

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

| Contact Method
 | Stakeholder Name
Indigenous Communities | 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 | er Comments |
|---
--|--
--
---	--	--
--	--	---
Email & Mail		
 | Chief Mark B. Hill | Six Nations of the Grand River

 | Indigenous Commun ties | External | Chief
 | 2498 Chiefswood Road | P.O. Box 5000 | Ohsweken , ON
 | NOA 1MO | ma kh. l@s xnat ons.ca | 519-445-2201 | Six Nations Chief as of Jan 2021 - previously
was Chief Ava Hi I for 2016 MSP, South
Niagara Falls & Baker Road PPCP |
| Email & Mail
 | Dawn LaForme | Six Nations of the Grand River

 | Indigenous Commun ties | External | Secretary
 | 2498 Chiefswood Road | P.O. Box 5000 | Ohsweken , ON
 | N0A 1M0 | dlaforme@sixnations.ca | | |
| Email & Mail
 | Tanya H II-Montour | Six Nations of the Grand River

 | Indigenous Commun ties | External | Archaeology Supervisor - Six Nations Lands & Resources
 | 2498 Chiefswood Road | P.O. Box 5000 | Ohsweken , ON
 | N0A 1M0 | tanyahill-montour@sixnations.ca | (519) 753-0665 | |
| Email & Mail
 | Tayler H II | Six Nations of the Grand River

 | | |
 | 2498 Chiefswood Road | P.O. Box 5000 | Ohsweken , ON
 | N0A 1M0 | tayler.hill@sixnations.ca | | |
| Email & Mail
 | Lonny Bomberry | Six Nations of the Grand River

 | Indigenous Commun ties | External | Director of Lands and Resources
 | 2498 Chiefswood Road | P.O. Box 5000 | Ohsweken , ON
 | N0A 1M0 | lonnybomberry@sixnations.ca | 519-753-0665 | |
| Email & Mail
 | Arleen Maracle
Todd Wi liams | Six Nations of the Grand River
Haudenosaunee Development Institute

 | Indigenous Commun ties Indigenous Commun ties | External | Community Laison Off cer
Archaeology Coordinator
 | 2498 Chiefswood Road
2634 6th Line Road | P.O. Box 5000
P.O. Box 714, Suite 600 | Ohsweken ON
Ohsweken , ON
 | N0A 1M0 | a leenma@s xnat ons.ca | | |
| Email & Mail
 | Raechelle Williams | Haudenosaunee Development Institute

 | Indigenous Communities | Haudenosaunee Development Institute | Environmental Monitor
 | 2634 6th Line Road | P.O. Box 714, Suite 600 | Ohsweken, ON
 | NOA 1M0 | janicewilliams@hdi.land | | |
| Email & Mail
 | Janice Bomberry | Haudenosaunee Development Institute

 | Indigenous Community | Traudenosauriee Development institute |
 | 2634 6th Line Road | P.O. Box 714, Suite 600 | Ohsweken , ON
 | NOA 1M0 | janicehdi@gmail.com | | |
| Emal
 | | Haudenosaunee Development Institute

 | Indigenous Community | | | |
 | | |
 | | info@hdi.land | | |
|
 | Leroy H II
Wayne Hill | Haudenosaunee Confede acy Ch efs Counc I
Haudenosaunee Confede acy Ch efs
Counc I
 | Indigenous Community Indigenous Community | | | |
 | | |
 | | ohahokta@hotmail.com
tworowarchaeology@gmail.com | | |
| Email & Mail
 | Abby LaForme | Mississaugas of the Credit First Nation
Mississaugas of the Credit First
Nation
 | Indigenous Commun ty | External | Acting Consultation Coordinator
 | 2634 6th Line Road | P.O. Box 714, Suite 600 | Ohsweken , ON
 | N0A 1M0 | abby.LaForme@mncfn.ca
DOCA.Admin@mncfn.ca | | replaced MCFN.consultation@mncfn.ca email |
| Email & Mail
 | Cathie Jamieson | Mississaugas of the Credit First Nation

 | | | Environment Sustainability Councillor
 | 2789 Mississauga Road | R.R. #6 | Hagersv lle, ON
 | N0A 1H0 | cathiej@mncfn.ca | | |
| Email & Mail
 | Mark LaForme | Mississaugas of the Credit First Nation

 | Indigenous Commun ties | External | Director of Consultation and Accommodation
 | 2789 Mississauga Road | R.R. #6 | Hagersv IIe, ON
 | N0A 1H0 | Mark.Laforme@mncfn.ca | 905-768-4260 | |
| Email & Mail
 | Adam LaForme | Mississaugas of the Credit First Nation

 | | |
 | 2789 Mississauga Road | R.R. #6 | Hagersv IIe, ON
 | N0A 1H0 | Adam.LaForme@mncfn.ca | | |
| Email & Mail
 | Adrian Blake | Mississaugas of the Credit First Nation

 | | | Field Archaeologist
 | 2789 Mississauga Road | R.R. #6 | Hagersv IIe, ON
 | N0A 1H0 | Adrian.Blake@mncfn.ca | 905-979-3862 | |
| Email & Mail
 | Chief R. Stacey LaForme | Mississaugas of the Credit First Nation

 | Indigenous Commun ties | External | Chief
 | 2789 Mississauga Road | R.R. #6 | Hagersv IIe, ON
 | N0A 1H0 | stacey.laforme@mncfn.ca | 905-979-9254 | |
| Email & Mail
 | RoseAnne Archibald | Assembly of First Nations

 | Indigenous Commun ties | External | Regional Chief, Ontario
 | 468 Queen Street E. | Suite 400 | Toronto, ON
 | M5A 1T7 | ORCEA@coo.org | 416-597-1266 | |
| Email & Mail
 | Geoff Stonefish | Association of Iroquois and Allied Indians

 | Indigenous Commun ties | External | Office Manager
 | 387 Princess Avenue | | London, ON
 | N6B 2A7 | | 519.434.2761 | |
| Emal
 | Derrick Pont | Metis Nation of Ontario

 | Indigenous Commun ties | External |
 | 3250 Schmon Parkway | Unit 1A | Thorold, ON
 | L2V 4Y6 | niagarametiscounc l@gmail.com | 905-682-3487 | Metis does not accept hard copy notices. To
send electronically only. |
| Emal
 | Dr. Mark Knell | Metis Nation of Ontario

 | Indigenous Commun ties | External | Manager, Environmental Assessments and Regulatory Issues
 | | 311-75 Sherborne Street | Toronto, ON
 | M5A 2P9 | | | Metis does not accept hard copy notices. To
send electronically only. |
| Ema I
Email & Mail
 | Derek Pont | Metis Nation of Ontario
Niagara Region Metis Counc I

 | Indigenous Commun ties | External | President
 | 46 King Street | Suite 201-203 | Welland, ON
 | L3B 3H9 | consultations@metisnation.org
pontdj@hotmail.com | | |
| Email & Mail
 | Jennifer Dockstader | Fort Erie Native Friendship Centre

 | inaigenous communities | External | Executive Director
 | 796 Bulfalo Road | 3018 201-203 | Fort Erie, ON
 | L2A 5H2 | executivedirector@fenfc.org | 905-871-8931 | |
| Email & Mail
 | | Niagara Regional Native Centre

 | | | Executive Director
 | 382 Airport Road | | Niagara-on-the-Lake, ON
 | LOS 1J0 | executivedirector@renic.org | 905-688-6484 | |
| Entail & Wall
 | Federal Agencies |

 | | |
 | 362 Aliportitoad | | Nagara-UP-the-Lake, ON
 | 200 100 | | 303-000-0404 | |
| Email
Email
 | Derrick Beach
Anjala Puvananathan | Canadian Section International Niagara Board of Control
Canadian
Environmental Assessment Agency
 | Federal Federal | External
External | Secretary
Regional Director
 | 867 Lakeshore Road
55 St. Clair Avenue East | Room 907 | Burington ON
Toronto ON
 | L7S 1A1
M4T 1M2 | derrick.beach@canada.ca
anjala.puvananathan@ceaa-acee.gc.ca | | |
| Mail
Email
 | Wes Plant | Department of Fisheries and Oceans Canada
Department of Environment and
Climate Change Canada
 | Federal | External | Regional Director, Ecosystems Management
Manager Environmental Assessment Ontario Section
 | 867 Lakeshore Road
4905 Dufferin Street | | Bur ington, ON
Downsview ON
 | L7S 1A1
M3H 5T4 | wesley.plant@canada.ca | | |
| Mail
Mail
 | Shannon Doyle | Department of Indigenous and Northern Affairs Canada
Department of
Indigenous and Northern Affairs Canada
 | Federal Federal | External
External | Regional Manager Lands
Senior Environmental Advisor
 | 655 Bay Street
655 Bay Street | 7th Floor
7th Floor | Toronto ON
Toronto, ON
 | M5G 2K4
M5G 2K4 | | 416-973-5282 | |
| Mail
Mail
 | | Department of Indigenous and Northern Affairs Canada
Federal Economic
Development Agency for Southern Ontario
 | Federal
Federal
Federal | External
External
External | Environmental Assessment Coordinator
Manager of Program Delivery Infrastructure
Operations | 655 Bay Street
151 Yonge Street | 7th Floor
3rd floor | Toronto ON
 | M4T 1M2
M5C 2W7 | | | |
| Mail
Mail
 | Alex Sirianni
Kitty Ma | Federal Economic Development Agency for Southern Ontario
Health Canada

 | Federal
Federal | External | Program Policy Advisor
Regional Environmental Assessment Coordinator
 | 151 Yonge Street
180 Queen Street West | 3rd floor | Toronto, ON
Toronto ON
 | M5C 2W7
M5V 3X3 | | | |
| Email
Email
 | Monique Mousseau
Devon Smith | Transport Canada
Transport Canada

 | Federal
Federal | External
External | Regional Manager Environment and Engineering
Regional Manager, Navigable Water Protection
Program | 4900 Yonge Street
4900 Yonge Street | Suite 300 | Toronto ON
North York, ON
 | M2N 6A5
M2N 6A5 | monique.mousseau@tc.gc.ca
devon.smith@tc.gc.ca | 416-952-0388 | |
| Email
 | TED
Provincial Agencies | Canadian Food Inspection Agency

 | | | Pre-market Application Submissions Office
 | 59 Camelot Drive | | Ottawa ON
 | K1A 0Y9 | cfia.paso-bpdpm.acia@inspection.gc.ca | 1-855-212-7695 | |
| Email (Separate Submission
 | n) | Ministry of the Environment, Conservation and Parks

 | Provincial | External | Project Information Form - Online Submission
 | West Central Region | |
 | | eanotification.wcregion@ontario.ca | | Email Only - separate submission |
| Email & Mail
 | Joan Del Villar | Ministry of the Environment, Conservation and Parks

 | Provincial | External | EA & Planning Coordinator, West Central Region
 | 119 King St. W | | Ham Iton, ON
 | L8P 4Y7 | Joan.DelVillarCuicas@ontario.ca | | Joan w II identify additional MECP contacts for |
|
 | |

 | | |
 | | 12th Floor | nam ton, on
 | 201 411 | | | studv involvement |
| Emal
Emal
 | Lisa Benvenuti
Jennifer Harvard | Ministry of the Environment Conservation and Parks
Ministry of Northern
Development, Mines, Natural Resources and Forestry
 | Provincial
Provincial | External
External | Waste Management Representative - Niagara District Office
Lands & Water Technical
Specialist | •
• | 12th Floor |
 | 201 411 | <u>I sa benvenut @onta_o.ca</u>
jennifer.harvard@ontario.ca | 905-704-3900 / 905-321-3532
519-826-4933 | 2 |
|
 | Jennifer Harvard
David Denyes
Ian Thornton | Ministry of Northern Development, Mines, Natural Resources and
Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
 | | External
External | Lands & Water Technical Specialist
Fish & Wildl fe Technical Specialist
 | | |
 | | I sa.benvenut @onta_o.ca_ | 905-704-3900 / 905-321-3532
519-826-4933 | studv involvement 2 |
| Emal
Emal
Emal
Mail
Emal
 | Jennifer Harvard
David Denyes
Ian Thornton
Ian Hagman
Susan Cooper | Ministry of Northern Development, Mines, Natural Resources and
Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development, Mines, Natural Resources and Forestry
Ministry of Northern Development, Mines, Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
 | Provincial
Provincial
Provincial | External
External
External | Lands & Water Technical Specialist
Fish & Wild fe Technical
Specialist
District Manager, Guelph
Natural Heritage and Land Use Planning Advisor | 1 Stone Road W | 12th Floor Ontario Government Building Znd Floor Studie Roon | Guelph, ON
Peterborouch ON
 | N1G 4Y2 | Isa bervenut @onta o.ca
jennifer.harvard@ontario.ca
David.Denyes@ontario.ca
jan.thornton@ontario.ca | 905-704-3900 / 905-321-3532
519-826-4933 | study involvement |
| Ema l
Ema l
Ema l
Mail
Ema l
Ema l
Ema l
 | Jennifer Harvard
David Denyes
Ian Thornton
Ian Hagman
Susan Cooper
Lisa Mysicki
Colleen F zgerald-Hubble | Ministry of Northern Development, Mines, Natural Resources and
Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development, Mines, Natural Resources and Forestry
Ministry of Northern Development, Mines, Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Infrastructure Ontario
Ministry of Anjoitu ture, Food and Rural Affairs
 | Provincial | External
External | Lands & Water Technical Specialist
Fish & Wild fe Technical
Specialist
District Manager, Guelph
Natural Heritage and Land Use Planning Advisor
Environmental Advisor
Director. Environmental Management Branch | 1 Stone Road W
200 Water Street
1 Dundas Street West
1 Stone Road West
1 Stone Road West | | Guelph, ON
Peterborouch ON
Toronto ON
Guelph, ON
 | N1G 4Y2
K9J 3C7
M5G 2L5
N1G 4Y2 | Las brannand Barta e sca
ijenn der Ansverd Bortario ca
David Danyes @ ontario ca
ian.thornton @ ontario ca
Susan.coocer @ ontario ca
Susan.coocer @ ontario ca
Delen "fitzeraria" hubble @ ontario ca | 905-704-3900 / 905-321-3532
519-826-4933 | study involvement |
| Ema1
Ema1
Mail
Ema1
Ema1
Ema1
Email
Email
Ema1
 | Jennifer Hanard
David Denyes
Ian Hagman
Susan Cooper
Lisa Mysicki
Colleen F Izparaid-Hubble
Colleen F Izparaid-Hubble
Anneles Eckert
Adam Redish | Ministry of Northern Development, Mines, Natural Resources and
Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development, Mines, Natural Resources and Forestry
Ministry of Northern Development, Mines, Natural Resources and Forestry
Ministry of Northern Development, Mines, Natural Resources and Forestry
Infrastructure Ontario
Ministry of Agricu ture, Food and Rural Affairs
Ministry of Agricu ture, Food and Rural Affairs
Ministry of Agricu ture, Food and Rural Affairs
 | Provincial | External External External External External External External External | Lands & Water Technical Specialist
Fish & Wildl & Technical Specialist
District Manager, Guelph
Natural Heritage and Land Use Planning Advisor
Environmental
Advisor
Director, Environmental Management Branch
Rural Planner Western Region
Assistant Deput Minister Infrastructure Policy Division | 1 Stone Road W
300 Water Street
1 Dundas Street West
1 Stone Road West
6484 Wellington Road 7 | Ontario Government Building
2nd Floor
Suite 2000
3rd Floor S
21st Floor | Guelph, ON
Peterborouch ON
Toronto ON
Guelph, ON
Elora ON
Toronto ON
 | N1G 4Y2
K9J 3C7
M5G 2L5
N1G 4Y2
N0B 1S0
M5G 2N4 | I sa benereut filenta .c.a
iennifer harvard@ontario.ca
David Denyes@ontario.ca
ian.thornton@ontario.ca
Isa.myslick@infrastructureontario.ca
colleen.fitzaerald-hubble@ontario.ca
anneleis.ecket@ontario.ca | 905-704-3900 / 905-321-3532
519-826-4933 | study involvement |
| Email Email Mail Email Email Email Email Email Email Email Email Mail Mail
 | Jennifer Harvard
David Denyses
Ian Thornton
Susan Cooper
Lisan Myalcound-Hubble
Lisan Myalcound-Hubble
Anneleis Eckett
Adam Redah
Davon Palin Rokosh
Davon Palin Rokosh
Akee Earthy | Ministry of Northern Development. Mines, Natural Resources and
Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development, Mines, Natural Resources and Forestry
Ministry of Northern Development, Mines Natural Resources and Forestry
Ministry of Anothern Development Mines Natural Resources and Forestry
Ministry of Anothern Development Mines Natural Resources and Forestry
Ministry of Anoto Lurs Food and Rural Afrairs
Ministry of Cenomic Development Employment and Infrastructure
Ministry of Infrastructure
 | Provincial | External
External
External
External
External
External
External
External
External | Lands & Water Technical Specialist
Fink & Wild Technical Specialist
District Manager, Guelph
Natural Heritage and Land Use Planning Advisor
Environmental Advisor
Environmental Advisor
Research Planner Western Region
Assistant Deputy Minister Infrastructure Policy Division
Director Infrastructure Policy Division
Senior Housing Advisor | 1 Stone Road W
300 Water Street
1 Dundas Street West
1
Stone Road West
6484 Wellington Road 7
777 Bay Street
900 Bay Street | Ontario Government Building
2nd Floor
Suite 2000
3rd Floor S
21st Floor
8th Floor
17th Floor | Guelph. ON
Peterborouch ON
Toronio ON
Elora ON
Toronio ON
Toronio ON
Toronio ON
Toronio ON | N1G 4Y2
K9J 3C7
M5G 2L5
N1G 4Y2
N0B 1S0
M5G 2N4
M7A 2E1
 | Lashemmand Banta acia
jernifer harvard @ontario.ca
David Denyes @ontario.ca
sub-ronton@ontario.ca
Ususan.cooxee "Contario.ca
Isia.mysick@infrastructureontario.ca
Celleen, fizzenal-hubble@fontario.ca
annelis.eckert@ontario.ca
datam.redia% fontario.ca
datam.redia% fontario.ca | 416-314-5148 | study involvement 2 2 4 4 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 |
| Emai Emai Emai Mail Emai Email
 | Jennifer Harvard
David Deryses
Ian Thornton
Usan Magman
Lisan Majitch
Lisan Majitch
Colleen F tzpariet
Adaption E Carliet
Adaption E Carliet
David Patholise
David Patholise
D | Ministry of Northern Development. Mines, Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development. Mines, Natural Resources and Forestry
Infrastructure Ontario
Ministry of Aprice Units, Food and Rural Atlants
Ministry of Infrastructure
Ministry of Unitralium Component. Employment and Infrastructure
Ministry of Unitralium and Housing
Ministry of Hinrapportation

