule
- How to Get Involved

A copy of the PIC No. 2 presentation material is provided in Appendix C.

3.5 Online Survey

Recipients of the PIC No. 2 notice were encouraged to complete an online survey regarding the proposed evaluation approach for the biosolid management alternatives. At the end of the two (2)-week engagement period, no survey results were submitted to the Region.

The survey included the following questions/comments:

- Do you have any comments regarding the long list of treatment technologies or end-use markets and the results of the screening evaluation?
- Do you have any questions or comments on the seven strategies developed for detailed evaluation?
- Do you agree or disagree with the three strategies selected for implementation?
- Do you have any comments or questions about this Master Plan?

A copy of the survey is provided in Appendix D.

3.6 PIC No. 2 Attendance

During the two (2)-week engagement period, the video presentation received 29 views.

3.7 PIC No. 2 Comments Received and Region's Responses

Attendees were encouraged to provide comments related to Class EA in writing through the project website during the two (2)-week comment period. Comments were accepted through the project website, by phone, email and/or mailed letters. These comments were then reviewed and considered by the Project Team to inform the decision-making process.

A summary of the comments received is provided in Table 1 below. A one-page event summary was posted to the project website to demonstrate engagement as provided in Appendix E.



Table 1 – Summary of PIC 2 Comments Received

No.	PIC No. 2 Comments/Questions	Project Team Response
	Received	
1	One public stakeholder signed-up to be on the mailing list and receive future project notices	The individual interested in the study has been added to the stakeholder communication list to receive study information.
2	Resident noted concerns regarding Per- and Polyfluoroalkyl Substances (PFAS) within the biosolids that are land applied on Niagara farmland. The resident also inquired if the Region is testing or would consider testing for PFAS in biosolids before land application and if this will be addressed within the BMIMP.	The Region explained that biosolids are applied as non- agricultural source materials (NASM) following strict regulations under the Nutrient Management Act or as a commercial fertilizer under the Federal Fertilizer Act of the Canadian Food Agency and highlighted that there has been no evidence of adverse impacts to the environment or health of people / animals. The Region highlighted that the government has been proactive in researching PFAS and setting policies to protect human health and the environment and noted that they have been phasing out PFAS compounds in various consumer products. The Region also noted that the Canadian Food Inspection Agency (CFIA) has started to implement an interim standard for domestic and imported biosolids contaminated with PFAS sold in Canada as commercial fertilizers. The CFIA is working to develop a plan for standards and a detailed guide for importers, producers and commercial users of biosolids. The Region described that they are committed to providing water and wastewater treatment that meets or betters provincial requirements and noted that the preferred BMMP is diverse and flexible to meet potential future environmental and legislative changes (i.e. biosoilds quality and land application requirements).
3	Resident noted concerns regarding the perceived increase in biosolids truck traffic (estimating around 120 transports/day) and requested consideration of alternative routes. The resident also inquired who determines the routes that the biosolids hauling trucks take.	The Region described that they are looking to minimize impacts of the biosolids hauling on local communities while also providing a direct route to farmers' fields to minimize environmental impacts. The Region noted that biosolids hauling trucks are to stay on Provincial Highways and Regional roads and they are required to apply best management practices while transporting and applying biosolids to the land. The Region described that as part of the BMMP study, it has been recommended that the Region increases dewatering of biosolids which will result in a reduced total volume of biosolids needing to be hauled, therefore decreasing truck traffic.



4.0 Next Steps

Now that this second round of public consultation is complete, the project team will:

- Consider comments and input received into the Class EA process,
- Continue to work with review agencies and interested stakeholders,
- Finalize the Recommendations
- Finalize the Biosolids Management Master Plan Update Report and File for 30-Day Public Review

APPENDIX A: Notice of PIC No. 2

MOVING WATER Forward

Notice of Public Information Centre No. 2

Biosolids Management Master Plan Update Municipal Class Environmental Assessment

Niagara Region completed a Biosolids Management Master Plan in 2010 to ensure a long-term, environmentally sustainable, reliable and cost effective biosolids management program for Niagara Region and its citizens. This update to the plan will identify and develop a strategy for meeting Niagara's biosolids treatment needs to the year 2051, in a manner that is transparent, sustainable, reliable, environmentally friendly, cost effective and flexible.

The Biosolids Management Master Plan will be developed to:

- Meet the unique needs of Niagara Region and its customers, including treatment requirements, land uses and users, and environmental features
- Meet future needs associated with population growth, new regulations, climate resiliency, and energy efficiency
- Provide greater flexibility and reliability for biosolids management, both in the short term (i.e., 5 years) and long term (to the year 2051)
- Improve biosolids marketability; and



 Address community expectations regarding level of service, odour, air/noise, water quality, protection of the environment and aesthetics

Through this study, alternative strategies for managing biosolids were developed and evaluated, considering environmental and socio-cultural impacts, along with technical feasibility and cost. The objective of PIC 2 is to present our preliminary evaluation results and get your feedback on the preferred strategies.

The Process

The Study follows the master planning process as established by the Municipal Engineer's Association Class Environmental Assessment process for Master Plans,

which is an approved Ontario Environmental Assessment process. The Biosolids Management Master Plan Update will satisfy Phases 1 and 2 of the Class Environmental Assessment process. Public and stakeholder input will be sought throughout the process, and a Biosolids Management Master Plan Update Report will be prepared and filed for public review.





Get Involved

Public feedback is an important part of the process. Information about the project will be available on Niagara Region's website as part of Public Information Centre No. 2. You can learn about the project, preliminary recommendations, and how you can have your voice heard.

Public Information Centre No. 2 Details

Public Information Centre 2 will be made available on the project website beginning **Wednesday**, **May 17**, **2023**. This will be followed with a two-week period to submit comments to the Project Team.

You can access the project website using the link below or by scanning the QR code with your smart phone.



niagararegion.ca/projects/biosolids-master-plan

If you have questions, comments or wish to be added to the study mailing list, please contact:

Jason Oatley, Project Manager Niagara Region 3501 Schmon Pkwy., PO Box 1042 Thorold, ON L2V 4T7 905-685-4225 ext. 3758 Fax: 905-685-5205 niagarabiosolidsmp@niagararegion.ca

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APPENDIX B: Indigenous Consultation Letters



Public Works

Water & Wastewater Services 3501 Schmon Pkwy., PO Box 1042, Thorold, ON L2V 4T7 Telephone: 905-980-6000 Toll-free: 1-800-263-7215 Fax: 905-685-5205 www.niagararegion.ca

April 19, 2023

Mr. Leroy Hill Secretary Haudenosaunee Confederacy Chiefs Council 2634 6th Line Road P.O. Box 714, Suite 600 Ohsweken, ON N0A 1M0

Dear Mr. Hill:

Niagara Region Biosolids Management Master Plan Update Region-Wide Our File: 0.02 13 20001326 - 2020 Biosolids MSP

We wish to take this opportunity to provide an update regarding the above noted project. The Region of Niagara is undertaking a Region-wide Biosolids Management Master Plan (BMMP) Update for the future management of biosolids from each of the Region's water and wastewater treatment plants to the year 2051. Biosolids are the organic materials resulting from the physical, chemical and biological treatment of sewage sludge generated at wastewater treatment plants. Biosolids have many potential beneficial uses such as application on agricultural lands.

As Niagara Region continues to grow, it is essential that we plan infrastructure and services to meet increasing demands. More people mean more wastewater, which also means more biosolids and a higher demand for treatment and management of these materials. This Master Plan will develop a holistic, longterm strategy for biosolids management in Niagara that is transparent, sustainable, reliable, environmentally friendly, cost-effective and flexible.

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Haudenosaunee Confederacy Chiefs Council April 19, 2023 Page 2

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Yours truly,

Jason Oatley, B.Sc., C.Chem. Project Manager Water and Wastewater Services 905-980-6000, ext. 3758 Jason.oatley@niagararegion.ca

(#L:\ENVIRONMENTAL CENTRE\ENGINEERING\O.02 - OPS & Maintenance Projects\13 20001326 - 2020 Biosolids MSP\1_PROJ_MGMT\CORR\Indigenous\MCFN\2023\2023-04-19-Haudenosaunee-Confederacy-Chiefs-NR-Biosolids-Mgmt-MMP-Update.Ltr.docx)

Attach.

cc: Leroy Hill: <u>ohahokta@hotmail.com</u> Wayne Hill: <u>tworowarchaeology@gmail.com</u>



Public Works

Water & Wastewater Services 3501 Schmon Pkwy., PO Box 1042, Thorold, ON L2V 4T7 Telephone: 905-980-6000 Toll-free: 1-800-263-7215 Fax: 905-685-5205 www.niagararegion.ca

April 19, 2023

VIA EMAIL (janicehdi@gmail.com)

Ms. Janice Bomberry Office Administrator Haudenosaunee Development Institute 16 Sunrise Court, Suite 402B P.O. Box 714 Ohsweken, ON N0A 1M0

Dear Ms. Bomberry:

Niagara Region Biosolids Management Master Plan Update Region-Wide Our File: 0.02 13 20001326 - 2020 Biosolids MSP

We wish to take this opportunity to provide an update regarding the above noted project. The Region of Niagara is undertaking a Region-wide Biosolids Management Master Plan (BMMP) Update for the future management of biosolids from each of the Region's water and wastewater treatment plants to the year 2051. Biosolids are the organic materials resulting from the physical, chemical and biological treatment of sewage sludge generated at wastewater treatment plants. Biosolids have many potential beneficial uses such as application on agricultural lands.

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Haudenosaunee Development Institute April 19, 2023 Page 2

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Attach.

cc: General Inbox: <u>www.info@hdland</u> Todd Williams: <u>williams.todd@gmail.com</u>; <u>toddwilliams@hdi.land</u> Janice Williams: <u>janicewilliams@hdi.land</u>



Public Works

Water & Wastewater Services 3501 Schmon Pkwy., PO Box 1042, Thorold, ON L2V 4T7 Telephone: 905-980-6000 Toll-free: 1-800-263-7215 Fax: 905-685-5205 www.niagararegion.ca

April 19, 2023

Ms. Abby LaForme Acting Consultation Coordinator Mississaugas of the Credit First Nation 2789 Mississauga Road, R.R. #6 Hagersville, ON N0A 1H0

Dear Ms. LaForme:

Niagara Region Biosolids Management Master Plan Update Region-Wide Our File: 0.02 13 20001326 - 2020 Biosolids MSP

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Mississaugas of the Credit First Nation April 19, 2023 Page 2

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Attach.

cc: Chief R. Stacey LaForme: <u>stacey.laforme@mncfn.ca</u> Abby LaForme: <u>abby.laforme@mncfn.ca</u> Cathie Jamieson: <u>cathiej@mncfn.ca</u> Mark LaForme: <u>mark.laforme@mncfn.ca</u> Adam LaForme: <u>adam.laforme@mncfn.ca</u> Adrian Blake: <u>adrian.blake@mncfn.ca</u> DOCA.admin@mncfn.ca



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April 19, 2023

VIA EMAIL (tanyahill-montour@sixnations.ca)

Ms. Tanya Hill-Montour Archaeology Supervisor Six Nations of the Grand River 2498 Chiefswood Road P.O. Box 5000 Ohsweken, ON N0A IM0

Dear Ms. Hill-Montour

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Six Nations of the Grand River April 19, 2023 Page 2

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Attach.

cc: Chief Mark B. Hill: <u>markhill@sixnations.ca</u> Dawn LaForme: <u>dlaforme@sixnations.ca</u> Tayler Hill: <u>tayler.hill@sixnations.ca</u> Lonny Bomberry: <u>lonnybomberry@sixnations.ca</u> Arleen Maracle: <u>arleenma@sixnations.ca</u>

APPENDIX C: PIC No. 2 Material





Biosolids Management Master Plan Update

Virtual Public Information Centre No. 2



Project Introduction

The Niagara Region is undertaking a region-wide **Biosolid Management Master Plan (BMMP) Update** for the future management of biosolids from each of the Region's water and wastewater treatment plants.

As Niagara Region continues to grow, we need to make sure that we plan our infrastructure and services to meet increasing demands. More people means more wastewater, which also means more biosolids and a higher demand for treatment and management of these materials. This study will also build upon the recommendations in the 2010 BMMP, by considering regulatory and environmental changes since its implementation. As part of Niagara Region's planning activities, the BMMP will continue to be updated every ten years.

What are Biosolids?

Biosolids are the organic materials resulting from the physical, chemical and biological treatment of sewage sludge generated at wastewater treatment plants.

Biosolids have many potential beneficial uses including land application on agricultural lands and use in landscaping projects in parks, on golf courses and at private residences. The Region's biosolids are currently land applied throughout Niagara Region.

The Region's biosolids also incorporate residuals from water treatment.

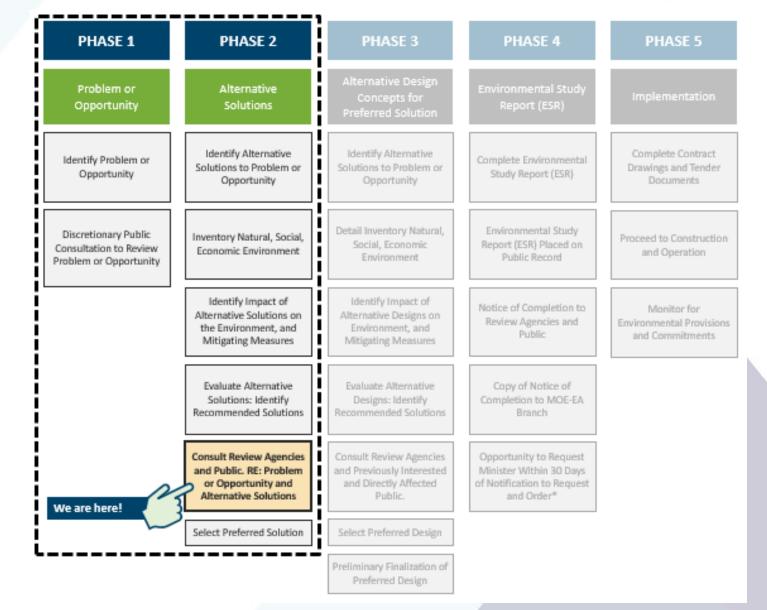




Project Approach

This project is following the Class Environmental Assessment (EA) process for Master Plan Projects, which is a decision-making process that all Ontario municipalities follow for rehabilitating and building new infrastructure.

The 2021 BMMP follows the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for Master Plans and will satisfy Phases 1 and 2 of the Class EA process.



Problem and Opportunity Statement

The purpose of the Biosolids Management Master Plan Update is to develop a holistic, long-term strategy for biosolids management in Niagara in a manner that is transparent, sustainable, reliable, environmentally friendly, cost-effective and flexible.

Public Information Centre (PIC) Objectives

Timeline

May 17, 2023: Project information, project overview video, and transcript posted

May 17 to May 31, 2023: Submit questions or comments related to the PIC No.2 materials to Niagara Region <u>niagarabiosolidsmp@niagararegion.ca</u>

> June 14, 2023 Responses to questions and comments posted

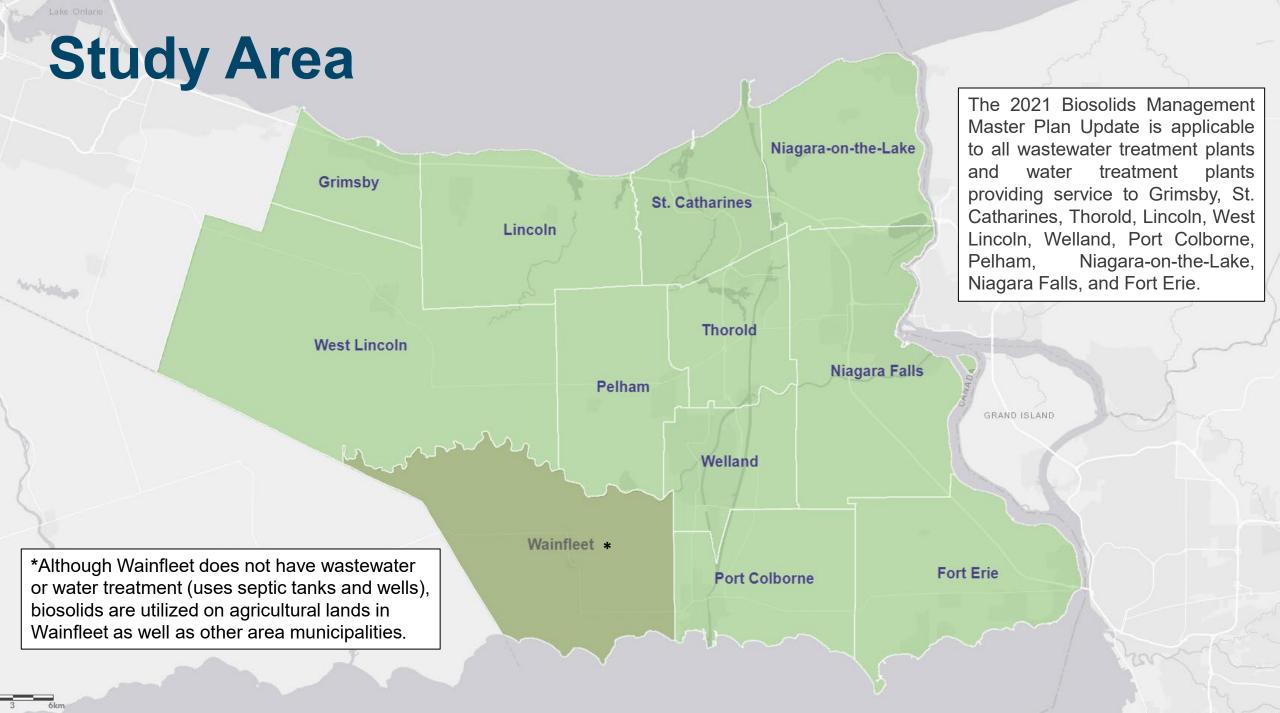


Present the Public and Stakeholders with an opportunity to learn about Niagara Region's biosolids management approach and provide insight to future needs.

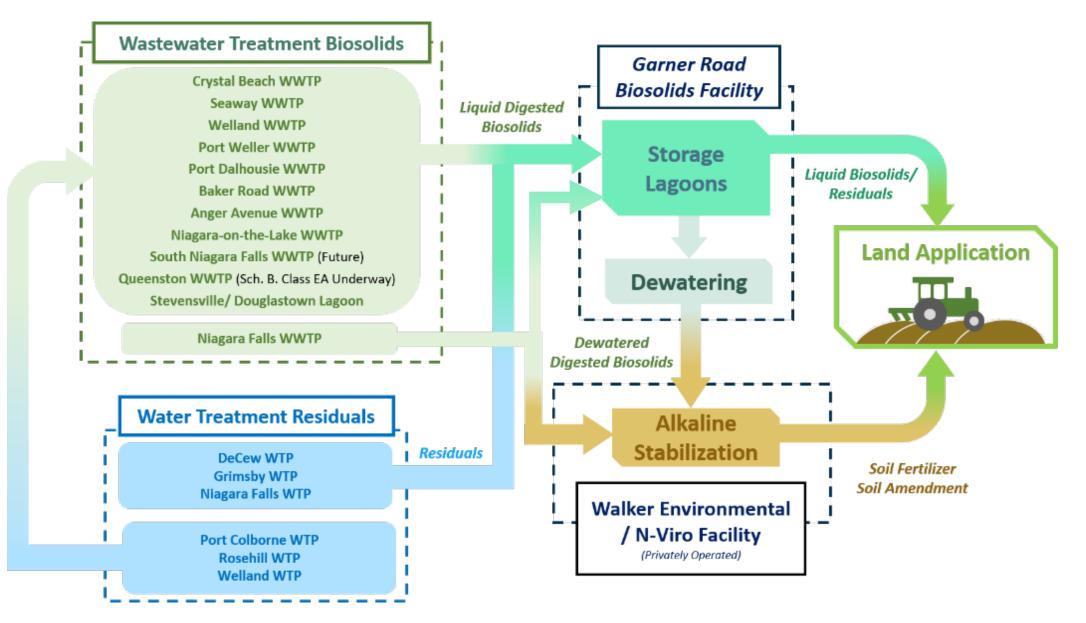
Provide a progress update on the Biosolids Management Master Plan and work completed to date.

Answer any questions you may have about the Project process or potential outcomes.

Obtain your feedback and answer any questions you may have on the list of alternative biosolids management strategies, the detailed evaluation of these strategies and preliminary recommendations



Existing Biosolids Management System



Existing Beneficial Uses Program Liquid Biosolids Management



Garner Road Biosolids Facility

Liquid biosolids and residuals (~50% of biosolids produced in Niagara Region) are:

- 1. Hauled to the Garner Road Biosolids Facility by Third Party Contractor (currently Thomas Nutrient Solutions),
- 2. Stored and thickened in lagoons at the Garner Road Biosolids Facility,
- 3. Hauled away and applied as a liquid fertilizer to agricultural land by Third Party Contractor (currently Thomas Nutrient Solution)



Land application of biosolids

Existing Beneficial Uses Program Dewatered Biosolids Management

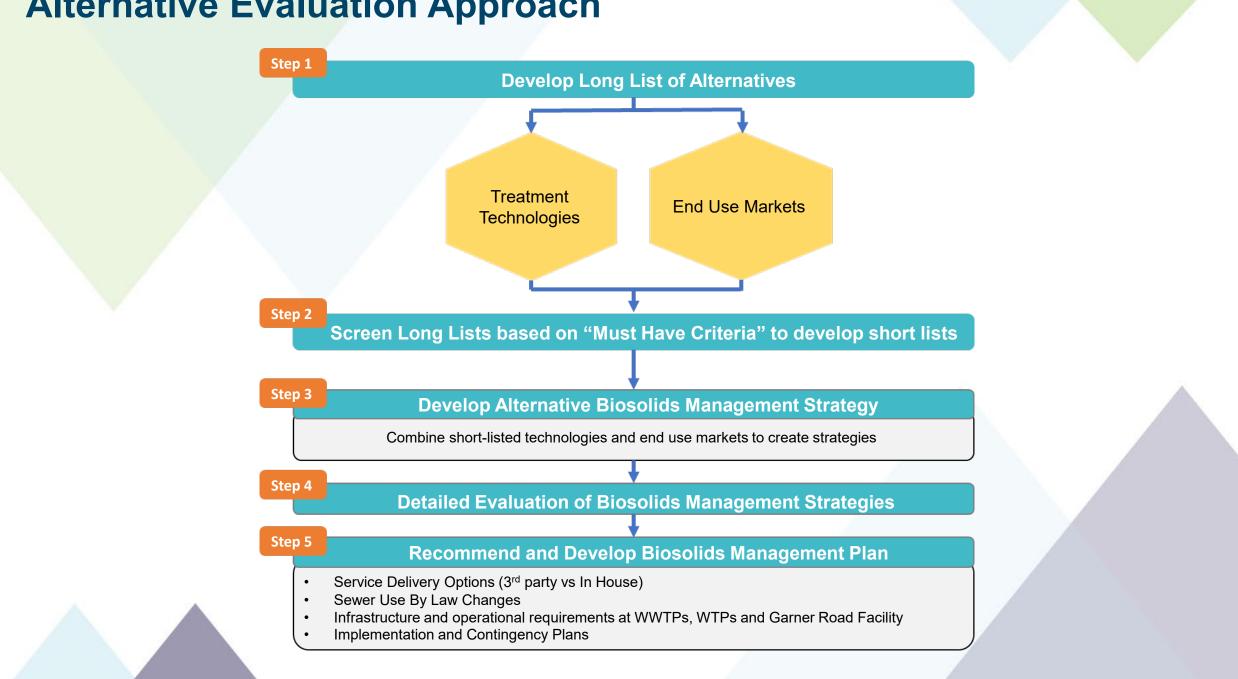


Biosolids Management Centre with Alkaline Stabilization

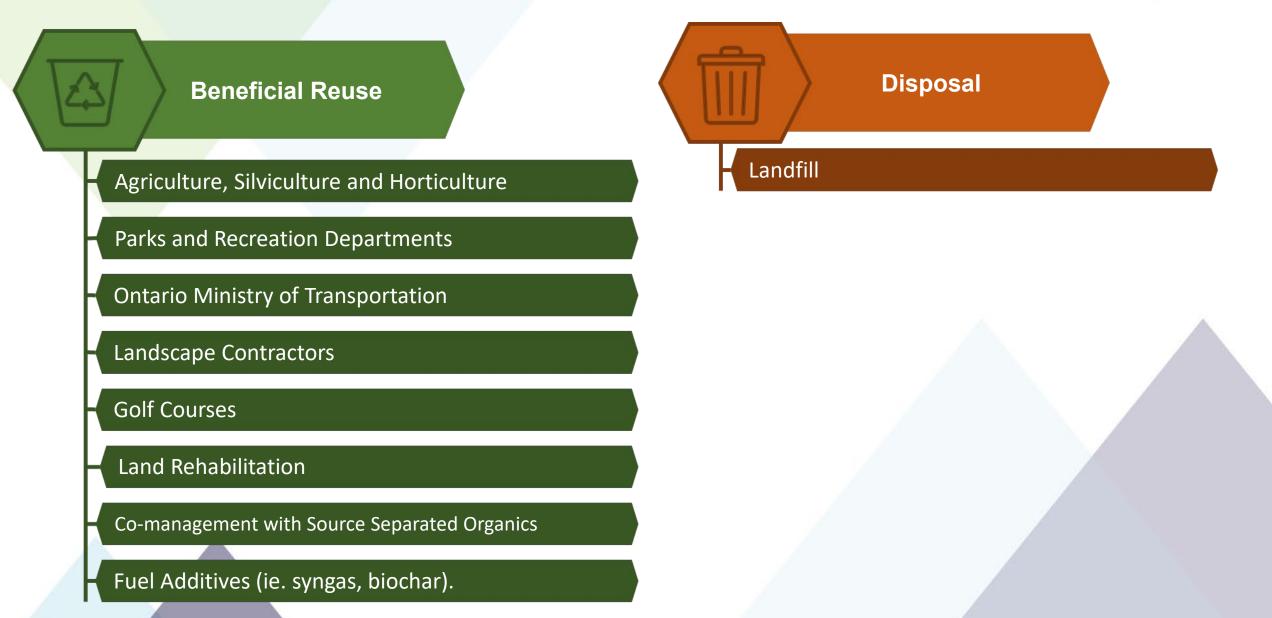
Dewatered biosolids from the Garner Road Biosolids Facility and Niagara Falls WWTP (~50% of biosolids produced in Niagara Region) are:

- 1. Hauled to a privately owned Biosolids Management Facility in Niagara Falls.
- 2. Treated using alkaline stabilization to produce a high solids, nutrient rich soil-like product
- 3. Hauled away and applied as a solid cake fertilizer to agricultural land by Third Party Contractor

Alternative Evaluation Approach



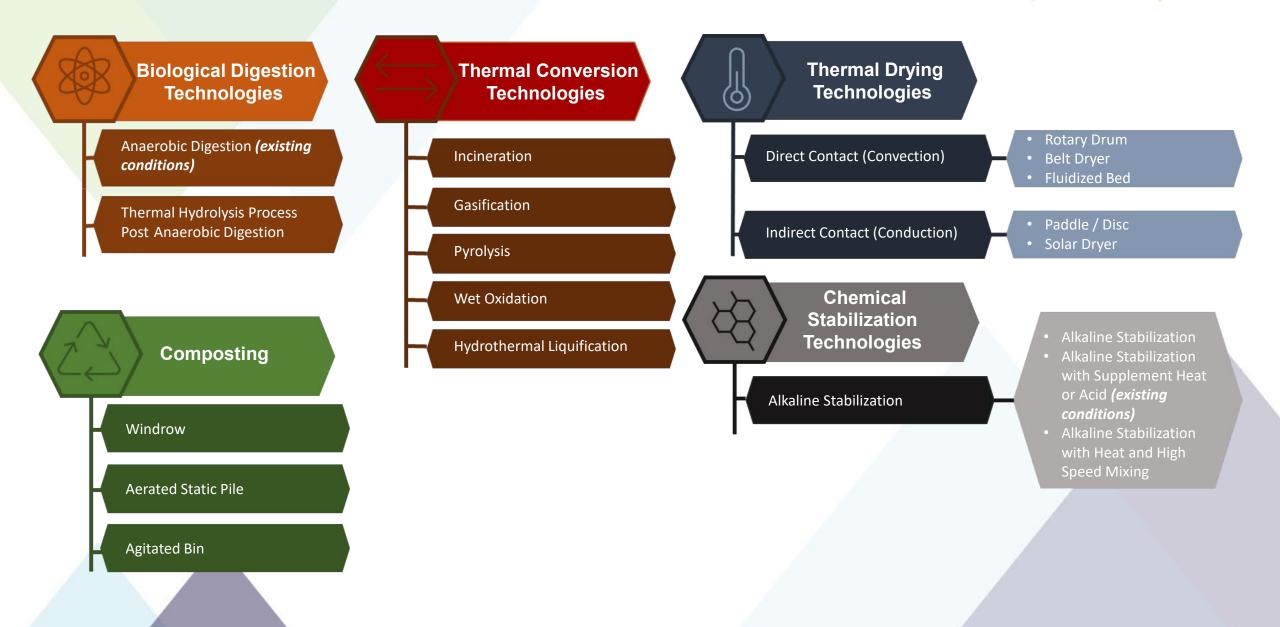
Step 1 – Develop Long List of Biosolids End Use Markets



Step 2 – Screen Long List of Biosolids End Use Markets

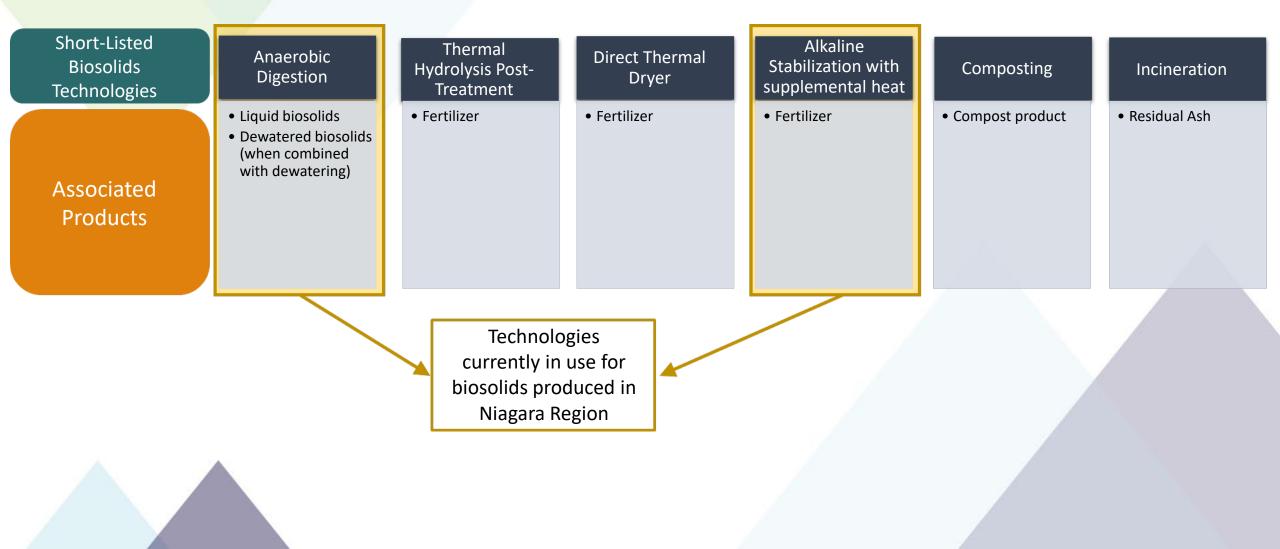
	Market A	vailability		tibility with nt Program		rm Reliability Istainability	Implementable	Screening Results
Agricultural, Silviculture and Horticulture	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	🗹 Pass	Carried Forward
Parks and Recreation Department	\checkmark	Pass	Ø	Pass	\checkmark	Pass	🗹 Pass	Carried Forward
Ontario Ministry of Transportation	(\mathbf{X})	Fail	Ø	Pass	\checkmark	Pass	V Pass	Screened Out
Landscape Contractors	\bigotimes	Pass	\checkmark	Pass	\checkmark	Pass	🗹 Pass	Carried Forward
Golf Courses	\checkmark	Pass	\checkmark	Pass		Pass	🗹 Pass	Carried Forward
Land Rehabilitation	(\mathbf{X})	Fail	\checkmark	Pass	(\mathbf{X})	Fail	V Pass	Screened Out
Co-management with Source Separated Organics	\checkmark	Pass	\checkmark	Pass	\bigotimes	Pass	🔗 Pass	Carried Forward
Fuel Additions (i.e. Syngas)	?	Further Review	\checkmark	Pass	\checkmark	Pass	Purther Review	Carried Forward
Landfill	\bigotimes	Fail	\checkmark	Pass	(\mathbf{X})	Fail	V Pass	Screened Out

Step 1 – Develop Long List of Biosolids Treatment Technologies



	– Screen Long List of lids Treatment Technologies	1. Maturity of Technology	2.Compatibility with Existing and Future Site Development and Biosolids End Use Markets	3. Proven Applicability at Similar Scale Facilities	4. Implementable	Consider for Detailed Evaluation
Biological Digestion Technologies	Thermal Hydrolysis Post-Treatment (THP)	Y Pass	Pass	Pass	Y Pass	Carried Forward
	Direct Thermal Dryer (Drum Dryer, Belt Dryer)	Pass	Pass	Pass	Pass	Carried Forward
Thermal Drying Technologies	Fluidized Bed Dryer	Pass	Pass	Fail	Fail	Screened Out
	Indirect Thermal Dryer (Paddle Dryer, Disc Dryer)	Pass	Pass	Pass	Pass	Carried Forward
	Solar Dryer	Pass	Pass	Fail	Fail	Screened Out
Chemical Stabilization Technologies	Alkaline Stabilization	Pass	Pass	Pass	Fail	Screened Out
	Alkaline Stabilization with Supplemental Heat or Acid	Pass	Pass	Pass	Pass	Carried Forward
	Alkaline Stabilization with Supplemental Heat and High-Speed Mixing	Pass	Pass	Pass	Y Pass	Carried Forward
Composting Technologies	Composting (Open Technologies Aerated Static Pile and Windrow Composting)	Pass	Pass	Pass	Pass	Carried Forward
Thermal Conversion Technologies	Incineration	Pass	Pass	Pass	Pass	Carried Forward
	Gasification	Fail	Pass	Fail	Fail	Screened Out
	Pyrolysis	Fail	Pass	Fail	Fail	Screened Out
	Wet Oxidation	Fail	Pass	Fail	Fail	Screened Out
	Hydrothermal Liquification	Fail	Pass	Fail	Fail	Screened Out

Step 2 – Results of Biosolids Treatment Technologies Screening and Associated Products



Step 3 – Develop Alternative Biosolids Management Strategies

	Management Alternative	Technology	Product	End Use	
Strategy		AD	Stabilized Liquid biosolids	Land application with liquid biosolids	
Strategy		AD + Dewatering	Stabilized Biosolids Cake	Land application with biosolids cake	
Strategy		AD+ Advanced Digestion + Dewatering	Fertilizer quality Cake	Land application of cake / un- restricted use	
Strategy	Beneficial Use on Land	AD + Dewatering + Advanced Alkaline Stabilization	Fertilizer / soil amendment	Un-restricted use on land	
Strategy		AD + Dewatering + Composting	Compost	Un-restricted use on land	
Strategy		AD + Dewatering + Drying	Dried Product	Un-restricted use on land or fuel source	
Strategy	Thermal Processing	AD + Dewatering + Incineration	Ash	Ash beneficial use + landfill	

Strategy 0 – "Do Nothing" was screened out as it does not pass criteria for 'Long Term Sustainability and Reliability' due to capacity limitations in existing system to process future biosolids quantities.

AD = Anaerobic Digestion

Step 4 - Detailed Evaluation Criteria



Natural Environment

- Terrestrial Systems
- Aquatic Systems
- Surface Water Quality
- Groundwater Quality, Quantity and source water protection
- Soil Quality
- Air Quality/GHG

Technical Considerations

- Performance
- Sustainability
- Ease of Operation
- Resiliency
- Ease of Implementation
- Compatibility with existing infrastructure
- Energy use and recovery
- Climate change adaptability
- Permits and Approvals

Socio-Cultural Environment

- Odour
- Noise/Vibrations during operation
- Visual/Aesthetics
- Truck Traffic
- Disruption during Construction
- Property Acquisition and Easements
- Recreational Use and Users
- Agricultural Land Users
- Human health and well being
- Existing and Future Adjacent Land Use Compatibility
- Archaeology / Cultural Heritage

Economic Considerations

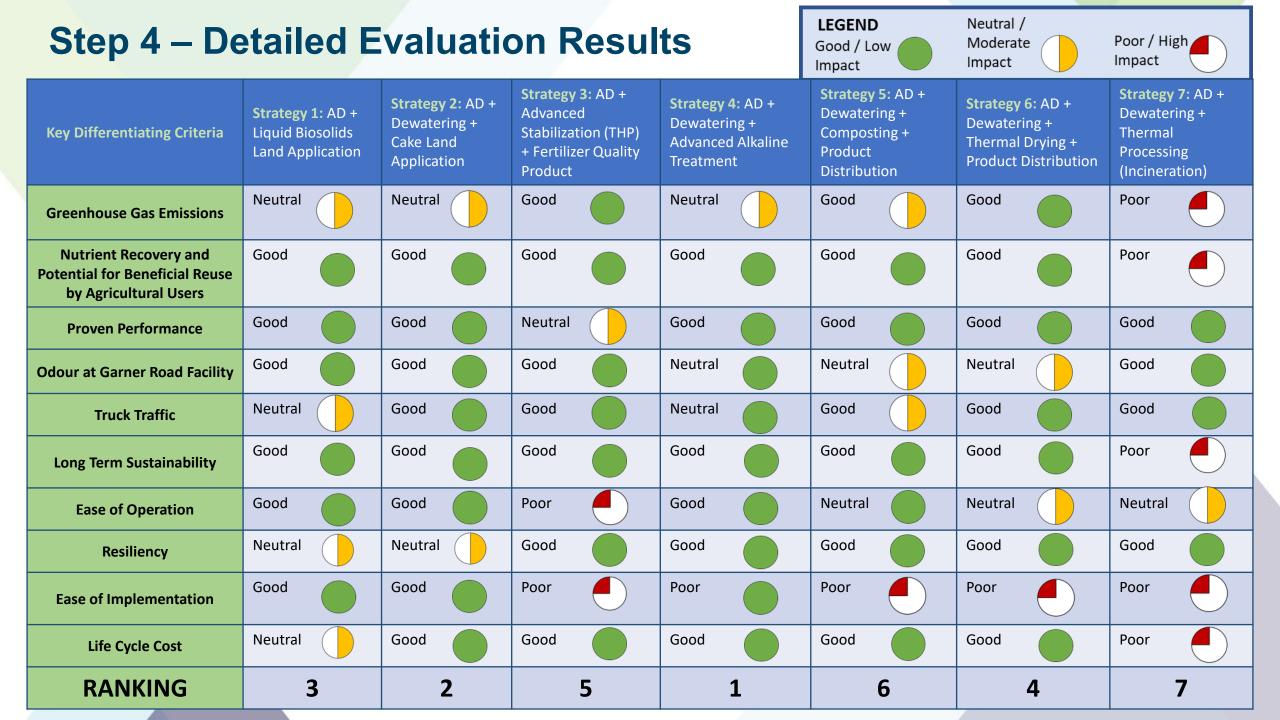
- Capital Cost
- Operating and Maintenance Cost
- Life Cycle Costs
- Best Use of Existing Investments