 | Provincial | External | Lands & Water Technical Specialist
Fink & Wild Technical Specialist
District Manager, Guelph
Natural Heritage and Land Use Planning Advisor
Environmental Advisor
Environmental Advisor
Barnet Western Region
Assistant Deputy Minister Infrastructure Policy Division
Director Infrastructure Policy Division
Senior Housing Advisor
Regional Advisor St. Catharines Office
Area Contracts Engineering - Central Region | 1 Stone Road W
300 Water Street
1 Dundas Street West
1 Stone Road West
6484 Wellington Road 7
777 Bar, Street
900 Bay, Street
777 Bar, Street
301 St. Paul Street
301 St. Paul Street
159 Si William Heapst Ave | Ontario Government Building
2nd Floor
Suite 2000
3rd Floor S
21st Floor
8th Floor
17th Floor
9th Floor
9th Floor
 | Guelph. ON
Peterboroud: ON
Toronto ON
Guelph. ON
Elora ON
Toronto ON
Toronto ON
St. Catharines ON
St. Catharines ON
Toronto ON | N1G 4Y2
K9J 3C7
M5G 2L5
N1G 4Y2
N0B 1S0
M5G 2N4
M5G 2E5
L2R 7R4
M5M 0B7
 | Lashemmand Banta aca
lemifler harvard Gontario ca
David Denyes @ontario.ca
Lashtornton@ontario.ca
Issan.coore @ontario.ca
Issan.sysicki@infrastructureontario.ca
Colleen Rizenael-hubble@ontario.ca
annelis.extert@ontario.ca
damr.redin@ontario.ca
damr.palin.rokca0@ontario.ca
iennier.hay@ontario.ca | 416-314-5148
905-704-3951 | study involvement 2 4 |
| Emai Emai Emai Maii Emai
 | Jennifer Harvard
David Deryses
Ian Thornton
Lisa Magnan
Lisa Magika
Colleen F toprated-Hubble
Colleen F toprated-Hubble
Adam Redist
Dawn Palin Rokosh
Alwe Earthy
Jennifer Hay
Ellen Bennett
Glenn Dunphy
Jonathan Bone | Ministry of Northern Development. Mines, Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development. Mines Natural Resources and Forestry
Infrastructure Ontario
Ministry
of Aprice Unre, Food and Rural Affairs
Ministry of Aprice Unrevelopment. Employment and Infrastructure
Ministry of Ministry of Transportation
Ministry of Transportation
Ministry of Transportation
 | Provincial | External | Lands & Water Technical Specialist
Fink & Water Technical Specialist
Detrict Manager, Guelph
Natural Heritage and Land Use Planning Advisor
Environmental Advisor
Director, Environmental Management Branch
Rural Planner Western Region
Director, Environmental Management Branch
Arran Contractor, Brancher Mestern
Aprice Planter Mestern Region
Arran Contractor, Contractor Planter
Senior Housing Advisor
Regional Advisor St. Catharines Office
Area Contracts Engineering - Central Region
Regional Manager, Regional Operations - Central West
Regional Manager, Regional Operations - Central West
Head - Construction and Engineering
 | 1 Stone Road W
300 Water Street
1 Dundas Street West
1 Stone Road West
6484 Wellington Road 7
777 Bar, Street
900 Bar, Street
301 St. Paul Street
301 St. Paul Street
1595 Sir William Heatrat Ave
1595 Enterprise Rd
301 St. Paul Street | Ontario Government Building
2nd Floor
Suite 2000
3rd Floor S
21st Floor
8th Floor
9th Floor
9th Floor
2nd Floor, Suite 228
2nd Floor Suite 278 | Guebh. ON
Peterboroud: ON
Toronto ON
Elora ON
Toronto ON
Toronto ON
Toronto ON
St. Catharines ON
Mississauga, ON
St. Catharines ON
 | N1G 4Y2
K9J 3C7
M5G 2L5
N1G 4Y2
N0B 1S0
M5G 2N4
M5G 2E5
L2R 7R4
M5M 0B7 | Lashemmand Banta aca
lemifier harvard Gontario ca
David Denyes @ontario.ca
lan.thornton@ontario.ca
Issan.coore @ontario.ca
Issan.sysicki@infrastructureontario.ca
colleen fitzerand=hubble@ontario.ca
annelis.extert@ontario.ca
davam.redia% forntario.ca
davam.redia% forntario.ca
elen.benent@ontario.ca
glenn.dunpt@ontario.ca
glenn.dunpt@ontario.ca
glenn.dunpt@ontario.ca | 416-314-5148 | study involvement |
| Emai Emai Emai Mail Emai Email
 | Jennifer Harvard
David Deryses
Ian Thornton
Lisan Majaran
Lisan Majaki
Colleen F tzparaki-Hubble
Colleen F tzparaki-Hubble
Colleen F tzparaki-Hubble
Colleen F tzparaki-Hubble
Daven Palin Rokosh
Alexe Earthy
Jennifer Hay
Ellein Bennett
Glenn Dunphy
Jonathan Boone
Xin Weng | Ministry of Northern Development. Mines, Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development. Mines,
Natural Resources and Forestry
Infrastructure Ontario
Ministry of Anglico Lutre, Food and Rural Affairs
Ministry of Henrigae Sport Tourism and Culture
Ministry of Transportation
Ministry of Transportation
Ministry of Transportation
Ministry of Transportation
 | Provincial | External Ext | Lands & Water Technical Specialist
Fink & With Technical Specialist
District Manager, Guelph
Natural Heritage and Land Use Planning Advisor
Environmental Advisor
Director, Environmental Advisor
Director, Environmental Advisor
Director, Environmental Management Branch
Rural Planner Western Region
Assistant Deputy Minister
Interface United States (Statement Branch
Regional Advisor 2), Catharines Office
Area Contracts Engineering - Central Region
Regional Manager, Regional Operations - Central West
Regional Manager, Regional Operations - Central West
Regional Manager, Regional Operations - Central West
Area Manager Hamilton/Niagara | 1 Stone Road W
300 Water Street
1 Dundas Street West
1 Stone Road West
6484 Wellington Road 7
777 Bay Street
900 Bay Street
301 St. Paul Street
301 St. Paul Street
159 Sir William Hearst Ave
1550 Enterprise Rd
301 St. Paul Street
159 Sir William Hearst Ave | Ontario Government Building
2nd Floor
Suite 2000
2nd Floor S
21st Floor
8th Floor
9th Floor
9th Floor
2nd Floor
Building D Sh Floor
Building D Sh Floor
Building D Sh Floor
 | Guidph, QN
Peterborouch ON
Toronto ON
Globb ON
Toronto ON
Toronto ON
Toronto ON
St. Catharines ON
St. Catharines ON
St. Catharines ON
St. Catharines ON
Toronto ON
Toronto ON | N1G 4Y2
K9J 3C7
M5G 2L5
N1G 4Y2
N0B 1S0
M5G 2N4
M7A 2E1
M5G 2E5
L2R 7R4
M3M 0B7
L2R 7R4
L2R 7R4
M3M 0B7
M7A 2E6
 | Lashemmand Banta acia
lemifler harvard Gontario ca
David Denyes @ontario ca
lan.thornton @ ontario ca
Isuan.coore @ontario ca
Isuan yalicki @ infrastructureontario ca
annelis.exkert @ ontario ca
annelis.exkert @ ontario ca
atam redish @ ontario ca
dawn.palin.rokosh @ ontario ca
deen.palin.rokosh @ ontario ca
glenn.dunptk @ ontario.ca
yin.weng @ ontario.ca | 416-314-5148
905-704-3951 | study involvement |
| Emai Emai Emai Maii Emai
 | Jennifer Harvard
David Deryes
Ian Hagman
Lisa Mysikki
Colleen F tzgerald-Hubble
Anneleis Eckert
Adam Rediah
Dawn Palin Rokosh
Alex Earthy
Jennifer Hay
Ellen Bennett
Gienn Dunphy
Jonathan Boone
Xin Weng
Marcelo Gruosso | Ministry of Northern Development. Mines, Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development. Mines, Natural Resources and Forestry
Infrastructure Ontario
Ministry
of Angino Lune, Food and Rural Affairs
Ministry of Angino Lune Vertice Medication and Infrastructure
Ministry of Ministry affairs and Housing
Ministry of Transportation
Ministry of Transportation
 | Provincial | External Ext | Lands & Water Technical Specialist
Fink & Water Technical Specialist
Detrict Manager, Guelph
Natural Heritage and Land Use Planning Advisor
Environmental Advisor
Director, Environmental Management Branch
Rural Ramer Western Region
Abrector, Environmental Management Branch
Rural Ramer Western Region
Abrector, Environmental Management Branch
Rural Ramer, Beston Region
Service Housing Advisor
Regional Advisor St. Catharines Office
Area Contracts Engineering - Central Region
Regional Manager, Regional Operations - Central West
Regional Manager, Hanilton/Niagara
Senior Director Tegenering Parking & Transportation
Senior Director Engineering - Darking & Transportation | 1 Stone Road W
300 Water Street
1 Dundas Street West
1 Stone Road West
6484 Wellington Road 7
777 Bay Street
900 Bay Street
159 Sir William Hearts Are
159 Sir William Hearts Are
1550 Entroprise Rd
301 St. Paul Street
159 Sir William Hearts Are
159 Sir William Hearts Are
159 Sir William Hearts Are
159 Sir William Hearts Are | Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor Bih Floor 9th Floor 2nd Floor, Suite 228 2nd Floor Building D Sh Floor Building D Sh Floor Building D Sh Floor 9th Floor
 | Guebh. ON
Peterborough ON
Toronto ON
Gorebh. ON
Elora ON
Toronto ON
Toronto ON
Toronto ON
St. Catharines ON
St. Catharines ON
St. Catharines ON
Toronto ON
Mississauga, ON
St. Catharines ON
Toronto ON
Toronto ON
Toronto ON
Toronto ON
Toronto ON
St. Catharines ON
Toronto ON
Toronto ON
St. Catharines ON
Toronto ON
Magara Falls ON
Georgetow ON | N1G 4Y2
KsJ 3C7
M5G 2L5
N1G 4Y2
N0B 1S0
M5G 2N4
M7A 2E1
M5G 2E5
L2R 7R4
M3M 0B7
L4W 4P4
L2R 7R4
M3M 0B7 | Lashemmand Banta aca
lemifier harvard Gontario ca
David Denyes @ontario.ca
lan.thornton@ontario.ca
Issan.coore @ontario.ca
Issan.sysicki@infrastructureontario.ca
colleen fitzerand=hubble@ontario.ca
annelis.extert@ontario.ca
davam.redia% forntario.ca
davam.redia%
forntario.ca
elen.benent@ontario.ca
glenn.dunpt@ontario.ca
glenn.dunpt@ontario.ca
glenn.dunpt@ontario.ca | 416-314-5148
905-704-3951 | study involvement |
| Emai Emai Emai Mail Emai
 | Jennifer Harvard
David Deryses
Ian Thornton
Lisan Majaran
Lisan Majaki
Colleen F tzparaki-Hubble
Colleen F tzparaki-Hubble
Colleen F tzparaki-Hubble
Colleen F tzparaki-Hubble
Daven Palin Rokosh
Alexe Earthy
Jennifer Hay
Ellein Bennett
Glenn Dunphy
Jonathan Boone
Xin Weng | Ministry of Northern Development. Mines, Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry
Ministry of Northern Development. Mines Natural Resources and Forestry
Ministry of Northern Development. Mines Natural Resources and Forestry
Infrastructure Ontario
Ministry of Argicu ture, Food and Rural
Affairs
Ministry of Infrastructure
Ministry of Infrastructure
Ministry of Infrastructure
Ministry of Infrastructure
Ministry of Infrastructure
Ministry of Infrastructure
Ministry of Infrasportation
Ministry of Transportation
Ministry of Transportation
Ministry of Infrasportation
Ministry of Infrasportation
Ministry of Infrasportation
Ministry of Infrasportation
 | Provincial | External Ext | Lands & Water Technical Specialist
Fish & Wild Technical Specialist
District Manager, Guelph
Natural Heritage and Land Use Planning Advisor
Environmental Advisor
Director. Environmental Management Branch
Rural Planner Western Region
Assistant Deputy Minister Infrastructure Policy Division
Director Infrastructure Policy Division
Senior Housing Advisor
Regional Advisor St. Catharines Office
Area Contracts Engineering - Central Region
Area Manager, Regional Operations - Central West
Head - Construction and Engineering
Area Manager Hamilton/Nagara
Senior Director Engineering Parking & Transportation | 1 Stone Road W
300 Water Street
1 Dundas Street West
1 Stone Road West
6484 Wellington Road 7
777 Bay Street
900 Bay Street
301 St. Paul Street
301 St. Paul Street
159 Sir William Hearst Ave
1550 Enterprise Rd
301 St. Paul Street
159 Sir William Hearst Ave | Ontario Government Building
2nd Floor
Suite 2000
2nd Floor S
21st Floor
8th Floor
9th Floor
9th Floor
2nd Floor
Building D Sh Floor
Building D Sh Floor
Building D Sh Floor
 | Guelph, ON
Peterborouch ON
Toronto ON
Guelbh, ON
Elora ON
Toronto ON
Toronto ON
Toronto CM
Toronto CM
Toronto CM
St. Catharines ON
St. Catharines ON
St. Catharines ON
Toronto, ON
Negara Falls ON | N1G 4Y2
K9J 3C7
M5G 2L5
N1G 4Y2
N0B 1S0
M5G 2E5
L2R 7R4
M3M 0B7
L4W 4P4
L2R 7R4
M3M 0B7
L4W 4P4
L2R 7R4
M3M 0B7
L4W 4P4
L2R 7R4
M3M 0B7
L4W 4P4
L2R 7R4
M3M 0B7
L2R 6T2
 | Las bremand Brate. sca
ignifier Tarvard Bortato.ca
David Denyess @ontario.ca
ian.thornton @ontario.ca
susan.cooper @ontario.ca
lisa.mysikki @infrastructureontario.ca
cofeen, fitzerario-hubble @ontario.ca
anneleis.eckert@ontario.ca
dawn redia.@ontario.ca
dawn redia.@ontario.ca
dawn testia.@ontario.ca
ellen.bennett @ontario.ca
ellen.bennett @ontario.ca
jonatana.boone @ontario.ca
jonatana.boone @ontario.ca
mgrucesso@niagaraparks.com | 416-314-5148
905-704-3951
905-564-5285
905-704-2601 | 2 |
| Emai Mai Emai Mai
 | Jennifer Harvard
David Denyse
Ian Thornion
Susan Cooper
Liona Myalcound-Hubble
Liona Myalcound-Hubble
Annelis Eckert
Adam Redah
Davon Palin Rokosh
Adam Redah
Davon Palin Rokosh
Akee Earthy
Jennifer Hay
Jennifer Hay
Jennifer Hay
Jennifer Hay
Jennifer Hay
Marchael Grunsbook
Kim Peters
Michael Baran
Chey J Tansony | Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of
Anorthern Development Mines Natural Resources and Forestry Ministry of Anorthern Development Annole Rural Atlains Ministry of Anorthern Development Employment and Infrastructure Ministry of Transportation Niagara Escarpment Commission Niagara Escarpment Commission Niagara Escarpment Commission Niagara
 | Provincial Provinci Provincial Provincial Provincial Provincial Provincial Pr | External Ext | Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Guelph District Manager, Guelph Environmental Advisor Environmental Advisor Environmental Advisor Environmental Advisor Burnet Plannet Region Advisor St. Catharines Office Assistant Deputy Minister Infrastructure Policy Division Director Infrastructure Policy Division Senior Housing Advisor Regional Advisor St. Catharines Office Area Contracts Engineering Central Region Area Contracts Engineering Central Region Area Contracts Engineering Central Region Senior Director Engineering Parking & Transportation Senior Director Engineering Parking & Transportation Senior Director Denner General Manager | 1 Stone Road W 300 Water Street 1 Oundas Street West 1 Dundas Street West 1 Dundas Street West 1 Stone Road West 4648 Weilington Road 7 777 Bay. Street 777 Bay. Street 777 Bay. Street 159 Street Methods 771 Say. Street 150 Enterprise Rod 301 SI: Paul Street 159 Sir William Hearst Are 150 Street Test 7400 Portage Road 232 Gueph Street 235 Methods 356 Mitary Road | Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor Bih Floor 9th Floor 2nd Floor, Suite 228 2nd Floor Building D Sh Floor Building D Sh Floor Building D Sh Floor 9th Floor
 | Guelph, ON
Peterborouch ON
Toronto ON
Guelph, ON
Efora ON
Toronto ON
Toronto ON
Toronto ON
Toronto ON
St. Catharines ON
St. Ca | N1G 4Y2
KsJ 3C7
M5G 2L5
N0B 1S0
M5G 2N4
M7A 2E1
M5G 2E5
L2R 7R4
M3M 0B7
L4W 4P4
L2R 7R4
M3M 0B7
L4W 4P4
L2R 7R4
M3M 0B7
L2R 6T2
L2R 6T2
L2F 6T2
L2F 6T2
L7G 4B1
L7G 4B1 | La Jammand Brate. a ca
ison for Anavard Bortario.ca
David Denyes @ ontario.ca
an.thornton @ ontario.ca
susan.cooper @ ontario.ca
Coleen, fitzerario I-hubble @ ontario.ca
coleen, fitzerario I-hubble @ ontario.ca
anneleis.eckert@ ontario.ca
dawn redia @ ontario.ca
dawn redia @ ontario.ca
dawn pini.rokosh @ ontario.ca
ellen.bennett @ ontario.ca
ellen.bennett @ ontario.ca
mortario.ca
ponatan.boone @ ontario.ca
mgruosso@ niagaraparks.com
Kim. Peters @ ontario.ca | 416-314-5148
905-704-3951
905-564-5265
905-704-2601
905-6877-5191 | 2
2
4
4
4
4
4
4
4
4
4
4
4
4
4
 |
Emai Emai Emai Mail Emai Emai Emai Email	Jennifer Harvard David Geryes Ian Thornton Usan Magman Susan Cooper Lisan Mysikci Colleen F tzparaid-Hubble Anneleis Eckert Adam Redien Dawn Palin Rokoch Dawn Palin Rokoch Dawn Palin Rokoch Jennifer Hay Ellen Bernett Giern Durphy Jonathan Bocne Xin Weng Marotelo Gruosso Kim Peters Michael Baran	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Infrastructure Ontario Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Transportation Niagara Facts Commission Niagara Facts Commission Niagara False Grommission Niagara False Orminission Niagara False Orminission Niagara False Orminission Niagara False Commission Niagara False Orministo Orminia Niagara Orminia Ormini	Provincial	External Ext	Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Guelph District Manager, Guelph District Manager, Guelph District Manager, Guelph Director, Environmental Management Branch Director, Environmental Management Branch Rug Planner Western Region Assistant Deput Minister Infrastructure Policy Division Director Infrastructure Policy Division Regional Advisor St. Catharines Office Area Contracts Engineering - Central Region Regional Manager, Regional Operations - Central West Head - Construction and Engineering Area Manager Hamilton/Nisgara Senior Director Engineering Parking & Transportation Senior Strategic Advisor Planner	Stone Road W Storet West Storet West Storet West Store Road West Storet Store Road West Storet Storet	Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor 8th Floor 9th Floor 2nd Floor, Suite 228 2nd Floor, Suite 228 2nd Floor, Suite 228 2nd Floor 9th Floor 9th Floor 3rd Floor 3rd Floor 3rd Floor	Guelph. ON Guelph. ON Peterborouch ON Toronto ON Elora ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON St. Catharines ON Toronto ON Mississuga, ON St. Catharines ON Toronto ON Construction Constru	N1G 4Y2 K9J 3C7 M5G 2L5 M1G 4Y2 M5G 2K3 M5G 2K3 M5G 2K3 M5G 2K4 M5G 2K3 M5G 2K4 M5G 2K3 M5G 2K4 M5G 2K3 M5G 2K4 M5G 2K3 M5G 2K	La browned Brate acts isonfer havered Bortario ca David Denyes® Ontario ca an.thornton @ontario ca Susan.cooper® Ontario ca Coleen, fitzerarish-bubble @ontario ca annelis eckert® ontario ca annelis eckert® ontario ca adam redish @ontario ca adam redish @ontario ca davis pain.rokosh @ontario ca ellen.bernett @ontario ca ellen.bernett @ontario ca ellen.bernett@ontario.ca mgruosso@ntario.ca mgruosso@ntario.ca ca cheyl.Tansony@ontario.ca cheyl.Tansony@ontario.ca cheyl.Tansony@ontario.ca	416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-703-5354	2 Voted that the NEC is interested in being Involved in the study
Emai Mai Mai Mai	Jennifer Harvard David Denyes Ian Thornton Susan Cooper Lisa Majanan Susan Cooper Lisa Majaki Colleen F tzgarad-Hubble Anneles Eckert Adam Reden Dawn Pain Rokosh Dawn Pain Rokosh Atter Earthy Jennifer Hight Ginn Dunghy Jonathan Boone Xin Weng Marcelo Gruosso Kim Peters Michael Barian Cheryl Tansony Ken Bieger Sheryl Bennett	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Angricu ture. Food and Rural Affairs Ministry of Arcito ture. Food and Rural Affairs Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Transportation Ministry of Infrasportation Ministry of Infrasportation Ministry of Infrasportation Ministry of Response Commission Niagara Escarpment Commission Niagara Falle Gommission Niagara Falle Gommission Niagara Falle Gommission Ontaiol Provincial Police Ontain Provincial Police Ontain Ontain Opencial Police Ontain Opencial Police	Provincial Provinci Provincial Provincial Provincial Provincial Provincial Pr	External Ext	Lands & Water Technical Specialist Fish & With Technical Specialist District Manager, Guelph Natural Heritage and Land Use Planning Advisor Environmental Advisor Director, Environmental Management Branch Rural Filamer Western Region Assistant Deputy Minister Infrastructure Policy Division Director Infrastructure Policy Division Serior Housing Advisor Regional Advisor General Region Regional Manager Regional Operations Office Regional Manager Agenetic Operations Area Manager Hamilton/Niagara Senior Director Engineering Parking & Transportation Senior Director Engineering Parking & Transportation Senior Director Engineering Parking & Transportation Senior Officer Accommodation Services Section Bureau Commander Bu	1 Stone Road W 300 Water Street 1 Oundas Street West 1 Dundas Street West 1 Dundas Street West 1 Stone Road West 4648 Wellington Road 7 777 Bay, Street 977 Bay, Street 977 Bay, Street 199 Street 199 Street 199 Street 199 Street 199 Street 190 Street 122 Gueph, Street 222 Gueph, Street 222 Gueph, Street 223 Gueph, Street 223 Gueph, Street 223 Gueph, Street 77 Memorial Avenue 777 Memorial Avenue 777 Memorial Avenue 777 Memorial Avenue	Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor Bih Floor 17th Floor Bih Floor 2nd Floor 2nd Floor Builing D 5h Floor Builing D 5h Floor Builing D 5h Floor Builing D 5h Floor 14h Floor 2nd Floor	Guelph. ON Guelph. ON Peterborouch ON Toronto ON Elora ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON St. Catharines ON Toronto ON Mississuga, ON St. Catharines ON Toronto ON Construction Constru	N1G 4Y2 K0,3 GC7 M6G 2L5 N1G 4Y2 M6G 2X4 M7G 2A5 M7G 2	La Jammand Brate. a.ca isa Itemand Brate. a.ca Divid Denyes @ ontario.ca isa.thornton @ ontario.ca susan.cooper @ ontario.ca lisa.mysikxl@ Infrastructureontario.ca coleren.fitzeraris-hubbl@ @ ontario.ca anneleis.eckert@ ontario.ca adam redis @ ontario.ca dawn genatureore @ ontario.ca ellen.bernett @ ontario.ca ellen.bernett @ ontario.ca ellen.bernett @ ontario.ca mgruosso@ niagaraparks.com Kim.Peters @ ontario.ca bioeger @ niagarafa Isbridges.com	416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-703-5354	2 Voted that the NEC is interested in being Involved in the study
Emai Mai Emai Emai Emai Mai Mai Emai Mai Mai Mai	Jennifer Harvard David Deryses Ian Tagman Susan Cooper Lisa Majitak Colleen F tzperaid-Hubble Annekes Ectent Davin Palin Rokoth Anne Earthy Jennifer Hay Hernet Ellen Bennett Ellen Bennett Bennet Bennet Marcela Gruosso Kim Peters Michael Baran Chery Tansony Kan Bioger Sheyl Bennett Sheyl Bennett Marcela Gruosso Kim Peters Michael Baran Cheryl Tansony	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Infrastructure Ontario Ministry of Northern Development. Mines Natural Resources and Forestry Infrastructure Ontario Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Infrastructure Ontario Ministry of Angico ure, Food and Rural Alfairs Ministry of Angico ure food and Rural Alfairs Ministry of Infrastructure, Soot and Rural Alfairs Ministry of Infrastructure, Commission Ministry of Infrastructure, Commission Niagara Escarpment Commission Niagara Escarpment Commission Niagara False Commission Niagara False Alfairs Ontario Provincial Policia Ministry of Infrastructure Ministry of Infrastructure Ontario Provincial Policia Ontario Provincial Policia Ontario Provincial Policia Ministry of Infrastructure Ministry of Infrastructure Ontario Provincial Policia Ontario Provincial Poli	Provincial Provinci Provincial Provincial Provincial Provincial Provincial Pr	External Ext	Lands & Water Technical Specialist Fish & Water Technical Specialist District Manager, Guelph Natural Heritage and Land Use Planning Advisor Environmental Advisor Director, Environmental Management Branch Ruag Flanner Western Region Director Environmental Advisor Director Environmental Advisor Control Control Control Control Control Control Director Infrastructure Policy Direison Director Infrastructure Policy Direison Control Control Control Control Control Director Infrastructure Policy Direison Director Infrastructure Policy Direison Director Infrastructure Policy Direison Director Infrastructure Policy Direison Director Engineering Control Control Director Engineering Parking & Transportation Senior Director Engineering Parking & Transportation Senior Director Engineering Director	Stone Road W Solution Solution	Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor Bith Floor 90h Floor 2nd Floor, Suite 228 2nd Floor Building D 5h Floor 4th Floor 3rd Floor 1st Floor 3rd Floor 1st Floor 3rd Floor 1st Floor 3rd Floor 3rd Floor 3rd Floor 3rd Floor	Guelph. ON Peterborouch ON Toronio ON Elora ON Toronio ON Toronio ON Toronio ON Toronio ON St. Catharines ON St. Catharines ON St. Catharines ON St. Catharines ON Toronio ON Magara Falla ON Georgetown ON Georgetown ON Georgetown ON Georgetown ON Georgetown ON Corlia ON Orlia ON Orlia ON Orlia ON Orlia ON Orlia ON Orlia ON Orlia ON Orlia ON Orlia ON Toronio ON	N1G 4Y2 Sy3 3C7 Sy3 3C7 M5G 2L5 N1G 4Y2 N08 1S0 M5G 2L5 M7A 2E1 M7G 2E2 L2R 7R4 M3M 0B7 L2R 7R4 M3M 0B7 L7G 4B1 L7G 4B1 L3V 743 L3V 773 L3V 773 L3V 7358 L3V 7358 L3V 7358	La browned Brate acts isonfer havered Bortario ca David Denyes® Ontario ca an.thornton @ontario ca Susan.cooper® Ontario ca Coleen, fitzerarish-bubble @ontario ca annelis eckert® ontario ca annelis eckert® ontario ca adam redish @ontario ca adam redish @ontario ca davis pain.rokosh @ontario ca ellen.bernett @ontario ca ellen.bernett @ontario ca ellen.bernett@ontario.ca mgruosso@ntario.ca mgruosso@ntario.ca ca cheyl.Tansony@ontario.ca cheyl.Tansony@ontario.ca cheyl.Tansony@ontario.ca	416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111	2 Victor that the NEC is interested in being involved in the study
Emai Mai Mai Mai Mai Mai Mai Mai Mai Mai												
 | Jennifer Harvard
David Dervjes
Ian Tkorniton
Lisa Majina
Lisa Majina
Lisa Majina
Coliene F tzpraid-Hubble
Annelais Eckent
Asse Earthy
Annelais Eckent
Asse Earthy
Jennifer Hay
Bernett
Ellen Bernett
Ellen Bernett
Bernett
Bernett
Bernett
Bernett
Bernett
Bornet
Marcalo Gruosso
Kim Peters
Michael Baran
Cheryl Bernett
Sheryl Bernett
Marcalo Guosso
Kim Peters
Michael Baran
Cheryl Tarsony
Ken Bieger
Sheryl Bernett
Mary Sherthorn
Al Supertorn
Kapsiger Laurin | Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Infrastructure Ontario Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry
of Northern Development Mines Natural Resources and Forestry Ministry of Angico Units, Food and Rural Affaits Ministry of Angico Units, Food and Rural Affaits Ministry of Transportation Niagara Eacarpment Commission Niagara False Development Commission Niagara False Development Niagara Ministry of Transportation Ministry of Transportation Ministry of Transportation Niagara False Automission Niagara False Automission Niagara False Automission Niagara False Automission Ministry of Transportation Niagara False Automission Ministry of Transportation Ministry of Minission Niagara False Automission Niagara False Automission Niagara False Automission Ministry of Transportation Niagara False Automity Ministry of Transportation Ministry of Tra
 | Provincial Provinci Provincial Provincial Provincial Provincial Provincial Pr | External Ext | Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Guelph District Manager, Guelph Natural Heritage and Land Use Planning Advisor Environmental Advisor Environmental Advisor Regional Advisor Regional Manager, Infrastructure Policy Division Director Infrastructure Policy Division Composition Advisor Regional Advisor & Catharines Office Area Contracts Engineering - Central Region Area Contracts Engineering - Central Region Area Contracts Engineering - Central Region Area Contractic Engineering - Central Region Area Contractic Engineering - Derking & Transportation Senior Strategic Advisor Flanner Senior Planner General Manager Provincial Commander Provincial Commander Bureau Commander Bureau Commander Director Director Environmental Management Branch | Stone Road W Street Stone Road W Sol Water Street Dundas Street West Stone Road Street Stone Road Street Stone Road Street Stone Road Street Stone Road Street Stone Road S | Ontario Government Building
2nd Floor
Buile 2000
30 dF Boor 3
21st Floor 3
21st Floor
3th Floor
3th Floor
2nd Floor, Suite 228
2nd Floor, Suite 228
2nd Floor
Building D 5th Floor
4th Floor
P.O. Box 150
3rd Floor
3rd Floor
4th Floor
 | Guelph, ON Guelph, ON Peterboroudh ON Toronto ON Elora ON | N1G 4Y2 Sy3 3C7 Sy3 3C7 Sy3 3C7 M5G 2L5 N1G 4Y2 N08 1S0 M5G 2E1 M7A 2E1 M7G 2X1 M7A 2E1 M7A 2E1 M7A 2E1 M7A 2E1 M7A 2E1 M7A 2E1 M7A 2E6 L26 672 L7G 4B1 L7G 4B1 L3V 703 L3V 773 L23V 773 L3V 773 L3V 773 L3V 773 <t< td=""><td>La Jammand Brate. aca
ison for Anavard Botato.ca
Divid Denyes® Ontario.ca
ian.thornton @ontario.ca
susan.cooper® Ontario.ca
Coleen, fitzeraris-hubble @Ontario.ca
coleen, fitzeraris-hubble @Ontario.ca
annelis.eckert@ontario.ca
dawn redis# @ontario.ca
dawn redis# @ontario.ca
dawn redis# @ontario.ca
ellen.bernett @ontario.ca
ellen.bernett @ontario.ca
mgruosso@ niagaraparks.com
Kim.Peters @ontario.ca
bieger @inagarafa Isbridges.com
bieger @inagarafa Isbridges.com</td><td>416-314-5148
905-704-3951
905-564-5265
905-704-2601
905-877-5191
905-877-5191
905-877-5191
905-8641
(705)329-6111</td><td>2 Victor that the NEC is interested in being involved in the study</td></t<> | La Jammand Brate. aca
ison for Anavard Botato.ca
Divid Denyes® Ontario.ca
ian.thornton @ontario.ca
susan.cooper® Ontario.ca
Coleen, fitzeraris-hubble @Ontario.ca
coleen, fitzeraris-hubble @Ontario.ca
annelis.eckert@ontario.ca
dawn redis# @ontario.ca
dawn redis# @ontario.ca
dawn redis# @ontario.ca
ellen.bernett @ontario.ca
ellen.bernett @ontario.ca
mgruosso@ niagaraparks.com
Kim.Peters @ontario.ca
bieger @inagarafa Isbridges.com
bieger @inagarafa Isbridges.com | 416-314-5148
905-704-3951
905-564-5265
905-704-2601
905-877-5191
905-877-5191
905-877-5191
905-8641
(705)329-6111 | 2 Victor that the NEC is interested in being involved in the study
 |
Emai Mai Emai Emai Emai Mai Mai Emai Mai Mai Mai	Jennifer Harvard David Dervys lan Thornion Lan Hagman Susan Cooper Lan Hagman Susan Cooper Colleger F tagerdd-Hubble Armeles Extert Ardam Redish Dewn Palin Rokosh Arwe Earthy Jennifer Hay Elien Bernett Elien Bernett Elien Bernett Marcelo Grussoo Kim Peters Marcelo Grussoo Kim Peters Cheryl Tansony Kan Bioger Sheryl Bernett Marg Silventorn A Spelantorn A	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development, Mines, Natural Resources and Forestry Ministry of Northern Development, Mines, Natural Resources and Forestry Ministry of Northern Development, Mines, Natural Resources and Forestry Ministry of Andrean Development, Mines, Natural Resources and Forestry Ministry of Andrean Kernel Artlans Ministry of Andrean Kernel Artlans Ministry of Infrastructure M	Provincial Provinci Provincial Provincial Provincial Provincial Provincial Pr	External Ext	Lands & Water Technical Specialist Fish & Water Technical Specialist District Manager, Guelph Natural Heritage and Land Use Planning Advisor Environmental Advisor Director, Environmental Management Branch Ruag Flanner Western Region Director Environmental Advisor Director Environmental Advisor Control Control Control Control Control Control Director Infrastructure Policy Direison Director Infrastructure Policy Direison Control Control Control Control Control Director Infrastructure Policy Direison Director Infrastructure Policy Direison Director Infrastructure Policy Direison Director Infrastructure Policy Direison Director Engineering Control Control Director Engineering Parking & Transportation Senior Director Engineering Parking & Transportation Senior Director Engineering Director	Stone Road W Solution Solution	Ontatio Government Building 2nd Floot Buile 2000 2014 Floor 3 21st Floor 3 21st Floor 3 21st Floor 21h Floor 2nd Floor, Suite 228 2nd Floor, Suite 228 2nd Floor Building D Sht Floor 4th Floor P.O. Box 150 3rd Floor 1st Floor 3rd Floor 3rd Floor 3rd Floor 3rd Floor 3rd floor 3rd floor 3rd floor	Guelph, ON Peterborouch ON Toronto ON Guelbh, ON Elora ON Toronto ON Toronto ON Toronto ON St. Catharines ON St. Catharines ON St. Catharines ON St. Catharines ON St. Catharines ON St. Catharines ON Toronto, ON St. Catharines	N1G 4Y2 Sy3 3C7 Sy3 3C7 M5G 2L5 N1G 4Y2 N08 1S0 M5G 2E1 M7G 2E1 L2R 7R4 M3M 0B7 L7G 4B1 L7G 4B1 L3V 703 L3V 703 L3V 703 L3V 7358 L3V 7358	La Jammand Brate. aca ison for Anavard Botato.ca Divid Denyes® Ontario.ca ian.thornton @ontario.ca susan.cooper® Ontario.ca Coleen, fitzeraris-hubble @Ontario.ca coleen, fitzeraris-hubble @Ontario.ca annelis.eckert@ontario.ca dawn redis# @ontario.ca dawn redis# @ontario.ca dawn redis# @ontario.ca ellen.bernett @ontario.ca ellen.bernett @ontario.ca mgruosso@ niagaraparks.com Kim.Peters @ontario.ca bieger @inagarafa Isbridges.com bieger @inagarafa Isbridges.com	416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111	2 Voted that the NEC is interested in being Involved in the study
Emai Mai Mai Mai Mai Mai Mai Mai Mai Mai	Jennifer Harvard David Dervys lan Thornion Lan Hagman Susan Cooper Look Marken Look Marken Look Marken Look Marken Adam Redish Dawn Palin Rokosh Adam Redish Dawn Palin Rokosh Akee Earthy Jennifer Hay Elien Bernnett Elien Bernnett Elien Bernnett Marcelo Gruosso Kim Peters Michael Barian Cheryl Tansony Kan Bioger Sheryl Bernett Mary Silverthorn Adar Sheryl Bernett Kingsley Laurin Genorg McCaw Karan Maexell Soch Kirkham	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Aprica Litrs. Food and Rural Alfains Ministry of Lononic Development. Employment and Infrastructure Ministry of Lorasportation Ministry of Transportation Niagara Escarpment Commission Niagara Escarpment Commission Niagara Falls Bridge Commission Ontatio Provincial Police Ontatio Provin	Provincial Provinci Provincial Provincial Provincial Provincial Provincial Pr	External Ext	Lands & Water Technical Specialist Fish & With Technical Specialist District Manager, Guelph District Manager, Guelph District Manager, Guelph District Manager, Guelph Assistant Deput Minister Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Composition Advisor Regional Advisor & Catharines Office Area Contracts Engineering - Central Region Area Contracts Engineering - Central Region Area Contractic Engineering - Central Region Area Contractic Engineering - Central Region Senior Housing C Engineering Parking & Transportation Senior Strategic Advisor Flanner Senior Planner General Manager Provincial Commander Provincial Commander Director Director Director Director Director Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager of Stakeholder Relations Ecology Technican - Reulations	1 Stone Road W 300 Water Street 1 Dundas Street West 1 Stone Road West 648 Wellington Road 7 777 DBr. Street 301 Sk. Paul Street 159 Sir William Hearst Are 1595 Farther Street 301 Sk. Paul Street 1595 Sir William Hearst Are 1695 Sir William Hearst Are 1606 Street East 7400 Portage Road 222 Guiph Street 232 Guiph Street 233 Street East 777 Memorial Avenue 777 Bay Street 778 Bay Street 777 Bay Street	Ontario Government Building 2nd Floor Buile 2000 30 dF Boor 3 21st Floor 3 21st Floor 3th Floor 3th Floor 2nd Floor, Suite 228 2nd Floor, Suite 228 2nd Floor Building D 5th Floor 4th Floor P.O. Box 150 3rd Floor 3rd Floor 4th Floor	Guelph, ON Guelph, ON Peterboroudh ON Toronto ON Elora ON	NIG 4Y2 K91 3G7 M5G 2L5 NIG 4Y2 K5G 2K5 NIG 4Y2 K7K M5G 2K5 L2R 7R4 M3M 0B7 L4W 4P4 L2R 7R4 M3M 0B7 L4W 4P4 L2R 7R4 M3M 0B7 L2W 7A2 L2R 7R4 M3M 0B7 L2W 7A2 L2R 7R4 M3M 0B7 L2W 7A2 L2W 7A2 L2W 7A2 L2W 7A2 L2W 7A3 L2W 7A3 L3W 7A3 L3	Lashemmand Banta acta igenifier havved Bortario ca David Denyes @ ontario ca ian thornton @ ontario ca isan thornton @ ontario ca isan second with the second of the second isan second with the second of the second collegen fitzeradd hubble @ ontario ca ananetis extert@ ontario ca adam.redia @ ontario ca dawn.redia @ ontario ca denn. Entert @ ontario ca glenn.dunphy@ ontario ca glenn.dunphy@ ontario ca glenn.dunphy@ ontario.ca mgrucoso@ niagaragarks.com Kim. Peters @ ontario.ca Cheryl. Tansony@ ontario.ca> kbieogr @ niagarafa Isbridges.com opp.communikyelations@ opp.ca rr@ peacebridge.com	416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111	2 Voted that the NEC is interested in being Involved in the study
Email Mail Email	Jennifer Harvard David Dervys lan Thornion Lan Hagman Susan Cooper Lonker, Fragerad-Hubble Armeles Extert Adam Redish Dewn Palin Rokosh Adax Earthy Jennifer Hay Elien Bernett Elien Bernett Elien Bernett Glern Durphy Jonathan Boorle Xin Weng Marcelo Gruosso Kim Peters Marcelo Gruosso Kim Peters Cheryl Tansony Kan Bioger Sheryl Bernett Marcelo Gruosso Kim Peters Kan Bioger Grupsball Genet Kangeley Laurin Genet Genet Genet Gorog Buckan Gorog Michael Conservation Adam Adaveth	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Resources Data Ministry of Encoretic Development and Infrastructure Ministry of Infrastructure Ministry of Infrastructures Ministry of Infrasportation Ministry of Transportation Niagara Escorpment Commission Niagara Escorpment Commission Niagara False Edge Commission Niagara False Autority Ontatio Provincial Police Ontatio Provincial Police Ontatio Provincial Police Ontatio Provincial Police Prece Endge Autority Ministry of Transportation Niagara Escorpment Commission Niagara Escorpment Commission Niagara False Autority Ministry of the Attorney General Aboriginal Justice Division Ministry of Actionute Food and Rural Alfaris Ministry of Actionute	Provincial Provinci Provincial Provincial Provincial Provincial Provincial Pr	External Ext	Lands & Water Technical Specialist Fish & Water Technical Specialist District Manager, Guelph District Manager, Market	Stone Road W Street Stone Road W Sol Water Street Loudas Street West Stone Road West Stone Road West Stone Road West Street Sol St	Ontatio Government Building 2nd Floot Side Floor S 2nd Floor S 21st Floor S 21st Floor 21st Floor 2nd Floor, Suite 228 2nd Floor, Suite 228 2nd Floor, Suite 228 2nd Floor Building D Sth Floor 4th Floor 7d Floor 3rd Floor 1st Floor 3rd Floor 4th Floor 2nd Floor 3rd floor	Gueiph, ON Gueiph, ON Peterborouch ON Toronto ON Gueiph, ON Elora ON Toronto ON St. Catharines ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON Toronto ON Georgetown ON Georgetown ON Georgetown ON Georgetown ON Georgetown ON Crait a ON Orli a ON Toronto O	N1G 4Y2 K9J 3C7 K9J 3C7 K9J 3C7 K9J 3C7 MSG 2L5 M1G 4Y2 M56 2E5 L2R 7R4 M3M 087 L2R 7R4 M3M 087 L2R 7R4 M3M 087 L37 784 L30 703 L37 773 L37 773 <td< td=""><td>La Jammand Brate. aca ison for Anavard Botato.ca Divid Denyes® Ontario.ca ian.thornton @ontario.ca susan.cooper® Ontario.ca Coleen, fitzeraris-hubble @Ontario.ca coleen, fitzeraris-hubble @Ontario.ca annelis.eckert@ontario.ca dawn redis# @ontario.ca dawn redis# @ontario.ca dawn redis# @ontario.ca ellen.bernett @ontario.ca ellen.bernett @ontario.ca mgruosso@ niagaraparks.com Kim.Peters @ontario.ca bieger @inagarafa Isbridges.com bieger @inagarafa Isbridges.com</td><td>416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111</td><td>2 Voted that the NEC is interested in being Involved in the study</td></td<>	La Jammand Brate. aca ison for Anavard Botato.ca Divid Denyes® Ontario.ca ian.thornton @ontario.ca susan.cooper® Ontario.ca Coleen, fitzeraris-hubble @Ontario.ca coleen, fitzeraris-hubble @Ontario.ca annelis.eckert@ontario.ca dawn redis# @ontario.ca dawn redis# @ontario.ca dawn redis# @ontario.ca ellen.bernett @ontario.ca ellen.bernett @ontario.ca mgruosso@ niagaraparks.com Kim.Peters @ontario.ca bieger @inagarafa Isbridges.com bieger @inagarafa Isbridges.com	416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111	2 Voted that the NEC is interested in being Involved in the study
Email Ermail Mail Mail Mail Mail Ermail Ermail Ermail Ermail Ermail Ermail Ermail Ermail Ermail												
 | Jennifer Harvard David Geryss Ian Teorrion Susan Cooper Long Market Adam Reads Adam Adam Adam | Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Anches. Food and Rural Atlain Ministry of Economic Development Employment and Infrastructure Ministry of Transportation Niagara Escarpment Commission Niagara Escarpment Commission Niagara Falls Bridge Commission Niagara Falls Bridge Commission Ministry of Transportation Niagara Falls Bridge Commission Niagara Falls Bridge Commission Niagara Falls Athering Ministry of Athering Ministr