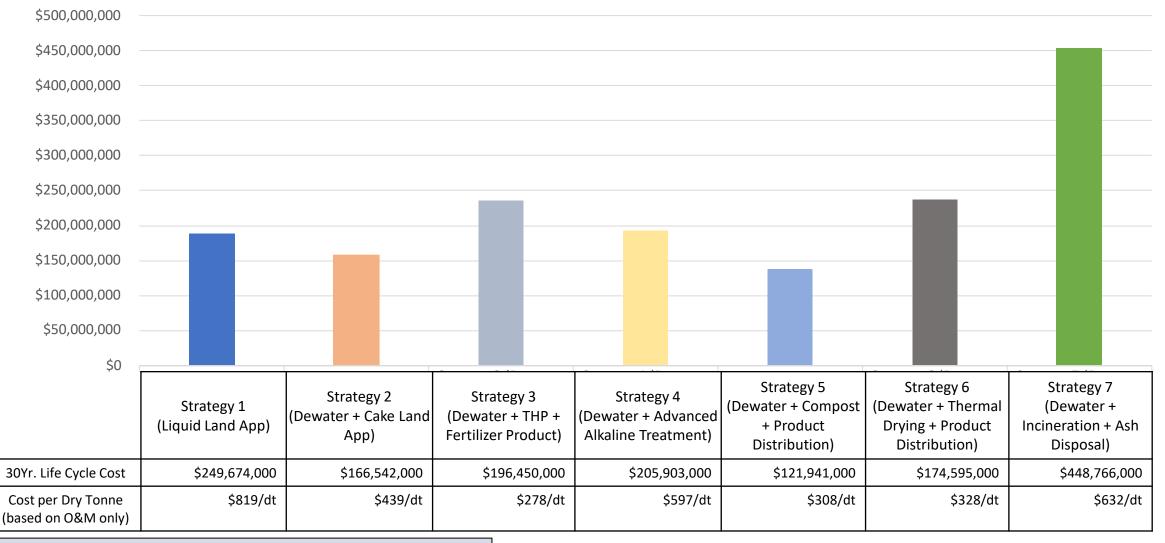


Approach: Equal weighting initially followed by sensitivity analysis prioritizing different criteria categories



Step 4 – Detailed Evaluation Results - Costs

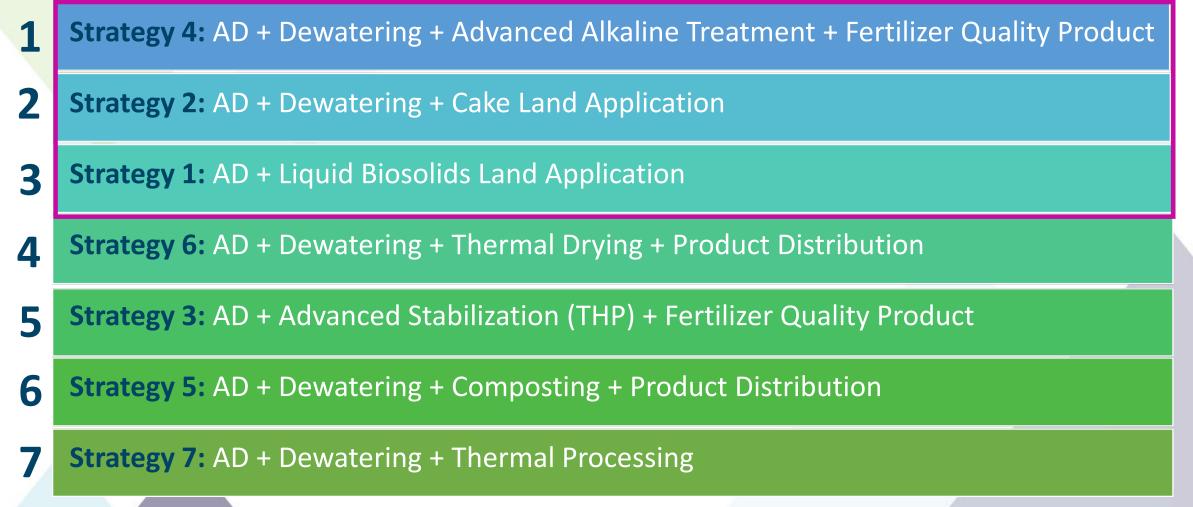
30 Yr. Life Cycle Cost for Biosolids Management Strategies



Average \$/dry tonne (dt) for current program (2014 – 2016) = \$647/dt

Step 4 – Detailed Evaluation Results - RANKING

Develop implementation plan to incorporate top 3 strategies

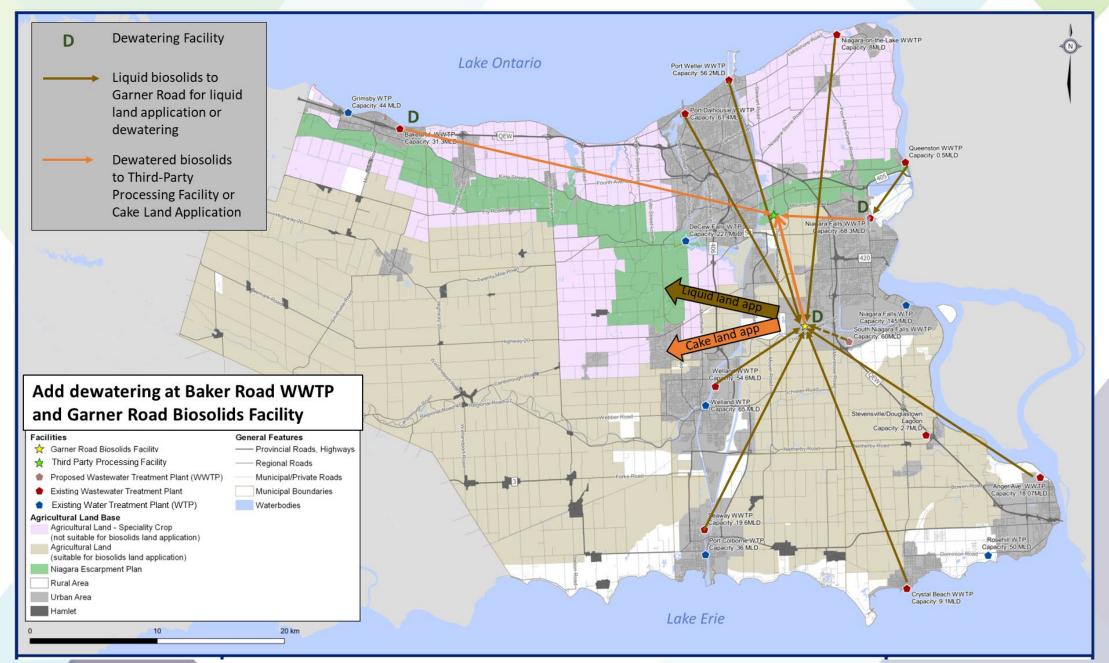


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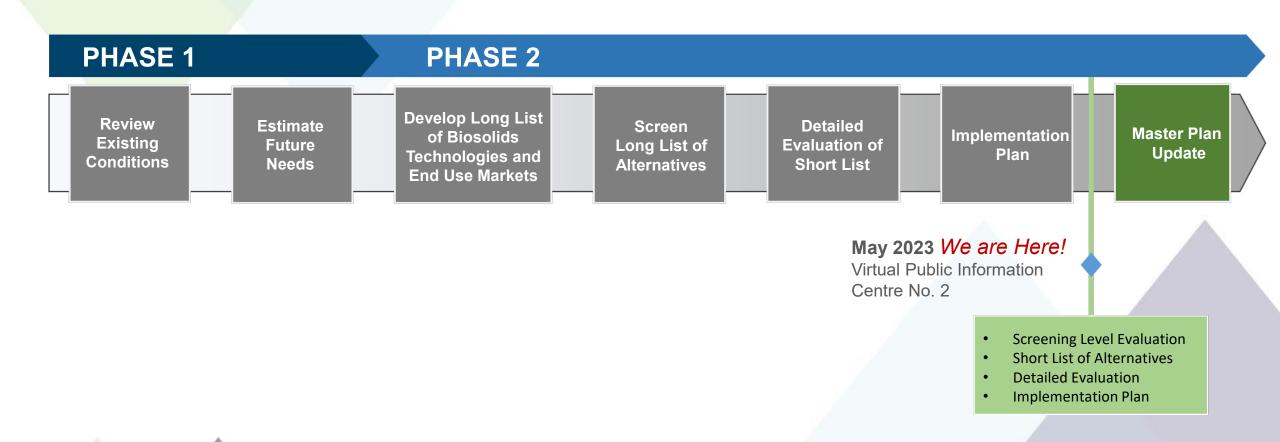
Step 5 – Preliminary Recommendations and Implementation

- Short Term Solution (1-3 years)
 - Conduct pilot study involving local farmers and third-party hauler to assess feasibility of direct land application of cake
 - Using portable centrifuge for temporary dewatering at Garner Road when existing centrifuges are unavailable
 - Continue transporting dewatered cake to N-Viro from Garner Road and Niagara Falls WWTP
- Mid Term Solution (3-5 years)
 - Add biosolids dewatering at Baker Road WWTP
- Long-Term Solution (5+ Years)
 - Construct additional dewatering capacity at Garner Road, which may incorporate flows from Niagara Falls (NF) WWTP once centrifuge at NF WWTP reaches end of useful life
 - Construct cake storage facility at Garner Road if the pilot program confirms feasible / acceptance
 - Continue liquid storage at Garner Road to maximize flexibility

Step 5 – Preliminary Recommendations and Implementation



Project Schedule



Get Involved

Public feedback is important. Sign-up to be added to the study contact list and submit any questions or comments to the Project Team. You may also submit comments at the link below, including feedback on the long list of alternatives and the evaluation criteria most important to you.

Key Dates

- May 17, 2023 to May 31, 2023: Submit Questions and Comments to Region
- June 14, 2023: Responses to Questions and Comments Posted on the Region Website
- Summer 2023: Biosolids Management Master Plan Update files for 30-Day Public Review.

Sign-up for Project Notification Updates and Provide Feedback

Sign-Up for Project Updates

Project Survey

Contact Us

niagarabiosolidsmp@niagararegion.ca Jason Oatley, Project Manager, Niagara Region Laura Verhaeghe, Project Manager, GM BluePlan Engineering Limited

Project Webpage: 2021 Biosolids Management Master Plan - Niagara Region, Ontario

APPENDIX D: PIC No. 2 Online Survey

Public Information Centre #2 - Niagara Region 2021 Biosolids Management Master Plan

Public Information Centre No. 2 comments and feedback will be accepted between May 17, 2023 - May 31, 2023

The Niagara Region is committed to ensure that all Regional services, programs and facilities are inclusive and accessible. Please contact the Project Manager, Jason Oatley (<u>niagarabiosolidsmp@niagararegion.ca</u>) if you require accommodations to provide feedback for this study.

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 related will become part of the public record and may be included in the study documentation prepared for public review.

1. First and Last Name (Optional)

Enter your answer

2. Organization (Optional)

Enter your answer

3. Do you have any comments regarding the long list of treatment technologies or end-use markets, and the results of the screening evaluation? *

Enter your answer

4. Do you have any questions or comments on the seven (7) strategies developed for detailed evaluation? *

Enter your answer

 Do you agree or disagree with the three (3) strategies selected for implementation? (Strategy 1 - Land Application of Digested Biosolids, Strategy 2 - Land Application of Dewatered Cake Biosolids, Strategy 3 - Alkaline Stabilization of Dewatered Cake to Produce Fertilizer) *

Enter your answer

6. Do you have any other comments or questions about this Master Plan? *

Enter your answer

7. If you wish to be notified for continued involvement in the study progress, please enter your email below

Enter your answer

APPENDIX E: Comments Received Summary

2021 Biosolids Management Master Plan Update Public Information Center No. 2 – Comments Received

Niagara

Virtual Public Information Centre (PIC) No. 2 was held from May 17 to May 31, 2023. This included an introductory video presentation, project materials for review, and opportunity for interested individuals to provide comments via an online submission form or through the project email.

PIC No. 2 materials for review included project introduction, the problem and opportunity statement, project approach, review of the existing biosolids and residuals management program and future needs, long list of alternatives and screening results, detailed evaluation, preliminary recommendations, and the project schedule. These materials will remain posted on the Biosolid Management Master Plan Update project website:

- Video Presentation: <u>https://www.youtube.com/watch?v=ydLe8X0v3B0</u>
- Project Information: <u>https://niagararegion.ca/projects/biosolids-master-plan/default.aspx</u>

During the 2-week engagement period, the video presentation received 29 views. One individual signed-up to be on the mailing list and receive future project notices. Comments were also provided from interested stakeholders including:

- Requested that the Region considers testing the biosolids that are land applied for Per-and Polyfluoroalkyl Substances (PFAS) and inquired if this will be addressed within the Biosolids Management Master Plan Update
- Requested consideration for reduced truck traffic related to biosolids hauling through their community

The feedback above will be considered in the development of the preferred biosolids management strategies and implementation plan. The Master Plan Update will satisfy Phases 1 & 2 of the Municipal Class Environmental Assessment process.





2021 Water and Wastewater Master Servicing Plan Update TM 3: Customer Service and Public Awareness GMBP File No. 621143 November 2023

Appendix B2– Indigenous Engagement Letters



Public Works

Water & Wastewater Services 3501 Schmon Pkwy., PO Box 1042, Thorold, ON L2V 4T7 Telephone: 905-980-6000 Toll-free: 1-800-263-7215 Fax: 905-685-5205 www.niagararegion.ca

April 19, 2023

Mr. Leroy Hill Secretary Haudenosaunee Confederacy Chiefs Council 2634 6th Line Road P.O. Box 714, Suite 600 Ohsweken, ON N0A 1M0

Dear Mr. Hill:

Niagara Region Biosolids Management Master Plan Update Region-Wide Our File: 0.02 13 20001326 - 2020 Biosolids MSP

We wish to take this opportunity to provide an update regarding the above noted project. The Region of Niagara is undertaking a Region-wide Biosolids Management Master Plan (BMMP) Update for the future management of biosolids from each of the Region's water and wastewater treatment plants to the year 2051. Biosolids are the organic materials resulting from the physical, chemical and biological treatment of sewage sludge generated at wastewater treatment plants. Biosolids have many potential beneficial uses such as application on agricultural lands.

As Niagara Region continues to grow, it is essential that we plan infrastructure and services to meet increasing demands. More people mean more wastewater, which also means more biosolids and a higher demand for treatment and management of these materials. This Master Plan will develop a holistic, longterm strategy for biosolids management in Niagara that is transparent, sustainable, reliable, environmentally friendly, cost-effective and flexible.

Currently, the Region is serviced by ten (10) wastewater treatment plants (WWTP), a wastewater lagoon serving Stevensville / Douglastown and six water treatment plants (WTPs). A new WWTP is planned to service south Niagara Falls. Biosolids are currently processed at the Garner Road Biosolids Facility, the Walker Environmental N-Viro Facility, or both, before being converted into a product appropriate for land application in the form of fertilizer or liquid biosolids. **A map of the Region showing these facilities is attached to this letter.**

As part of this study, the project team developed alternative strategies for managing biosolids. Based on results of our detailed evaluation, the preliminary preferred strategies are:

- 1. Anaerobically digest biosolids and land apply stabilized liquid biosolids
- 2. Anaerobically digest biosolids, dewater and land apply stabilized biosolids cake
- 3. Anaerobically digest biosolids, dewater, and treat with advanced alkaline stabilization (for example, the N-Viro process) to create a fertilizer quality product for land application

Haudenosaunee Confederacy Chiefs Council April 19, 2023 Page 2

To ensure flexibility and diversity in the biosolids program, a combination of the above strategies is proposed, which will reduce the number of trucks required to haul biosolids, reducing greenhouse gas emissions and community impacts. All biosolids in the Region would continue to be land applied for beneficial use.

This study follows the master planning process, as established by the Municipal Engineer's Association Class Environmental Assessment. Following this master plan study, additional Environmental Assessments studies will follow to implement the preferred solution. The Region will continue to consult key stakeholders and landowners throughout the specific EAs following this Master Plan.

The Niagara Region values its relationships with Indigenous communities, and we appreciate any input or meaningful information you have to offer as the Region proceeds through this project. If your team is interested in hearing more about this project, please contact us to arrange either a virtual or in-person meeting.

We look forward to hearing from you. Should you have any questions, we invite you to please contact me at the email address or phone number below.

Yours truly,

Jason Oatley, B.Sc., C.Chem. Project Manager Water and Wastewater Services 905-980-6000, ext. 3758 Jason.oatley@niagararegion.ca

(#L:\ENVIRONMENTAL CENTRE\ENGINEERING\O.02 - OPS & Maintenance Projects\13 20001326 - 2020 Biosolids MSP\1_PROJ_MGMT\CORR\Indigenous\MCFN\2023\2023-04-19-Haudenosaunee-Confederacy-Chiefs-NR-Biosolids-Mgmt-MMP-Update.Ltr.docx)

Attach.

cc: Leroy Hill: <u>ohahokta@hotmail.com</u> Wayne Hill: <u>tworowarchaeology@gmail.com</u>



Public Works

Water & Wastewater Services 3501 Schmon Pkwy., PO Box 1042, Thorold, ON L2V 4T7 Telephone: 905-980-6000 Toll-free: 1-800-263-7215 Fax: 905-685-5205 www.niagararegion.ca

April 19, 2023

VIA EMAIL (janicehdi@gmail.com)

Ms. Janice Bomberry Office Administrator Haudenosaunee Development Institute 16 Sunrise Court, Suite 402B P.O. Box 714 Ohsweken, ON N0A 1M0

Dear Ms. Bomberry:

Niagara Region Biosolids Management Master Plan Update Region-Wide Our File: 0.02 13 20001326 - 2020 Biosolids MSP

We wish to take this opportunity to provide an update regarding the above noted project. The Region of Niagara is undertaking a Region-wide Biosolids Management Master Plan (BMMP) Update for the future management of biosolids from each of the Region's water and wastewater treatment plants to the year 2051. Biosolids are the organic materials resulting from the physical, chemical and biological treatment of sewage sludge generated at wastewater treatment plants. Biosolids have many potential beneficial uses such as application on agricultural lands.

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Haudenosaunee Development Institute April 19, 2023 Page 2

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This study follows the master planning process, as established by the Municipal Engineer's Association Class Environmental Assessment. Following this master plan study, additional Environmental Assessments studies will follow to implement the preferred solution. The Region will continue to consult key stakeholders and landowners throughout the specific EAs following this Master Plan.

The Niagara Region values its relationships with Indigenous communities, and we appreciate any input or meaningful information you have to offer as the Region proceeds through this project. If your team is interested in hearing more about this project, please contact us to arrange either a virtual or in-person meeting.

We look forward to hearing from you. Should you have any questions, we invite you to please contact me at the email address or phone number below.

Yours truly,

Jason Oatley, B.Sc., C.Chem. Project Manager Water and Wastewater Services 905-980-6000, ext. 3758 Jason.oatley@niagararegion.ca

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Attach.

cc: General Inbox: <u>www.info@hdland</u> Todd Williams: <u>williams.todd@gmail.com; toddwilliams@hdi.land</u> Janice Williams: <u>janicewilliams@hdi.land</u>



Public Works

Water & Wastewater Services 3501 Schmon Pkwy., PO Box 1042, Thorold, ON L2V 4T7 Telephone: 905-980-6000 Toll-free: 1-800-263-7215 Fax: 905-685-5205 www.niagararegion.ca

April 19, 2023

Ms. Abby LaForme Acting Consultation Coordinator Mississaugas of the Credit First Nation 2789 Mississauga Road, R.R. #6 Hagersville, ON N0A 1H0

Dear Ms. LaForme:

Niagara Region Biosolids Management Master Plan Update Region-Wide Our File: 0.02 13 20001326 - 2020 Biosolids MSP

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Mississaugas of the Credit First Nation April 19, 2023 Page 2

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We look forward to hearing from you. Should you have any questions, we invite you to please contact me at the email address or phone number below.

Yours truly,

Jason Oatley, B.Sc., C.Chem. Project Manager Water and Wastewater Services 905-980-6000, ext. 3758 Jason.oatley@niagararegion.ca

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Attach.

cc: Chief R. Stacey LaForme: <u>stacey.laforme@mncfn.ca</u> Abby LaForme: <u>abby.laforme@mncfn.ca</u> Cathie Jamieson: <u>cathiej@mncfn.ca</u> Mark LaForme: <u>mark.laforme@mncfn.ca</u> Adam LaForme: <u>adam.laforme@mncfn.ca</u> Adrian Blake: <u>adrian.blake@mncfn.ca</u> DOCA.admin@mncfn.ca



Public Works

Water & Wastewater Services 3501 Schmon Pkwy., PO Box 1042, Thorold, ON L2V 4T7 Telephone: 905-980-6000 Toll-free: 1-800-263-7215 Fax: 905-685-5205 www.niagararegion.ca

April 19, 2023

VIA EMAIL (tanyahill-montour@sixnations.ca)

Ms. Tanya Hill-Montour Archaeology Supervisor Six Nations of the Grand River 2498 Chiefswood Road P.O. Box 5000 Ohsweken, ON N0A IM0

Dear Ms. Hill-Montour

Niagara Region Biosolids Management Master Plan Update Region-Wide Our File: 0.02 13 20001326 - 2020 Biosolids MSP

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Six Nations of the Grand River April 19, 2023 Page 2

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Yours truly,

Jason Oatley, B.Sc., C.Chem. Project Manager Water and Wastewater Services 905-980-6000, ext. 3758 Jason.oatley@niagararegion.ca

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Attach.

cc: Chief Mark B. Hill: <u>markhill@sixnations.ca</u> Dawn LaForme: <u>dlaforme@sixnations.ca</u> Tayler Hill: <u>tayler.hill@sixnations.ca</u> Lonny Bomberry: <u>lonnybomberry@sixnations.ca</u> Arleen Maracle: <u>arleenma@sixnations.ca</u>



2021 Water and Wastewater Master Servicing Plan Update TM 3: Customer Service and Public Awareness GMBP File No. 621143 November 2023

Appendix B3 – Stakeholder Correspondence and Meeting Minutes

Ministry of the Environment, Conservation and Parks

Environmental Assessment Branch

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Direction des évaluations environnementales Ontario 😵

1st Floor 135 St. Clair Avenue W Toronto <u>ON_M</u>4V 1P5 Tel.: 416 314-8001 Fax.: 416 314-8452

Rez-de-chaussée 135, avenue St. Clair Ouest Toronto <u>ON_M4V</u> 1P5 Tél. : 416 314-8001 Téléc. : 416 314-8452

June 3, 2022

(Via email only)

Albert Succi Senior Project Manager Water & Wastewater Engineering Niagara Region <u>niagarabiosolidsmp@niagararegion.ca</u>

Re: Biosolids Management Master Plan, Niagara Region Municipal Class Environmental Assessment, Master Plan Response to Notice of Commencement

Dear Albert Succi,

This letter is in response to the Notice of Commencement for the above noted project. The Ministry of the Environment, Conservation and Parks (MECP) acknowledges that Niagara Region has indicated that the study is following the approved environmental planning process for a Master Plan under the Municipal Class Environmental Assessment (Class EA).

The updated (February 2021) attached "Areas of Interest" document provides guidance regarding the ministry's interests with respect to the Class EA process. Please address all areas of interest in the EA documentation at an appropriate level for the EA study. Proponents who address all the applicable areas of interest can minimize potential delays to the project schedule. Further information is provided at the end of the Areas of Interest document relating to recent changes to the Environmental Assessment Act through Bill 197, Covid-19 Economic Recovery Act 2020.

The Crown has a legal duty to consult Aboriginal communities when it has knowledge, real or constructive, of the existence or potential existence of an Aboriginal or treaty right and contemplates conduct that may adversely impact that right. Before authorizing this project, the Crown must ensure that its duty to consult has been fulfilled, where such a duty is triggered. Although the duty to consult with Aboriginal peoples is a duty of the Crown, the Crown may delegate procedural aspects of this duty to project proponents while retaining oversight of the consultation process.

The proposed project may have the potential to affect Aboriginal or treaty rights protected under Section 35 of Canada's *Constitution Act* 1982. Where the Crown's duty to consult is triggered in relation to the proposed project, **the MECP is delegating the procedural aspects of rights-based consultation to the proponent through this letter.** The Crown intends to rely on the delegated consultation process in discharging its duty to consult and maintains the right to participate in the consultation process as it sees fit. Based on information provided to date and the Crown's preliminary assessment the proponent is required to consult with the following communities who have been identified as potentially affected by the proposed project:

- Mississaugas of the Credit First Nation
- Six Nations of the Grand River (Elected Council and Haudenosaunee Confederacy Chiefs Council with a copy to Haudenosaunee Development Institute)

Steps that the proponent may need to take in relation to Aboriginal consultation for the proposed project are outlined in the "<u>Code of Practice for Consultation in Ontario's Environmental Assessment</u> <u>Process</u>". Additional information related to Ontario's Environmental Assessment Act is available online at: <u>www.ontario.ca/environmentalassessments</u>.

Please also refer to the attached document "A Proponent's Introduction to the Delegation of Procedural Aspects of consultation with Aboriginal Communities" for further information, including the MECP's expectations for EA report documentation related to consultation with communities.

The proponent must contact the Director of Environmental Assessment Branch (EABDirector@ontario.ca) under the following circumstances subsequent to initial discussions with the communities identified by MECP:

- Aboriginal or treaty rights impacts are identified to you by the communities
- You have reason to believe that your proposed project may adversely affect an Aboriginal or treaty right
- Consultation with Indigenous communities or other stakeholders has reached an impasse
- A Part II Order request is expected on the basis of impacts to Aboriginal or treaty rights

The MECP will then assess the extent of any Crown duty to consult for the circumstances and will consider whether additional steps should be taken, including what role you will be asked to play should additional steps and activities be required.

A draft copy of the report should be sent directly to me prior to the filing of the final report, allowing a minimum of 30 days for the ministry's technical reviewers to provide comments.

Please also ensure a copy of the final notice is sent to the ministry's West Central Region EA notification email account (eanotification.wcregion@ontario.ca) after the draft report is reviewed and finalized.

Should you or any members of your project team have any questions regarding the material above, please contact me at <u>joan.delvillarcuicas@ontario.ca</u> or 365-889-1180.

Yours truly,

Jagetellitar

Joan Del Villar C Regional Environmental Planner – West Central Region

cc Katy Potter, Supervisor, Environmental Assessment Services, MECP Kim Groombridge, Niagara District Manager, MECP Kristen Farrell, Communication Coordination, GM BluePlan Engineering Limited

Attach: Areas of Interest

A Proponent's Introduction to the Delegation of Procedural Aspects of Consultation with Aboriginal Communities

AREAS OF INTEREST (v. February 2021)

It is suggested that you check off each section after you have considered / addressed it.

Planning and Policy

- Projects located in MECP Central Region are subject to <u>A Place to Grow: Growth Plan for the</u> <u>Greater Golden Horseshoe</u> (2020). Parts of the study area may also be subject to the <u>Oak Ridges</u> <u>Moraine Conservation Plan</u> (2017), <u>Niagara Escarpment Plan</u> (2017), <u>Greenbelt Plan</u> (2017) or <u>Lake</u> <u>Simcoe Protection Plan</u> (2014). Applicable plans and the applicable policies should be identified in the report, and the proponent should <u>describe</u> how the proposed project adheres to the relevant policies in these plans.
- The <u>Provincial Policy Statement</u> (2020) contains policies that protect Ontario's natural heritage and water resources. Applicable policies should be referenced in the report, and the proponent should <u>describe</u> how the proposed project is consistent with these policies.
- In addition to the provincial planning and policy level, the report should also discuss the planning context at the municipal and federal levels, as appropriate.

□ Source Water Protection

The *Clean Water Act*, 2006 (CWA) aims to protect existing and future sources of drinking water. To achieve this, several types of vulnerable areas have been delineated around surface water intakes and wellheads for every municipal residential drinking water system that is located in a source protection area. These vulnerable areas are known as a Wellhead Protection Areas (WHPAs) and surface water Intake Protection Zones (IPZs). Other vulnerable areas that have been delineated under the CWA include Highly Vulnerable Aquifers (HVAs), Significant Groundwater Recharge Areas (SGRAs), Event-based modelling areas (EBAs), and Issues Contributing Areas (ICAs). Source protection plans have been developed that include policies to address existing and future risks to sources of municipal drinking water within these vulnerable areas.

Projects that are subject to the Environmental Assessment Act that fall under a Class EA, or one of the Regulations, have the potential to impact sources of drinking water if they occur in designated vulnerable areas or in the vicinity of other at-risk drinking water systems (i.e. systems that are not municipal residential systems). MEA Class EA projects may include activities that, if located in a vulnerable area, could be a threat to sources of drinking water (i.e. have the potential to adversely affect the quality or quantity of drinking water sources) and the activity could therefore be subject to policies in a source protection plan. Where an activity poses a risk to drinking water, policies in the local source protection plan may impact how or where that activity is undertaken. Policies may prohibit certain activities, or they may require risk management measures for these activities. Municipal Official Plans, planning decisions, Class EA projects (where the project includes an activity that is a threat to drinking water) and prescribed instruments must conform with policies that address significant risks to drinking water and must have regard for policies that address moderate or low risks.

- In October 2015, the MEA Parent Class EA document was amended to include reference to the Clean Water Act (Section A.2.10.6) and indicates that proponents undertaking a Municipal Class EA project must identify early in their process whether a project is or could potentially be occurring with a vulnerable area. Given this requirement, please include a section in the report on source water protection.
 - The proponent should identify the source protection area and should clearly document how the proximity of the project to sources of drinking water (municipal or other) and any delineated vulnerable areas was considered and assessed. Specifically, the report should discuss whether or not the project is located in a vulnerable area and provide applicable details about the area.

- If located in a vulnerable area, proponents should document whether any project activities are prescribed drinking water threats and thus pose a risk to drinking water (this should be consulted on with the appropriate Source Protection Authority). Where an activity poses a risk to drinking water, the proponent must document and discuss in the report how the project adheres to or has regard to applicable policies in the local source protection plan. This section should then be used to inform and be reflected in other sections of the report, such as the identification of net positive/negative effects of alternatives, mitigation measures, evaluation of alternatives etc.
- While most source protection plans focused on including policies for significant drinking water threats in the WHPAs and IPZs it should be noted that even though source protection plan policies may not apply in HVAs, these are areas where aquifers are sensitive and at risk to impacts and within these areas, activities may impact the quality of sources of drinking water for systems other than municipal residential systems.
- In order to determine if this project is occurring within a vulnerable area, proponents can use this mapping tool: <u>http://www.applications.ene.gov.on.ca/swp/en/index.php</u>. Note that various layers (including WHPAs, WHPA-Q1 and WHPA-Q2, IPZs, HVAs, SGRAs, EBAs, ICAs) can be turned on through the "Map Legend" bar on the left. The mapping tool will also provide a link to the appropriate source protection plan in order to identify what policies may be applicable in the vulnerable area.
- For further information on the maps or source protection plan policies which may relate to their project, proponents must contact the appropriate source protection authority. Please consult with the local source protection authority to discuss potential impacts on drinking water. Please document the results of that consultation within the report and include all communication documents/correspondence.

More Information

For more information on the *Clean Water Act*, source protection areas and plans, including specific information on the vulnerable areas and drinking water threats, please refer to <u>Conservation Ontario's</u> <u>website</u> where you will also find links to the local source protection plan/assessment report.

A list of the prescribed drinking water threats can be found in <u>section 1.1 of Ontario Regulation 287/07</u> made under the *Clean Water Act*. In addition to prescribed drinking water threats, some source protection plans may include policies to address additional "local" threat activities, as approved by the MECP.

Climate Change

The document "<u>Considering Climate Change in the Environmental Assessment Process</u>" (Guide) is now a part of the Environmental Assessment program's Guides and Codes of Practice. The Guide sets out the MECP's expectation for considering climate change in the preparation, execution and documentation of environmental assessment studies and processes. The guide provides examples, approaches, resources, and references to assist proponents with consideration of climate change in EA. Proponents should review this Guide in detail.

• The MECP expects proponents of Class EA projects to:

- 1. Consider during the assessment of alternative solutions and alternative designs, the following:
 - a. the project's expected production of greenhouse gas emissions and impacts on carbon sinks (climate change mitigation); and
 - b. resilience or vulnerability of the undertaking to changing climatic conditions (climate change adaptation).
- 2. Include a discrete section in the report detailing how climate change was considered in the EA.

How climate change is considered can be qualitative or quantitative in nature and should be scaled to the project's level of environmental effect. In all instances, both a project's impacts on climate change (mitigation) and impacts of climate change on a project (adaptation) should be considered.

• The MECP has also prepared another guide to support provincial land use planning direction related to the completion of energy and emission plans. The "<u>Community Emissions Reduction Planning: A</u> <u>Guide for Municipalities</u>" document is designed to educate stakeholders on the municipal opportunities to reduce energy and greenhouse gas emissions, and to provide guidance on methods and techniques to incorporate consideration of energy and greenhouse gas emissions into municipal activities of all types. We encourage you to review the Guide for information.

□ Air Quality, Dust and Noise

- If there are sensitive receptors in the surrounding area of this project, a quantitative air quality/odour impact assessment will be useful to evaluate alternatives, determine impacts and identify appropriate mitigation measures. The scope of the assessment can be determined based on the potential effects of the proposed alternatives, and typically includes source and receptor characterization and a quantification of local air quality impacts on the sensitive receptors and the environment in the study area. The assessment will compare to all applicable standards or guidelines for all contaminants of concern. Please contact this office for further consultation on the level of Air Quality Impact Assessment required for this project if not already advised.
- If a quantitative Air Quality Impact Assessment is not required for the project, the MECP expects that the report contain a qualitative assessment which includes:
 - A discussion of local air quality including existing activities/sources that significantly impact local air quality and how the project may impact existing conditions;
 - A discussion of the nearby sensitive receptors and the project's potential air quality impacts on present and future sensitive receptors;
 - A discussion of local air quality impacts that could arise from this project during both construction and operation; and
 - A discussion of potential mitigation measures.
- As a common practice, "air quality" should be used an evaluation criterion for all road projects.
- Dust and noise control measures should be addressed and included in the construction plans to ensure that nearby residential and other sensitive land uses within the study area are not adversely affected during construction activities.
- The MECP recommends that non-chloride dust-suppressants be applied. For a comprehensive list of fugitive dust prevention and control measures that could be applied, refer to <u>Cheminfo Services Inc.</u> <u>Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities</u> report prepared for Environment Canada. March 2005.
- The report should consider the potential impacts of increased noise levels during the operation of the completed project. The proponent should explore all potential measures to mitigate significant noise impacts during the assessment of alternatives.

Ecosystem Protection and Restoration

- Any impacts to ecosystem form and function must be avoided where possible. The report should describe any proposed mitigation measures and how project planning will protect and enhance the local ecosystem.
- Natural heritage and hydrologic features should be identified and described in detail to assess potential impacts and to develop appropriate mitigation measures. The following sensitive environmental features may be located within or adjacent to the study area:

- Key Natural Heritage Features: Habitat of endangered species and threatened species, fish habitat, wetlands, areas of natural and scientific interest (ANSIs), significant valleylands, significant woodlands; significant wildlife habitat (including habitat of special concern species); sand barrens, savannahs, and tallgrass prairies; and alvars.
- Key Hydrologic Features: Permanent streams, intermittent streams, inland lakes and their littoral zones, seepage areas and springs, and wetlands.
- Other natural heritage features and areas such as: vegetation communities, rare species of flora or fauna, Environmentally Sensitive Areas, Environmentally Sensitive Policy Areas, federal and provincial parks and conservation reserves, Greenland systems etc.

We recommend consulting with the Ministry of Natural Resources and Forestry (MNRF), Fisheries and Oceans Canada (DFO) and your local conservation authority to determine if special measures or additional studies will be necessary to preserve and protect these sensitive features. In addition, you may consider the provisions of the Rouge Park Management Plan if applicable.

Species at Risk

- The Ministry of the Environment, Conservation and Parks has now assumed responsibility of Ontario's Species at Risk program. Information, standards, guidelines, reference materials and technical resources to assist you are found at https://www.ontario.ca/page/species-risk.
- The Client's Guide to Preliminary Screening for Species at Risk (Draft May 2019) has been attached to the covering email for your reference and use. Please review this document for next steps.
- For any questions related to subsequent permit requirements, please contact <u>SAROntario@ontario.ca</u>.

Surface Water

- The report must include enough information to demonstrate that there will be no negative impacts on the natural features or ecological functions of any watercourses within the study area. Measures should be included in the planning and design process to ensure that any impacts to watercourses from construction or operational activities (e.g. spills, erosion, pollution) are mitigated as part of the proposed undertaking.
- Additional stormwater runoff from new pavement can impact receiving watercourses and flood conditions. Quality and quantity control measures to treat stormwater runoff should be considered for all new impervious areas and, where possible, existing surfaces. The ministry's <u>Stormwater</u> <u>Management Planning and Design Manual (2003)</u> should be referenced in the report and utilized when designing stormwater control methods. A Stormwater Management Plan should be prepared as part of the Class EA process that includes:
 - Strategies to address potential water quantity and erosion impacts related to stormwater draining into streams or other sensitive environmental features, and to ensure that adequate (enhanced) water quality is maintained
 - Watershed information, drainage conditions, and other relevant background information
 - Future drainage conditions, stormwater management options, information on erosion and sediment control during construction, and other details of the proposed works
 - Information on maintenance and monitoring commitments.
- Ontario Regulation 60/08 under the *Ontario Water Resources Act* (OWRA) applies to the Lake Simcoe Basin, which encompasses Lake Simcoe and the lands from which surface water drains into Lake Simcoe. If the proposed sewage treatment plant is listed in Table 1 of the regulation, the report should describe how the proposed project and its mitigation measures are consistent with the requirements of this regulation and the OWRA.

Any potential approval requirements for surface water taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, except for certain water taking activities that have been prescribed by the Water Taking EASR Regulation – O. Reg. 63/16. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the <u>Water Taking User Guide for EASR</u> for more information. Additionally, an Environmental Compliance Approval under the OWRA is required for municipal stormwater management works.

Groundwater

- The status of, and potential impacts to any well water supplies should be addressed. If the project involves groundwater takings or changes to drainage patterns, the quantity and quality of groundwater may be affected due to drawdown effects or the redirection of existing contamination flows. In addition, project activities may infringe on existing wells such that they must be reconstructed or sealed and abandoned. Appropriate information to define existing groundwater conditions should be included in the report.
- If the potential construction or decommissioning of water wells is identified as an issue, the report should refer to Ontario Regulation 903, Wells, under the OWRA.
- Potential impacts to groundwater-dependent natural features should be addressed. Any changes to groundwater flow or quality from groundwater taking may interfere with the ecological processes of streams, wetlands or other surficial features. In addition, discharging contaminated or high volumes of groundwater to these features may have direct impacts on their function. Any potential effects should be identified, and appropriate mitigation measures should be recommended. The level of detail required will be dependent on the significance of the potential impacts.
- Any potential approval requirements for groundwater taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, with the exception of certain water taking activities that have been prescribed by the Water Taking EASR Regulation O. Reg. 63/16. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the <u>Water Taking User Guide for EASR</u> for more information.
- Consultation with the railroad authorities is necessary wherever there is a plan to use construction dewatering in the vicinity of railroad lines or where the zone of influence of the construction dewatering potentially intercepts railroad lines.