 | Provincial | External Ext | Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Gueiph District Manager, Gueiph District Manager, Gueiph Natural Heritage and Land Use Planning Advisor Environmental Advisor Management Branch Rug Planner Western Region Advisor Manager Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Composition Advisor St. Catharines Office Area Contracts Engineering - Central Region Area Contracts Engineering - Central Region Area Contractic Engineering - Central Region Senior Housing C Engineering Parking & Transportation Senior Strategic Advisor Flanner Senior Planner General Manager Provincial Commander Provincial Commander Director Director Director Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager Office Exologional Manager Regional Manager Ecology Technician - Planning & Regulations Senior Manager Ecology Technican - Regulations Ecology Technican - Regulations | 1 Stone Road W 300 Water Street 1 Dundas Street West 1 Stone Road West 648 Wellington Road 7 777 Bay Street 900 Bay Street 830 Free Street 830 Free Street 830 Free Street 831 Street 832 Street 833 Free Street 833 Street East 7400 Portage Road 232 Guelph Street 232 Guelph Street 232 Guelph Street 232 Guelph Street 233 Street 244 Street 232 Guelph Street 233 Street 244 Street 234 Guelph Street 235 Street 245 Street 250 Encold Avenue 777 Manorial Avenue 100 Douene Street 200 Bay Street 110 Store Street 250 Thorold Road West 250 Thorold Road West 250 Thorold Road West | Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor Bih Floor 17th Floor 9th Floor 2nd Floor, Suite 228 2nd Floor Building D 5th Floor 4th Floor 3rd Floor 3rd Floor 1st Floor 3rd Floor 3rd Floor 4th Floor 3rd Floor
 | Guelph. ON
Guelph. ON
Toronto ON
Guelph. ON
Elora ON
Toronto ON
Toronto ON
Toronto ON
St. Catharines ON
St. Catharines ON
St. Catharines ON
Toronto ON
Toronto ON
Toronto ON
Toronto ON
Georgetown ON
Georgetown ON
Georgetown ON
Georgetown ON
Georgetown ON
Georgetown ON
Georgetown ON
Corli a ON
Orli a ON
Orli a ON
For Erie ON
Toronto ON
Welland ON
Welland ON | N1G 4Y2 N1G 4Y2 Sy3 3C7 M5G 2L5 N1G 4Y2 M5G 2L5 N08 150 M5G 2E1 M5G 2E2 L7R M5G 2E3 L7R M5G 2E4 M7A 2E1 M7A 2E1 M7A 2E1 M7A 2E1 L7R M067 M3M 0B7 L7R 441 L7G 481 L7G 481 L7G 481 L37 703 L33 7703 L33 392 | Lashemand Barta esta
isonfer Anavad Bortario ca
ian.thornton @ontario.ca
ian.thornton @ontario.ca
ian.thornton @ontario.ca
Usaan.cooper @ontario.ca
annelis.eckert@ontario.ca
annelis.eckert@ontario.ca
adamr.redih.@ontario.ca
dawn.redih.@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
ellen.burnett@ontario.ca
Mim.Peters@ontario.ca
Cheryl.Tansony@ontario.ca>
Kbieget@niagarafalbbridges.com
irt@paesebridge.com
irt@paesebridge.com
aladworth@npca.ca
maliet@npca.ca
ingreen@npca.ca | 416-314-5148
905-704-3951
905-564-5265
905-704-2601
905-877-5191
905-877-5191
905-877-5191
905-8641
(705)329-6111 | 2 Voted that the NEC is interested in being Involved in the study
 |
Email Ermail Mail Mail Mail Mail Ermail Ermail Ermail Ermail Ermail Ermail Ermail Ermail Ermail	Jennifer Harvard Jenvide Peryse Jan Hagman Susan Cooper Lisa Majida Colleen F tzparaid-Hubble Lisa Majida Colleen F tzparaid-Hubble Annelse Eckent Annelse Eckent Annelse Eckent Annelse Eckent Annel Pain for the transmitter annel of the transmitter defend Dunphy Jennifer Hay Hancelo Grupsso Kim Peters Michael Baran Chery Tansony Ken Bieger Sheryl Bennett Mary Sherthorn Al Sparing Ken Bieger Sheryl Bennett Kannel Maswell Scott Kirkham Conservation Authorities Adam Adworth Steve Miller Joshua Diannod Natale Green	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Employment and Infrastructure Ministry of Transportation Niagara Escarpment Commission Niagara Fals Bridge Commission Niagara Fals Bridge Commission Niagara Fals Bridge Commission Niagara Fals Bridge Commission Ministry of Transportation Ministry of Ministry of Transportation Ministry of Ministry of Ministion Ministry of Ministry of Ministion Ministry	Provincial	External Ext	Lands & Water Technical Specialist Fish & With Technical Specialist District Manager, Gueiph Natural Heritage and Land Use Planning Advisor Environmental Advisor Environmental Advisor Environmental Advisor Environmental Advisor Expression Director Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Component Advisor Regional Advisor Regional Advisor Regional Advisor Regional Advisor Senior Housing Advisor Senior Housing Advisor Senior Housing Advisor Regional Advisor Senior Director Engineering Parking & Transportation Senior Director Engineering Parking & Transportation Senior Director Engineering Parking & Transportation Senior Director Accountedion Services Section Bureau Commander Provincial Commander Director Director Director Director Director Environmental Management Branch Assistant Deouty Minister Infrastructure Policy Manager of Stakeholder Relations Senior Manager Relations Senior Manager Relations Senior Technican - Relations Director	1 Stone Road W 300 Water Street 1 Dundas Street West 1 Stone Road West 648 Wellington Road 7 777 DBr. Street 301 Sk. Paul Street 159 Sir William Hearst Are 1595 Farther Street 301 Sk. Paul Street 1595 Sir William Hearst Are 1695 Sir William Hearst Are 1606 Street East 7400 Portage Road 222 Guiph Street 232 Guiph Street 233 Street East 777 Memorial Avenue 777 Bay Street 778 Bay Street 777 Bay Street	Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor 8th Floor 9th Floor 2nd Floor 2nd Floor 2nd Floor 2nd Floor 2nd Floor 2nd Floor 9.0. Box 150 3rd Floor 1st Floor 1st Floor 1st Floor 4th Floor 4th Floor 3rd Floor	Guelph. ON Guelph. ON Peterborouch ON Toronto ON Elora ON Elora ON Toronto ON Toronto ON Toronto ON St. Catharines ON St. Catharines ON Toronto ON Toronto ON Toronto ON Catharines ON Central ON Concord ON Cancord	N1G 4Y2 S9J 3C7 S9J 3C7 M5G 2L5 N1G 4Y2 N06 1S0 M5G 2L5 M7A 2E1 M6G 2E5 L7R 7R4 M3M 0B7 M7A 2E6 L26 672 L7G 4B1 L7G 4B1 L30 703 L30 703 L30 773 L30 3W2 L30 3W2 L30 3W2 L30 3W2 L30 3W2 L30 3W2 <td< td=""><td>La Jammard Brate. e.s. isa Hornton @ontario.ca an.thornton @ontario.ca susan.cooper @ontario.ca lisa.mysikki@infrastructureontario.ca coleren.fl.zarania hubble@ontario.ca anneles.eckert@ontario.ca adam.redah.gontario.ca dam.pain.rokosh@ontario.ca ellen.bernett@ontario.ca ellen.bernett@ontario.ca ellen.bernett@ontario.ca ellen.durpty@ontario.ca mgruosso@ntario.ca mgruosso@ntario.ca ca mgruosso@ntario.ca ca cheryl.Tansony@ontario.ca kbieger@ntagarafa labridges.com cheryl.Tansony@ontario.ca tkieger@ntagarafa labridges.com ca opp.communityrelations@opp.ca rr@pacebridge.com</td><td>416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111</td><td>2 Voted that the NEC is interested in being Involved in the study</td></td<>	La Jammard Brate. e.s. isa Hornton @ontario.ca an.thornton @ontario.ca susan.cooper @ontario.ca lisa.mysikki@infrastructureontario.ca coleren.fl.zarania hubble@ontario.ca anneles.eckert@ontario.ca adam.redah.gontario.ca dam.pain.rokosh@ontario.ca ellen.bernett@ontario.ca ellen.bernett@ontario.ca ellen.bernett@ontario.ca ellen.durpty@ontario.ca mgruosso@ntario.ca mgruosso@ntario.ca ca mgruosso@ntario.ca ca cheryl.Tansony@ontario.ca kbieger@ntagarafa labridges.com cheryl.Tansony@ontario.ca tkieger@ntagarafa labridges.com ca opp.communityrelations@opp.ca rr@pacebridge.com	416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111	2 Voted that the NEC is interested in being Involved in the study
Emai Mai Emai Mai Emai Emai </td <td>Jennifer Harvard Jenvide Preyse Jan Thornion David Denyse Jan Tapranon Susan Cooper Lisa Majaloki Converse Conv</td> <td>Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Action Liver. Food and Rural Alfairs Ministry of Intrastructure Ministry of Intrasportation Ministry of Intasportation Ministry of Intasportation Niagara Escarpment Commission Niagara Escarpment Commission Niagara Falls Bridge Commission Ministry of Inta Altoney General Aboriginal Justice Division Ministry of Inta Altoney General Aboriginal Justice Division Ministry of Inta Altoney General Aboriginal Justice Division Ministry of Inta Altoney General Budieg Ministry of Inta Altoney General Mortiginal Justice Division Ministry of Inta Altoney General Mortiginal Justice Division Ministry of Inta Altoney General Engloyment and Infrastructure Ministry of Inta Altoney General Budieg Ministry of Inta Altoney General Mortiginal Justice Division Ministry of Inta Altoney General Budieg Ministry of Inta Altoney General</td> <td>Provincial Provincial Provincial</td> <td>External External Ext</td> <td>Lands & Water Technical Specialist Fish & Water Technical Specialist District Manager, Guelph Natural Heritage and Land Use Planning Advisor Environmental Advisor Director, Environmental Management Branch Rural Flammer Western Region Apriced Infrastructure Policy Division Apriced Infrastructure Policy Division Control Control Control Control Control Control Service House Regional Advisor Science Control Control Regional Advisor Science Control Region Area Contracts Engineering - Central Region Regional Manager, Regional Operations - Central West Head - Construction and Engineering Area Contractic Engineering - Central Region Senior Director Engineering Parking & Transportation Senior Director Engineering Parking & Transportation Senior Director Engineering - Central Region Control Director Engineering - Central Region Control Director Engineering - Central Region Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager G Stakeholder Relations Ecology Technician - Planning & Regulations Senior Stateger Nager Rever Remedial Action Plan Regional Community Affairs Manager</td> <td>Stone Road W Street Source Vest Street Source Vest So</td> <td>Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor Bith Floor 17th Floor 9th Floor 2nd Floor, Suite 228 2nd Floor Building D Sth Floor 4th Floor 9 An of Suite 228 2nd Floor Building D Sth Floor 4th Floor 3rd Floor 3rd Floor 4th Floor 3rd Floor</td> <td>Guelph. ON Feterboreuch ON Toronto ON Elora ON Elora ON Toronto ON Toronto ON Toronto ON St. Catharines ON St. Catharines ON St. Catharines ON Toronto ON Modisauthor ON Toronto ON Toronto ON Ceorgetown ON Georgetown ON Gwelph ON Toronto ON Welland ON Welland ON Welland ON Welland ON Concord ON Co</td> <td>N1G 4Y2 N1G 4Y2 K9J 3C7 K9J 3C7 MSG 2L5 N1G 4Y2 MSG 2A0 MSG 2A0 MSG 2A0 MSG 2A0 MSG 2A0 MSG 2A1 MSG 2A0 MSG 2A0 MSG 2A1 L2R 7R4 M3M 0B7 L2K 7R4 M3M 0B7 L2K 612 L7G 481 L4092 L3V 7V3 L3V 7V3 L3V 7V3 L3V 7V3 L3V 7V3 L3C 3W2 L4X 189</td> <td>La brownard Brate. aca ison fer haver 48 Centario. ca David Denyes 8 Centario. ca an.thornton @ ontario. ca susan.cooper 8 ontario. ca Susan.cooper 8 ontario. ca coleren.fizzeraris-hubble @ ontario. ca anneleis.eckert® ontario. ca adam redia feo tratio. ca davin redia feo toratio. ca ellen.bernett ® ontario. ca ellen.bernett ® ontario. ca ellen.bernett @ ontario. ca ellen.bernett @ ontario. ca davin y calis @ ontario. ca ca ellen.bernett @ ontario. ca ca broatan.boone @ ontario. ca ca for Atlan.boone @ ontario. ca ca copo community ellations.ca biseger @ niagarafa labridges.com capp.community ellations @ opp.ca rr @ peacebridge.com smiller @ npca.ca daniel salvatore @ cn.ca</td> <td>416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111</td> <td>2 Voted that the NEC is interested in being Involved in the study</td>	Jennifer Harvard Jenvide Preyse Jan Thornion David Denyse Jan Tapranon Susan Cooper Lisa Majaloki Converse Conv	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Action Liver. Food and Rural Alfairs Ministry of Intrastructure Ministry of Intrasportation Ministry of Intasportation Ministry of Intasportation Niagara Escarpment Commission Niagara Escarpment Commission Niagara Falls Bridge Commission Ministry of Inta Altoney General Aboriginal Justice Division Ministry of Inta Altoney General Aboriginal Justice Division Ministry of Inta Altoney General Aboriginal Justice Division Ministry of Inta Altoney General Budieg Ministry of Inta Altoney General Mortiginal Justice Division Ministry of Inta Altoney General Mortiginal Justice Division Ministry of Inta Altoney General Engloyment and Infrastructure Ministry of Inta Altoney General Budieg Ministry of Inta Altoney General Mortiginal Justice Division Ministry of Inta Altoney General Budieg Ministry of Inta Altoney General	Provincial	External Ext	Lands & Water Technical Specialist Fish & Water Technical Specialist District Manager, Guelph Natural Heritage and Land Use Planning Advisor Environmental Advisor Director, Environmental Management Branch Rural Flammer Western Region Apriced Infrastructure Policy Division Apriced Infrastructure Policy Division Control Control Control Control Control Control Service House Regional Advisor Science Control Control Regional Advisor Science Control Region Area Contracts Engineering - Central Region Regional Manager, Regional Operations - Central West Head - Construction and Engineering Area Contractic Engineering - Central Region Senior Director Engineering Parking & Transportation Senior Director Engineering Parking & Transportation Senior Director Engineering - Central Region Control Director Engineering - Central Region Control Director Engineering - Central Region Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager G Stakeholder Relations Ecology Technician - Planning & Regulations Senior Stateger Nager Rever Remedial Action Plan Regional Community Affairs Manager	Stone Road W Street Source Vest Street Source Vest So	Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor Bith Floor 17th Floor 9th Floor 2nd Floor, Suite 228 2nd Floor Building D Sth Floor 4th Floor 9 An of Suite 228 2nd Floor Building D Sth Floor 4th Floor 3rd Floor 3rd Floor 4th Floor 3rd Floor	Guelph. ON Feterboreuch ON Toronto ON Elora ON Elora ON Toronto ON Toronto ON Toronto ON St. Catharines ON St. Catharines ON St. Catharines ON Toronto ON Modisauthor ON Toronto ON Toronto ON Ceorgetown ON Georgetown ON Gwelph ON Toronto ON Welland ON Welland ON Welland ON Welland ON Concord ON Co	N1G 4Y2 N1G 4Y2 K9J 3C7 K9J 3C7 MSG 2L5 N1G 4Y2 MSG 2A0 MSG 2A0 MSG 2A0 MSG 2A0 MSG 2A0 MSG 2A1 MSG 2A0 MSG 2A0 MSG 2A1 L2R 7R4 M3M 0B7 L2K 7R4 M3M 0B7 L2K 612 L7G 481 L4092 L3V 7V3 L3V 7V3 L3V 7V3 L3V 7V3 L3V 7V3 L3C 3W2 L4X 189	La brownard Brate. aca ison fer haver 48 Centario. ca David Denyes 8 Centario. ca an.thornton @ ontario. ca susan.cooper 8 ontario. ca Susan.cooper 8 ontario. ca coleren.fizzeraris-hubble @ ontario. ca anneleis.eckert® ontario. ca adam redia feo tratio. ca davin redia feo toratio. ca ellen.bernett ® ontario. ca ellen.bernett ® ontario. ca ellen.bernett @ ontario. ca ellen.bernett @ ontario. ca davin y calis @ ontario. ca ca ellen.bernett @ ontario. ca ca broatan.boone @ ontario. ca ca for Atlan.boone @ ontario. ca ca copo community ellations.ca biseger @ niagarafa labridges.com capp.community ellations @ opp.ca rr @ peacebridge.com smiller @ npca.ca daniel salvatore @ cn.ca	416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111	2 Voted that the NEC is interested in being Involved in the study
Emai	Jenniter Harvard Jenvise Jenvise Jan Hagman Jan Hagman Jan Toortion Jan Hagman Jan Hagma	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Angrice Unre Food and Rural Affairs Ministry of Angrou Unre Food and Rural Affairs Ministry of Infrastructure Ministry of Infrastructure Ministry of Transportation Ministry of Angeorement Commission Niagara Eacarpment Commission	Provincial	External Ext	Lands & Water Technical Specialist Fish & With Technical Specialist District Manager, Gueiph Natural Heritage and Land Use Planning Advisor Environmental Advisor Environmental Advisor Environmental Advisor Environmental Advisor Expression Director Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Component Advisor Regional Advisor Regional Advisor Regional Advisor Regional Advisor Senior Housing Advisor Senior Housing Advisor Senior Housing Advisor Regional Advisor Senior Director Engineering Parking & Transportation Senior Director Engineering Parking & Transportation Senior Director Engineering Parking & Transportation Senior Director Accountedion Services Section Bureau Commander Provincial Commander Director Director Director Director Director Environmental Management Branch Assistant Deouty Minister Infrastructure Policy Manager of Stakeholder Relations Senior Manager Relations Senior Manager Relations Senior Technican - Relations Director	1 Stone Road W 300 Water Street 1 1 Stone Road West 1 Stone Road West 648. Wellington Road 7 777 Bay. Street 607 Bay. Street 607 Bay. Street 607 Bay. Street 1500 En Road West 607 Bay. Street 1500 En Road Road Yest 1500 En Proje Rof 301 St. Paul Street 1500 En Street Road 1500 Street East 7400 Portage Road 232 Guejh. Street 232 Guejh. Street 232 Guejh. Street 232 Guejh. Street 233 Street 234 West Road 2354 Millary Road 777 Memorial Avenue 777 Memorial Avenue 777 Memorial Avenue 777 Bay. Street 160 Bioor Street 150 Street East 160 Bioor Street East 160 Bioor Street East 160 Bioor Street East 160 Dioor Street East 160 Dioor Street East 160 Dioor Street East	Ontario Government Building 2nd Floor 2nd Floor 3rd Floor 21st Floor 3th Floor 17th Floor 3th Floor 2nd Floor, Suite 228 2nd Floor 3rd Floor<	Guelph. ON Feterboreuch ON Toronto ON Guelph. ON Elora ON Toronto ON Stronto ON Toronto ON Toronto ON St. Catharines ON St. Catharines ON St. Catharines ON St. Catharines ON Toronto, ON Mississup, ON Georgetown ON G	N1G 4Y2 SQJ 3C7 M5G 2L5 M1G 4Y2 M5G 2L5 N08 1S0 M5G 2R4 M5G 2R4 M5G 784 M3M 0B4 M3M 0B7 M3M 0B7 M3M 0B7 M3M 0B7 M3M 0B7 M7A 226 L76 4B1 L76 4B1 L37 743 L37 342 M7A 326 M7A 326 M7A 326 M7A 326 M7A 326 M7A 326 M50 W1G 472 L30 3W2 L30 3W2 L30 3W2 L30 3W2 L30 3W2	La brownard Brate. aca ison fer haver 48 Centario. ca David Denyes 8 Centario. ca an.thornton @ ontario. ca susan.cooper 8 ontario. ca Susan.cooper 8 ontario. ca coleren.fizzeraris-hubble @ ontario. ca anneleis.eckert® ontario. ca adam redia feo tratio. ca davin redia feo toratio. ca ellen.bernett ® ontario. ca ellen.bernett ® ontario. ca ellen.bernett @ ontario. ca ellen.bernett @ ontario. ca davin y calis @ ontario. ca ca ellen.bernett @ ontario. ca ca broatan.boone @ ontario. ca ca for Atlan.boone @ ontario. ca ca copo community ellations.ca biseger @ niagarafa labridges.com capp.community ellations @ opp.ca rr @ peacebridge.com smiller @ npca.ca daniel salvatore @ cn.ca	416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111	2 Voted that the NEC is interested in being Involved in the study
Emai Mai Emai Mai Emai Mai Emai Mai Emai Mai Emai	Jennifer Harvard David Geryes Ian Teorriton David Geryes Ian Teorriton Lisa Majitak Collem F External-Hubble Davn Pain Rokosh Dawn Pain Rokosh Dawn Pain Rokosh Dawn Pain Rokosh Case Extry Second S	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Actiou tors, Food and Rural Atlains Ministry of Intrastructure Ministry of Intrastructure Ministry of Intrastructure Ministry of Intrasportation Ministry of Intrasportation Ministry of Intrasportation Ministry of Transportation Magara Eastroment Commission Nagara Falls Bridge Commission Nagara Falls Atherits	Provincial	External Ext	Lands & Water Technical Specialist Fish & Water Technical Specialist District Manager, Gueiph Natural Heritage and Land Use Planning Advisor Environmental Advisor Director, Environmental Advisor Assistant Deputy Minister Infrastructure Policy Division Senior Housian Engineering Parking & Transportation Senior Housian Advisor Parener Senior Director Engineering Parking & Transportation Bureau Commander Provincial Commander Bureau Commander Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager Alexander Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager V Banning & Regulations Ecology Technicaler Palaring & Regulations Ecology Technicaler Networks Ecology Technicaler Infrastructure Policy Manager V Marker Resource Water Commander Provincial Commander Provincial Commander Ecology Technicaler Infrastructure Policy Manager V Mater Resource Water Commander Proversite Commander Ecology Technicaler Infrastructure Policy Manager V Mater Resource Water Commander Proversite Commander Ecology Technicaler Policy Manager Placet Vater Resource Water Commander Proversite Commander Ecology Technicaler Policy Manager Manager Networks Contrable Works Contrable Works Special is Real Estate Sales and Acquisitions	1 Stone Road W 300 Water Street 1 1 Stone Road West 1 Stone Road West 644 Wellington Road 7 7700 Bir Street 700 Bir Street 301 St. Paul Street 1550 Enterprise Rd 301 St. Paul Street 1550 Enterprise Rd 301 St. Paul Street 1560 Enterprise Rd 301 St. Paul Street 150 Strengt Road 222 Guight Street 232 Guight Street 235 Guight Street 236 Will Read Road 237 Treet Memorial Avenue 777 Bay Street	Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor 21st Floor 21st Floor 21st Floor 2nd Floor <	Guelph, ON Guelph, ON Peterboroudh ON Toronto ON Guelph, ON Elora ON Toronto ON Elora ON St. Catharines ON Toronto ON Toronto ON St. Catharines ON Toronto ON Toronto ON Georgetown, ON Georgetown, ON Georgetown, ON Georgetown, ON Chagara Fals, ON Georgetown, ON Conta ON Orli a ON Concord ON Toronto ON Concord ON Concord ON Messissauga ON Messissauga ON Messissauga ON	N1G 4Y2 SQJ 3C7 M5G 2L5 M1G 4Y2 M5G 2L5 N08 1S0 M5G 2R4 M5G 2R4 M5G 784 M3M 0B4 M3M 0B7 M3M 0B7 M3M 0B7 M3M 0B7 M3M 0B7 M7A 226 L76 4B1 L76 4B1 L37 743 L37 342 M7A 326 M7A 326 M7A 326 M7A 326 M7A 326 M7A 326 M50 W1G 472 L30 3W2 L30 3W2 L30 3W2 L30 3W2 L30 3W2	La Jamanud Brata, aca isonfer Jamavel Gostario ca anthornton @ontario ca susan.coper@ontario ca Isa.mysikk@infrastructureontario ca coleen.fl.corand hubble@ontario ca anneles ecker@ontario.ca adam.redain@ontario.ca adam.redain@ontario.ca dam.pain.rokosi@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca mgruosso@ntario.ca mgruosso@ntario.ca Min.weng@ontario.ca Min.weng@ontario.ca Min.eng@ontario.ca mgruosso@ntario.ca ca mgruosso@ntario.ca tkieger@niagaragarks.com Kin.Peters@ontario.ca kieger@niagarafa labridges.com cheryt.Tansony@ontario.ca tr@pacabridge.com addworth@npca.ca mille@npca.ca daniel.salvatore@cn.ca indiale.valins@cn.ca daniel.salvatore@cn.ca indiale.valins@cn.ca indiale.valins@cn.ca indiale.valins@cn.ca indiale.valins@cn.ca indiale.valins@cn.ca ison.trant@cotrant.com	416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-303-6364 905-329-6111 905-871-1608	2 Voted that the NEC is interested in being Involved in the study
Emai Mai Emai Mai Emai Mai Emai Emai <td>Jennifer Harvard David Geryes Ian Hagman Susan Cooper Lisa Majika Caleen F topraid-Hubble Lisa Majika Caleen F topraid-Hubble Lisa Majika Caleen F topraid-Hubble Adam Redin Dawn Pain Rokosh Ame Earthy Jennifer Hay Ellen Bennett Ellen Bennett Ellen Bennett Ellen Bennett Bone Marcelo Gruosso Kim Peters Marcelo Gruosso Kim Peters Michael Baran Chery Tansony Kan Beiger Marcelo Gruosso Kim Peters Michael Baran Chery Tansony Kan Beiger Marcelo Gruosso Kim Peters Michael Baran Chery Tansony Kan Beiger Chery Tansony Kan Beiger George McCaw Karan Maevell Scott Kriham Conservation Authorities Adam Advorth Steve Miller Joshaa Diamond Natale Green Rail & Transit Damota Baran Marcelo Gruosso Karan Karan Maevell Scott Kriham Conservation Authorities Adam Advorth Steve Miller Jashaa Diamond Marka Caralib Mark Caralib Marka Caralib Adam Rain Jasha Caralib Adam Rain Jasha Caralib Adam Rain Jasha Caralib Adam Rain Jasha Caralib Adam Rain Las i Woo Ali Mir Mahmood</td> <td>Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Indrastructure Ministry of Nuncical Afriats Ministry of Intrastructure Ministry of Intrastructure Ministry of Transportation Niagara Escorpment Commission Niagara False Commission Niagara False Commission Niagara False Authority Ministry of Transportation Ministry of Indeprous Affaris Ministry of Indeprote Affaris Niagara False Authority Ministry of Commical Police<td>Provincial Provincial Provincial</td><td>External External Ext</td><td>Lands & Water Technical Specialist Fish & Water Technical Specialist District Manager, Guelph Natural Heritage and Land Use Planning Advisor Environmental Advisor Director, Environmental Management Branch Rung Flame Weterin Robin Director, Environmental Management Branch Area Contracts Engineering - Central Region Senior House Engineering Darking & Transportation Senior Strategic Advisor Barner Senior Director Engineering Parking & Transportation Senior Strategic Advisor Bureau Commander General Manager Provincial Commander Director Director Director Engineering Parking & Transportation Senior Strategic Advisor Director Director Engineering Parking & Transportation Senior Strategic Advisor Bureau Commander General Manager Bureau Commander Director Director Engineering Parking & Transportation Senior Strategic Advisor Director Director Engineering Parking & Transportation Senior Strategic Advisor Director Director Engineering Parking & Transportation Senior Strategic Advisor Panner Bureau Commander General Manager Parking Commander Director Director Engineering Parking & RealBusins Senior Manager Water Resources Water Coulty Secialist Protect Manager Mager Rever Remedial Action Plan Regional Community Affairs Manager Manager Public Works Contralist Parker Mendein Rever Parking Contrastions Manager Eastern Rever Remodul Action Plan Regional Centrast Manager Protect Manager Engineering Protect Manager Public Works Contralist Parker Mendein Rever Parking Officer Planning and Policy Protect Manager Eastern Rever Remedial Action Plan Regional Community Affairs Manager Manager Public Works Contralist Parker Rever Remedial Action Plan Regional Community Affairs Manager Protect Manager Public Works Contralist Rever Rever Rever Remedial Action Plan Regional Comm</td><td>Stone Road W Solution Solution</td><td>Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor 21st Floor 21st Floor 21st Floor 2nd Floor <</td><td>Guéph, ON Guéph, ON Guéph, ON Peterboroub ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON Georgetown ON Mississiang ON Missiang ON Mississiang ON Mississiang ON Mississiang ON</td><td>N1G 4Y2 N1G 4Y2 M5G 2L5 M1G 4Y2 M5G 2L5 M1G 52 M5G 2E5 L2R 7R4 M3M 067 L2R 7R4 M3M 067 L2R 7R4 M3M 067 L2R 7R4 M3M 067 L37 784 L37 784 M3M 057 L37 773 L37 773</td><td>La Jamand Barla - só a isa horna - so a David Denyes @ ontario.ca an.thornton @ ontario.ca isa.thornton @ ontario.ca isa.mspikki @ Infrastructureontario.ca coleen, fitzerad-hubble @ ontario.ca anneleis.eckert@ ontario.ca adamr.etgia @ ontario.ca dawn pain.rckosh @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca Cheyl.Tanscoy@ ontario.ca ca cheyl.C</td><td>416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111</td><td>2 Voted that the NEC is interested in being Involved in the study</td></td>	Jennifer Harvard David Geryes Ian Hagman Susan Cooper Lisa Majika Caleen F topraid-Hubble Lisa Majika Caleen F topraid-Hubble Lisa Majika Caleen F topraid-Hubble Adam Redin Dawn Pain Rokosh Ame Earthy Jennifer Hay Ellen Bennett Ellen Bennett Ellen Bennett Ellen Bennett Bone Marcelo Gruosso Kim Peters Marcelo Gruosso Kim Peters Michael Baran Chery Tansony Kan Beiger Marcelo Gruosso Kim Peters Michael Baran Chery Tansony Kan Beiger Marcelo Gruosso Kim Peters Michael Baran Chery Tansony Kan Beiger Chery Tansony Kan Beiger George McCaw Karan Maevell Scott Kriham Conservation Authorities Adam Advorth Steve Miller Joshaa Diamond Natale Green Rail & Transit Damota Baran Marcelo Gruosso Karan Karan Maevell Scott Kriham Conservation Authorities Adam Advorth Steve Miller Jashaa Diamond Marka Caralib Mark Caralib Marka Caralib Adam Rain Jasha Caralib Adam Rain Jasha Caralib Adam Rain Jasha Caralib Adam Rain Jasha Caralib Adam Rain Las i Woo Ali Mir Mahmood	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Indrastructure Ministry of Nuncical Afriats Ministry of Intrastructure Ministry of Intrastructure Ministry of Transportation Niagara Escorpment Commission Niagara False Commission Niagara False Commission Niagara False Authority Ministry of Transportation Ministry of Indeprous Affaris Ministry of Indeprote Affaris Niagara False Authority Ministry of Commical Police <td>Provincial Provincial Provincial</td> <td>External External Ext</td> <td>Lands & Water Technical Specialist Fish & Water Technical Specialist District Manager, Guelph Natural Heritage and Land Use Planning Advisor Environmental Advisor Director, Environmental Management Branch Rung Flame Weterin Robin Director, Environmental Management Branch Area Contracts Engineering - Central Region Senior House Engineering Darking & Transportation Senior Strategic Advisor Barner Senior Director Engineering Parking & Transportation Senior Strategic Advisor Bureau Commander General Manager Provincial Commander Director Director Director Engineering Parking & Transportation Senior Strategic Advisor Director Director Engineering Parking & Transportation Senior Strategic Advisor Bureau Commander General Manager Bureau Commander Director Director Engineering Parking & Transportation Senior Strategic Advisor Director Director Engineering Parking & Transportation Senior Strategic Advisor Director Director Engineering Parking & Transportation Senior Strategic Advisor Panner Bureau Commander General Manager Parking Commander Director Director Engineering Parking & RealBusins Senior Manager Water Resources Water Coulty Secialist Protect Manager Mager Rever Remedial Action Plan Regional Community Affairs Manager Manager Public Works Contralist Parker Mendein Rever Parking Contrastions Manager Eastern Rever Remodul Action Plan Regional Centrast Manager Protect Manager Engineering Protect Manager Public Works Contralist Parker Mendein Rever Parking Officer Planning and Policy Protect Manager Eastern Rever Remedial Action Plan Regional Community Affairs Manager Manager Public Works Contralist Parker Rever Remedial Action Plan Regional Community Affairs Manager Protect Manager Public Works Contralist Rever Rever Rever Remedial Action Plan Regional Comm</td> <td>Stone Road W Solution Solution</td> <td>Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor 21st Floor 21st Floor 21st Floor 2nd Floor <</td> <td>Guéph, ON Guéph, ON Guéph, ON Peterboroub ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON Georgetown ON Mississiang ON Missiang ON Mississiang ON Mississiang ON Mississiang ON</td> <td>N1G 4Y2 N1G 4Y2 M5G 2L5 M1G 4Y2 M5G 2L5 M1G 52 M5G 2E5 L2R 7R4 M3M 067 L2R 7R4 M3M 067 L2R 7R4 M3M 067 L2R 7R4 M3M 067 L37 784 L37 784 M3M 057 L37 773 L37 773</td> <td>La Jamand Barla - só a isa horna - so a David Denyes @ ontario.ca an.thornton @ ontario.ca isa.thornton @ ontario.ca isa.mspikki @ Infrastructureontario.ca coleen, fitzerad-hubble @ ontario.ca anneleis.eckert@ ontario.ca adamr.etgia @ ontario.ca dawn pain.rckosh @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca Cheyl.Tanscoy@ ontario.ca ca cheyl.C</td> <td>416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111</td> <td>2 Voted that the NEC is interested in being Involved in the study</td>	Provincial	External Ext	Lands & Water Technical Specialist Fish & Water Technical Specialist District Manager, Guelph Natural Heritage and Land Use Planning Advisor Environmental Advisor Director, Environmental Management Branch Rung Flame Weterin Robin Director, Environmental Management Branch Area Contracts Engineering - Central Region Senior House Engineering Darking & Transportation Senior Strategic Advisor Barner Senior Director Engineering Parking & Transportation Senior Strategic Advisor Bureau Commander General Manager Provincial Commander Director Director Director Engineering Parking & Transportation Senior Strategic Advisor Director Director Engineering Parking & Transportation Senior Strategic Advisor Bureau Commander General Manager Bureau Commander Director Director Engineering Parking & Transportation Senior Strategic Advisor Director Director Engineering Parking & Transportation Senior Strategic Advisor Director Director Engineering Parking & Transportation Senior Strategic Advisor Panner Bureau Commander General Manager Parking Commander Director Director Engineering Parking & RealBusins Senior Manager Water Resources Water Coulty Secialist Protect Manager Mager Rever Remedial Action Plan Regional Community Affairs Manager Manager Public Works Contralist Parker Mendein Rever Parking Contrastions Manager Eastern Rever Remodul Action Plan Regional Centrast Manager Protect Manager Engineering Protect Manager Public Works Contralist Parker Mendein Rever Parking Officer Planning and Policy Protect Manager Eastern Rever Remedial Action Plan Regional Community Affairs Manager Manager Public Works Contralist Parker Rever Remedial Action Plan Regional Community Affairs Manager Protect Manager Public Works Contralist Rever Rever Rever Remedial Action Plan Regional Comm	Stone Road W Solution Solution	Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor 21st Floor 21st Floor 21st Floor 2nd Floor <	Guéph, ON Guéph, ON Guéph, ON Peterboroub ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON Georgetown ON Mississiang ON Missiang ON Mississiang ON Mississiang ON Mississiang ON	N1G 4Y2 N1G 4Y2 M5G 2L5 M1G 4Y2 M5G 2L5 M1G 52 M5G 2E5 L2R 7R4 M3M 067 L2R 7R4 M3M 067 L2R 7R4 M3M 067 L2R 7R4 M3M 067 L37 784 L37 784 M3M 057 L37 773	La Jamand Barla - só a isa horna - so a David Denyes @ ontario.ca an.thornton @ ontario.ca isa.thornton @ ontario.ca isa.mspikki @ Infrastructureontario.ca coleen, fitzerad-hubble @ ontario.ca anneleis.eckert@ ontario.ca adamr.etgia @ ontario.ca dawn pain.rckosh @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca ellen.bennett @ ontario.ca Cheyl.Tanscoy@ ontario.ca ca cheyl.C	416-314-5148 905-704-3951 905-564-5265 905-704-2601 905-877-5191 905-877-5191 905-877-5191 905-8641 (705)329-6111	2 Voted that the NEC is interested in being Involved in the study
Emai Emai Emai Emai Emai Emai Emai Emai	Jennifer Harvard David Genyes Lisa Majirak Lisa Majirak Coleen F topraid-Hubble Lisa Majirak Coleen F topraid-Hubble Lisa Majirak Coleen F topraid-Hubble Coleen Coleen Chery Tansony Ken Belger Chery Tansony Ken Bel	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Andrea Development. Mines Natural Resources and Forestry Ministry of Angrice Unre Food and Rural Affairs Ministry of Angrice Unre. Food and Rural Affairs Ministry of Infrastructure Ministry of Infrastructure Ministry of Transportation Ministry of Infrastructure Ministry of Transportation Ministry of Angregorment Commission Niagara Easarpment Commission Niagara Easarpment Commission Ontatio Provincial Police Ontatio Provincial Police Ontatio Provincial Police Ontatio Provincial Police	Provincial	External Ext	Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Guelph District Manager, Guelph District Manager, Guelph Director, Environmental Management Branch Rug Planner Western Region Assistant Deput Minister Infrastructure Policy Division Director Infrastructure Policy Division Company Advisor St. Catharines Office Area Contracts Engineering - Central Region Area Contracts Engineering - Central Region Area Contraction Planner Senior Director Engineering Parking & Transportation Senior Strategic Advisor Planner Senior Planner Senior Director Engineering Parking & Transportation Senior Strategic Advisor Provincial Commander Bureau Commander Bureau Commander Bureau General Manager Provincial Commander Director Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager Assolvoich Resions Ecology Tachnidar - Dianning & Regulations Ecology Tachnidar - Dianner Resional Community Afristris Manager Manager Public Works Ch ralwaw yard	Stone Road W Street Stone Road W Sol Water Street Stone Road West Sol Water Street Stone Road West Stone Road West Stone Road West Stone Road West Stone Road Street Stone Road Road Street Stone Road Road Street Stone Road Road Street Stone Road Road Street Stone Road Road Street Stone Road Road Street Stone Road Road Street Stone Road Road Street Stone Road Road Street Stone Road Street Stone Road Street Stone Roa	Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor 21st Floor 21st Floor 21st Floor 2nd Floor <	Guéph, ON Guéph, ON Forciol ON Toronio ON Georgetown ON Gradeh GON Concord ON Concord ON Concord ON Georgetown ON Messiesaua ON Messiesaua ON Messiesaua ON Messiesaua ON Hamiton ON Hamiton ON Hamiton ON Hamiton ON	N1G 472 K9J 3C7 K9J 3C7 K9J 3C7 MSG 2L5 N1G 472 N08 150 MSG 225 M2G 225 M2G 226 M3M 087 L4W 4P4 L28 778 M3M 087 L26 612 L7G 481 L7G 481 L30 7V3 L30 7W2 L30 3W2 L30 3W2 <td< td=""><td>La Jammand Brate. a-ca isonfer Jamvard Bortario.ca David Denyes @ ontario.ca an.thornton @ ontario.ca susan.cooper @ ontario.ca Susan.cooper @ ontario.ca coleen.fl.tzeradi-bubble @ ontario.ca anneleis.cotert@ ontario.ca adam redia @ ontario.ca davin redia @ ontario.ca davin go ontario.ca ellen.bernett@ ontario.ca ellen.bernett@ ontario.ca ellen.bernett@ ontario.ca mgruosso@ niagaraparks.com Krin.Peters @ ontario.ca Cheryl.Tanscny@ ontario.ca ca bibleogr @ niagarafa lsbridges.com ca pp.communityrelations @ opp.ca rr@ peacebridge.com smiller @ npca.ca dami genz.ca dami genz.ca dami genz.ca dami genz.ca iennifer.banddc@cor</td><td>416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-303-6364 905-329-6111 905-871-1608</td><td>2 Voted that the NEC is interested in being Involved in the study</td></td<>	La Jammand Brate. a-ca isonfer Jamvard Bortario.ca David Denyes @ ontario.ca an.thornton @ ontario.ca susan.cooper @ ontario.ca Susan.cooper @ ontario.ca coleen.fl.tzeradi-bubble @ ontario.ca anneleis.cotert@ ontario.ca adam redia @ ontario.ca davin redia @ ontario.ca davin go ontario.ca ellen.bernett@ ontario.ca ellen.bernett@ ontario.ca ellen.bernett@ ontario.ca mgruosso@ niagaraparks.com Krin.Peters @ ontario.ca Cheryl.Tanscny@ ontario.ca ca bibleogr @ niagarafa lsbridges.com ca pp.communityrelations @ opp.ca rr@ peacebridge.com smiller @ npca.ca dami genz.ca dami genz.ca dami genz.ca dami genz.ca iennifer.banddc@cor	416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-303-6364 905-329-6111 905-871-1608	2 Voted that the NEC is interested in being Involved in the study
Email Ermail Bradil Ermail Ermail Bradil Ermail Bradil Ermail Bradil Bra	Jennifer Harvard Jenvide Flavard David Dervys Ian Tagrana Ian Tagrana Susan Cocoler Ian Tagrana Susan Cocoler Ian Tagrana Colleen F tagrand-Hubble Arneles Eckert Ardam Redish Dawn Palin Rokosh Arneles Eckert Ardam Redish Dawn Palin Rokosh Arneles Eckert Arnel Tagrand-Hubble Dawn Palin Rokosh Arneles Eckert Arnel Tagrand-Hubble Dawn Palin Rokosh Arneles Eckert Arnel Corosso Ken Peters Marcelo Gruosso Ken Peters Michael Baran Chery Tansony Ken Bioger Sheryl Bennett Mary Saverborn A Squires Ron Rienas Chery Tansony Ken Bioger Sheryl Bennett Mary Saverborn George McCaw Karan Maswell Soet Krinhan Conservation Authorities Adam Advorth Steve Miller Datel Steveton Michael Seren Markel Green Markel Green Markel Green Markel Green Markel Alling Mark Hallman Jaka Caralo Jasen Ron Markel Alling Mark Hallman Jasen Ron Markel Alling Markelanan Conservation Michael Karling Markelanan Jasen Caralo Alling Markelanan Alling All	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Lordina. Ministry of Transportation Niagara Escarpment Commission Niagara Escarpment Commission Niagara Falls Bridge Commission Ontario Provincial Police Ministry of Independant Affairs Ministry of Independant Affairs </td <td>Provincial Provincial Provincial</td> <td>External External Ext</td> <td>Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Guelph District Manager, Management Branch Environmental Advisor Amazer Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Component Segunal Advisor Anac Contracts Engineering - Central Region Area Contracts Engineering - Central Region Area Contracts Engineering - Central Region Area Contracts Engineering - Central Region Senior Housing C Engineering Parking & Transportation Senior Strategic Advisor Santor Toxics Engineering - Parking & Transportation Senior Strategic Advisor Bureau Commander Provincial Commander Director Director Director Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager of Stakeholder Relations Ecology Technican - Relations Manager Manager Kanter Kenedial Action Plan Regional Community Atlaris Manager Manager Manager Manager Manager Director Direc</td> <td>1 Stone Road W 300 Water Street 1 Dundas Street West 1 Stone Road West 6484 Wellington Road 7 777 Ber, Street 900 Bay, Street 307 Parking 308 Street 309 Street 309 Street 301 Street 302 Street 303 Street 304 Street 305 Street East 7040 Portage Road 232 Guelph Street 232 Street 777 Manorial Avenue 100 Dousen Street 200 Bay Street 1 Stone Road W 900 Bay Street 250 Thorold Road West 250 Thorold Road West<</td> <td>Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor 21st Floor 21st Floor 21st Floor 2nd Floor <</td> <td>Guelph, ON Peterborsuch ON Toronto ON Guelph, ON Elora ON Toronto ON Toronto ON St. Catharines ON Toronto ON St. Catharines ON Toronto, ON Name St. Catharines ON Toronto, ON Name Name St. Catharines ON Toronto, ON Name St. Catharines ON Toronto, ON Toronto, ON Georgetown ON Toronto ON Toronto ON Toronto ON Toronto ON</td> <td>N1G 472 K9J 3C7 K9J 3C7 K9J 3C7 MSG 2L5 N1G 472 N08 150 MSG 225 M2G 225 M2G 226 M3M 087 L4W 4P4 L28 778 M3M 087 L26 612 L7G 481 L7G 481 L30 7V3 L30 7W2 L30 3W2 <td< td=""><td>Las.brownad Borta esta isonfer Anavad Bortario.ca an.thornton@ontario.ca iso.thornton@ontario.ca iso.thornton@ontario.ca iso.thornton@ontario.ca coleen.fit.caradio-hubble@ontario.ca annelisi.ecker@ontario.ca adamr.redit.@ontario.ca dawn.redit.@ontario.ca dist.brownet@ontario.ca ellen.brownet@ontario.ca ellen.brownet@ontario.ca ellen.brownet@ontario.ca isonfer.brownet@ontario.ca ellen.brownet@ontario.ca isonfer.brownet@ontario.ca ellen.brownet@ontario.ca ellen.brownet@ontario.ca ellen.brownet@ontario.ca isonfer.brownet@ontario.ca ca mgrucesc@inagaraparks.com Kim.Peters@ontario.ca Cheryl.Tansony@ontario.ca- kbieeof@inagarafalbiofdes.com isonfer.brownet@ontario.ca addworth@npca.ca smille@npca.ca isonfer.broz.ca daniel.salvatore@on.ca isonfer.baned.cef@ontario.ca isonfer.baned.co isonfer.baned.</td><td>416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-324-5641 (705)329-6111 905-871-1608</td><td>2 Voted that the NEC is interested in being Involved in the study</td></td<></td>	Provincial	External Ext	Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Guelph District Manager, Management Branch Environmental Advisor Amazer Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Component Segunal Advisor Anac Contracts Engineering - Central Region Area Contracts Engineering - Central Region Area Contracts Engineering - Central Region Area Contracts Engineering - Central Region Senior Housing C Engineering Parking & Transportation Senior Strategic Advisor Santor Toxics Engineering - Parking & Transportation Senior Strategic Advisor Bureau Commander Provincial Commander Director Director Director Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager of Stakeholder Relations Ecology Technican - Relations Manager Manager Kanter Kenedial Action Plan Regional Community Atlaris Manager Manager Manager Manager Manager Director Direc	1 Stone Road W 300 Water Street 1 Dundas Street West 1 Stone Road West 6484 Wellington Road 7 777 Ber, Street 900 Bay, Street 307 Parking 308 Street 309 Street 309 Street 301 Street 302 Street 303 Street 304 Street 305 Street East 7040 Portage Road 232 Guelph Street 232 Street 777 Manorial Avenue 100 Dousen Street 200 Bay Street 1 Stone Road W 900 Bay Street 250 Thorold Road West 250 Thorold Road West<	Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor 21st Floor 21st Floor 21st Floor 2nd Floor <	Guelph, ON Peterborsuch ON Toronto ON Guelph, ON Elora ON Toronto ON Toronto ON St. Catharines ON Toronto ON St. Catharines ON Toronto, ON Name St. Catharines ON Toronto, ON Name Name St. Catharines ON Toronto, ON Name St. Catharines ON Toronto, ON Toronto, ON Georgetown ON Toronto ON Toronto ON Toronto ON Toronto ON	N1G 472 K9J 3C7 K9J 3C7 K9J 3C7 MSG 2L5 N1G 472 N08 150 MSG 225 M2G 225 M2G 226 M3M 087 L4W 4P4 L28 778 M3M 087 L26 612 L7G 481 L7G 481 L30 7V3 L30 7W2 L30 3W2 L30 3W2 <td< td=""><td>Las.brownad Borta esta isonfer Anavad Bortario.ca an.thornton@ontario.ca iso.thornton@ontario.ca iso.thornton@ontario.ca iso.thornton@ontario.ca coleen.fit.caradio-hubble@ontario.ca annelisi.ecker@ontario.ca adamr.redit.@ontario.ca dawn.redit.@ontario.ca dist.brownet@ontario.ca ellen.brownet@ontario.ca ellen.brownet@ontario.ca ellen.brownet@ontario.ca isonfer.brownet@ontario.ca ellen.brownet@ontario.ca isonfer.brownet@ontario.ca ellen.brownet@ontario.ca ellen.brownet@ontario.ca ellen.brownet@ontario.ca isonfer.brownet@ontario.ca ca mgrucesc@inagaraparks.com Kim.Peters@ontario.ca Cheryl.Tansony@ontario.ca- kbieeof@inagarafalbiofdes.com isonfer.brownet@ontario.ca addworth@npca.ca smille@npca.ca isonfer.broz.ca daniel.salvatore@on.ca isonfer.baned.cef@ontario.ca isonfer.baned.co isonfer.baned.</td><td>416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-324-5641 (705)329-6111 905-871-1608</td><td>2 Voted that the NEC is interested in being Involved in the study</td></td<>	Las.brownad Borta esta isonfer Anavad Bortario.ca an.thornton@ontario.ca iso.thornton@ontario.ca iso.thornton@ontario.ca iso.thornton@ontario.ca coleen.fit.caradio-hubble@ontario.ca annelisi.ecker@ontario.ca adamr.redit.@ontario.ca dawn.redit.@ontario.ca dist.brownet@ontario.ca ellen.brownet@ontario.ca ellen.brownet@ontario.ca ellen.brownet@ontario.ca isonfer.brownet@ontario.ca ellen.brownet@ontario.ca isonfer.brownet@ontario.ca ellen.brownet@ontario.ca ellen.brownet@ontario.ca ellen.brownet@ontario.ca isonfer.brownet@ontario.ca ca mgrucesc@inagaraparks.com Kim.Peters@ontario.ca Cheryl.Tansony@ontario.ca- kbieeof@inagarafalbiofdes.com isonfer.brownet@ontario.ca addworth@npca.ca smille@npca.ca isonfer.broz.ca daniel.salvatore@on.ca isonfer.baned.cef@ontario.ca isonfer.baned.co isonfer.baned.	416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-324-5641 (705)329-6111 905-871-1608	2 Voted that the NEC is interested in being Involved in the study
Emai Emai Emai Emai Emai Emai Emai Emai												
 | Jennifer Harvard Jenvide Flavard Devid Dervys Ian Tagrana Susan Cooker Ian Hagman Susan Cooker Colleen F tagrafd-Hubble Arneles Eckert Adam Redish Dewn Palin Rokosh Adae Earthy Jennifer Hay Elien Bernett Elien Bernett Elien Bernett Elien Bernett Elien Bernett Susan Durghy Jonather Eckert Arne Bernett Arne Peters Michael Baran Chery Tansony Ken Bioger Shery Bernett Marcelo Gruesso Kim Peters Nichael Baran Chery Tansony Ken Bioger Shery Bernett Geroge McCaw Karan Maswell Soci Krinha Authorities Adam Marcelo Graw Karan Maswell Soci Krinha Authorities Adam Marcelo Graw Karan Maswell Soci Krinha Damoth Siewe Miller Jennife Engender Marcelo Graw Karan Maswell Soci Krinha Damoth Neille F transit Marcelo Graw Karan Maswell Soci Krinha Damoth Neille F transit Marcelo Graw Karan Maswell Soci Krinha Uthorities Adam Adverth Siewe Miller Josen Tornia Jask Carelo Jase Tornia Jask Carelo Adam Adve Halman Jask Carelo Adam Adve Halman Mark Eadan Wittlets Karal | Ministry of Northern Development. Mines, Natural Resources and Forestry
Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Anorhern Development Mines Natural Resources and Forestry Ministry of Anorhern Development Mines Natural Resources and Forestry Ministry of Anorhern Development Employment and Infrastructure Ministry of Infrastructu