Excess Materials Management

 In December 2019, MECP released a new regulation under the Environmental Protection Act, titled "<u>On-Site and Excess Soil Management</u>" (O. Reg. 406/19) to support improved management of excess construction soil. This regulation is a key step to support proper management of excess soils, ensuring valuable resources don't go to waste and to provide clear rules on managing and reusing excess soil. New risk-based standards referenced by this regulation help to facilitate local beneficial reuse which in turn will reduce greenhouse gas emissions from soil transportation, while ensuring strong protection of human health and the environment. The new regulation is being phased in over time, with the first phase in effect on January 1, 2021. For more information, please visit https://www.ontario.ca/page/handling-excess-soil.

- The report should reference that activities involving the management of excess soil should be completed in accordance with O. Reg. 406/19 and the MECP's current guidance document titled "<u>Management of Excess Soil – A Guide for Best Management Practices</u>" (2014).
- All waste generated during construction must be disposed of in accordance with ministry requirements

Contaminated Sites

- Any current or historical waste disposal sites should be identified in the report. The status of these sites should be determined to confirm whether approval pursuant to Section 46 of the EPA may be required for land uses on former disposal sites. We recommend referring to the <u>MECP's D-4 guideline</u> for land use considerations near landfills and dumps.
 - Resources available may include regional/local municipal official plans and data; provincial data on large landfill sites and small landfill sites; Environmental Compliance Approval information for waste disposal sites on <u>Access Environment</u>.
- Other known contaminated sites (local, provincial, federal) in the study area should also be identified in the report (Note information on federal contaminated sites is found on the Government of Canada's <u>website</u>).
- The location of any underground storage tanks should be investigated in the report. Measures should be identified to ensure the integrity of these tanks and to ensure an appropriate response in the event of a spill. The ministry's Spills Action Centre must be contacted in such an event.
- Since the removal or movement of soils may be required, appropriate tests to determine contaminant levels from previous land uses or dumping should be undertaken. If the soils are contaminated, you must determine how and where they are to be disposed of, consistent with *Part XV.1 of the Environmental Protection Act* (EPA) and Ontario Regulation 153/04, Records of Site Condition, which details the new requirements related to site assessment and clean up. Please contact the appropriate MECP District Office for further consultation if contaminated sites are present.

□ Servicing, Utilities and Facilities

- The report should identify any above or underground utilities in the study area such as transmission lines, telephone/internet, oil/gas etc. The owners should be consulted to discuss impacts to this infrastructure, including potential spills.
- The report should identify any servicing infrastructure in the study area such as wastewater, water, stormwater that may potentially be impacted by the project.
- Any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste must have an Environmental Compliance Approval (ECA) before it can operate lawfully. Please consult with MECP's Environmental Permissions Branch to determine whether a new or amended ECA will be required for any proposed infrastructure.
- We recommend referring to the ministry's <u>environmental land use planning guides</u> to ensure that any potential land use conflicts are considered when planning for any infrastructure or facilities related to wastewater, pipelines, landfills or industrial uses.
- Mitigation and Monitoring

- Contractors must be made aware of all environmental considerations so that all environmental standards and commitments for both construction and operation are met. Mitigation measures should be clearly referenced in the report and regularly monitored during the construction stage of the project. In addition, we encourage proponents to conduct post-construction monitoring to ensure all mitigation measures have been effective and are functioning properly.
- Design and construction reports and plans should be based on a best management approach that centres on the prevention of impacts, protection of the existing environment, and opportunities for rehabilitation and enhancement of any impacted areas.
- The proponent's construction and post-construction monitoring plans must be documented in the report, as outlined in Section A.2.5 and A.4.1 of the MEA Class EA parent document.

Consultation

- The report must demonstrate how the consultation provisions of the Class EA have been fulfilled, including documentation of all stakeholder consultation efforts undertaken during the planning process. This includes a discussion in the report that identifies concerns that were raised and <u>describes how they have been addressed by the proponent</u> throughout the planning process. The report should also include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments (as directed by the Class EA to include full documentation).
- Please include the full stakeholder distribution/consultation list in the documentation.

Class EA Process

- If this project is a Master Plan: there are several different approaches that can be used to conduct a Master Plan, examples of which are outlined in Appendix 4 of the Class EA. The Master Plan should clearly indicate the selected approach for conducting the plan, by identifying whether the levels of assessment, consultation and documentation are sufficient to fulfill the requirements for Schedule B or C projects. Please note that any Schedule B or C projects identified in the plan would be subject to Part II Order Requests under the Environmental Assessment Act, although the plan itself would not be. Please include a description of the approach being undertaken (use Appendix 4 as a reference).
- If this project is a Master Plan: Any identified projects should also include information on the MCEA schedule associated with the project.
- The report should provide clear and complete documentation of the planning process in order to allow for transparency in decision-making.
- The Class EA requires the consideration of the effects of each alternative on all aspects of the environment (including planning, natural, social, cultural, economic, technical). The report should include a level of detail (e.g. hydrogeological investigations, terrestrial and aquatic assessments, cultural heritage assessments) such that all potential impacts can be identified, and appropriate mitigation measures can be developed. Any supporting studies conducted during the Class EA process should be referenced and included as part of the report.
- Please include in the report a list of all subsequent permits or approvals that may be required for the implementation of the preferred alternative, including but not limited to, MECP's PTTW, EASR Registrations and ECAs, conservation authority permits, species at risk permits, MTO permits and approvals under the *Impact Assessment Act*, 2019.

 Ministry guidelines and other information related to the issues above are available at <u>http://www.ontario.ca/environment-and-energy/environment-and-energy</u>. We encourage you to review all the available guides and to reference any relevant information in the report.

Amendments to the EAA through the Covid-19 Economic Recovery Act, 2020

Once the EA Report is finalized, the proponent must issue a Notice of Completion providing a minimum 30-day period during which documentation may be reviewed and comment and input can be submitted to the proponent. The Notice of Completion must be sent to the appropriate MECP Regional Office email address (for projects in MECP Southwest Region, the email is eanotification.swregion@ontario.ca).

The public has the ability to request a higher level of assessment on a project if they are concerned about potential adverse impacts to constitutionally protected Aboriginal and treaty rights. In addition, the Minister may issue an order on his or her own initiative within a specified time period. The Director (of the Environmental Assessment Branch) will issue a Notice of Proposed Order to the proponent if the Minister is considering an order for the project within 30 days after the conclusion of the comment period on the Notice of Completion. At this time, the Director may request additional information from the proponent. Once the requested information has been received, the Minister will have 30 days within which to make a decision or impose conditions on your project.

Therefore, the proponent cannot proceed with the project until at least 30 days after the end of the comment period provided for in the Notice of Completion. Further, the proponent may not proceed after this time if:

- a Part II Order request has been submitted to the ministry regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, or
- the Director has issued a Notice of Proposed order regarding the project.

Please ensure that the Notice of Completion advises that outstanding concerns are to be directed to the proponent for a response, and that in the event there are outstanding concerns regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, Part II Order requests on those matters should be addressed in writing to:

Minister Jeff Yurek Ministry of Environment, Conservation and Parks 777 Bay Street, 5th Floor Toronto ON M7A 2J3 minister.mecp@ontario.ca

and

Director, Environmental Assessment Branch Ministry of Environment, Conservation and Parks 135 St. Clair Ave. W, 1st Floor Toronto ON, M4V 1P5 EABDirector@ontario.ca

A PROPONENT'S INTRODUCTION TO THE DELEGATION OF PROCEDURAL ASPECTS OF CONSULTATION WITH ABORIGINAL COMMUNITIES

DEFINITIONS

The following definitions are specific to this document and may not apply in other contexts:

Aboriginal communities – the First Nation or Métis communities identified by the Crown for the purpose of consultation.

Consultation – the Crown's legal obligation to consult when the Crown has knowledge of an established or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. This is the type of consultation required pursuant to s. 35 of the *Constitution Act, 1982.* Note that this definition does not include consultation with Aboriginal communities for other reasons, such as regulatory requirements.

Crown - the Ontario Crown, acting through a particular ministry or ministries.

Procedural aspects of consultation – those portions of consultation related to the process of consultation, such as notifying an Aboriginal community about a project, providing information about the potential impacts of a project, responding to concerns raised by an Aboriginal community and proposing changes to the project to avoid negative impacts.

Proponent – the person or entity that wants to undertake a project and requires an Ontario Crown decision or approval for the project.

I. PURPOSE

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that may adversely impact that right. In outlining a framework for the duty to consult, the Supreme Court of Canada has stated that the Crown may delegate procedural aspects of consultation to third parties. This document provides general information about the Ontario Crown's approach to delegation of the procedural aspects of consultation to proponents.

This document is not intended to instruct a proponent about an individual project, and it does not constitute legal advice.

II. WHY IS IT NECESSARY TO CONSULT WITH ABORIGINAL COMMUNITIES?

The objective of the modern law of Aboriginal and treaty rights is the *reconciliation* of Aboriginal peoples and non-Aboriginal peoples and their respective rights, claims and interests. Consultation is an important component of the reconciliation process.

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. For example, the Crown's duty to consult is triggered when it considers issuing a permit, authorization or approval for a project which has the potential to adversely impact an Aboriginal right, such as the right to hunt, fish, or trap in a particular area.

The scope of consultation required in particular circumstances ranges across a spectrum depending on both the nature of the asserted or established right and the seriousness of the potential adverse impacts on that right.

Depending on the particular circumstances, the Crown may also need to take steps to accommodate the potentially impacted Aboriginal or treaty right. For example, the Crown may be required to avoid or minimize the potential adverse impacts of the project.

III. THE CROWN'S ROLE AND RESPONSIBILITIES IN THE DELEGATED CONSULTATION PROCESS

The Crown has the responsibility for ensuring that the duty to consult, and accommodate where appropriate, is met. However, the Crown may delegate the procedural aspects of consultation to a proponent.

There are different ways in which the Crown may delegate the procedural aspects of consultation to a proponent, including through a letter, a memorandum of understanding, legislation, regulation, policy and codes of practice.

If the Crown decides to delegate procedural aspects of consultation, the Crown will generally:

- Ensure that the delegation of procedural aspects of consultation and the responsibilities of the proponent are clearly communicated to the proponent;
- Identify which Aboriginal communities must be consulted;
- Provide contact information for the Aboriginal communities;
- Revise, as necessary, the list of Aboriginal communities to be consulted as new information becomes available and is assessed by the Crown;
- Assess the scope of consultation owed to the Aboriginal communities;
- Maintain appropriate oversight of the actions taken by the proponent in fulfilling the procedural aspects of consultation;
- Assess the adequacy of consultation that is undertaken and any accommodation that may be required;
- Provide a contact within any responsible ministry in case issues arise that require direction from the Crown; and
- Participate in the consultation process as necessary and as determined by the Crown.

IV. THE PROPONENT'S ROLE AND RESPONSIBILITIES IN THE DELEGATED CONSULTATION PROCESS

Where aspects of the consultation process have been delegated to a proponent, the Crown, in meeting its duty to consult, will rely on the proponent's consultation activities and documentation of those activities. The consultation process informs the Crown's decision of whether or not to approve a proposed project or activity.

A proponent's role and responsibilities will vary depending on a variety of factors including the extent of consultation required in the circumstance and the procedural aspects of consultation the Crown has delegated to it. Proponents are often in a better position than the Crown to discuss a project and its potential impacts with Aboriginal communities and to determine ways to avoid or minimize the adverse impacts of a project. A proponent can raise issues or questions with the Crown at any time during the consultation process. If issues or concerns arise during the consultation that cannot be addressed by the proponent, the proponent should contact the Crown.

a) What might a proponent be required to do in carrying out the procedural aspects of consultation?

Where the Crown delegates procedural aspects of consultation, it is often the proponent's responsibility to provide notice of the proposed project to the identified Aboriginal communities. The notice should indicate that the Crown has delegated the procedural aspects of consultation to the proponent and should include the following information:

- a description of the proposed project or activity;
- mapping;
- proposed timelines;
- details regarding anticipated environmental and other impacts;
- details regarding opportunities to comment; and
- any changes to the proposed project that have been made for seasonal conditions or other factors, where relevant.

Proponents should provide enough information and time to allow Aboriginal communities to provide meaningful feedback regarding the potential impacts of the project. Depending on the nature of consultation required for a project, a proponent also may be required to:

- provide the Crown with copies of any consultation plans prepared and an opportunity to review and comment;
- ensure that any necessary follow-up discussions with Aboriginal communities take place in a timely manner, including to confirm receipt of information, share and update information and to address questions or concerns that may arise;
- as appropriate, discuss with Aboriginal communities potential mitigation measures and/or changes to the project in response to concerns raised by Aboriginal communities;
- use language that is accessible and not overly technical, and translate material into Aboriginal languages where requested or appropriate;
- bear the reasonable costs associated with the consultation process such as, but not limited to, meeting hall rental, meal costs, document translation(s), or to address technical & capacity issues;
- provide the Crown with all the details about potential impacts on established or asserted Aboriginal or treaty rights, how these concerns have been considered and addressed by the proponent and the Aboriginal communities and any steps taken to mitigate the potential impacts;
- provide the Crown with complete and accurate documentation from these meetings and communications; and
- notify the Crown immediately if an Aboriginal community not identified by the Crown approaches the proponent seeking consultation opportunities.

b) What documentation and reporting does the Crown need from the proponent?

Proponents should keep records of all communications with the Aboriginal communities involved in the consultation process and any information provided to these Aboriginal communities.

As the Crown is required to assess the adequacy of consultation, it needs documentation to satisfy itself that the proponent has fulfilled the procedural aspects of consultation delegated to it. The documentation required would typically include:

- the date of meetings, the agendas, any materials distributed, those in attendance and copies of any minutes prepared;
- the description of the proposed project that was shared at the meeting;
- any and all concerns or other feedback provided by the communities;
- any information that was shared by a community in relation to its asserted or established Aboriginal or treaty rights and any potential adverse impacts of the proposed activity, approval or disposition on such rights;
- any proposed project changes or mitigation measures that were discussed, and feedback from Aboriginal communities about the proposed changes and measures;
- any commitments made by the proponent in response to any concerns raised, and feedback from Aboriginal communities on those commitments;
- copies of correspondence to or from Aboriginal communities, and any materials distributed electronically or by mail;
- information regarding any financial assistance provided by the proponent to enable participation by Aboriginal communities in the consultation;
- periodic consultation progress reports or copies of meeting notes if requested by the Crown;
- a summary of how the delegated aspects of consultation were carried out and the results; and
- a summary of issues raised by the Aboriginal communities, how the issues were addressed and any outstanding issues.

In certain circumstances, the Crown may share and discuss the proponent's consultation record with an Aboriginal community to ensure that it is an accurate reflection of the consultation process.

c) Will the Crown require a proponent to provide information about its commercial arrangements with Aboriginal communities?

The Crown may require a proponent to share information about aspects of commercial arrangements between the proponent and Aboriginal communities where the arrangements:

- include elements that are directed at mitigating or otherwise addressing impacts of the project;
- include securing an Aboriginal community's support for the project; or
- may potentially affect the obligations of the Crown to the Aboriginal communities.

The proponent should make every reasonable effort to exempt the Crown from confidentiality provisions in commercial arrangements with Aboriginal communities to the extent necessary to allow this information to be shared with the Crown.

The Crown cannot guarantee that information shared with the Crown will remain confidential. Confidential commercial information should not be provided to the Crown as part of the consultation record if it is not relevant to the duty to consult or otherwise required to be submitted to the Crown as part of the regulatory process.

V. WHAT ARE THE ROLES AND RESPONSIBILITIES OF ABORIGINAL COMMUNITIES' IN THE CONSULTATION PROCESS?

Like the Crown, Aboriginal communities are expected to engage in consultation in good faith. This includes:

- responding to the consultation notice;
- engaging in the proposed consultation process;
- providing relevant documentation;
- clearly articulating the potential impacts of the proposed project on Aboriginal or treaty rights; and
- discussing ways to mitigates any adverse impacts.

Some Aboriginal communities have developed tools, such as consultation protocols, policies or processes that provide guidance on how they would prefer to be consulted. Although not legally binding, proponents are encouraged to respect these community processes where it is reasonable to do so. Please note that there is no obligation for a proponent to pay a fee to an Aboriginal community in order to enter into a consultation process.

To ensure that the Crown is aware of existing community consultation protocols, proponents should contact the relevant Crown ministry when presented with a consultation protocol by an Aboriginal community or anyone purporting to be a representative of an Aboriginal community.

VI. WHAT IF MORE THAN ONE PROVINCIAL CROWN MINISTRY IS INVOLVED IN APPROVING A PROPONENT'S PROJECT?

Depending on the project and the required permits or approvals, one or more ministries may delegate procedural aspects of the Crown's duty to consult to the proponent. The proponent may contact individual ministries for guidance related to the delegation of procedural aspects of consultation for ministry-specific permits/approvals required for the project in question. Proponents are encouraged to seek input from all involved Crown ministries sooner rather than later.

Samantha Morrisey - GM BluePlan

From:	Laura Verhaeghe - GM BluePlan
Sent:	Wednesday, June 15, 2022 8:51 AM
То:	Tansony, Cheryl (NDMNRF)
Cc:	albert.succi@niagararegion.ca; Laurie Boyce - GM BluePlan; Laven, Amaraine (NDMNRF);
	Danielle MacKinnon - GM BluePlan
Subject:	RE: Notice of Study Commencement and Public Information Centre No. 1 - Biosolids
	Management Master Plan Update

Good Morning Cheryl,

Thank you for your response below. We will keep you informed of updates related to the Biosolid Management Master Plan, and ensure you have opportunities to provide feedback as we progress through the study.

Best Regards,

Laura Verhaeghe, P.Eng. Project Manager

GM BluePlan Engineering Limited 650 Woodlawn Road West, Block C, Unit 2 | Guelph ON N1K 1B8 t: 519.824.8150 ext. 1256 | c: 226.500.4771 Iaura.verhaeghe@gmblueplan.ca | www.gmblueplan.ca



From: Tansony, Cheryl (NDMNRF) <Cheryl.Tansony@ontario.ca>
Sent: Tuesday, June 14, 2022 4:02 PM
To: Kristen Farrell - GM BluePlan <Kristen.Farrell@gmblueplan.ca>
Cc: albert.succi@niagararegion.ca; Laurie Boyce - GM BluePlan <Laurie.Boyce@gmblueplan.ca>; Laura Verhaeghe - GM BluePlan <Laura.Verhaeghe@gmblueplan.ca>; Laven, Amaraine (NDMNRF) <Amaraine.Laven@ontario.ca>
Subject: RE: Notice of Study Commencement and Public Information Centre No. 1 - Biosolids Management Master Plan Update

Good afternoon,

Staff of the Niagara Escarpment Commission have received the Notice of Study Commencement for this project. We wish to be involved in this study, as the Queenston WWTP and Decew Falls WTP are within the Niagara Escarpment Plan Area and Area of Development Control.

For further information regarding the Niagara Escarpment Plan, please consult our website. <u>Niagara Escarpment Plan - Niagara Escarpment Commission</u>

Kind regards,

Cheryl Tansony Senior Planner | Niagara Escarpment Commission 232 Guelph Street, Georgetown, Ontario, L7G 4B1



As part of providing <u>accessible customer service</u>, please let me know if you have any accommodation needs or require communication supports or alternate formats.