 | Provincial | External Ext | Lands & Water Technical Specialist Fish & With Technical Specialist District Manager, Gueiph Natural Heritage and Land Use Planning Advisor Environmental Advisor Environmental Advisor Environmental Advisor Regional Manager Infrastructure Policy Division Director Infrastructure Policy Division Composition Advisor Regional Advisor S. Catharines Office Area Contracts Engineering - Central Region Senior Housis Engineering - Central Region Senior Director Engineering Parking & Transportation Senior Strates Engineering - Central Region Senior Strates Engineering - Central Region Senior Stratege Advisor Barnee Senior Director Engineering Parking & Transportation Bureau Commander Provincial Commander Director Director Environmental Management Branch Assistant Deupty Minister Infrastructure Policy Manager of Stakeholder Relations Senior Manager Relations Endersolution Sectores Environmental Management Branch Assistant Deupty Minister Infrastructure Policy Manager of Stakeholder Relations Senior Judicity Socialist Project Manager Manager Regional Community Affairs Manager Manager Manager Regional Community Affairs Manager Manager Manager Relations Senior Director Director Director Environmental Manager Regional Commander | 1 Stone Road W 300 Water Street 1 Dundas Street West 1 Stone Road West 648 Wellington Road 7 777 Bay Street 900 Bay Street 315 De Road West 1550 Endoad West 1550 Endoad Mest 1550 Endoad Mest 1550 Endoad Mest 1550 Endoad Mest 159 Sir Walliam Hourst Ave 160 Bloor Street East 7040 Portage Road 232 Guelph Street 232 Street 232 Street 232 Bay Street 777 Menotial Avenue 700 Portage Street 1500 Encodd Road West 250 Thorold Road West 250 Chronid Road West 250 Chorold Road West 120 | Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor 21st Floor 21st Floor 21st Floor 2nd Floor <
 | Guelph, ON Peterborouch ON Toronto ON Guelph, ON Elora ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON No. ON St. Catharines ON Toronto ON Nagara Falls ON Georgetown ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON | N1G 4Y2 R9J 3C7 R9J 3C7 R9J 3C7 M5G 2L5 N1G 4Y2 RASG 2L5 NR6 1S0 M5G 2E1 M7A 2E1 M7G 2E4 M7G 2E4 M7A 2E1 M7A 2E1 M7A 2E1 M7A 2E1 M7A 2E1 M7A 2E6 L26 672 L7G 4B1 L7G 4B1 L37 743 L37 743 L37 743 L37 743 L37 773 L37 773 <t< td=""><td>La Jammand Brate. a ca
jenn fer Jamvard Bortario.ca
an.thornton @onario.ca
susan.cooper@ontario.ca
susan.cooper@ontario.ca
coleen.fitzerati-bubble@ontario.ca
coleen.fitzerati-bubble@ontario.ca
anneleis.cotert@ontario.ca
dawn redia @ontario.ca
dawn redia @ontario.ca
dawn redia @ontario.ca
ellen.bennett@ontario.ca
ellen.bennett@ontario.ca
ellen.bennett@ontario.ca
fendutario.ca
ellen.bennett@ontario.ca
foratana.boone@ontario.ca
mgrucoso@niagaragarks.com
Kim.Peters@ontario.ca
ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Case.ca
damie.salvatore@on.ca
mitre@paca.ca
damie.salvatore@on.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idma</td><td>416-314-5148
905-704-3951
905-564-5285
905-704-2601
905-877-5191
905-877-5191
905-324-5641
(705)329-6111
905-871-1608</td><td>2 Voted that the NEC is interested in being Involved in the study</td></t<> | La Jammand Brate. a ca
jenn fer Jamvard Bortario.ca
an.thornton @onario.ca
susan.cooper@ontario.ca
susan.cooper@ontario.ca
coleen.fitzerati-bubble@ontario.ca
coleen.fitzerati-bubble@ontario.ca
anneleis.cotert@ontario.ca
dawn redia @ontario.ca
dawn redia @ontario.ca
dawn redia @ontario.ca
ellen.bennett@ontario.ca
ellen.bennett@ontario.ca
ellen.bennett@ontario.ca
fendutario.ca
ellen.bennett@ontario.ca
foratana.boone@ontario.ca
mgrucoso@niagaragarks.com
Kim.Peters@ontario.ca
ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Tanscny@ontario.ca
cheyl.Case.ca
damie.salvatore@on.ca
mitre@paca.ca
damie.salvatore@on.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idmamod@npca.ca
idma | 416-314-5148
905-704-3951
905-564-5285
905-704-2601
905-877-5191
905-877-5191
905-324-5641
(705)329-6111
905-871-1608 | 2 Voted that the NEC is interested in being Involved in the study
 |
Email Mail Email Mail Email Mail Email Mail Email Mail Email	Jennifer Harvard Jenvide Preyse Jan Thornion Jan Hagman Susan Cooper Jan Hagman Susan Cooper Jan Hagman Susan Cooper Jan Hagman Adam Residen Adam Residen Dewn Palin Rokosh Adam Residen Adam Residen Adam Adam Residen Ada	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Apricu Jure Food and Rural Affairs Ministry of Apricu Jure Food and Rural Affairs Ministry of Lorasportation Ministry of Infrastructure Ministry of Infrasportation Ministry of Infrasportation Ministry of Infrasportation Ministry of Infrasportation Niagara Escarpment Commission Niagara Escarpment Commission Niagara Falls Bridge Commission Ontation Foroincal Police Ministry of Ancitouture Food and Rural Affairs	Provincial	External Ext	Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Guelph District Manager, Guelph District Manager, Guelph District Manager, Guelph Director, Environmental Management Branch Ruga Planner Western Region Assistant Deputy Minister Infrastructure Policy Division Director Infrastructure Policy Division Composition Advisor Regional Advisor Regional Advisor Regional Manager, Regional Operations - Central Region Regional Manager, Regional Operations - Central Region Regional Manager, Regional Operations - Central Region Senior Director Engineering Parking & Transportation Senior Strategic Advisor Director Engineering Parking & Transportation Senior Strategic Advisor Director Engineering Parking & Transportation Bureau, Commander General Manager Director Director Engineering Center Director Director Engineering Advisor Ecology Technician - Planning & Regulations Senior Manager Watt Resources Water County Specialist Project Manager Nations Ecology Technician - Planning & Regulations Senior Manager Water Resources Water County Specialist Project Manager Section Extrastructure Policy Manager distarbioter Relations Ecology Technician - Planning & Regulations Ecology Technician - Resources Manager Manager Mater Resources Manager Dubic Works Special Regulate State States and Acquisitions Manager distates Resources Manager Alter Resources Manager Alter Resources Manager Alter Resources Manager Alter Resources Manager Public Works Special Resource Manager Manager States States and Acquisitions Manager distates Reston Reson Chief Manager Estates States and Acquisitions Manager distates Reston Reson Manager Alter Policy Manag	1 Stone Road W 300 Water Street 1 Dundas Street West 1 Stone Road West 648 Wellington Road 7 777 Bay Street 900 Bay Street 315 De Road West 1550 Endoad West 1550 Endoad Mest 1550 Endoad Mest 1550 Endoad Mest 1550 Endoad Mest 159 Sir Walliam Hourst Ave 160 Bloor Street East 7040 Portage Road 232 Guelph Street 232 Street 232 Street 232 Bay Street 777 Menotial Avenue 700 Portage Street 1500 Encodd Road West 250 Thorold Road West 250 Chronid Road West 250 Chorold Road West 120	Ontario Government Building 2nd Floor 30 Floor 31 Floor	Guelph, ON Peterborouch ON Toronto ON Guelph, ON Elora ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON No. ON St. Catharines ON Toronto ON Nagara Falls ON Georgetown ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON	N1G 4Y2 R9J 3C7 R9J 3C7 R9J 3C7 M5G 2L5 N1G 4Y2 RASG 2L5 NR6 1S0 M5G 2E1 M7A 2E1 M7G 2E4 M7G 2E4 M7A 2E1 M7A 2E1 M7A 2E1 M7A 2E1 M7A 2E1 M7A 2E6 L26 672 L7G 4B1 L7G 4B1 L37 743 L37 743 L37 743 L37 743 L37 773 L37 773 <t< td=""><td>Lashemand Barta acta isonfer Anavad Bortario.ca anthornton @ontario.ca ison.thornton @ontario.ca ison.thornton @ontario.ca ison.thornton @ontario.ca coleen, fitzerand hubble @ontario.ca annelis.eckert@ontario.ca adam.redia.@ontario.ca dawn.redia.@ontario.ca dawn.redia.@ontario.ca ison.thornett@ontario.ca ison.thornett@ontario.ca ison.thornett@ontario.ca ison.thornett@ontario.ca ison.thornett@ontario.ca ison.thornett@ontario.ca ifornation.co iforation.ca ifornation.co myruesso@inagaragarks.com Kim.Peters@ontario.ca Cheryl.Tansony@ontario.ca cheryl.Tansony@ontario.ca itoria. cheryl.Tansony@ontario.ca itoria. ca ison.thornett@ontario.ca itoria. ca cheryl.Tansony@ontario.ca itoria. ca addworth@inpca.ca smillet@npca.ca ison.tani.es</td><td>416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-324-5641 (705)329-6111 905-871-1608</td><td>2 Voted that the NEC is interested in being Involved in the study</td></t<>	Lashemand Barta acta isonfer Anavad Bortario.ca anthornton @ontario.ca ison.thornton @ontario.ca ison.thornton @ontario.ca ison.thornton @ontario.ca coleen, fitzerand hubble @ontario.ca annelis.eckert@ontario.ca adam.redia.@ontario.ca dawn.redia.@ontario.ca dawn.redia.@ontario.ca ison.thornett@ontario.ca ison.thornett@ontario.ca ison.thornett@ontario.ca ison.thornett@ontario.ca ison.thornett@ontario.ca ison.thornett@ontario.ca ifornation.co iforation.ca ifornation.co myruesso@inagaragarks.com Kim.Peters@ontario.ca Cheryl.Tansony@ontario.ca cheryl.Tansony@ontario.ca itoria. cheryl.Tansony@ontario.ca itoria. ca ison.thornett@ontario.ca itoria. ca cheryl.Tansony@ontario.ca itoria. ca addworth@inpca.ca smillet@npca.ca ison.tani.es	416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-324-5641 (705)329-6111 905-871-1608	2 Voted that the NEC is interested in being Involved in the study
Emai Emai Emai Emai Emai Emai Emai Emai	Jennifer Harvard Jenvide Flavard David Gervys Ian Thornion Ian Hagman Susan Cooper Collegen F taggradd-Hubble Armeles Extert Adam Redish Dean Palin Rokosh Adae Earthy Adae Earthy Jennifer Hay Elice Bernett Elice Bernett Elice Bernett Elice Bernett Stray Bernett Armeles Extern Armeles	Ministry of Northern Development. Mines. Natural Resources and Forestry Ministry of Northern Development Mines. Natural Resources and Forestry Ministry of Northern Development. Mines. Natural Resources and Forestry Ministry of Northern Development. Mines. Natural Resources and Forestry Ministry of Northern Development. Mines. Natural Resources and Forestry Ministry of Northern Development. Mines. Natural Resources and Forestry Ministry of Angrice Unre. Food and Rural Affairs Ministry of Angreu Unre. Food and Rural Affairs Ministry of Infrastructure Ministry of Infrasportation Ministry of Transportation Ministry of Angreupment Commission Niagara Eastropment Commission Niagara Eastropment Commission Ontario Provincial Police Ontario Provincial Police	Provincial Utilities Utilities Utilities Utilities Utilities	External Ext	Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Guelph Director, Environmental Management Branch Rug Planner Western Region Assistant Deput Minister Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Component Segment Director Component Manager Regional Advisor St. Catharines Office Area Contraction and Engineering Area Manager Hamilton/Nisgara Senior Toricor Engineering Parking & Transportation Senior Strategic Advisor Planner Senior Strategic Advisor Director Engineering Parking & Transportation Bureau Commander Planner Senior Officer Accommodation Services Section Bureau Commander Provincial Commander Provincial Commander Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Director Environmental Manager Regulations Ecology Technician - Planning & Regulations Manager Gate Estate Sales and Acquisitions Manager All Estate Sales and Acquisitions Manager All Estates Sales and Acquisitions Manager All Estates Sales and Acquisitions Manager Cather Region Commander Provincial Commander Public Works Seecial Remanger Manager Manager Regional Community Malays Manager Manager Cather Region Commander Public Works Seecial Remanger Region Region Commander Public Works Seecial Remanger Manager Manager All Estate Sales and Acquisitions Manager Cather Region Community Relations Eastern Region Community Relations Eastern Region Community Relations Experiment Programs Chief Manager Cather Region Community Relations Eastern Region Community Relations Eastern Region Director Provision Command Programs Chief Manning Chiefer Promonal Programs Chief Manning Chiefer Prominity Relations Commu	1 Stone Road W 300 Water Street 1 Dundas Street West 1 Stone Road West 648 Wellington Road 7 777 Bay Street 900 Bay Street 150 Street West 150 Street West 150 Street Street 150 Street Street 150 Street Street 150 Street East 7400 Portage Road 222 Guelph Street 232 Guelph Street 232 Guelph Street 232 Guelph Street 232 Guelph Street 233 Guelph Street 234 Wann Road Avenue 777 Montrold Avenue 777 Montrold Avenue 777 Montrold Avenue 777 Bay Street 15 Store Raad W 900 Bay Street 250 Thorold Road West 250 Thorold Road West 250 Thorold Road West 250 Thorold Road West 277 Front Street	Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor 21st Floor 2nd Floor, Suite 228 2nd Floor, Suite 228 2nd Floor Building D Sh Floor 4th Floor 2nd Floor 3rd Floor 3rd Floor 3rd Floor 3rd Floor 4th Floor 3rd Floor	Guéph, ON Guéph, ON Peterboroub ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON Toronto ON Toronto ON Concord ON Concord ON Toronto ON Toronto ON Concord ON Toronto ON Toronto ON Toronto ON Toronto ON Concord ON Mississaua ON Miss	N1G 472 N1G 472 MGG 2L5 MIG 472 MGG 2L5 N08 1504 MGG 2E5 L2R 7R4 M3M 087 L2R 7R4 M3M 087 L2R 7R4 M3M 087 L37 784 M3M 087 L37 784 M3M 087 L37 783 L37 773 L37 773 <t< td=""><td>Lashemand Barta act isonfer Anaval Bortario ca isonfer Anaval Bortario ca isontrone®ontario ca isontrone®ontario ca isontrone®ontario ca isontrone®ontario ca annelisi.eckett®ontario ca annelisi.eckett®ontario ca adamr.etsile®ontario ca adamr.etsile®ontario ca davn.retsile®ontario ca davner etsile®ontario ca adamr.etsile®ontario ca isoni per etsile per etsile per etsile isoni per etsile isoni per etsile ca cheryl. Tansony®ontario ca ca cheryl. Tansony®ontario ca cheryl. Tansonyontario ca cheryl. Tansonyontario ca cheryl. Tansontario ca cheryl. Tansontario ca cheryl. Tansontario ca cheryl. Tansontario ca cheryl. Tansontario ca cheryl. Cheryl. Cheryl. Cheryl.</td><td>416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-324-5641 (705)329-6111 905-871-1608</td><td>2 Voted that the NEC is interested in being Involved in the study</td></t<>	Lashemand Barta act isonfer Anaval Bortario ca isonfer Anaval Bortario ca isontrone®ontario ca isontrone®ontario ca isontrone®ontario ca isontrone®ontario ca annelisi.eckett®ontario ca annelisi.eckett®ontario ca adamr.etsile®ontario ca adamr.etsile®ontario ca davn.retsile®ontario ca davner etsile®ontario ca adamr.etsile®ontario ca isoni per etsile per etsile per etsile isoni per etsile isoni per etsile ca cheryl. Tansony®ontario ca ca cheryl. Tansony®ontario ca cheryl. Tansonyontario ca cheryl. Tansonyontario ca cheryl. Tansontario ca cheryl. Tansontario ca cheryl. Tansontario ca cheryl. Tansontario ca cheryl. Tansontario ca cheryl. Cheryl. Cheryl. Cheryl.	416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-324-5641 (705)329-6111 905-871-1608	2 Voted that the NEC is interested in being Involved in the study
Emai	Jennifer Harvard Jenvise Jenvise Jan Hagman Susan Cooper Lisa Majiki Collem F External-Hubble Co	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Actiou tire. Food and Rural Alfairs Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrasportation Ministry of Transportation Niagara Parka Commission Niagara Falls Bridge Commission Niagara Falls Bridge Commission Niagara Falls Bridge Commission Niagara Falls Bridge Commission Ontario Provincial Police Ontario Provincial Police Ontario Provincial Police Ontario Provincial Police <td>Provincial Provincial Provincial</td> <td>External External Ext</td> <td>Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Guelph District Manager, Guelph District Manager, Guelph Natural Heritage and Land Use Planning Advisor Exercise, Enclosed Advisor Advisor Advisor Advisor Regional Advisor Exercise Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Composition Advisor St. Catharines Office Area Contracts Engineering - Central Region Area Contracts Engineering - Central Region Area Contractic Engineering - Central Region Area Contractic Engineering - Central Region Area Contractic Engineering - Central Region Senior Housing Composition Senior Strategic Advisor St. Catharines Office Faraner Senior Strategic Advisor St. Catharines Office Bureau, Commander Frownical Commander Frownical Commander Director Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager Kashcholder Relations Ecology Technician - Planning & Regulations Senior Manager Water Resources Water Coulting Socialist Ecology Technician - Planning & Regulations Senior Manager Water Resources Water Coulting Contention Regional Community Affairs Manager Manager Contention Regional Community Affairs Manager Manager Cel State States and Acquisitions Manager Cel States States Adoptic Provide Contention Director Director Manager Cel States States and Acquisitions Manager Cel States States Adoptic Relations Ecology Technician - Planning & Regulations Senior Manager Cel States States and Acquisitions Manager Cel States States and Acquisitions Manager Cel States States and Acquisitions Manager Cel States States Adoptic Relations Director Content Community Aff</td> <td>Stone Road W Solution Solution</td> <td>Ontario Government Building 2nd Floor 30 Floor 31 Floor</td> <td>Guéph, ON Guéph, ON Peterboroub ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON Toronto ON Toronto ON Concord ON Concord ON Toronto ON Toronto ON Concord ON Toronto ON Toronto ON Toronto ON Toronto ON Concord ON Mississaua ON Miss</td> <td>N1G 472 R9J 3C7 M5G 2L5 M1G 472 R9J 3C7 M5G 2L5 N16 472 N85 150 M5G 2N4 M27 784 M3M 087 L28 778 M3M 087 L27 6481 L76 481 L76 481 L29 773 L39 773 L37 773 L37 773 L30 774 L30 774 L30 774 L30 773 L30 774 L30 382 L45 483 L50 483 L50 483 L50 483 L80 388 L48 188 L80 388 L48 188 <t< td=""><td>La Jammand Brate. a ca isonfer Jamvard Bottario.ca David Denyes@ ontario.ca isa.thornton@ontario.ca Susan.cooper@ ontario.ca Susan.cooper@ ontario.ca coleen.fl.tzareati-bubble@ ontario.ca anneleis.eckert@ ontario.ca adam redsin@ ontario.ca dawn pain.rokosh@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ca ellen.bennett@ontario.ca ca ellen.bennett@ontario.ca ca ca ellen.bennett@ontario.ca ca ellen.bennett@ontario.ca ca ellen.bennett@ontario.ca ca inv weng@ ontario.ca ca davin yeng@ ontario.ca ca mgruosso@ niagaraparks.com Kim.Peters@ontario.ca biseger@ niagarafa labridges.com ca opp.communityrelations@opp.ca rr@ peacebridge.com isonia ellen.ca isonia ellen.ca isonia ellen.ca isonia ellen.ca isonia ellen.ca isonia ellen.ca isonia ellen.ca itse@ caca.ca isonia ellen.ca itse@ caca.ca isonia ellen.ca itse@ caca.ca isonia ellen.ca itsen.ca rode transcanda.com retchen.oordon@transcanada.com ison.com@ cataras.com ison.com@ cataras.com ison.com@ cataras.com ison.com@ cataras.com ison.com@ cataras.com ison.com@ cataras.com ison.com@catara</td><td>416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-324-5641 (705)329-6111 905-871-1608</td><td>2 Voted that the NEC is interested in being Involved in the study</td></t<></td>	Provincial	External Ext	Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Guelph District Manager, Guelph District Manager, Guelph Natural Heritage and Land Use Planning Advisor Exercise, Enclosed Advisor Advisor Advisor Advisor Regional Advisor Exercise Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Composition Advisor St. Catharines Office Area Contracts Engineering - Central Region Area Contracts Engineering - Central Region Area Contractic Engineering - Central Region Area Contractic Engineering - Central Region Area Contractic Engineering - Central Region Senior Housing Composition Senior Strategic Advisor St. Catharines Office Faraner Senior Strategic Advisor St. Catharines Office Bureau, Commander Frownical Commander Frownical Commander Director Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager Kashcholder Relations Ecology Technician - Planning & Regulations Senior Manager Water Resources Water Coulting Socialist Ecology Technician - Planning & Regulations Senior Manager Water Resources Water Coulting Contention Regional Community Affairs Manager Manager Contention Regional Community Affairs Manager Manager Cel State States and Acquisitions Manager Cel States States Adoptic Provide Contention Director Director Manager Cel States States and Acquisitions Manager Cel States States Adoptic Relations Ecology Technician - Planning & Regulations Senior Manager Cel States States and Acquisitions Manager Cel States States and Acquisitions Manager Cel States States and Acquisitions Manager Cel States States Adoptic Relations Director Content Community Aff	Stone Road W Solution Solution	Ontario Government Building 2nd Floor 30 Floor 31 Floor	Guéph, ON Guéph, ON Peterboroub ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON Toronto ON Toronto ON Concord ON Concord ON Toronto ON Toronto ON Concord ON Toronto ON Toronto ON Toronto ON Toronto ON Concord ON Mississaua ON Miss	N1G 472 R9J 3C7 M5G 2L5 M1G 472 R9J 3C7 M5G 2L5 N16 472 N85 150 M5G 2N4 M27 784 M3M 087 L28 778 M3M 087 L27 6481 L76 481 L76 481 L29 773 L39 773 L37 773 L37 773 L30 774 L30 774 L30 774 L30 773 L30 774 L30 382 L45 483 L50 483 L50 483 L50 483 L80 388 L48 188 L80 388 L48 188 <t< td=""><td>La Jammand Brate. a ca isonfer Jamvard Bottario.ca David Denyes@ ontario.ca isa.thornton@ontario.ca Susan.cooper@ ontario.ca Susan.cooper@ ontario.ca coleen.fl.tzareati-bubble@ ontario.ca anneleis.eckert@ ontario.ca adam redsin@ ontario.ca dawn pain.rokosh@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ca ellen.bennett@ontario.ca ca ellen.bennett@ontario.ca ca ca ellen.bennett@ontario.ca ca ellen.bennett@ontario.ca ca ellen.bennett@ontario.ca ca inv weng@ ontario.ca ca davin yeng@ ontario.ca ca mgruosso@ niagaraparks.com Kim.Peters@ontario.ca biseger@ niagarafa labridges.com ca opp.communityrelations@opp.ca rr@ peacebridge.com isonia ellen.ca isonia ellen.ca isonia ellen.ca isonia ellen.ca isonia ellen.ca isonia ellen.ca isonia ellen.ca itse@ caca.ca isonia ellen.ca itse@ caca.ca isonia ellen.ca itse@ caca.ca isonia ellen.ca itsen.ca rode transcanda.com retchen.oordon@transcanada.com ison.com@ cataras.com ison.com@ cataras.com ison.com@ cataras.com ison.com@ cataras.com ison.com@ cataras.com ison.com@ cataras.com ison.com@catara</td><td>416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-324-5641 (705)329-6111 905-871-1608</td><td>2 Voted that the NEC is interested in being Involved in the study</td></t<>	La Jammand Brate. a ca isonfer Jamvard Bottario.ca David Denyes@ ontario.ca isa.thornton@ontario.ca Susan.cooper@ ontario.ca Susan.cooper@ ontario.ca coleen.fl.tzareati-bubble@ ontario.ca anneleis.eckert@ ontario.ca adam redsin@ ontario.ca dawn pain.rokosh@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ca ellen.bennett@ontario.ca ca ellen.bennett@ontario.ca ca ca ellen.bennett@ontario.ca ca ellen.bennett@ontario.ca ca ellen.bennett@ontario.ca ca inv weng@ ontario.ca ca davin yeng@ ontario.ca ca mgruosso@ niagaraparks.com Kim.Peters@ontario.ca biseger@ niagarafa labridges.com ca opp.communityrelations@opp.ca rr@ peacebridge.com isonia ellen.ca isonia ellen.ca isonia ellen.ca isonia ellen.ca isonia ellen.ca isonia ellen.ca isonia ellen.ca itse@ caca.ca isonia ellen.ca itse@ caca.ca isonia ellen.ca itse@ caca.ca isonia ellen.ca itsen.ca rode transcanda.com retchen.oordon@transcanada.com ison.com@ cataras.com ison.com@ cataras.com ison.com@ cataras.com ison.com@ cataras.com ison.com@ cataras.com ison.com@ cataras.com ison.com@catara	416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-324-5641 (705)329-6111 905-871-1608	2 Voted that the NEC is interested in being Involved in the study
Emai Emai Emai Emai Emai Emai Emai Emai	Jennifer Harvard Jenvide Flavard David Gervys Ian Thornion Ian Hagman Susan Cooper Collegen F taggradd-Hubble Armeles Extert Adam Redish Dean Palin Rokosh Adae Earthy Adae Earthy Jennifer Hay Elice Bernett Elice Bernett Elice Bernett Elice Bernett Stray Bernett Armeles Extern Armeles	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Apricu ture. Food and Rural Affairs Ministry of Conomic Development. Employment and Infrastructure Ministry of Transportation Ministry of Inrastructure Ministry of Inrasportation Ministry of Transportation Niagara Escarpment Commission Niagara Escarpment Commission Niagara Falls Bridge Commission Ontatio Provincial Policio Presece Bridge Authority Ministry of Tradigenous Affairs Ministry of Anotorus Policio Ontatio Provincial Policio Presece Bridge Authority Ministry of Anotorus Policio Presece Bridge Authority	Provincial	External Ext	Lands & Water Technical Specialist Fish & Water Technical Specialist District Manager, Gueiph District Manager, Gueiph Satural Heritage and Land Use Planning Advisor Environmental Advisor Director, Environmental Region Assistant Deputy Minister Infrastructure Policy Division Director Infrastructure Policy Division Community Advisor St. Catharines Office Area Contracts Engineering Contral Region Senior Housing Advisor St. Central Region Area Contracts Engineering Contral Region Senior Housing Advisor St. Central Region Area Contracts Engineering Contral Region Senior Stategic Advisor Parmer Senior Director Engineering Parking & Transportation Senior Stategic Advisor Parmer Senior Oriector Engineering Parking & Transportation Bureau Commander Provincial Contrander Bureau Commander Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager V Banino & Regulations Senior Technical - Pelmining & Regulations Senior Technical - Pelmining & Regulations Senior Stategic Advisor Parmer Director Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager V Bankenoter Regioner Ecology Technical - Pelmining & Regulations Senior Manager Part Nagaar Rever Remedial Action Plan Provide Contral Contradies Ecology Technical - Planning A Regulations Senior Chanager Manager Hanitory Alters Manager Manager Proved Manager Proved Manager Senior Planeer Senior Contradies - Planning & Regulations Senior Manager Senior Manager Senior Manager Senior Manager Senior Planeer Senior Adviser Senior Planeer Sen	1 Stone Road W 300 Water Street 1 Stone Road West 1 Stone Road Road To 1 Stone Road Road To 1 Stone Road Road To 1 Stone Road Road Road To 2 Stone Road Road Road Road Road Road Road Road	Ontario Government Building 2nd Floor 30 Floor 31 Floor	Guéph, ON Guéph, ON Feterboroub ON Foronto O	N1G 472 R9J 3C7 MSG 2L5 MSG 2L5 N1G 472 R5G 2A MSG 2L5 MMG 225 MSG 2265 MSG 227 MSG 228 MSG 226 MSG 227 MSG 226 MSG 226 MSG 226 MSG 226 L72 74 L73 481 L76 481 L90 7V3 L30 702 L30 3W2 L30 3W2 L30 3W2 L30 3W2 L30 3W2 L30 3W2 L40 483 L40 189	La Jamand Barta - sci isan Arriva Version Ca David Denyes ® ontario ca an thornton ® ontario ca susan.coper ® ontario ca Susan.coper ® ontario ca ca anneleis eckert ® ontario ca anneleis eckert ® ontario ca anneleis eckert ® ontario ca adamr celia ® ontario ca ellen bennett © ontario ca in veng ® ontario ca Cheyl, 1 ansony ® ontario ca ca marucsso ® niagaraparks.com Kim. Peters ® ontario ca ca cheyl a sci ca opp.communityrelations © opp.ca opp.communityrelations © opp.ca ingenet ® niega ca addworth @ npca.ca ingenet © for.ca michael val ins ® on.ca inchael val ins ® on.ca inchael val ins ® on.ca inchael val ins ® on.ca inchael val ins ® transcanda.com oretchen oordon ® transcanda.com ingeneti @ transcanda.com	416-314-5148 905-704-3951 905-564-5285 905-704-2601 905-877-5191 905-877-5191 905-324-5641 (705)329-6111 905-871-1608	2 Voted that the NEC is interested in being Involved in the study
Emai Emai Emai Emai Emai Emai Emai Emai	Jenniter Harvard Jenvise Jenvise Jan Hagman Susan Cooper Jan Hagman Susan Cooper Jan Hagman Susan Cooper Jan Hagman Susan Cooper Collean F tagerad-Hubble Armeles Extert Adam Redish Dean Pain Rokosh Adae Earthy Jenniter Hay Elion Bernett Elion Bernett Elion Bernett Elion Bernett Susan Boore Xin Vering Marcelo Gruosso Kim Peters Marcelo Gruosso Kim Peters Michael Baran Cheryl Tansony Ken Bieger Sheryl Bernett Genett Michael Baran Cheryl Tansony Ken Bieger Sheryl Bernett Gorge McCaw Karen Mawell Soci Kirkham Conservation Karan Baran Cheryl Aurin George McCaw Karen Mawell Stock Haliman Jashuan Mark Haliman Jashuan Mark Haliman Jashuan Mark Haliman Jashuan Mark Haliman Mark Hal	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Angricu ture. Food and Rural Affairs Ministry of Angricu ture. Food and Rural Affairs Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Transportation Ministry of Transportation Niagara Escarpment Commission Niagara Escarpment Commission Niagara Escarpment Commission Niagara Falls Bridge Commission Ontatio Provincial Police Ontatio Provincial Police Ontatio Provincial Police Ontatio Provincial Police Ministry of Tradigenous Affairs Ministry of Tradigenous Affairs Ministry of Indigenous Affairs Ministry of Antorney General Aboriginal Justice Division Ministry of Antorney General Aboriginal General Ministry of	Provincial Utilities Utilit	External Ext	Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Guelph District Manager, Guelph District Manager, Guelph Director, Environmental Management Branch Rug Planner Western Region Assistant Deputy Minister Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Compound Advisor Regional Manager, Regional Operations - Central Region Area Contracts Engineering - Central Region Regional Manager, Regional Operations - Central West Have Manager Handro Nilagare Senior Director Engineering Parking & Transportation Senior Strategic Advisor Phanner Senior Director Engineering Parking & Transportation Senior Strategic Advisor Provincial Commander Bureau Commander Director Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager Asakaholder Reations Ecology Technicals - Planning & Regulations Sintior Manager Water Resources Water Contract Resound Community Affairs Manager Manager Public Works Sopeial ist Real Estate Sales and Acquisitions Manader d Environmental Programs Manager Asakars Rever Region Community Relations Linearies Manager Hatter Sales and Acquisitions Manader d Environmental Programs Manager Asakars Rever Region Community Relations Manager Manager Asakars Rever Region Community Relations Manager Manager Asakars Rever Region Community Relations Manager Manager Asakars Rever Region Community Relations Linearies Manager Asakars Rever Region Community Relations Linearies Manager Public Works Supervisor Rever Provisioning Project Manager Community Relations Manader d Environmental Programs Manager Asakars Rever Region Community Relations Linearies Community Relations Linearie	1 Stone Road W 1 Stone Road W 300 Water Street 1 Dundas Street West 1 Stone Road West 648. Wellington Road 7 777 Bay. Street 907 Street 907 Street 907 Street 907 Street 910 Street 920 Street 931 St. Paul Street 1550 Enterprise Rof 301 St. Paul Street 1502 Street East 7400 Portage Road 223 Gueph. Street 232 Gueph. Street 232 Gueph. Street 232 Gueph. Street 232 Gueph. Street 2336 Milary Road 777 Memorial Avenue 100 Queen Street 250 Thoroid Road West 250 Thoroid Road West	Ontario Government Building 2nd Floor 30 Floor 31 Floor	Guéph, ON Guéph, ON Forciol ON Fo	N1G 472 R9J 3C7 M5G 2L5 M1G 472 R9J 3C7 M5G 2L5 N16 472 N85 150 M5G 2N4 M27 784 M3M 087 L28 778 M3M 087 L27 6481 L76 481 L76 481 L29 773 L39 773 L37 773 L37 773 L30 774 L30 774 L30 774 L30 773 L30 774 L30 382 L45 483 L50 483 L50 483 L50 483 L80 388 L48 188 L80 388 L48 188 <t< td=""><td>La Jamand Barta - sca ison fer Anavard Bortario ca anthornton @ ontario ca isa. thornton @ infrastructureontario ca coles mitizerario - hubble @ charairo ca anneleis extert@ ontario ca anneleis extert@ ontario ca anneleis extert@ ontario ca anneleis extert@ ontario ca adam redia @ ontario ca isa. mysikk @ ontario ca ellen burnett @ ontario ca ellen burnett @ ontario ca ellen burnett @ ontario ca ellen burnett @ ontario ca myrusses @ niagaraparks.com Krim. Peters @ ontario ca ca chey 1. Tansony@ ontario ca ca chey 1. Tansony@ ontario ca ingree @ niagarafa labridges.com ca chey 1. Tansony@ ontario ca ingree @ niagarafa labridges.com gpp.communityrelations @ opp.ca ppp.communityrelations @ opp.ca ingree @ niagarafa labridges.com intrael@ moca.ca ingree @ niagarafa labridges.com intrael@ moca.ca ingree @ niagarafa labridges.com intrael@ niagarafa labridges.com intrael@ niagarafa labridges.com intrael@ niagarafa labridges.com intrael@ niagarafa labridges.com intrael@ niagarafa.ca ingree @ niagarafa labridges.com intrael@ niagarafa labridges.com</td><td>416-314-5148 905-704-3951 905-704-3951 905-704-2601 905-877-5191 905-877-5191 905-33-554 905-33-554 905-35-641 (705)329-6111 905-871-1608 416-202-5918 416-202-5918</td><td>Noted that the NEC is interested in being involved in the study Requires U.S. Postage with mailout</td></t<>	La Jamand Barta - sca ison fer Anavard Bortario ca anthornton @ ontario ca isa. thornton @ infrastructureontario ca coles mitizerario - hubble @ charairo ca anneleis extert@ ontario ca anneleis extert@ ontario ca anneleis extert@ ontario ca anneleis extert@ ontario ca adam redia @ ontario ca isa. mysikk @ ontario ca ellen burnett @ ontario ca ellen burnett @ ontario ca ellen burnett @ ontario ca ellen burnett @ ontario ca myrusses @ niagaraparks.com Krim. Peters @ ontario ca ca chey 1. Tansony@ ontario ca ca chey 1. Tansony@ ontario ca ingree @ niagarafa labridges.com ca chey 1. Tansony@ ontario ca ingree @ niagarafa labridges.com gpp.communityrelations @ opp.ca ppp.communityrelations @ opp.ca ingree @ niagarafa labridges.com intrael@ moca.ca ingree @ niagarafa labridges.com intrael@ moca.ca ingree @ niagarafa labridges.com intrael@ niagarafa labridges.com intrael@ niagarafa labridges.com intrael@ niagarafa labridges.com intrael@ niagarafa labridges.com intrael@ niagarafa.ca ingree @ niagarafa labridges.com intrael@ niagarafa labridges.com	416-314-5148 905-704-3951 905-704-3951 905-704-2601 905-877-5191 905-877-5191 905-33-554 905-33-554 905-35-641 (705)329-6111 905-871-1608 416-202-5918 416-202-5918	Noted that the NEC is interested in being involved in the study Requires U.S. Postage with mailout
Emai Emai Emai Emai Emai Emai Emai Emai	Jennifer Harvard David Dervys Ian Teornion David Dervys Ian Teornion Susan Cooper Load Marchael Cooper Load Marchael Cooper Coop	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Apricu Jure Food and Rural Affairs Ministry of Controlic Development Employment and Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Transportation Ministry of Transportation Ministry of Transportation Ministry of Transportation Ministry of Transportation Ministry of Transportation Ministry of Transportation Nisagra Escarpment Commission Nisagra Escarpment Commission Nisagra Escarpment Commission Nisagra Falls Ridge Commission Nisagra Falls Ridge Commission Ministry of Transportation Ministry of Transportation Nisagra Escarpment Commission Nisagra Escarpment Commission Nisagra Falls Bridge Commission Nisagra Falls Bridge Commission Ministry of Antony Comeral Aboriginal Justice Division Ministry of Antony Devendent Authority Niagra Peninsula Conservation Authority Niagra Peninsula Conservation Authority Niagra Peninsula Conservation Authority Niagra Peninsula Conservation Authority Niagra	Provincial Distance Dista	External Ext	Lands & Water Technical Specialist Fish & Wild Technical Specialist District Manager, Guelph Director, Environmental Management Branch Rug Planner Western Region Assistant Deputy Minister Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Director Infrastructure Policy Division Component Segment Director Component Stanch Regional Advisor St. Catharines Office Area Contraction and Engineering Area Manager Hamilton Nisgara Senior Toricor Engineering Parking & Transportation Senior Orusior Engineering Parking & Transportation Senior Orusior Engineering Parking & Transportation Senior Strategic Advisor Planner General Manager Familton Accommodation Services Section Bureau, Commander Provincial Commander Beau, Commander Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager Gasheholder Relations Ecology Technician - Planning & Regulations Manager Gaster Region Manager Gaster Region Manager Matter Resources Water Coulty Socialist Protect Manager Regulations Ecology Technician - Planning & Regulations Manager Gaster Region Commander Manager Matter Resources Water Coulty Office Manager Cather Region Commander Regional Community Malars Manager Manager Cather Region Community Relations Eastern Region Community Relations Eastern Region Community Relations Eastern Region Community Relations Eastern Region Director Canoreter Panler Nanager Cather Region Community Relations Eastern Region Community Relations Easte	1 Stone Road W 300 Water Street 1 Dundas Street West 1 Stone Road West 648 Wellington Road 7 777 Bay Street 900 Bay Street 150 Street West 160 Street West 190 Street 190 Street 190 Street Street 190 Street East 7400 Portage Road 222 Guelph Street 232 Guelph Street 233 Caulph Street 234 Guelph Street 235 Guelph Street 232 Guelph Street 233 Guelph Street 234 Guelph Street 235 Guelph Street 235 Guelph Street 236 Guelph Avenue 777 Memorial Avenue 777 Memorial Avenue 777 Memorial Avenue 777 Bay Street 100 Queen Street 250 Thoroid Road West 250 Thoroid Road West 250 Thoroid Road West 250 Thoroid Road West 277 Front Street <	Ontario Government Building 2nd Floor Suite 2000 3rd Floor S 21st Floor Bith Floor 17th Floor 9th Floor 2nd Floor 2nd Floor 2nd Floor Building D Sth Floor 4th Floor 3rd Floor<	Guelph, ON Guelph, ON Peterborouch ON Toronto ON Gueloh, ON Elora ON Toronto ON Toronto ON Stroth, ON Mississauga, ON St. Catharines ON Toronto, ON Toronto, ON Georgetown ON Gradia ON Orlia ON Toronto ON Toronto ON Toronto ON Toronto ON	NIG 472 K9J 3C7 MSG 2L5 MSG 2L5 MSG 2L5 MSG 2C15 MSG 2C15 MSG 7R4 M3M 087 L2W 4PA L2W 4PA L2W 743 L2W 743 L3V 743 L3C 3W2 L3C 3W2 L3C 3W2 L3C 3W2 L3C 3W2 L3C 3W2 <	Isabmend Brate asa isonfer haved Botato ca David Denyes® Ontario ca al. thornton @ ontario ca Usan.coper @ ontario ca ca susan.coper @ ontario ca aneles eckert@ ontario ca aneles eckert@ ontario ca alatim rebia fortario ca adam rebia fortario ca adam rebia fortario ca adam rebia fortario ca alen.bennett@ ontario ca ellen.bennett@ ontario ca ellen.bennett@ ontario ca alen.bennett@ ontario ca ellen.bennett@ ontario ca ca ellen.bennet@ ontario ca fortaria.bone@ ontario ca ca mgruosso@ niagaraparks.com Kim. Peters @ ontario ca ca david enter ca mgruosso@ niagaraparks.com Kim.Peters @ ontario ca ca david enter ca mgruosso@ niagaraparks.com kibieger@ niagarafa labridges.com ca epo.communityrelations @ opp.ca rr@ peacebridge.com enter ca aldworth @ npca.ca millet@ npca.ca daniet salvatore @ cn ca millet@ npca.ca isoni.ram @ otranat com lason.rum @ otranat com lason.rum @ otranato.ca isoni.ram @ otranato.com isoni.ram @ otranato.c	416-314-5148 905-704-3951 905-704-3951 905-704-2601 905-877-5191 905-877-5191 905-33-554 905-33-554 905-35-641 (705)329-6111 905-871-1608 416-202-5918 416-202-5918	2
Emai Mai Emai Mai Emai Emai </td <td>Jennifer Harvard Jenvise Jenvise Jan Hagman Jan Hagman</td> <td>Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Action Live. Food and Rural Aflairs Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Transportation Ministry of Transportation Niagara Escorpment Commission Niagara Falls Bridge Commission Niagara Falls Bridge Commission Ontario Provincial Police Ontario Provincial Police Ontario Provincial Police Ontario Provincial Police Ontario Provincial Police Ministry of the Atomey General Aboriginal Justice Division Ministry of Atome Second Development Employment and Infrastructure Ministry of Barlos Libro Food and Rural Atlaits Ministry of Economic Development Employment and Infrastructure Ministry of Barlos Librosovita Atlaits Ministry of Barlos Conservation Authority Niagara Peninsula Conservation Authority Con Rai Con Rai Canadan Niagara Penyer Inc. Endide Gas Inc.</td> <td>Provincial Provincial Provincial</td> <td>External External Ext</td> <td>Lands & Water Technical Specialist Fish & With Technical Specialist District Manager, Gueiph Natural Heritage and Land Use Planning Advisor Environmental Advisor Environmental Advisor Environmental Advisor Data Planner Viewinn Region Assistant Deputy Minister Infrastructure Policy Division Director Infrastructure Policy Division Composition Advisor Regional Advisor S, Catharines Office Area Contracts Engineering Contral Region Area Contracts Engineering Contral Region Area Contracts Engineering Contral Region Senior House Engineering Parking & Transportation Senior Director Commander General Manager Provincial Commander Bureau Commander Bureau Commander Director Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager of Stakeholder Relations Senior Manager Valler Resources Water Coult Special Project Manager Mangar River Remedial Action Plan Resonal Commander Bureau Commander Director Director Director Environmental Manager Manager Director Director Director Environmental Manager Manager Ostakeholder Relations Senior Manager Valler Resources Water Coult Manager Relations Senior Manager Valler Resources Water Coult Manager Mangar Public Works Charleman Estern Resources Charle Manager Estern Reson Manager Action Reson Community Relations Lissen Eastern Reson Community Relations Lissen Eastern Reson Manager Public Works Seccial Strate Esters Reson Community Relations Lissen Eastern Reson Sector Government and Community Relations Charle Manager Estern Reson Community Relations Lissen Eastern Reson Community Relations Lissen Eastern Reson Community Relations Lissen Eastern Reson System Provisor Romer Reson Reson Community Relations Lissen Eastern Reson Sector Government and Community Relations Sector Government and Community Relations Sector Government and Community Relations Director Commoner Lissen Provisor Lissen Pro</td> <td>1 Stone Road W 300 Water Street 1 Dundas Street West 1 Stone Road West 648 West 700 Bar. Street 71 Memorial Avenue 777 Bar. Street 778 Bar. Street</td> <td>Ontario Government Building 2nd Floor 2nd Floor 3rd Floor S 21st Floor 21st Floor 2nd Floor 3rd Floor 2nd Floor 3rd Floor <td>Guéph, ON Guéph, ON Peterboroub ON Toronto ON Guébh, ON Elora ON Toronto ON Toronto ON St. Catharines ON Toronto ON Mississauga, ON St. Catharines ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON Georgetown ON Gradia ON Orlia ON Orlia ON Orla CON Toronto ON Toronto ON</td><td>N1G 472 K9J 3C7 MGG 2L5 MIG 472 K9J 3C7 MGG 2L5 MIG 472 K9J 3C7 MG 2L5 MMA 2E1 L2R 7R4 M3M 087 L2R 7R4 M3M 087 L2R 7R4 M3M 087 L37 784 M3M 087 L37 773 L33 3W2 L33 3W2 L343 3W2 L44 189</td><td>La Jamanud Brata, acta isonfer Jamavel Gostario ca David Daryes@ ontario ca an.thornton@ontario.ca Susan.cooper@ ontario.ca Susan.cooper@ ontario.ca anneles eckert@ ontario.ca anneles eckert@ ontario.ca adamr.celai.footario.ca dens.pain.rokosh@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ontario.ca ellen.cupty@ ontario.ca ca mgruosso@ niagaraparks.com Kim.Peters@ontario.ca ca cheyl.Tansony@ ontario.ca ca cheyl.Tansony@ ontario.ca ca cheyl.Tansony@ ontario.ca cheyl.Tansony@ ontario.ca ca cheyl.Tansony@ ontario.ca ca cheyl.Tansony@ ontario.ca ca cheyl.Casse.ca danie salvatore@cn.ca ca isonifer_benetict@cor.ca ison</td><td>416-314-5148 905-704-3951 905-704-3951 905-704-2601 905-877-5191 905-877-5191 905-33-554 905-33-554 905-35-641 (705)329-6111 905-871-1608 416-202-5918 416-202-5918</td><td>2 </td></td>	Jennifer Harvard Jenvise Jenvise Jan Hagman	Ministry of Northern Development. Mines, Natural Resources and Forestry Ministry of Northern Development. Mines Natural Resources and Forestry Ministry of Northern Development Mines Natural Resources and Forestry Ministry of Action Live. Food and Rural Aflairs Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Infrastructure Ministry of Transportation Ministry of Transportation Niagara Escorpment Commission Niagara Falls Bridge Commission Niagara Falls Bridge Commission Ontario Provincial Police Ontario Provincial Police Ontario Provincial Police Ontario Provincial Police Ontario Provincial Police Ministry of the Atomey General Aboriginal Justice Division Ministry of Atome Second Development Employment and Infrastructure Ministry of Barlos Libro Food and Rural Atlaits Ministry of Economic Development Employment and Infrastructure Ministry of Barlos Librosovita Atlaits Ministry of Barlos Conservation Authority Niagara Peninsula Conservation Authority Con Rai Con Rai Canadan Niagara Penyer Inc. Endide Gas Inc.	Provincial	External Ext	Lands & Water Technical Specialist Fish & With Technical Specialist District Manager, Gueiph Natural Heritage and Land Use Planning Advisor Environmental Advisor Environmental Advisor Environmental Advisor Data Planner Viewinn Region Assistant Deputy Minister Infrastructure Policy Division Director Infrastructure Policy Division Composition Advisor Regional Advisor S, Catharines Office Area Contracts Engineering Contral Region Area Contracts Engineering Contral Region Area Contracts Engineering Contral Region Senior House Engineering Parking & Transportation Senior Director Commander General Manager Provincial Commander Bureau Commander Bureau Commander Director Director Environmental Management Branch Assistant Deputy Minister Infrastructure Policy Manager of Stakeholder Relations Senior Manager Valler Resources Water Coult Special Project Manager Mangar River Remedial Action Plan Resonal Commander Bureau Commander Director Director Director Environmental Manager Manager Director Director Director Environmental Manager Manager Ostakeholder Relations Senior Manager Valler Resources Water Coult Manager Relations Senior Manager Valler Resources Water Coult Manager Mangar Public Works Charleman Estern Resources Charle Manager Estern Reson Manager Action Reson Community Relations Lissen Eastern Reson Community Relations Lissen Eastern Reson Manager Public Works Seccial Strate Esters Reson Community Relations Lissen Eastern Reson Sector Government and Community Relations Charle Manager Estern Reson Community Relations Lissen Eastern Reson Community Relations Lissen Eastern Reson Community Relations Lissen Eastern Reson System Provisor Romer Reson Reson Community Relations Lissen Eastern Reson Sector Government and Community Relations Sector Government and Community Relations Sector Government and Community Relations Director Commoner Lissen Provisor Lissen Pro	1 Stone Road W 300 Water Street 1 Dundas Street West 1 Stone Road West 648 West 700 Bar. Street 71 Memorial Avenue 777 Bar. Street 778 Bar. Street	Ontario Government Building 2nd Floor 2nd Floor 3rd Floor S 21st Floor 21st Floor 2nd Floor 3rd Floor 2nd Floor 3rd Floor <td>Guéph, ON Guéph, ON Peterboroub ON Toronto ON Guébh, ON Elora ON Toronto ON Toronto ON St. Catharines ON Toronto ON Mississauga, ON St. Catharines ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON Georgetown ON Gradia ON Orlia ON Orlia ON Orla CON Toronto ON Toronto ON</td> <td>N1G 472 K9J 3C7 MGG 2L5 MIG 472 K9J 3C7 MGG 2L5 MIG 472 K9J 3C7 MG 2L5 MMA 2E1 L2R 7R4 M3M 087 L2R 7R4 M3M 087 L2R 7R4 M3M 087 L37 784 M3M 087 L37 773 L33 3W2 L33 3W2 L343 3W2 L44 189</td> <td>La Jamanud Brata, acta isonfer Jamavel Gostario ca David Daryes@ ontario ca an.thornton@ontario.ca Susan.cooper@ ontario.ca Susan.cooper@ ontario.ca anneles eckert@ ontario.ca anneles eckert@ ontario.ca adamr.celai.footario.ca dens.pain.rokosh@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ontario.ca ellen.cupty@ ontario.ca ca mgruosso@ niagaraparks.com Kim.Peters@ontario.ca ca cheyl.Tansony@ ontario.ca ca cheyl.Tansony@ ontario.ca ca cheyl.Tansony@ ontario.ca cheyl.Tansony@ ontario.ca ca cheyl.Tansony@ ontario.ca ca cheyl.Tansony@ ontario.ca ca cheyl.Casse.ca danie salvatore@cn.ca ca isonifer_benetict@cor.ca ison</td> <td>416-314-5148 905-704-3951 905-704-3951 905-704-2601 905-877-5191 905-877-5191 905-33-554 905-33-554 905-35-641 (705)329-6111 905-871-1608 416-202-5918 416-202-5918</td> <td>2 </td>	Guéph, ON Guéph, ON Peterboroub ON Toronto ON Guébh, ON Elora ON Toronto ON Toronto ON St. Catharines ON Toronto ON Mississauga, ON St. Catharines ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON Toronto ON St. Catharines ON Toronto ON Georgetown ON Gradia ON Orlia ON Orlia ON Orla CON Toronto ON	N1G 472 K9J 3C7 MGG 2L5 MIG 472 K9J 3C7 MGG 2L5 MIG 472 K9J 3C7 MG 2L5 MMA 2E1 L2R 7R4 M3M 087 L2R 7R4 M3M 087 L2R 7R4 M3M 087 L37 784 M3M 087 L37 773 L33 3W2 L33 3W2 L343 3W2 L44 189	La Jamanud Brata, acta isonfer Jamavel Gostario ca David Daryes@ ontario ca an.thornton@ontario.ca Susan.cooper@ ontario.ca Susan.cooper@ ontario.ca anneles eckert@ ontario.ca anneles eckert@ ontario.ca adamr.celai.footario.ca dens.pain.rokosh@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ellen.bennett@ontario.ca ontario.ca ellen.cupty@ ontario.ca ca mgruosso@ niagaraparks.com Kim.Peters@ontario.ca ca cheyl.Tansony@ ontario.ca ca cheyl.Tansony@ ontario.ca ca cheyl.Tansony@ ontario.ca cheyl.Tansony@ ontario.ca ca cheyl.Tansony@ ontario.ca ca cheyl.Tansony@ ontario.ca ca cheyl.Casse.ca danie salvatore@cn.ca ca isonifer_benetict@cor.ca ison	416-314-5148 905-704-3951 905-704-3951 905-704-2601 905-877-5191 905-877-5191 905-33-554 905-33-554 905-35-641 (705)329-6111 905-871-1608 416-202-5918 416-202-5918	2