The NEC offices are now open to the public in a limited capacity. In order to ensure a safe and secure environment for staff and clients, the NEC **requires** that you make an appointment to meet with staff in person. Alternatively, the NEC will continue to provide services via telephone and email. Updates can be found on our website: <u>https://escarpment.org/covid-19-update/</u>

From: Kristen Farrell - GM BluePlan <<u>Kristen.Farrell@gmblueplan.ca</u>>
Sent: May 25, 2022 2:52 PM
To: Kristen Farrell - GM BluePlan <<u>Kristen.Farrell@gmblueplan.ca</u>>
Cc: albert.succi@niagararegion.ca; Laurie Boyce - GM BluePlan <<u>Laurie.Boyce@gmblueplan.ca</u>>; Laura Verhaeghe@gmblueplan.ca>
Subject: Notice of Study Commencement and Public Information Centre No. 1 - Biosolids Management Master Plan
Update

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender. Good Afternoon,

Niagara Region has initiated the **Biosolids Management Master Plan Update** that will identify and develop a strategy for meeting Niagara's biosolids treatment needs to the year 2051.

Please find attached the Notice of Study Commencement and Public Information Centre No. 1 which contains further details about the study and the upcoming virtual Public Information Centre commencing **Wednesday June 8, 2022**. You are invited to attend to ask questions and provide input to the study.

As part of the study's consultation program, you are currently included in the study contact list. If you wish to be removed or would like to suggest an alternative representative, please contact the undersigned. Should we not hear from you, your details will remain on the study contact list and you will be notified of all future consultation opportunities during the undertaking of this study.

Should you have any comments or questions, please contact Albert Succi, Senior Project Manager (<u>niagarabiosolidsmp@niagararegion.ca</u>).

Sincerely,

Kristen Farrell, EPt Communications Coordinator

GM BluePlan Engineering Limited 1266 South Service Road, Unit C31 | Stoney Creek, ON L8E 5R9 c: 289-442-2979 <u>kristen.farrell@gmblueplan.ca</u> | <u>www.gmblueplan.ca</u>



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From:	Samantha Morrisey - GM BluePlan
To:	Kelly Walsh
Cc:	<u>GStojanovic; Chris Pisaric; Laura Verhaeghe - GM BluePlan</u>
Subject:	RE: Invitation: Niagara Region 2021 Biosolids Management Master Plan (Apr 21 10:00 AM EDT in Microsoft Teams Meeting)
Date:	Thursday, April 06, 2023 12:40:00 PM
Attachments:	image001.jpg

Hi Kelly

Thank you for your email regarding the Niagara Region 2021 Biosolids Management Master Plan

I have forwarded the meeting invite to George and Chris – of course let me know if there are any issues with accessing the meeting link and if you would like me to forward the invite along to anyone else

PIC No.1 materials are posted on the dedicated project website for review – this includes a video presentation with slides. Please see below for the website link

2021 Biosolids Management Master Plan Project Website : <u>https://niagararegion.ca/projects/biosolids-master-plan</u>

Additionally, if you would like to submit comments to us in writing ahead of the meeting, we can ensure they are addressed within the presentation

Thank you and hope you all have a great long weekend! Sam

Samantha Morrisey, EIT Asset Management

GM BluePlan Engineering Limited 1266 South Service Rd, Unit C3-1 | Stoney Creek, ON L8E 5R9 c:1-905-517-1304 samantha.morrisey@gmblueplan.ca | www.gmblueplan.ca



From: Kelly Walsh <KWalsh@forterie.ca>

Sent: Thursday, April 06, 2023 9:31 AM

To: Samantha Morrisey - GM BluePlan <samantha.morrisey@gmblueplan.ca>

Cc: GStojanovic <GStojanovic@forterie.ca>; Chris Pisaric <CPisaric@forterie.ca>

Subject: Re: Invitation: Niagara Region 2021 Biosolids Management Master Plan (Apr 21 10:00 AM EDT in Microsoft Teams Meeting)

Samantha,

I don't think anyone from Fort Erie attended the intial meetings or PIC.

We do have concerns with the program though. Please send this invite to both George Stojanovic and Chris Pisaric, Managers of Roads and Water/Wastewater respectively. Same email format as mine.

Kelly M. Walsh, P. Eng.

Director, Infrastructure Services The Corporation of the Town of Fort Erie 1 Municipal Centre Drive | Fort Erie, ON | L2A 2S6 W: 905-871-1600 ext. 2400

Please consider the environment before printing this email

Invitation: Niagara Region 2021 Biosolids Management Master Plan

2023-04-21 Fri 10:00 AM - 12:00 PM

Attendance is required for Kelly Walsh

Chair samantha.morrisey@gmblueplan.ca

Location

Microsoft Teams Meeting

samantha.morriseyhas invited you to a meeting. You have not yet responded.

	Laura.Verhaeghe@gmblueplan.ca, jim.harnum@municipalvu.ca, Jason.oatley@niagararegion.ca,								
	robert.daw@niagararegion.ca, brad.stewart@niagararegion.ca, josh.macarthur@niagararegion.ca,								
	geoff.holman@thorold.com, bwartman@grimsby.ca, mingebrigtsen@grimsby.ca,								
	wbasic@grimsby.ca, enickel@niagarafalls.ca, studini@niagarafalls.ca,								
	kschachowskoj@niagarafalls.ca, aherlovitch@niagarafalls.ca, bchambers@niagarafalls.ca,								
	kdren@niagarafalls.ca, bdick@niagarafalls.ca, sfelicetti@niagarafalls.ca, jguarasci@niagarafalls.ca,								
	imarr@pelham.ca, bwiens@pelham.ca, chris.kalimootoo@portcolborne.ca,								
Deguired	Steve.Shypowskyj@portcolborne.ca, dan.aquilina@portcolborne.ca, david.schulz@portcolborne.ca,								
Required	amartuccio@stcatharines.ca, tkitav@stcatharines.ca, rnan@wainfleet.ca, ssmith@wainfleet.ca,								
	sherri-marie.millar@welland.ca, dgraham@lincoln.ca, kdale@lincoln.ca, Kelly Walsh/FortErie,								
	smcgean@westlincoln.ca, jbernard@westlincoln.ca, rvachon@westlincoln.ca,								
	gboerema@westlincoln.ca, kmccauley@notl.org, jeff.vyse@notl.com, Mike.Komljenovic@notl.com,								
	Brett.Ruck@notl.com, Joan.DelVillarCuicas@ontario.ca, kim.groombridge@ontario.ca,								
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	idiamond@npca.ca, ngreen@npca.ca								
	Jacobian Carlo and Carlo a								

Good Afternoon,

Niagara Region is undertaking a Region-wide Biosolids Management Master Plan (BMMP) Update for the future management of biosolids from each of the Region's water and wastewater treatment plants to the year 2051. The first PIC to introduce the study and approach was held virtually in June 2022. Since that time, our team has developed and evaluated alternative biosolids

management strategies. On April 21, we would like to present our preliminary strategy evaluation results and proposed implementation plan. This will provide an opportunity for local area municipalities and agencies to ask questions and offer feedback on the preferred strategy before we present this information to a greater audience through PIC 2.

Please forward this meeting invite along to others on your team that may be interested.

For further details on this study, please visit the Region's website at this link: <u>https://niagararegion.ca/projects/biosolids-master-plan</u>

Microsoft Teams meeting Join on your computer, mobile app or room device <u>Click here to join the meeting</u> Meeting ID: 264 357 794 450 Passcode: n2yZtY Download Teams | Join on the web **Or call in (audio only)** +1 647-749-5899,,716952958# Canada, Toronto Phone Conference ID: 716 952 958# Eind a local number | Reset PIN Learn More | Meeting options

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Biosolids Management Master Plan Update







- 1. Introductions
- 2. **Background and Objectives**
- **Study Area and Existing Conditions** 3.
- **Biosolids Management Strategies and Evaluation** 4.
- **Preliminary Recommended Strategies** 5.
- Schedule and Next Steps 6.

Meeting Objectives

- 1.
- 2.
- 3. strategy



Update Local Area Municipalities and Agencies on the Region's **Biosolids Master Plan**

Present biosolids management strategies, evaluation and preferred approach

Obtain feedback on preferred



Region STEERING C	OMMITTEE						
Jason Oatley							
Project Manager							
Brad Stewart							
Biosolids Manager							
Robert Daw							
or of Wastewater Operat	ions						
	🔨 🔁 BLACK & VEATCH						
Laura Verhaeghe							
GM BluePlan	Laurie Boyce						
Project Manager	L3 Senior Advisor						
Brad Young	Jim Harnum						
CIMA+	Municipal VU						
Process Engineer	Communications Le						
	Jason Oatley Project Manager Brad Stewart Biosolids Manager Robert Daw or of Wastewater Operat Come Laura Verhaeghe GM BluePlan Project Manager						

Introductions





The Niagara Region is undertaking a region-wide **Biosolids Management** Master Plan (BMMP) Update for the future management of biosolids from each of the Region's water and wastewater treatment plants.

As Niagara Region continues to grow, we need to make sure that we plan our infrastructure and services to meet increasing demands. More people means more wastewater, which also means more biosolids and a higher demand for treatment and management of these materials. This project will also build upon the recommendations in the 2010 BMMP, by considering regulatory and environmental changes since its implementation. As part of Niagara Region's planning activities, the BMMP will continue to be updated every ten years.

Background and Objectives

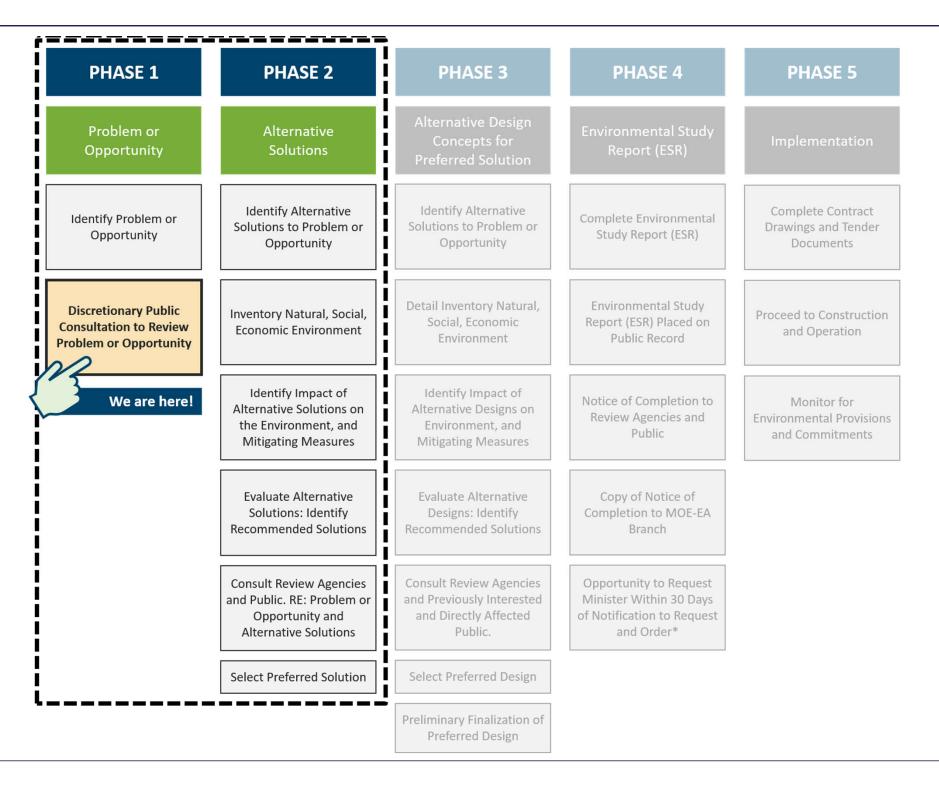


Background and Objectives

Project Approach

This project is following the Class Environmental Assessment (EA) process for Master Plan Projects, which is a decision-making process that all Ontario municipalities follow for rehabilitating and building new infrastructure.

The 2021 BMMP follows the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for Master Plans and will satisfy Phases 1 and 2 of the Class EA process.

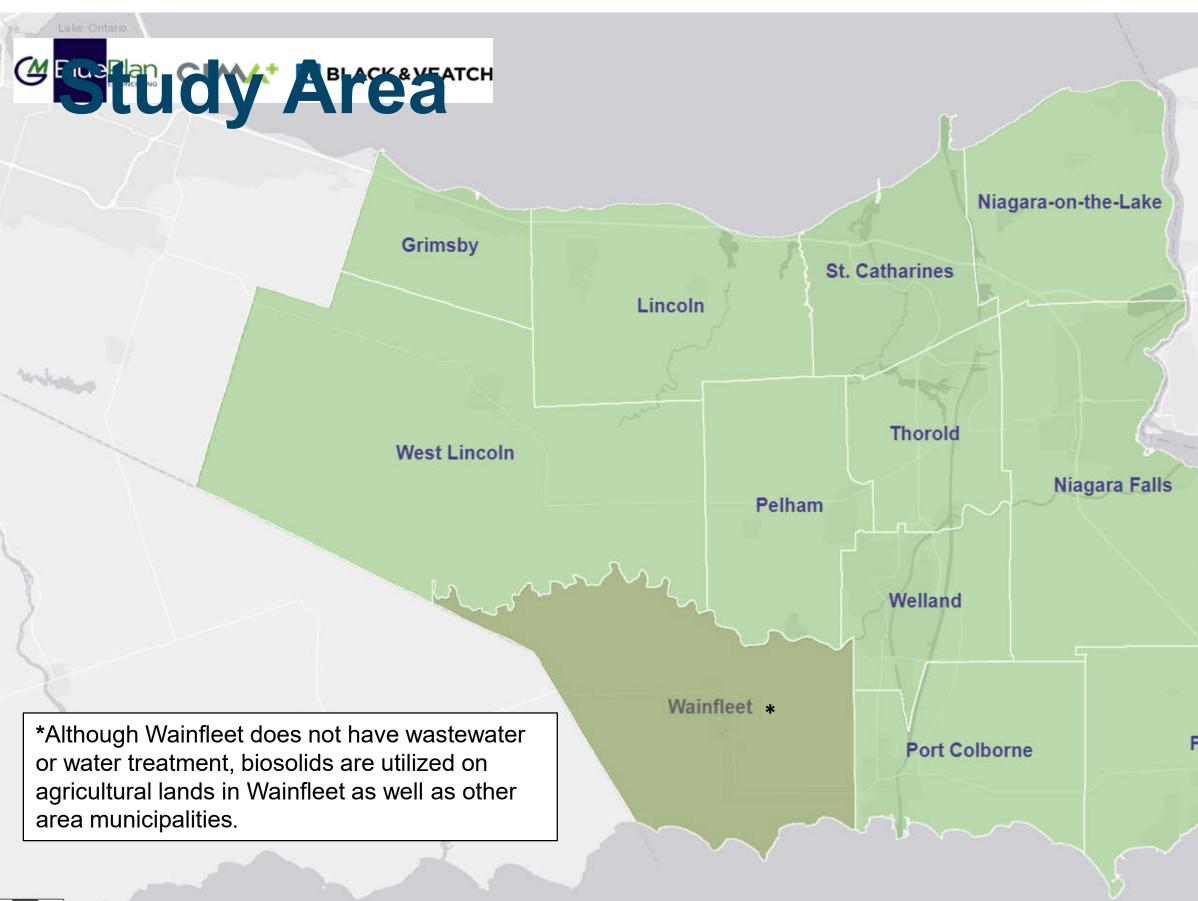




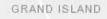
Problem and Opportunity Statement

The purpose of the Biosolids Management Master Plan Update is to develop a holistic, long-term strategy for biosolids management in Niagara in a manner that is transparent, sustainable, reliable, environmentally friendly, cost-effective and flexible.

Background and Objectives



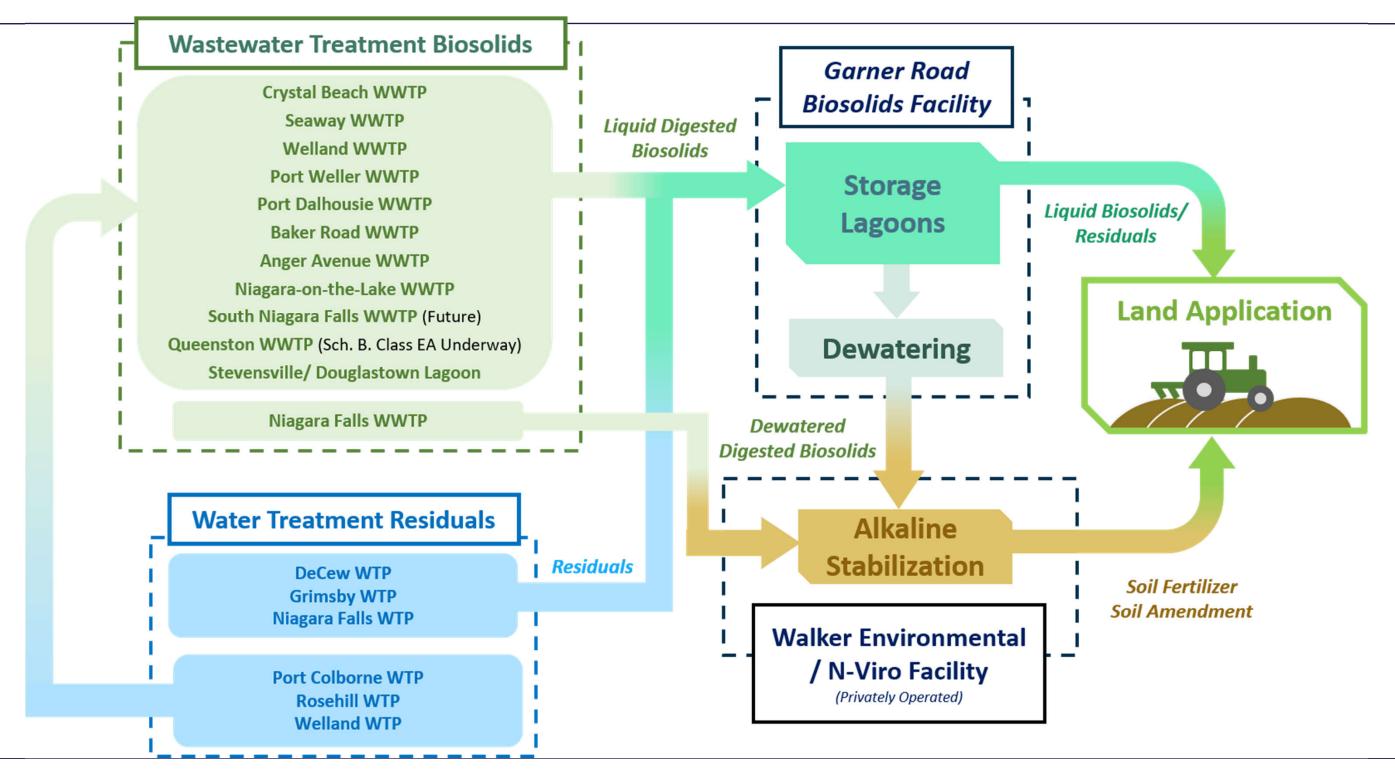
The 2021 Biosolids Management Master Plan Update is applicable to all wastewater treatment plants and water treatment plants in Grimsby, West Lincoln, Lincoln, St. Catharines, Thorold, Welland, Pelham, Port Colborne, Niagaraon-the-Lake, Niagara Falls, and Fort Erie.



Fort Erie

Blue Plan CIMA 💀 BLACK & VEATCH

Existing Biosolids Management System





Existing Beneficial Uses Program Liquid Biosolids Management



Garner Road Biosolids Facility

Liquid biosolids and residuals (~50% of biosolids produced in Niagara Region) are:

- 1. Hauled to the Garner Road Biosolids Facility by Third Party Contractor (currently Thomas Nutrient Solutions),
- 2. Stored and thickened in lagoons at the Garner Road Biosolids Facility,
- 3. Hauled away and applied as a liquid fertilizer to agricultural land by Third Party Contractor (currently Thomas Nutrient Solution)



Land application of biosolids



Existing Beneficial Uses Program Dewatered Biosolids Management



- 1. Niagara Falls.
- 2. soil-like product (N-Rich)
- 3. Niagara.