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	
Emal	Nadine Gill-Aarts Area Municipalities	Ontario Federation of Agriculture			Zone 5 (Halton, Harn Iton, Niagara) Representative	200 Hanlon Creek Boulevard,		Guelph, ON	N1C 0A1	greg.marotta@thomasnutrientsolutions.com nadine.gill@ofa.on.ca	289-687-7477	
Emal	THOROLD	City of Thorold	Municipal Clerk	Internal (Local Municipalities)	Clerk City of Thorold					clerk@thorold.com		
Emal	Geoff Holman GRIMSBY	City of Thorold	PW Director	Internal (Local Municipalities)	Director of Public Works					geoff.holman@thorold.com		
Ema I Ema I	Clerk Sarah Kim Brandon Wartman	Town of Grimsby Town of Grimsby	Municipal Clerk PW Director	Internal (Local Municipalities) Internal (Local Municipalities)	Clerk, Grimsby Director of Public Works					skim@grimsby.ca bwartman@grimsby.ca		
Ema I Ema I	Marvin Ingebrigtsen Walter Basic	Town of Grimsby Town of Grimsby	Public Works/Engineering Planning & Development	Internal (Local Municipalities) Internal (Local Municipalities)	Manager of Engineering Director of Planning Bulding & Bylaw					mingebrigtsen@grimsby.ca wbasic@grimsby.ca		
Emal	NIAGARA FALLS Clerk Bill Matson	City of Niagara Falls	Municipal Clerk	Internal (Local Municipalities)	Clerk Niagara Falls					bmatson@niagarafalls.ca		
Ema I Ema I	Eric Nickel Selene Tudini	City of Niagara Falls City of Niagara Falls	PW Director Planning & Development	Internal (Local Municipalities) Internal (Local Municipalities)	Director of Municipal Works Executive Coordinator					enickel@niagarafalls.ca studini@niagarafalls.ca		
Emal	Alex Herlovitch	City of Niagara Falls City of Niagara Falls		Internal (Local Municipalities) Internal (Local Municipalities)	Infrastructure and Asset Manager Director of Planning, Development & Building Services					kschachowsko @niagarafalls.ca aherlovitch@niagarafals.ca		
Emal Emal	Karl Dren	City of Niagara Falls City of Niagara Falls	Planning & Development Planning & Development Planning & Development	Internal (Local Municipalities) Internal (Local Municipalities) Internal (Local Municipalities)	Manager of Transit Operations Director-Transportation Services Service Banager					bchambers@niagarafalls.ca kdren@niagarafalls.ca bdick@niagarafalls.ca		
Ema I Ema I Ema I	Serge Felicetti	City of Niagara Falls City of Niagara Falls City of Niagara Falls	Planning & Development Planning & Development Planning & Development	Internal (Local Municipalities) Internal (Local Municipalities) Internal (Local Municipalities)	Senior Planner Director Business Development Parks in the City Committee Recreation & Culture					bdick@niagarafalls.ca sfelicetti@niagarafalls.ca jguarasci@niagarafalls.ca		
Emal	Adam Allcock PELHAM	City of Niagara Falls								aallcock@niagarafalls.ca		
Ema l Ema l	Clerk Nancy Bozzato	Town of Pelham Town of Pelham	Municipal Clerk PW Director	Internal (Local Municipalities) Internal (Local Municipalities)	Clerk Pelham Director of Public Works					nbozzato@pelham.ca jmarr@pelham.ca		
Emal Emal	Barb Wiens Grant Munday	Town of Pelham Town of Pelham	Planning & Development	Internal (Local Municipalities)	Director of Planning & Development					bwiens@pelham.ca grant.munday@we land.ca		
Emal	PORT COLBORNE Clerk Amber LaPointe	City of Port Colborne	Municipal Clerk	Internal (Local Municipalities)	Clerk, Port Colborne					cityclerk@portcolborne.ca		
Emal Emal	Steve Shypowskyj Dan Aquilina	City of Port Colborne City of Port Colborne	W&WW Planning & Development	Internal (Local Municipalities) Internal (Local Municipalities)	Manager Engineering Director / C ty Planner					Steve.Shypowskyj@portcolborne.ca dan.aquilina@portcolborne.ca		
Emal	David Schulz ST CATHARINES	City of Port Colborne	Planning & Development	Internal (Local Municipalities)	Planner					david.schulz@portcolborne.ca		
Ema I Ema I	Clerk Bonnie Nistico-Dunk Anthony Martuccio	City of St. Catharines City of St. Catharines	Municipal Clerk PW Director	Internal (Local Municipalities) Internal (Local Municipalities)	Clerk St. Catharines Director of Engineering Fac lities and Environmental Services					bdunk@stcatharines.ca amartuccio@stcatharines.ca		
Emal	Tami Kitay WAINFLEET	City of St. Catharines	Planning & Development	Internal (Local Municipalities)	Director of Planning and Building Services					tkitay@stcatharines.ca		
Ema I Ema I Ema I	Clerk William J. Kolasa Richard Nan Richard Nan	Township of Wainfleet Township of Wainfleet Township of Wainfleet	Municipal Clerk PW Director Planning & Development	Internal (Local Municipalities) Internal (Local Municipalities)	Clerk Wainfleet Manager of Operations Director of Operations (Manager of Operations)					wkolasa@wainfleet.ca rnan@wainfleet.ca rnan@wainfleet.ca		
Emal	Richard Nan Sarah Smith / Ivins WELLAND	Township of Wainfleet Township of Wainfleet	Planning & Development Planning & Development	Internal (Local Municipalities) Internal (Local Municipalities)	Director of Operations (Manager of Operations) Planner					rnan@wainfleet.ca ssmith@wainfleet.ca		
Ema I Ema I	Clerk Tara Stephens	City of Welland City of Welland	Municipal Clerk PW Director	Internal (Local Municipalities) Internal (Local Municipalities)	Clerk Welland Director of Engineering and Public Works					clerk@welland.ca sherri-marie.m llar@welland.ca		
Emal	Grant Munday LINCOLN									grant.munday@weland.ca		
Ema I Ema I	Julie Kirkelos Clerk Joanne Scime	Town of Lincoln West Lincoln	Municipal Clerk Municipal Clerk	Internal (Local Municipalities) Internal (Local Municipalities)	Clerk, Lincoln Clerk, West Lincoln					jkirkelos@lincoln.ca jscime@westlincoln.ca		
Ema I Ema I	Dave Graham Kathleen Dale	Town of Lincoln Town of Lincoln	PW Director Planning & Development	Internal (Local Municipalities) Internal (Local Municipalities)	Director of Public Works Director of Planning and Development					dgraham@incoln.ca kdale@incoln.ca		
Emal	FORT ERIE Kelly Walsh	Town of Fort Erie	PW Director	Internal (Local Municipalities)	Director of Infrastructure Services/Public Works					kwalsh@forterie.ca		
Ema I Ema I	George Stojanovic Chris Pisaric									GStojanovic@forterie.ca CPisaric@forterie.ca		
Emal	WEST LINCOLN Steve McGean	Township of West Lincoln	Operations	Internal (Local Municipalities)	Manager of Operations					smcgean@westl ncoln.ca		
Ema I Ema I	Jennifer Bernard Ray Vachon	Township of West Lincoln Township of West Lincoln	Engineering Engineering	Internal (Local Municipalities) Internal (Local Municipalities) Internal (Local Municipalities)	Coordinator of Engineering Services Project Manager					jbe na d@westl ncoln.ca vachon@westl ncoln.ca		
Ema I Ema I	Gerrit Boerema Tray Benish NIAGARA ON THE LAKE	Township of West Lincoln Township of West Lincoln	Planning & Development	Internal (Local Municipalities)	Planner					gboe ema@westl ncoln.ca tben sh@westl ncoln.ca		
Emai	Kirsten McCauley	Town of Niagara-on-the-Lake	Planning & Development	Internal (Local Municipalities)	Director of Community & Development Services					kmccauley@notl.org		
Ema I Ema I Ema I	M ke Komlijenovic Brett Ruck Darren MacKenzie	Town of Niagara-on-the-Lake Town of Niagara-on-the-Lake Town of Niagara-on-the-Lake		Internal (Local Municipalities) Internal (Local Municipalities)	Engineering Supervisor Environmental Services Supervisor					M ke.Komljenov c@notl.com B ett.Ruck@notl.com da en.mackenz e@notl.com		
Emai	Rome D'Angelo Provincial Agencies	Town of Niagara-on-the-Lake								ome.dangelo@noti.com		
Ema I Ema I	Joan Del Villar	Ministry of the Environment Conservation and Parks Ministry of the Environment Conservation and Parks	Provincial Provincial	External External	EA & Planning Coordinator West Central Region Niagara District Manager	119 King St. W	12th Floor	Ham Iton ON	L8P 4Y7	Joan.DelVillarCuicas@ontario.ca		
Ema l Ema l	Lyndsay Dunville Taylor Buck	Ministry of the Environment Conservation and Parks Ministry of the Environment Conservation and Parks								Lyndsay.Dunv lle@onta_o.ca Taylo_Buck@onta_o.ca		
Emal Emal	Cale Selby Lisa Myslicki	OMAFRA Infrastructure Ontario Ministry of Agricu ture Food and Rural Affairs	Provincial	External	Environmental Advisor Director Environmental Management Branch	1 Dundas Street West 1 Stone Road West	Suite 2000 3rd Floor S	Toronto, ON Guelph ON	M5G 2L5	<u>Cale Selby@onta_o.ca</u> lisa.myslicki@infrastructureontario.ca colleen.fitzgerald-hubble@ontario.ca		
Emal Emal Emal	Colleen F tzgerald-Hubble Marcelo Gruosso Cheryl Tansony	Ministry of Agricu ture Food and Rural Affairs Niagara Parks Commission Niagara Escarpment Commission	Provincial Provincial Provincial	External External External	Director Environmental Management Branch Senior Director Engineering Parking & Transportation Senior Planner	1 Stone Road West 7400 Portage Road 232 Guelph Street	3rd Floor S P.O. Box 150	Guelph ON Niagara Falls ON Georgetown, ON	N1G 4Y2 L2E 6T2 L7G 4B1	colleen.fitzgerald-hubble@ontario.ca mgruosso@niagaraparks.com Cheryl.Tansony@ontario.ca>		
Ema I Ema I	Amaraine Laven Conservation Authorities									Amaraine.Laven@ontario.ca		
	Adam Aldworth Steve Miller	Niagara Peninsula Conservation Authority Niagara Peninsula Conservation Authority	Conservation Authority	External	Ecology Technician - Planning & Regulations Senior Manager Water Resources	250 Thorold Road West	3rd Floor 3rd Floor	Welland, ON Welland ON	L3C 3W2 L3C 3W2	aaldworth@npca.ca smiller@npca.ca		
Ema I Ema I	Natalie Green	Niagara Peninsula Conservation Authority Niagara Peninsula Conservation Authority	Conservation Authority Conservation Authority	External	Water Quality Specialist Project Manager, Niagara River Remedial Action Plan	250 Thorold Road West 250 Thorold Road West	3rd Floor 3rd Floor	Welland ON Welland, ON	L3C 3W2 L3C 3W2	jdiamond@npca.ca ngreen@npca.ca		
	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
Emal	Laura Verhaeghe	GM BluePlan	Project Management and Advisory Team	Internal	Project Coordinator					laura.verhaeghe@gmblueplan.ca		
Emal	Jim Harnum	GM BluePlan	Project Management and Advisory Team	Internal Internal Internal	Communications					jim.harnum@municipalvu.ca jason.oatley@niagararegion.ca robert.daw@niagararegion.ca		
Emal	Jason Oatley	Niagara Region	Water & Wastewater Services	Internal	Manager WW Quality & Compliance					jason.oatley@niagararegion.ca		
Emal	Robert Daw	Niagara Region	Water & Wastewater Services	Internal	Director WW Operation Maintenance Lab Services					robert.daw@niagararegion.ca		
Emal	Brad Stewart	Niagara Region	Water & Wastewater Services	Internal	Bioso ids Program Manager - Wastewater Qual ty a	Compliance				brad.stewart@niagararegion.ca		
Emal	Josh MacArthur	Niagara Region	Water & Wastewater Services	Internal						josh.maca thu @n aga a eg on.ca		
	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.



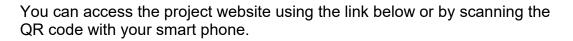


Get Involved

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



Table of Contents

1.0	S	tudy Introduction	4
I	.1	Background and Purpose	4
	.2	Class EA Content	
2.0	Ρ	roject Initiation	B
2	2.1	Public Consultation and Stakeholder Engagement Plan	8
2	2.2	Mailing List	8
2	2.3	Project Website	8
3.0	Ρ	ublic Information Centre No. I	9
3	3. I	Purpose	9
З	3.2	Notice of Study Commencement and PIC No. I	
		3.2.1 Newspaper Advertisements	
		3.2.2 Online Advertisements	9
		3.2.3 Contact List Mailout	
3	3.3	PIC No. I Meeting DetailsI	I
3	3.4	PIC No. I Display Material	2
3	8.5	Online Survey	2
3	8.6	PIC No. I Attendance	2
3	8.7	PIC No. I Comments Received and Region's Responses	3
4.0	Ν	lext Steps	4

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

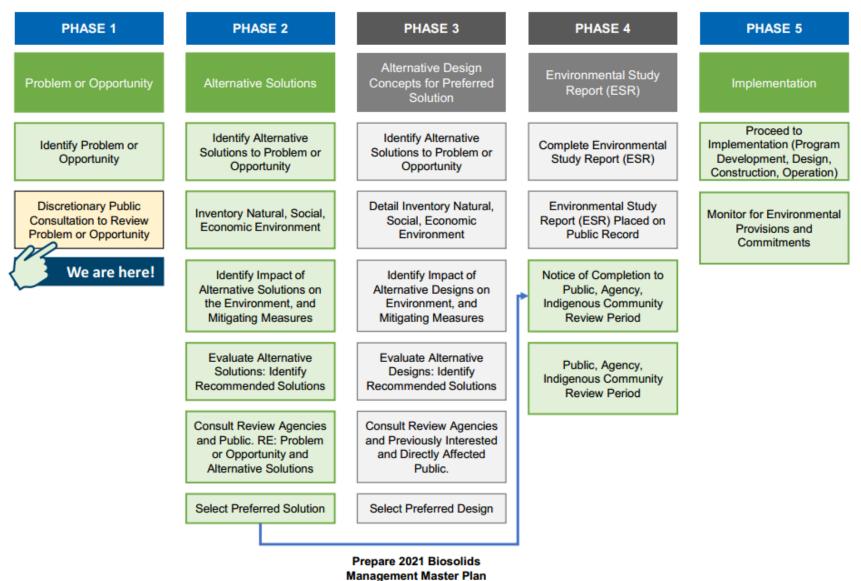


Figure 2: Municipal Class EA Planning and Design Process



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.