Walker Environmental (N-Viro) Facility

Dewatered biosolids from the Garner Road Biosolids Facility and Niagara Falls WWTP (~50% of biosolids produced in Niagara Region) are:

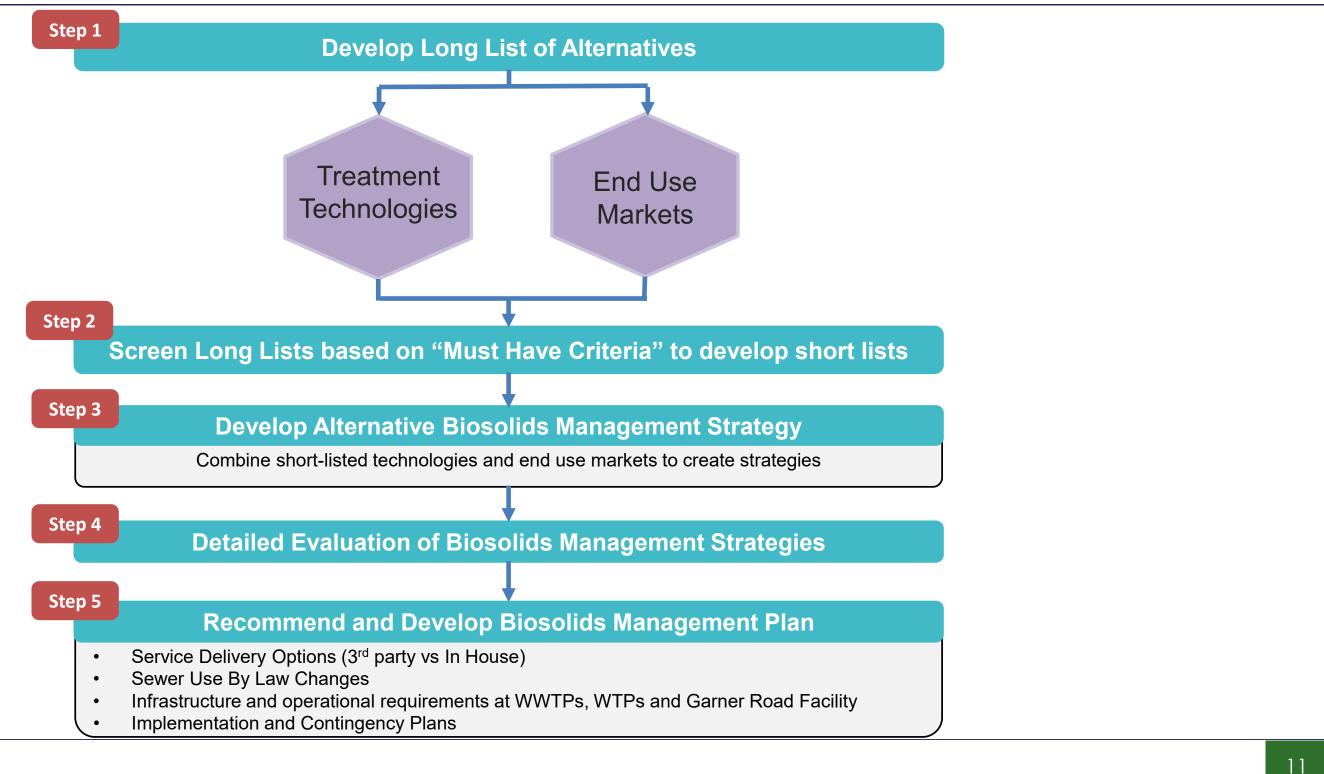
Hauled to the Walker Environmental Facility in

Treated using alkaline stabilization (N-Viro process) to produce a high solids, nutrient rich

Hauled away and applied as a solid cake fertilizer to agricultural land by Third Party Contractor. Approximately 30% (8,000 – 10,000 metric tonnes) of N-Rich product is utilized in



Alternative Evaluation Approach





Step 1 – Develop Long List of Biosolids End Use Markets



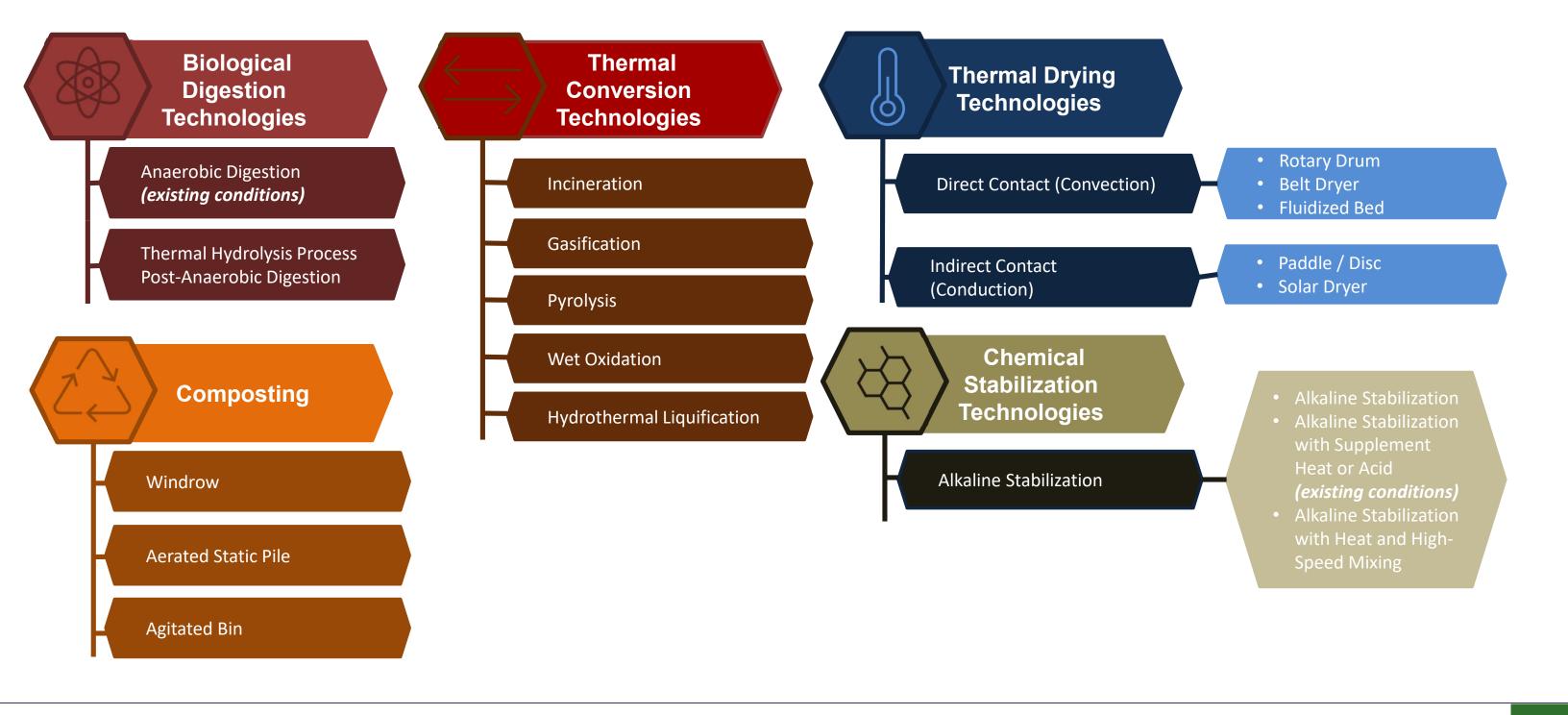


Step 2 – Screen Long List of Biosolids End Use Markets

	Market	Availability	Compatibility with Current Program			rm Reliability ustainability	Implem	nentable	Screening Results
Agricultural, Silviculture and Horticulture	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	Ø	Pass	Carried Forward
Parks and Recreation Department	\checkmark	Pass	Ø	Pass	\checkmark	Pass	Ø	Pass	Carried Forward
Ontario Ministry of Transportation	(\mathbf{X})	Fail	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	Screened Out
Landscape Contractors	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	Carried Forward
Golf Courses	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	Carried Forward
Land Rehabilitation	(\mathbf{X})	Fail	\checkmark	Pass	\bigotimes	Fail	\checkmark	Pass	Screened Out
Co-management with Source Separated Organics	Ø	Pass	Ø	Pass	Ø	Pass	Ø	Pass	Carried Forward
Fuel Additions (ie. Syngas)	?	Further Review	\checkmark	Pass	\checkmark	Pass	?	Further Review	Carried Forward
Landfill		Fail	\checkmark	Pass	(\mathbf{X})	Fail	Ø	Pass	Screened Out



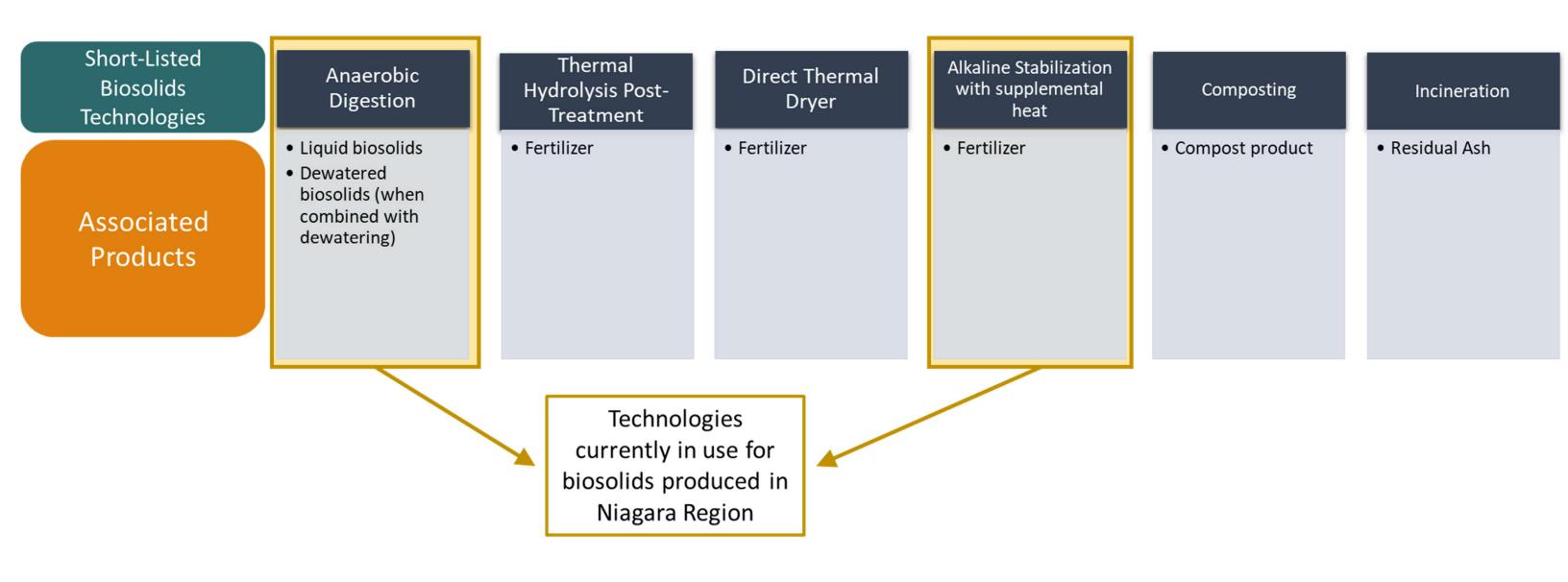
Step 1 – Develop Long List of Biosolids Treatment Technologies



	Screen Long List of Biosolids nt Technologies	1. Maturity of Technology		2.Compatibility with Existing and Future Site Development and Biosolids End Use Markets		3. Proven Applicability at Similar Scale Facilities		4. Implementable		Consider for Detailed Evaluation
Biological Digestion Technologies	Thermal Hydrolysis Post-Treatment (THP)	\checkmark	Pass		Pass	Ø	Pass	Ø	Pass	Carried Forward
	Direct Thermal Dryer (Drum Dryer, Belt Dryer)	\checkmark	Pass	\bigcirc	Pass	\checkmark	Pass	\checkmark	Pass	Carried Forward
Thermal	Fluidized Bed Dryer	\checkmark	Pass	\checkmark	Pass	(\mathbf{X})	Fail	(\mathbf{X})	Fail	Screened Out
Drying Technologies	Indirect Thermal Dryer (Paddle Dryer, Disc Dryer)	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	Carried Forward
	Solar Dryer	\checkmark	Pass	\checkmark	Pass	(\mathbf{X})	Fail	(\mathbf{X})	Fail	Screened Out
	Alkaline Stabilization	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	(\mathbf{X})	Fail	Screened Out
Chemical Stabilization	Alkaline Stabilization with Supplemental Heat or Acid	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	Carried Forward
Technologies	Alkaline Stabilization with Supplemental Heat and High-Speed Mixing	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	Carried Forward
Composting Technologies	Composting (Open Technologies Aerated Static Pile and Windrow Composting)	Ø	Pass	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	Carried Forward
	Incineration	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	Carried Forward
Thermal Conversion Technologies	Gasification	(\mathbf{X})	Fail	\checkmark	Pass	(\mathbf{X})	Fail	(\mathbf{X})	Fail	Screened Out
	Pyrolysis	(\mathbf{X})	Fail	\checkmark	Pass		Fail	(\mathbf{X})	Fail	Screened Out
	Wet Oxidation	(\mathbf{X})	Fail	\checkmark	Pass	(\mathbf{X})	Fail	(\mathbf{X})	Fail	Screened Out
	Hydrothermal Liquification	\mathbf{X}	Fail	\checkmark	Pass	\mathbf{X}	Fail	\mathbf{X}	Fail	Screened Out



Step 2 – Results of Biosolids Treatment Technologies Screening and Associated Products





Step 3 – Develop Alternative Biosolids Management Strategies

	Management Alternative	Process	Product	Final User			
Strategy 1		AD	Stabilized Liquid biosolids	Land application with liquid biosolids			
Strategy 2		AD + Dewatering	Stabilized Biosolids Cake	Land application with biosolids cake			
Strategy 3		AD+ Advanced Digestion + Dewatering	Fertilizer quality Cake	Land application of cake / un- restricted use			
	Beneficial Use	AD + Dewatering +					
Strategy 4	on Land	Advanced Alkaline Stabilization	Fertilizer / soil amendment	Un-restricted use on land			
Strategy 5		AD + Dewatering + Composting	Compost	Un-restricted use on land			
Strategy 6		AD + Dewatering + Drying	Dried Product	Un-restricted use on land or fuel source			
Strategy 7	Thermal Processing	AD + Dewatering + Incineration	Ash	Ash beneficial use + landfill			

Strategy 0 – "Do Nothing" was screened out as it does not pass criteria for 'Long Term Sustainability and Reliability' due to capacity limitations in existing system to process future biosolids quantities.



Step 4 - Detailed Evaluation Criteria



Natural Environment

- **Terrestrial Systems**
- **Aquatic Systems**
- Surface Water Quality
- Groundwater Quality, Quantity and source water protection
- Soil Quality
- Air Quality/GHG

Technical Considerations

- Performance
- Sustainability
- Ease of Operation
- Resiliency
- Ease of Implementation
- Compatibility with existing infrastructure
- Energy use and recovery
- Climate change adaptability
- Permits and Approvals

Socio-Cultural Environment

- Odour
- Noise/Vibrations during operation
- Visual/Aesthetics
- Truck Traffic
- **Disruption during Construction**
- Property Acquisition and Easements
- **Recreational Use and Users**
- **Agricultural Land Users**
- Human health and well being
- Existing and Future Adjacent Land Use Compatibility
- Archaeology / Cultural Heritage

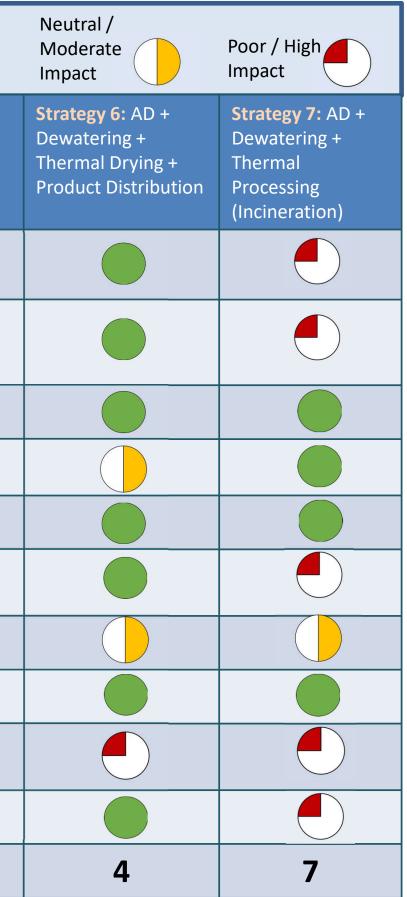
Economic Considerations

- **Capital Cost**
- **Operating and Maintenance Cost**
- Life Cycle Costs
- **Best Use of Existing Investments**

Approach: Equal weighting initially followed by sensitivity analysis prioritizing different criteria categories

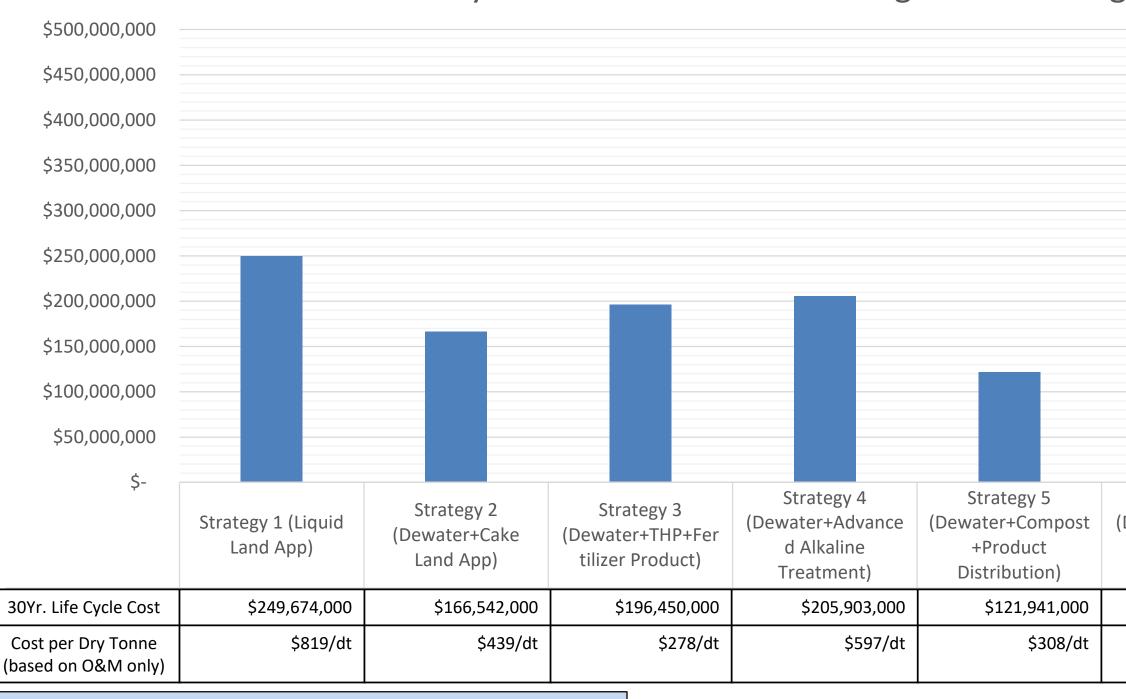


Step 4 – Deta	LEGEND Good / Low Impact				
Key Differentiating Criteria	Strategy 1: AD + Liquid Biosolids Land Application	Strategy 2: AD + Dewatering + Cake Land Application	Strategy 3: AD + Advanced Stabilization (THP) + Fertilizer Quality Product	Strategy 4: AD + Dewatering + Advanced Alkaline Treatment	Strategy 5: AD + Dewatering + Composting + Product Distribution
Greenhouse Gas Emissions					
Nutrient Recovery and Potential for Beneficial Reuse by Agricultural Users					
Proven Performance					
Odour at Garner Road Facility					
Truck Traffic					
Long Term Sustainability					
Ease of Operation					
Resiliency					
Ease of Implementation					
Life Cycle Cost					
RANKING	3	2	5	1	6