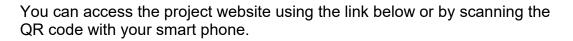


Get Involved

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

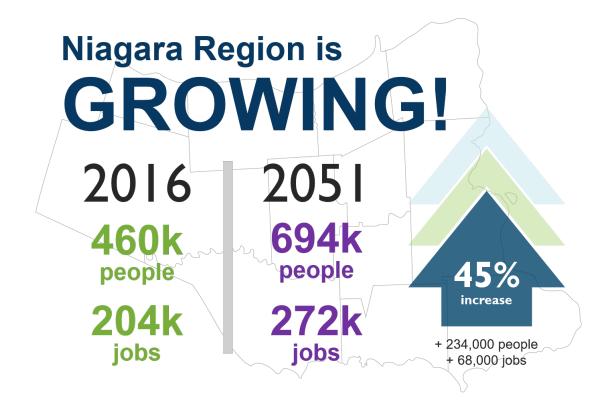
This document is provided as an alternative format that is originally hosted using ESRI StoryMaps. It is provided for those who may not have the compatible browser to view the original virtual public information materials online.

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.

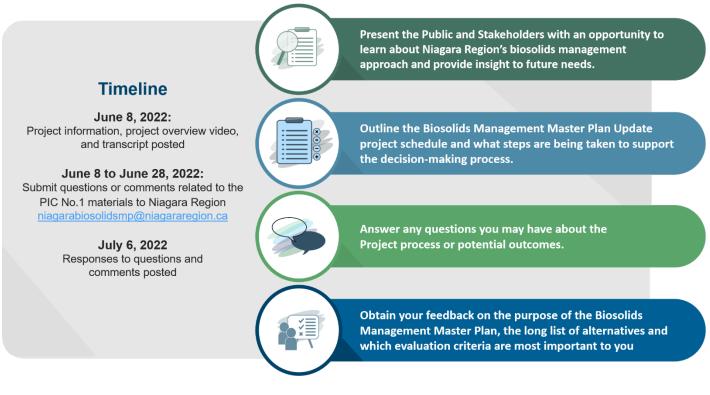
The purpose of the Biosolids Management Master Plan Update is to develop a holistic, long-term strategy for biosolids management in Niagara in a manner that is transparent, sustainable, reliable, environmentally friendly, cost-effective and flexible.

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.

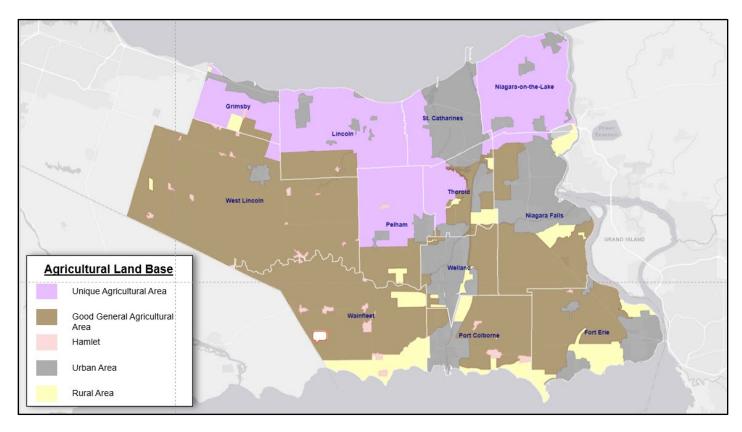


Niagara Region Official Plan Agricultural Land Base

The Region consists of roughly 74% agricultural land use.

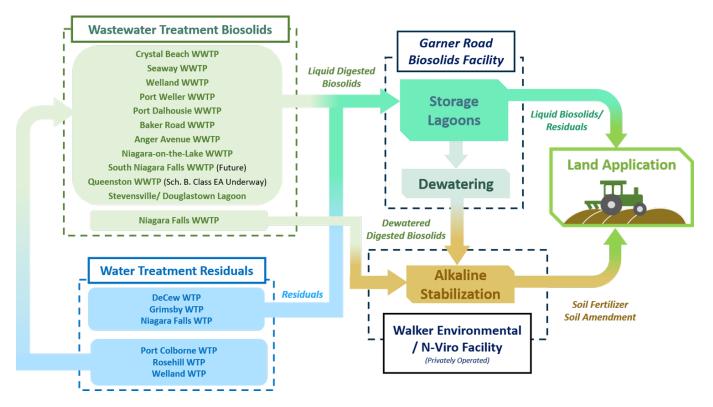
- ~51% or 96,452 hectares is categorized as Good General Agricultural Area
- ~23% or 43,542 hectares falls under Unique Agricultural Area

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

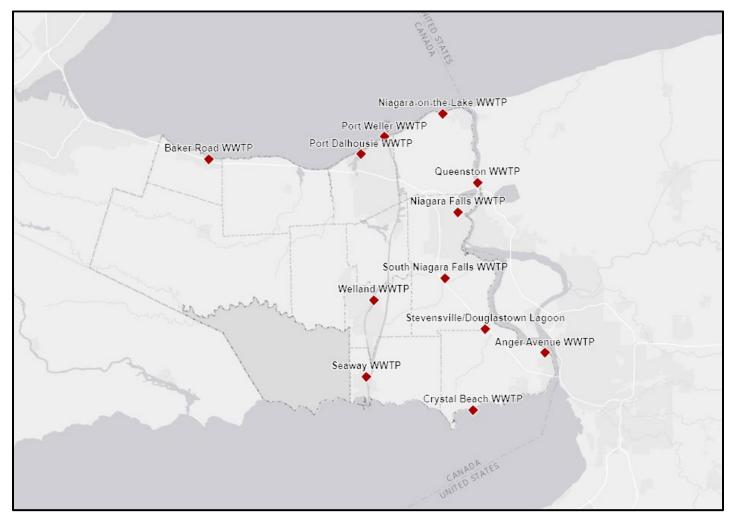


Dewatered biosolids from the Garner Road Biosolids Facility and Niagara Falls WWTP (~50% of biosolids produced in Niagara Region) are:

- 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.

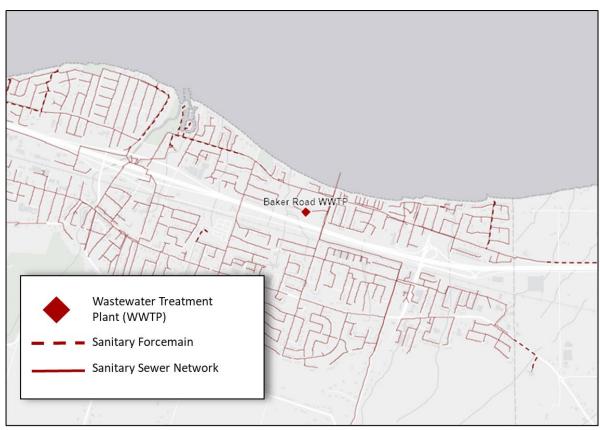
Wastewater System Existing Conditions and Future Needs

Region Wide



Grimsby



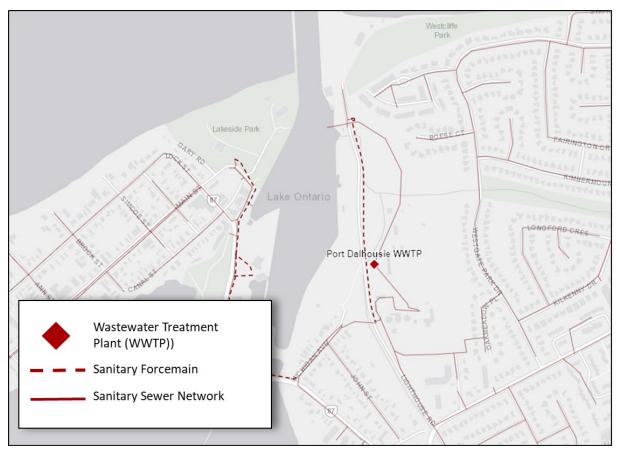


- Address: 160 Lake St, Grimsby, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 19.4
- Current Facility Capacity (MLD): 31.3
- Estimated Future Flow to 2051 (MLD): 35.82
- Existing Solids Management Process: Anaerobic digestion and storage
- Planned and Required Biosolids Upgrades by 2051: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

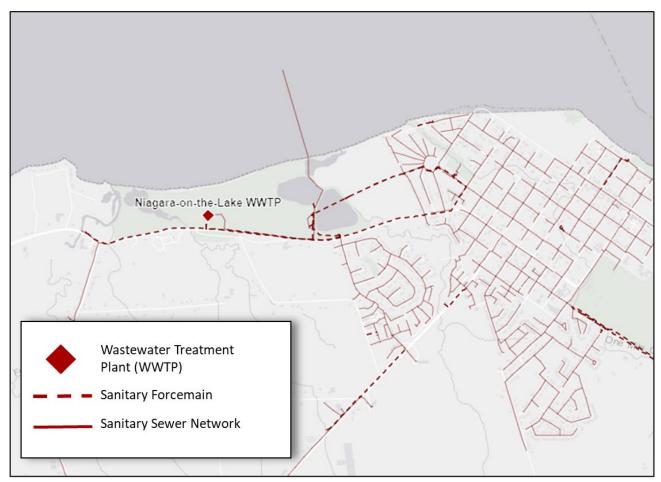
		Port Weller East Park
BE CONTRACTOR	Port Weller WWTP	RUNCORN
Wastewater Treatment Plant (WWTP)	ENAVE	WELLAN
🗕 🗕 🗕 Sanitary Forcemain	DURHAM DR	DCAN
Sanitary Sewer Network	Y TRL	WELLAND CANNES PROM

- 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

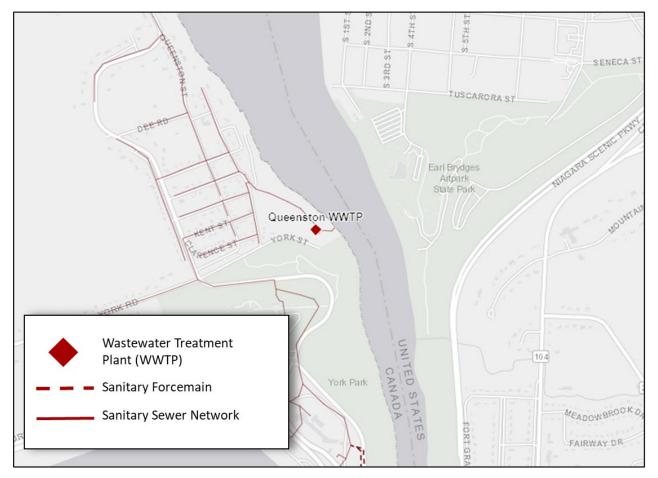




- Address: 1550 Lakeshore Road, Niagara on-the-Lake, Ontario
- Historical Flow, 2017-2021 (megalitres per day, MLD): 4.6
- Current Facility Capacity (MLD): 8.0
- Estimated Future Flow to 2051 (MLD): 5.37
- Existing Solids Management Process: Thickening and Anaerobic Digestion
- Planned and Required Biosolids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

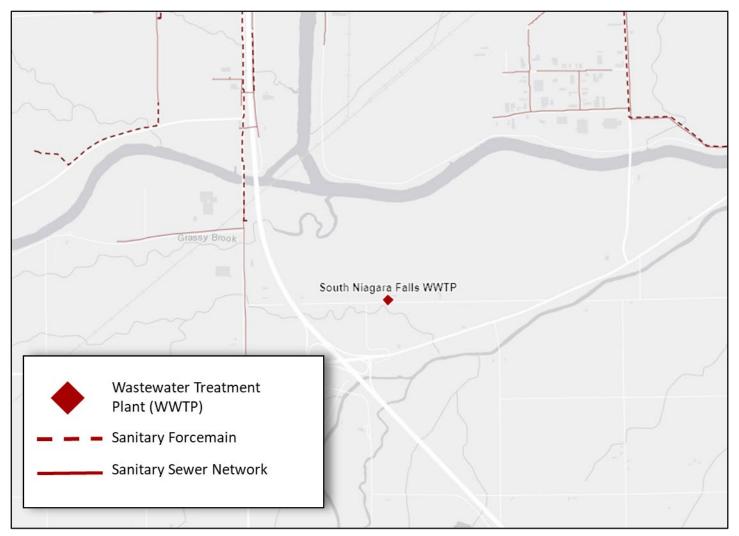
Niagara Falls Wastewater Treatment Plant



- 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:



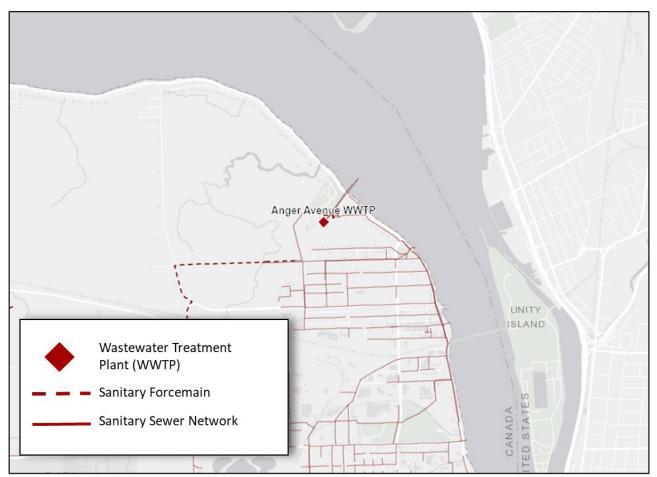
South Niagara Falls Wastewater Treatment Plant



- 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.



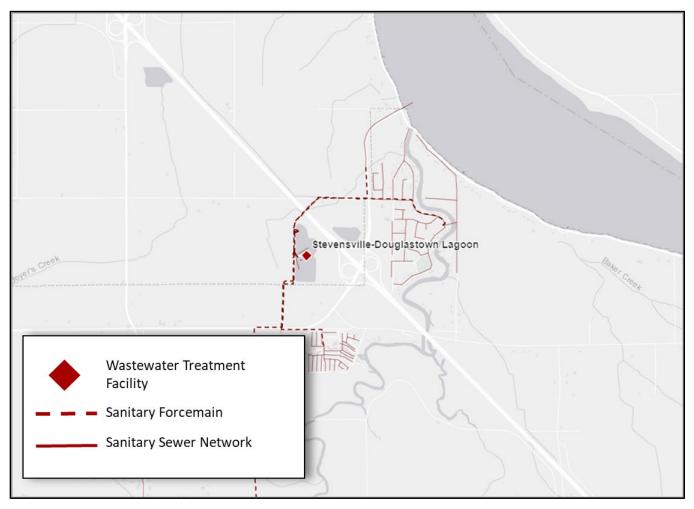
Crystal Beach Wastewater Treatment Plant



- 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

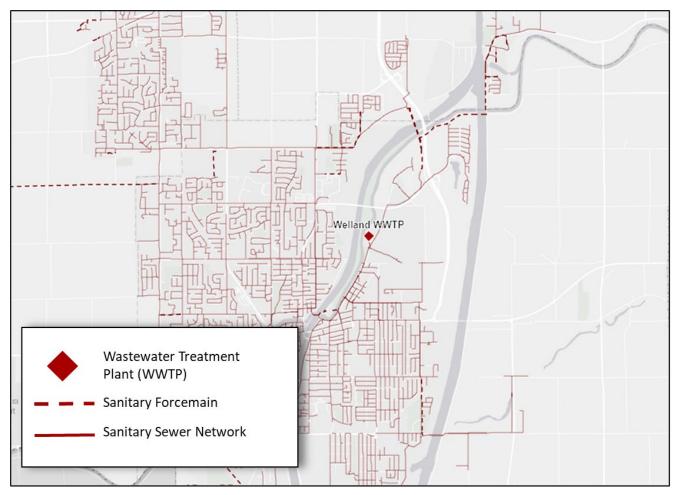


- Address: 3274 Netherby Road, Fort Erie, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 1.6
- Current Facility Capacity (MLD): 2.7
- Estimated Future Flow to 2051 (MLD): 2.45
- Existing Solids Management Process: Facultative lagoon system, with biosolids settling to the bottom of the secondary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



Welland

Welland Wastewater Treatment Plant

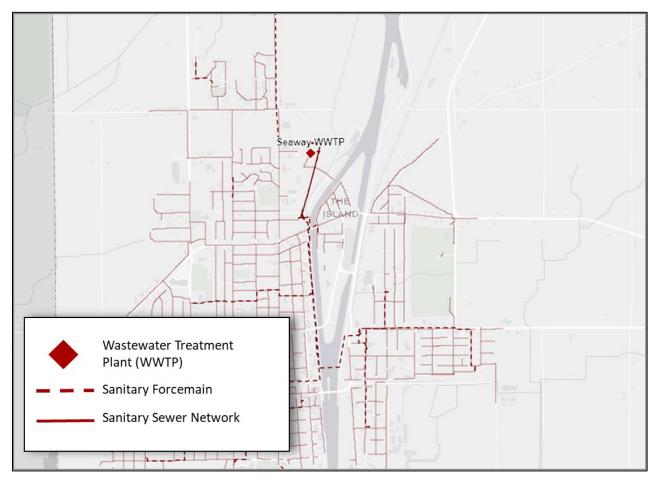


- Address: 505 River Road, RR#1, Welland, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 35.1
- Current Facility Capacity (MLD): 54.6
- Estimated Future Flow to 2051 (MLD): 48.87
- Existing Solids Management Process: Anaerobic digestion and storage
- Planned and Required Biosolids Upgrades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



Port Colborne

Seaway Wastewater Treatment Plant

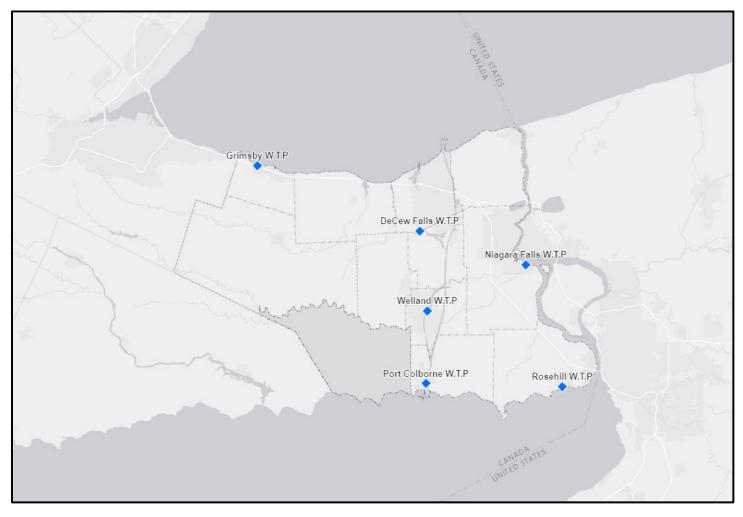


- Address: 30 Prosperity Avenue, Port Colborne, ON
- Historical Flow, 2017-2021 (megalitres per day, MLD): 12.0
- Current Facility Capacity (MLD): 19.6
- Estimated Future Flow to 2051 (MLD): 13.44
- Existing Solids Management Process: Anaerobic digester and storage
- **Planned and Required Biosolids 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.



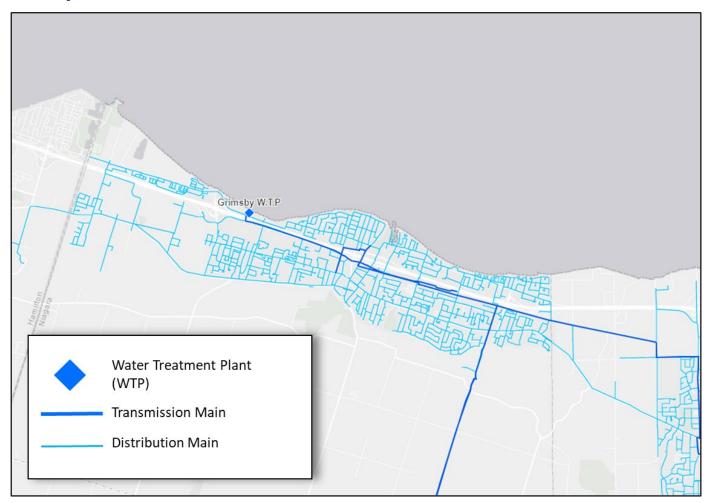
Existing Water Treatment Plants

Region Wide



Grimsby

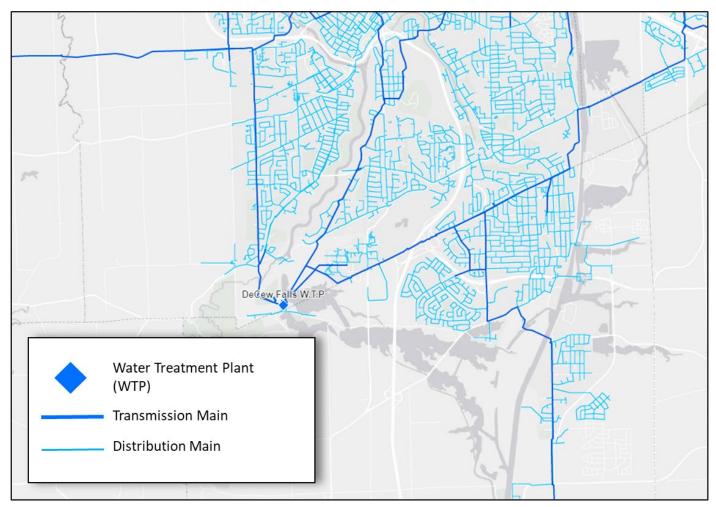
Grimsby Water Treatment Plant



- 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

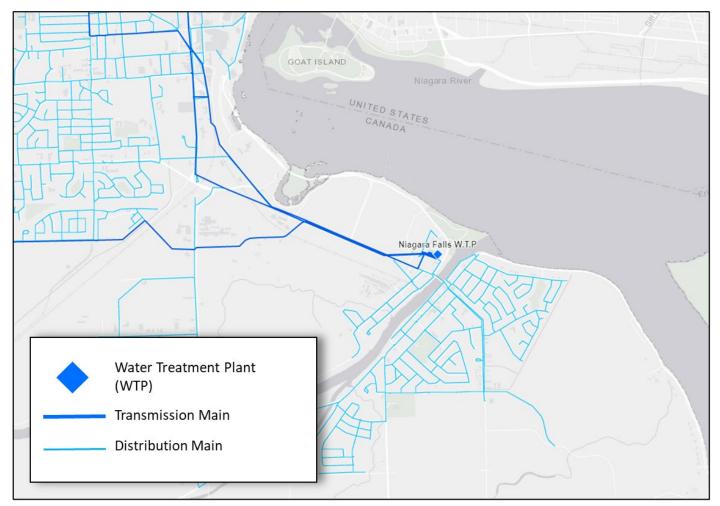
Decew Falls Water Treatment Plant



- 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

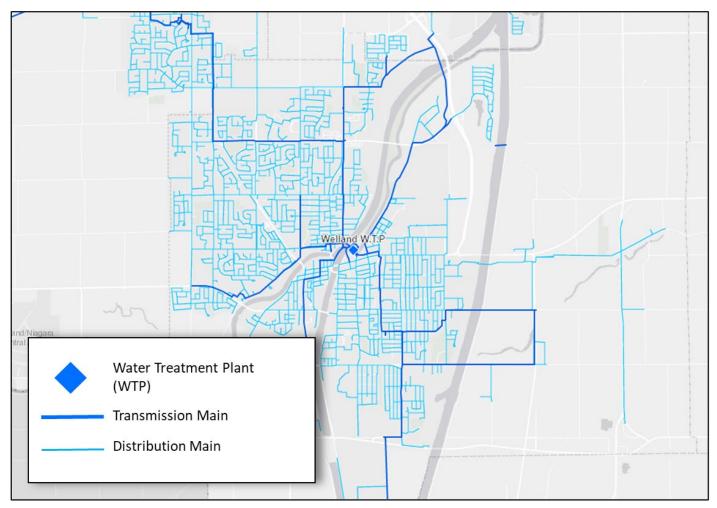
Niagara Falls Water Treatment Plant



- 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

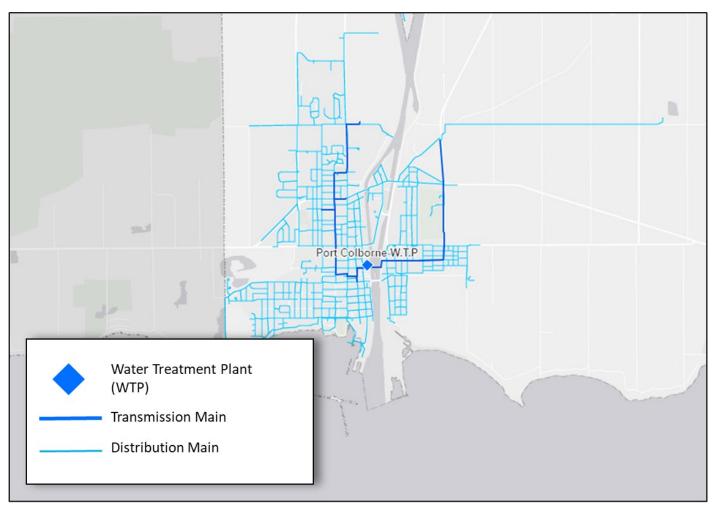
Welland Water Treatment Plant



- 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

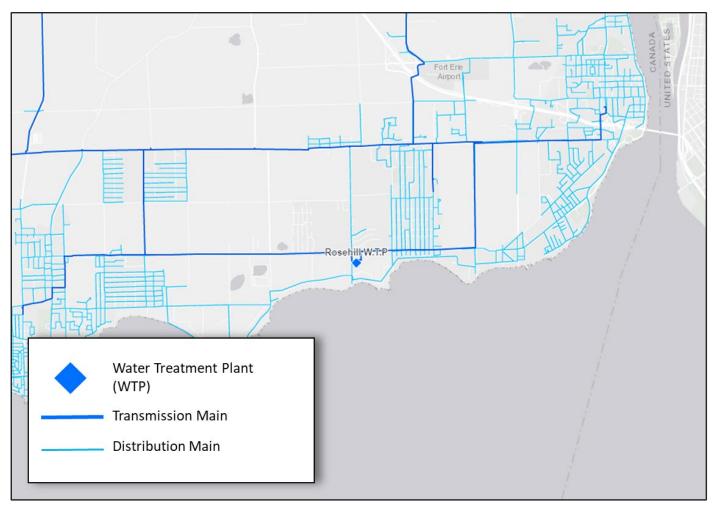
Port Colborne Water Treatment Plant



- 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

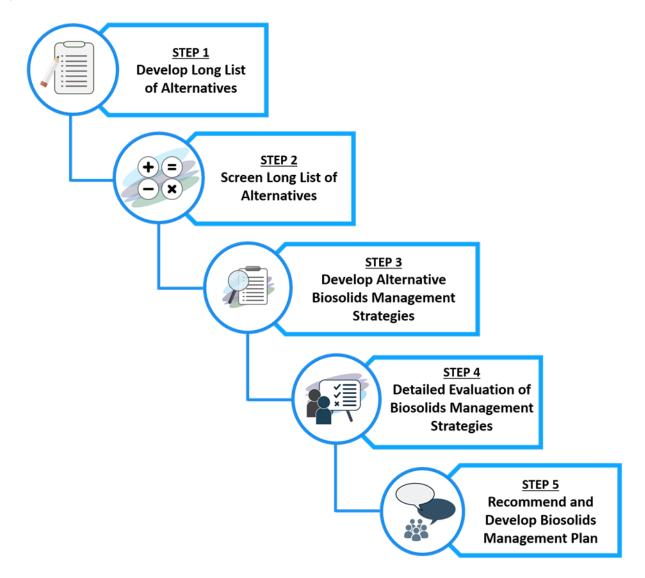
Rosehill Water Treatment Plant



- 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.