Step 4 – Detailed Evaluation Results - Costs



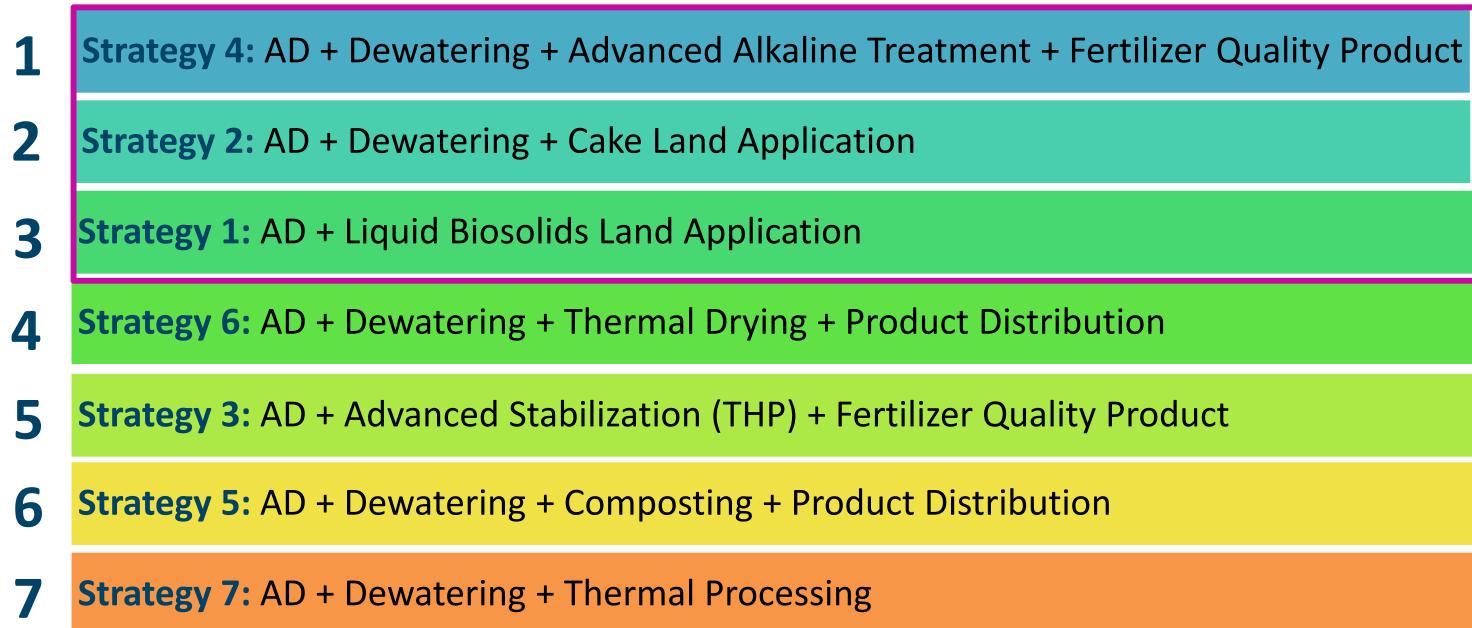
Average \$/dry tonne (dt) for current program (2014 – 2016) = \$647/dt

30 Yr. Life Cycle Cost for Biosolids Management Strategies

Strategy 6	C	tratom	7
Dewater+Thermal		trategy	
Driving Product	(Dewater+Incinerat ion+Ash Disposal)		
Drying+Product			
Distribution)			
\$174,595,000	\$448,766,000		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	γ 44 0,700,000		
\$328/dt	\$632/dt		



Step 4 – Detailed Evaluation Results - RANKING



Develop implementation plan to incorporate top 3 strategies

AD = Anaerobic Digestion



Short Term Solution (1-3 years)

- Conduct pilot study involving local farmers and third-party Biosolids Management Contractor to assess feasibility of direct land application of cake
- Use the Region's portable centrifuge for temporary dewatering at Garner Road when existing centrifuges are unavailable
- Continue transporting dewatered cake to N-Viro from Garner Road and Niagara Falls WWTP

Mid Term Solution (3-5 years)

Add biosolids dewatering at the Baker Road WWTP

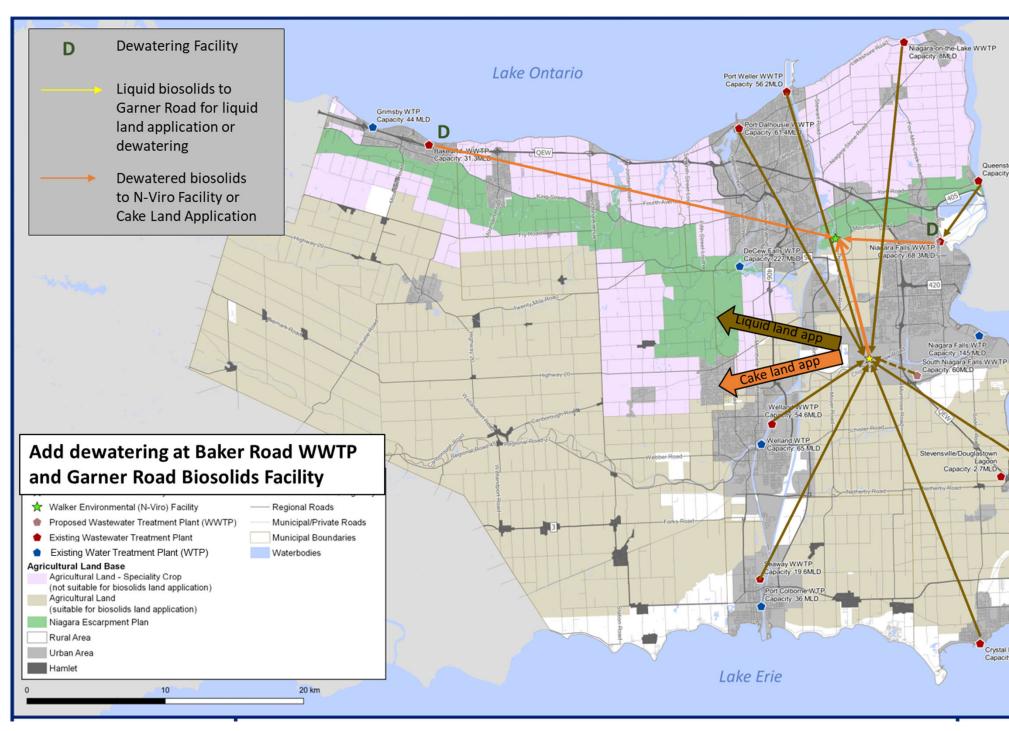
Long-Term Solution (5+ Years)

- Construct additional dewatering capacity at Garner Road, which may incorporate flows from Niagara -Falls (NF) WWTP once the dewatering system at the NF WWTP reaches end of useful life
- Construct cake storage facility at Garner Road if the pilot program confirms feasible / acceptance -
- Continue liquid storage at Garner Road to maximize flexibility

Implementation



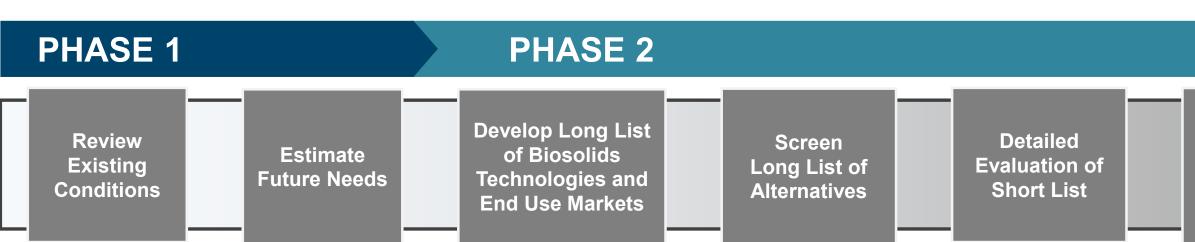
Step 5 – Preliminary Recommendations and Implementation





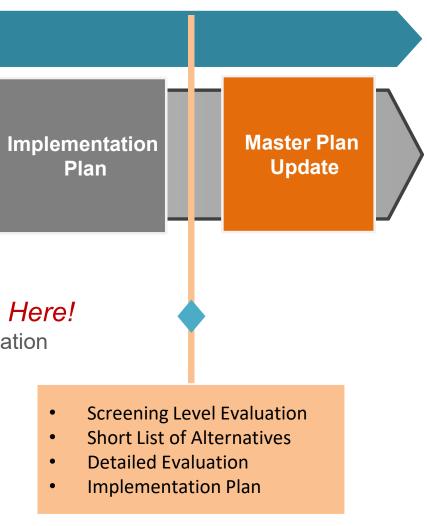






May 2023 We are Here! Stakeholder Consultation

Project Schedule





Questions?

25



REGION OF NIAGARA 2021 BIOSOLIDS MANAGEMENT MASTER PLAN UPDATE GMBP File No. 621143 LOCAL AREA MUNICIPALITY AND AGENCY WORKSHOP

DATE: Friday April 21, 2023, 10:00 am – 12:00 pm

LOCATION: Microsoft Teams

INVITED:

Jason Oatley (JO) Josh Macarthur (JM) Brad Stewart (BS) Laura Verhaeghe (LV) Jim Harnum (JH) George Stojanovic (GS) Chris Pisaric (CP) Lyndsay Dunville (LD) Taylor Buck (TB) Kent Schachowskoj (KS) Adam Allcock (AA) Mike Komljenovic (MK) Amaraine Laven (AL) Darren MacKenzie (DMK) Brett Ruck (BR) Tray Benish (TB) Marvin Ingebrigtsen (MI) Geoff Holman (GH) Sherri-Marie Millar (S-MM) Anthony Martuccio (AM) Mark Green (MG) Dale McComb (DMc) Dawn Macarthur (DM)

REGRETS:

Brandon Wartman Jason Marr Steve Shypowskyj Anthony Martuccio Jennifer Bernard Colleen Fitzgerald-Hubble Kirsten McCauley Matt Bruder Rome D'Angelo Cale Selby

Region of Niagara, Project Manager Region of Niagara Region of Niagara GM BluePlan, Project Manager Municipal VU Consulting Town of Fort Erie Town of Fort Erie Ministry of the Environment, Conservation and Parks Ministry of the Environment, Conservation and Parks City of Niagara Falls City of Niagara Falls MNRF **MNRF** Town of Niagara-on-the-Lake Town of Niagara-on-the-Lake Township of West Lincoln Town of Grimsby City of Thorold City of Welland City of St.Catharines City of St. Catharines **OMAFRA** Niagara Region

Town of Grimsby Town of Pelham City of Port Colborne City of St.Catharines Township of West Lincoln Ministry of Agriculture, Food and Rural Affairs Town of Niagara-on-the-Lake Town of Lincoln Town of Niagara-on-the-Lake (OMAFRA)

Objectives:

- 1. Update Local Area Municipalities and Agencies on the Region's 2021 Biosolids Master Plan
- 2. Present biosolids management strategies, evaluation and preferred approach
- 3. Obtain feedback on preferred strategy



1. Introductions

	Action Item
roductions	
JO introduced Region staff; JO is Project Manager, BS is Biosolids Manager, RD is	
Director of Wastewater	
L R introduced consultant team members	

- LB introduced consultant team members
- Objectives of meeting to updated local area municipalities (LAM) and Agencies on the Region's Biosolids Master Management Plan (BMMP), present biosolids management strategies, evaluation and preferred approach and obtain feedback on the preferred strategy

2. Background and Objectives

- Niagara Region is growing which means more wastewater which also mean more biosolids and a higher demand for treatment and management of these materials
- The project builds upon the recommendations in the 2010 BMMP by considering regulatory and environmental changes since its implementation and continue to be updated every ten (10) years
- This study follows the Class Environmental Assessment process for Master Plans, which identifies the problem or opportunity, develops and evaluates alternative solutions and consults with the public and other stakeholders.
- The purpose of this Biosolids Management Master Plan Update is to develop a holistic, long-term strategy for biosolids management in Niagara in a manner that is transparent, sustainable, reliable, environmentally friendly, cost-effective and flexible



3. Study Area and Existing Conditions

Study Area (Slide 7)

• The study area encompasses the entirety of Niagara Region and considers all the biosolids produced within the Region.

Existing Biosolids Management System (Slide 8)

- The existing biosolids management system involves sending biosolids from their wastewater treatment plants (WWTPs) to the Garner Road Biosolids Facility in Niagara Falls for further processing. Some Water Treatment Plants (WTP) connect to the sanitary sewer system and the solid residuals from these plants are conveyed through the sewer to a nearby WWTP.
- For the WTPs that are not connected to the sewer system, residual solids are trucked to Garner Road Facility for blending with the wastewater biosolids. Lagoons on the Garner Road property are used to thicken the liquid biosolids.
- The thickened liquid biosolids can then be land applied directly, while the remaining biosolids are dewatered using centrifuges to produce a much dryer "cake-like" material that is then sent off –site to a privately owned alkaline stabilization facility.
- Niagara Falls WWTP has a centrifuge for dewatering biosolids in which the dewatered cake from the site is trucked off site to a privately owned alkaline stabilization facility.

Existing Beneficial Uses Program (Slides 9 / Slide 10)

- Liquid biosolid and residuals make up about 50% of the total biosolids produced in the Region which are hauled by a third-party contractor to the Garner Road Facility where they are stored and thickened in lagoons. They are then land applied as a liquid on agricultural land
- Dewatered biosolids from the Garner Road Facility and Niagara Falls WWTP make up the remaining 50% of biosolids produced. They biosolids are hauled to a privately owned biosolids management center in Niagara Falls where they are processed using alkaline stabilization. The high solids, nutrient-rich product is then land applied as a fertilizer.



	osolids Management Strategies and Evaluation	
	ative Evaluation Approach (Slide 11)	
•	The approach to developing the preferred biosolids management strategy consisted of	
•	five (5) key steps	
Step 1	I - Develop Long List of End Use Markets (Slide 12)	
٠	The long list of end use markets consisted of the following two categories:	
	• Beneficial Reuse	
	 Disposal 	
Step 2	2 – Screen Long List of Biosolids End Use Markets (Slide 13)	
٠	The long list of end use markets was screened against key screening criteria and	
	alternatives that did not meet the requirements were emitted from further evaluation.	
٠	End use markets that were carried forward included:	
	 Agricultural, Silviculture and Horticulture 	
	 Parks and Recreation Department 	
	 Landscape Contractors 	
	• Golf Courses	
	 Co-management with Source Separated Organics 	
.	• Fuel Additives	
Step 1	I – Develop Long List of Biosolids Treatment Technologies (Slide 14)	
•	The long list of technologies includes biological digestion, thermal conversion, thermal	
.	drying, composting and chemical stabilization technologies.	
Step 2	2 – Screen Long List of Biosolids Treatment Technologies (Slide 15)	
•	The long list of biosolid treatment technologies was screened against key screening	
	criteria and alternatives that did not meet the requirements were emitted from further	
	evaluation.	
•	Biosolid treatment technologies that were carried forward included:	
	 Thermal hydrolysis post-treatment 	
	 Direct and indirect thermal drying 	
	 Alkaline stabilization with supplemental heat 	
	 Acid or high-speed mixing 	
	• Composting	
.	 Incineration 	
-	2 – Results of Biosolids Treatment Technologies Screening and Associated	
Produ	icts (Slide 16)	
•	Each short-listed technology results in a specific product. The Region is currently	
	using anaerobic digestion and alkaline stabilization that result in products that are land	
C4.0.00 (applied.	
Step 3	B – Develop Alternative Biosolids Management Strategies (Slide 17)	
•	From the short-listed technologies, and their associated products and compatible end	
	use markets, seven (7) biosolid management strategies were developed	
•	'Do Nothing" option was considered but screened out as the existing biosolids	
01	infrastructure does not have the capacity to meet future needs to 2051	
Step 4	4 – Detailed Evaluation Criteria (Slide 18)	
•	The following four (4) criteria were used to complete a detailed evaluation on each of	
	the biosolid management strategies:	
	 Natural Environment 	



- Technical Considerations
- o Socio-Cultural Environment
 - LV noted that with initial consultation with the Public and Local Area Municipalities highlighted that truck traffic was a major concern of the BMMP and was incorporated into the evaluation criteria
- Economic Considerations
- A second level evaluation was completed using key differentiating criteria to evaluate and select the preferred strategy
- MG inquired how the project team quantified the screening criteria
 - LV described that the final project report will provide further details on how each screening criteria was quantified.
- DM inquired if the storage of finished material factored into the evaluation
 - LV described that storage of the finished materials was considered under the technical criteria of 'ease of operation' and 'ease of implementation'.

Step 4 – Detailed Evaluation Results (Slide 19)

• A detailed evaluation of each strategy was completed by assigning an impact score for each strategy against the key differentiating criteria and then ranked from most preferred to least preferred. A summary of the evaluation for each strategy is detailed in the presentation slides, attached.

Step 4 – Detailed Evaluation Results (Cost) (Slide 20)

- 30-year lifecycle costs for the strategies were also considered for the evaluation
- Strategies one through six have relatively comparable lifecycle costs, although the capital investments with strategies with new technologies (i.e. Strategies one and three) lead to higher lifecycle costs.
- Strategy seven has a significantly higher lifecycle cost
- Operations costs for Strategy one, two and five are the lowest

Step 4 – Detailed Evaluation Results – Ranking (Slide 21)

- Strategy four (AD + Dewatering + Advanced Alkaline Treatment), Strategy two (AD + Dewatering + Cake Land Application) and Strategy one (AD + Liquid Biosolids Land Application) were ranked the highest and selected are the preliminary preferred alternative
- Multiple strategies were selected to ensure diversity on the biosolids program

5. Preliminary Recommended Strategies

Step 5 - Preliminary Recommendations and Implementation (Slide 22)

- Implementation strategies were developed for the short, mid and long term :
 - Short Term Pilot study to determine acceptability of cake land application for local farmers and confirm logistics of operation. Region recently purchased a centrifuge to use as a back-up to support current dewatering operations before permanent dewatering capacity is added.
 - Mid-Term Add dewatering at Baker Road WWTP to increase dewatering capacity, and reduce truck traffic and hauling costs. Location of WWTP will allow for significant reduction in hauling verses other plants.
 - Long Term Additional dewatering at Garner Road. Once dewatering equipment at Niagara Falls WWTP reaches end of useful life, review the feasibility of keeping a centrifuge on site or transporting the liquid biosolids to the Garner Road facility. It is anticipated that the new WWTP being designed



	for South Niagara Falls will also haul liquid biosolids to the Garner Road	
	facility. Both cake storage and liquid storage are proposed at Garner Road to	
	maximize flexibility.	
Ste	ep 5 - Preliminary Recommendations and Implementation Mapping (Slide 23)	
	• The program will involve liquid biosolids being hauled to Garner Road where they are	
	either hauled to land for application, or dewatered.	
	• Dewatered cake could continue to be sent to a third-party alkaline stabilization facility	
	for further processing or directly land applied as dewatered cake.	
	Baker Road and Niagara Falls WWTPs would have dewatering and send their cake to	
	a third-party facility. Cake storage is proposed at Garner Road to allow portions to be	
	stored for future land application, reducing reliance on the third-party facility	
6.	Schedule and Next Steps	
	 Completed the screening level evaluation, developed the short list of alternatives, 	
	completed the detailed evaluation and developed a preliminary implementation plan.	
	 Complete the virtual Public Information Centre No. 2, starting May 17th to May 31st 	
	 Incorporate any feedback and or comments from the Public Information Centre 	
	Update the Biosolids Management Master Plan File for 20 downwing	
	File for 30-day review	
7.	Questions	
	No additional questions were received from the stakeholders	
Prer	nared hv	

Prepared by:

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Per:

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