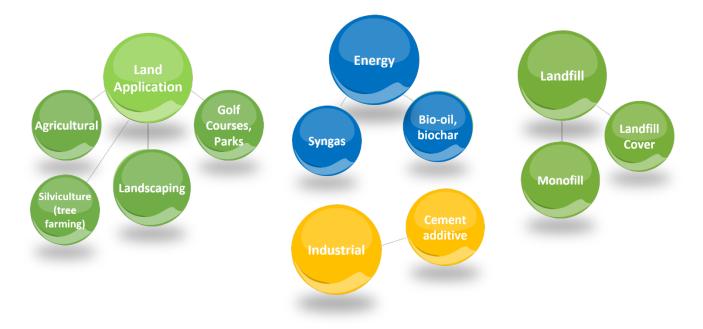
Evaluation Approach

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

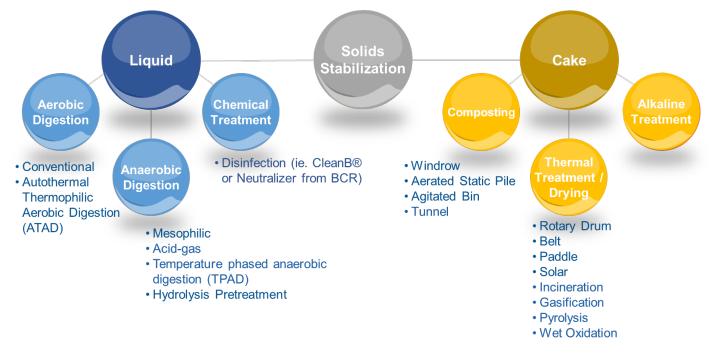
Different technologies can be used to stabilize the biosolids, depending on whether biosolids are in the form of liquid or cake.

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:

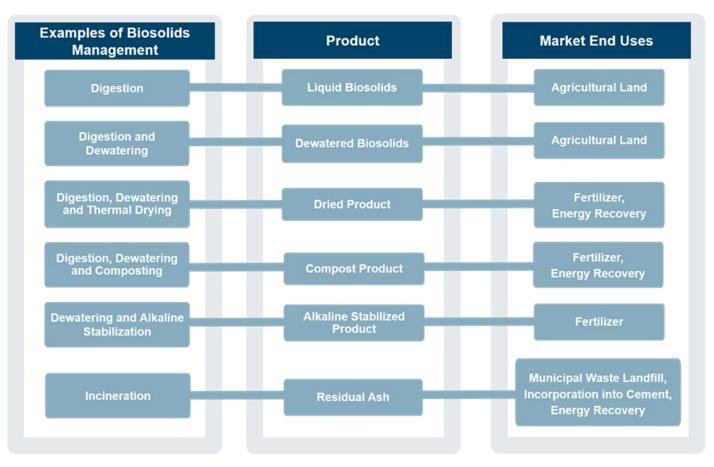
- Maturity of the Technology and Market Availability
- Compatibility with Existing Water and Wastewater Treatment Process and Biosolids Management Programs and Contracts
- Long-term Reliability and Sustainability
- Implementable

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.

Copyright © Niagara Region 2022. | All Rights Reserved.

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



Table of Contents

1.0	S	tudy Introduction	6
1	.1	Background and Purpose	
	.2		
2.0	Ρ	roject Initiation	,
2	.1	Public Consultation and Stakeholder Engagement Plan	7
2	.2	Stakeholder Communication Distribution List	7
		Project Website	
		ublic Information Centre No. 2	
3	.1	Purpose	3
3	.2	Notice of Public Information Centre No. 2	3
		3.2.1 Newspaper Advertisements	3
		3.2.2 Online Advertisements)
		3.2.3 Stakeholder Communication List Notification)
		3.2.4 Indigenous Community Engagement)
3	.3	PIC No. 2 Meeting Details	
3	.4	PIC No. 2 Display Material	
3	.5	Online Survey	
3	.6	PIC No. 2 Attendance)
3	.7	PIC No. 2 Comments Received and Region's Responses)
4.0	Ν	lext Steps	ŀ

Appendices

Appendix A	Notice of PIC No. 2
Appendix B	Indigenous Consultation Letters
Appendix C	PIC No. 2 Material
Appendix D	PIC No.2 Online Survey
Appendix E	Comments Received Summary



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



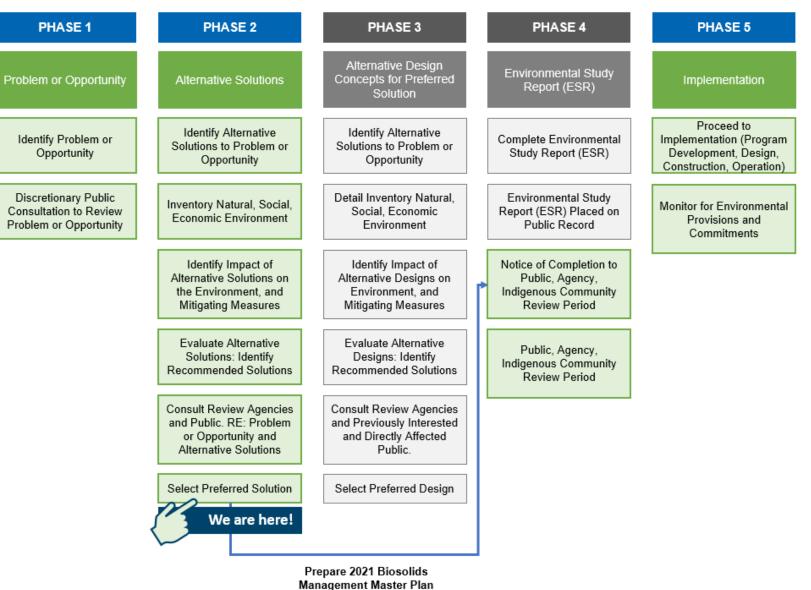


Figure 2: Municipal Class EA Planning and Design Process



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

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: 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.

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.

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 Development Institute 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-HDI-NR-Biosolids-Mgmt-MMP-Update.Ltr.docx)

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

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

Mississaugas of the Credit First Nation 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\0.02 - OPS & Maintenance Projects\13 20001326 - 2020 Biosolids MSP\1_PROJ_MGMT\CORR\Indigenous\MCFN\2023\2023-04-19-MCFN-NR-Biosolids-Mgmt-MMP-Update.Ltr.docx)

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

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

Six Nations of the Grand River 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\0.02 - OPS & Maintenance Projects\13 20001326 - 2020 Biosolids MSP\1_PROJ_MGMT\CORR\Indigenous\MCFN\2023\2023-04-19-Six-Nations-NR-Biosolids-Mgmt-MMP-Update.Ltr.docx)

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.

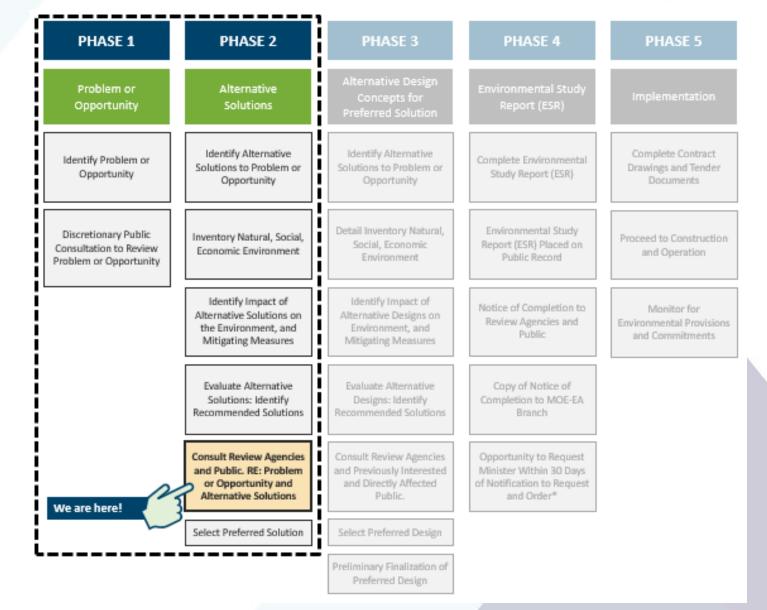




Project Approach

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

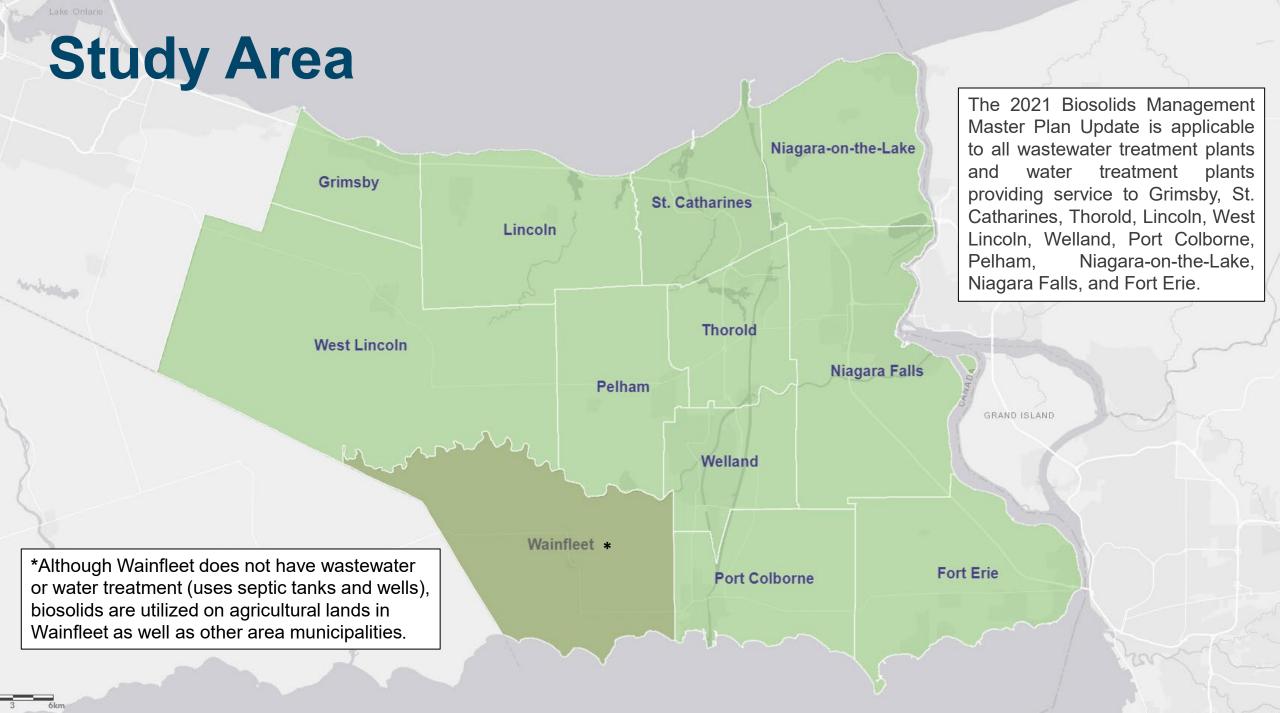


Present the Public and Stakeholders with an opportunity to learn about Niagara Region's biosolids management approach and provide insight to future needs.

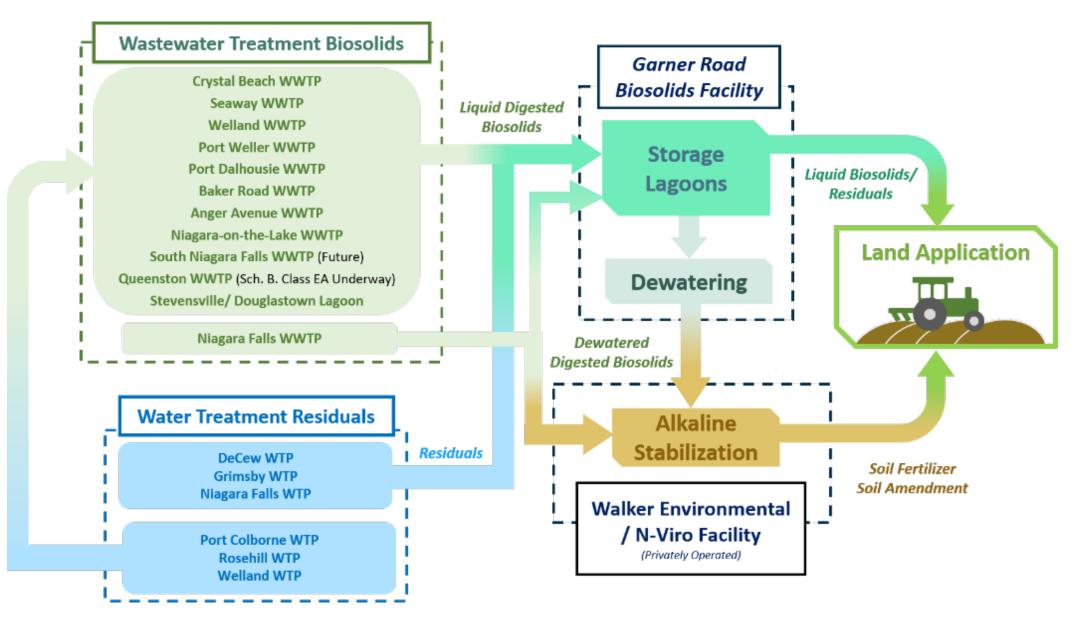
Provide a progress update on the Biosolids Management Master Plan and work completed to date.

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

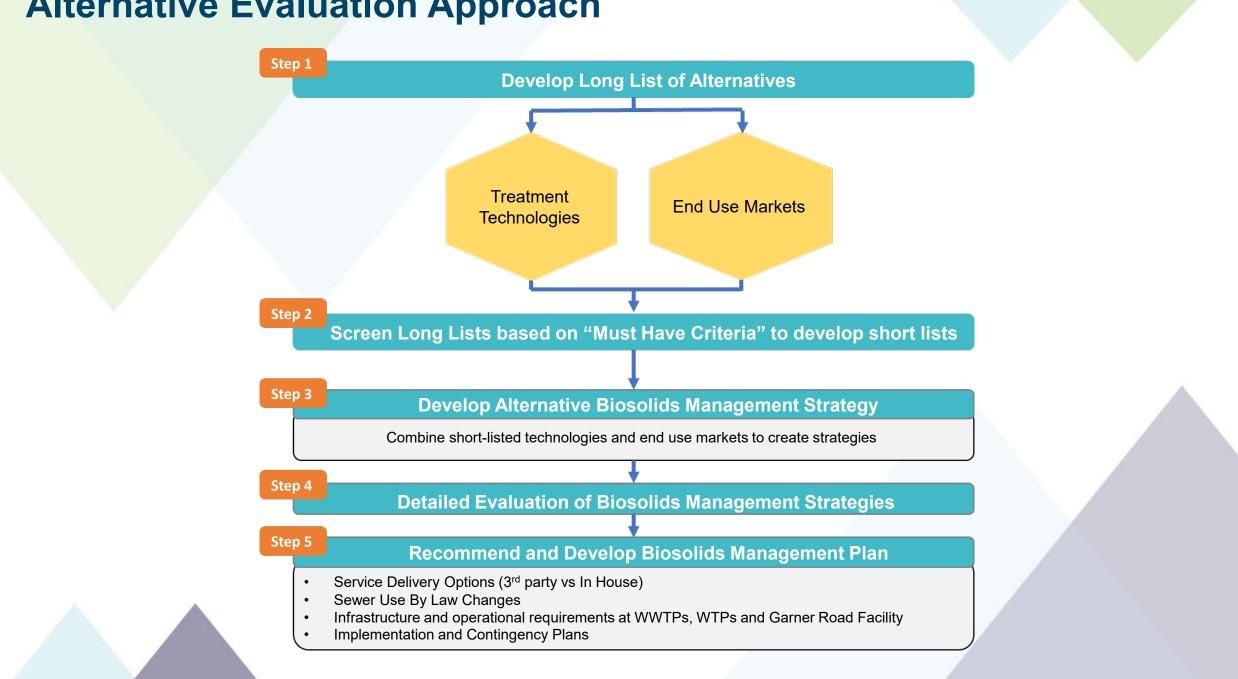


Biosolids Management Centre with Alkaline Stabilization

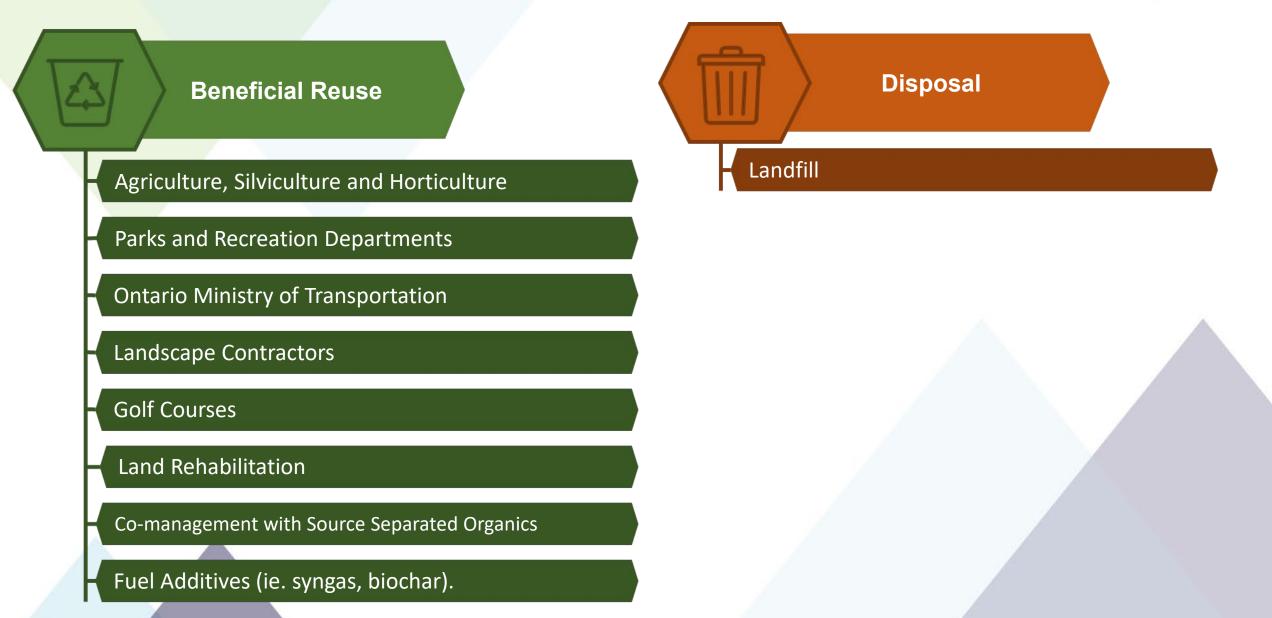
Dewatered biosolids from the Garner Road Biosolids Facility and Niagara Falls WWTP (~50% of biosolids produced in Niagara Region) are:

- 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



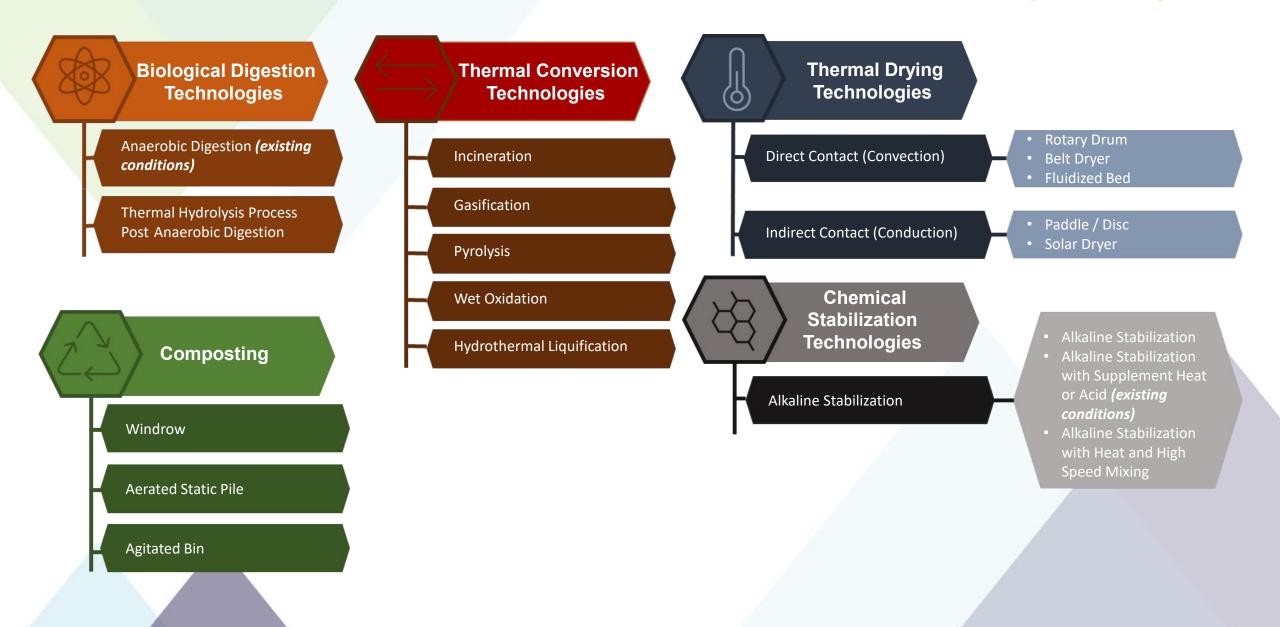
Step 1 – Develop Long List of Biosolids End Use Markets



Step 2 – Screen Long List of Biosolids End Use Markets

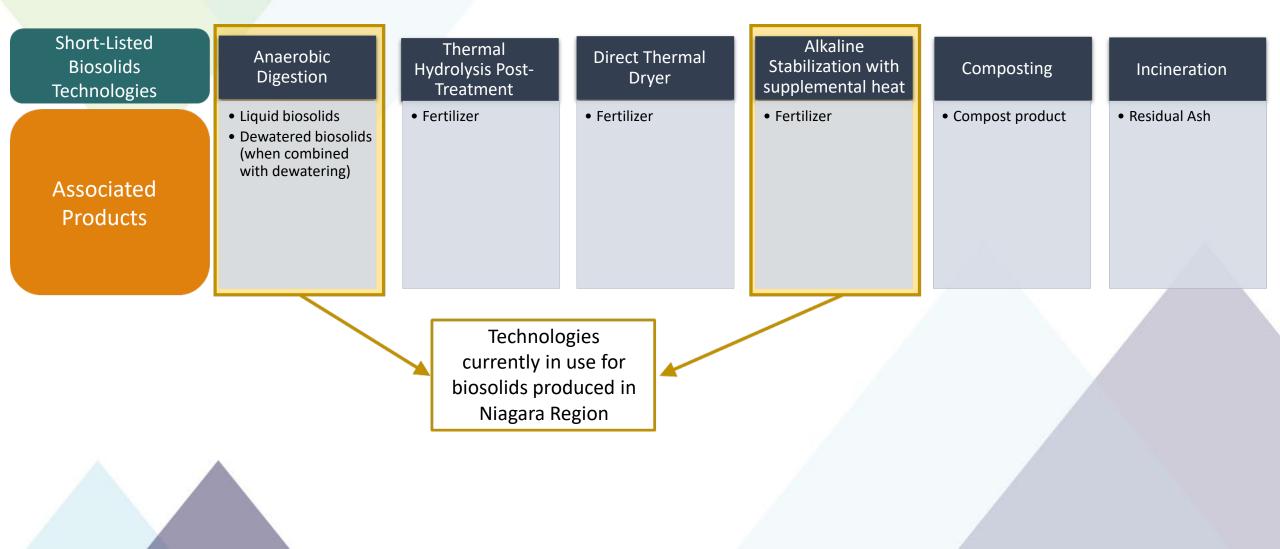
	Market A	vailability		tibility with nt Program		rm Reliability Istainability	Implementable	Screening Results
Agricultural, Silviculture and Horticulture	\checkmark	Pass	\checkmark	Pass	\checkmark	Pass	🗹 Pass	Carried Forward
Parks and Recreation Department	\checkmark	Pass	Ø	Pass	\checkmark	Pass	🗹 Pass	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

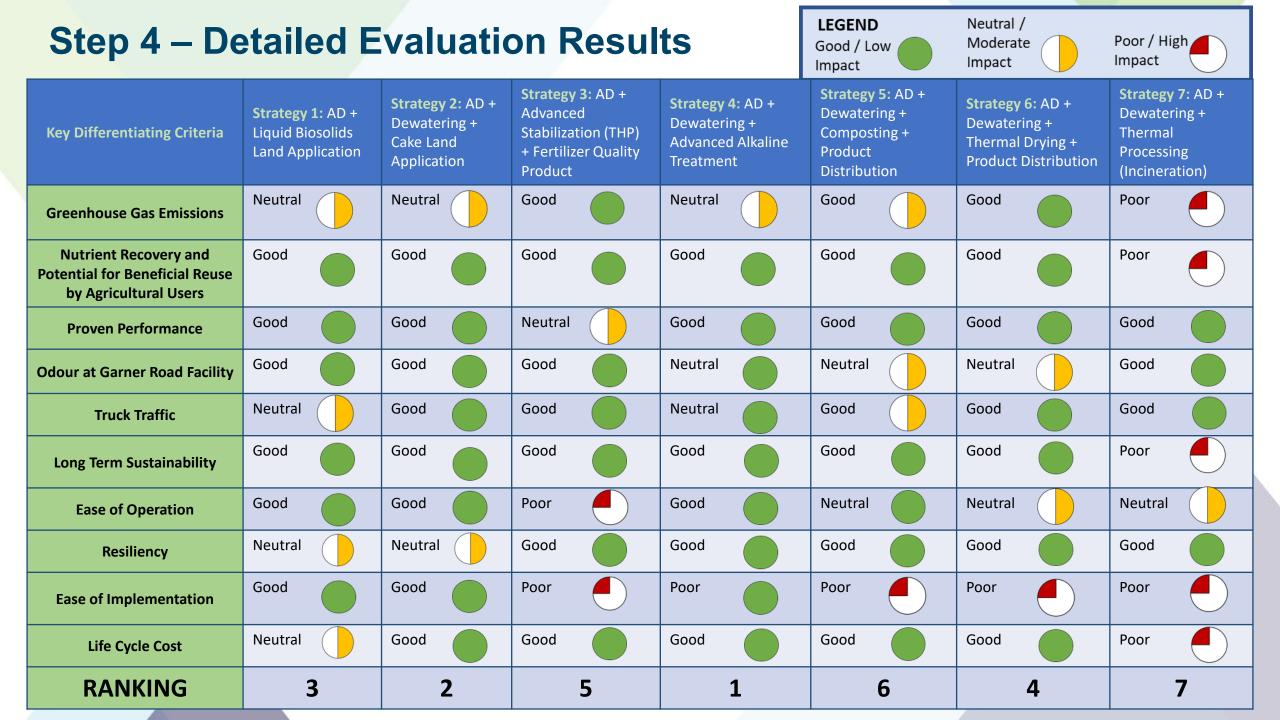
- Capital Cost
- Operating and Maintenance Cost
- Life Cycle Costs
- Best Use of Existing Investments





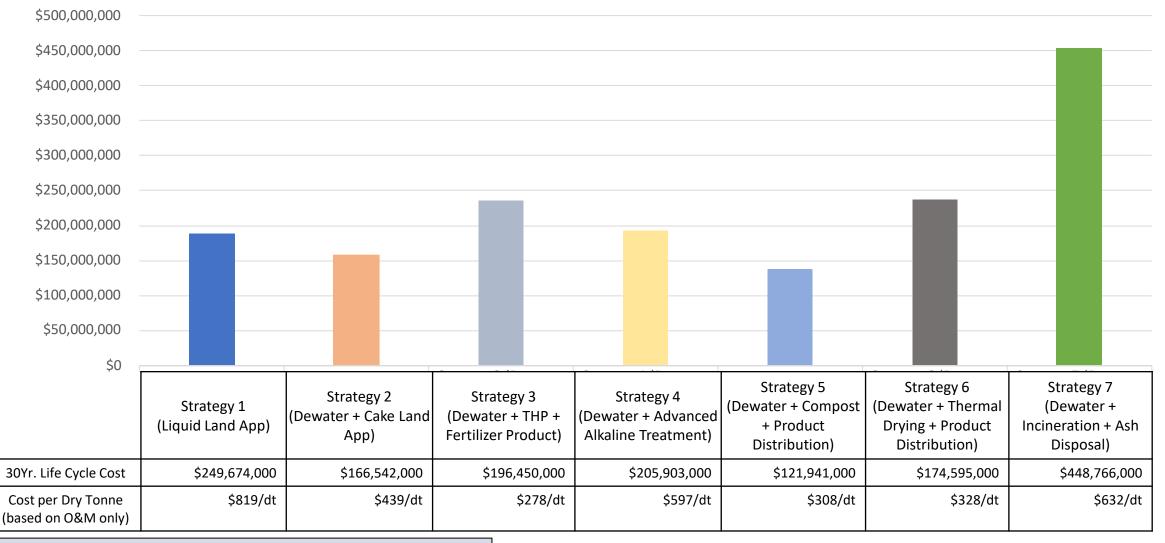


Approach: Equal weighting initially followed by sensitivity analysis prioritizing different criteria categories



Step 4 – Detailed Evaluation Results - Costs

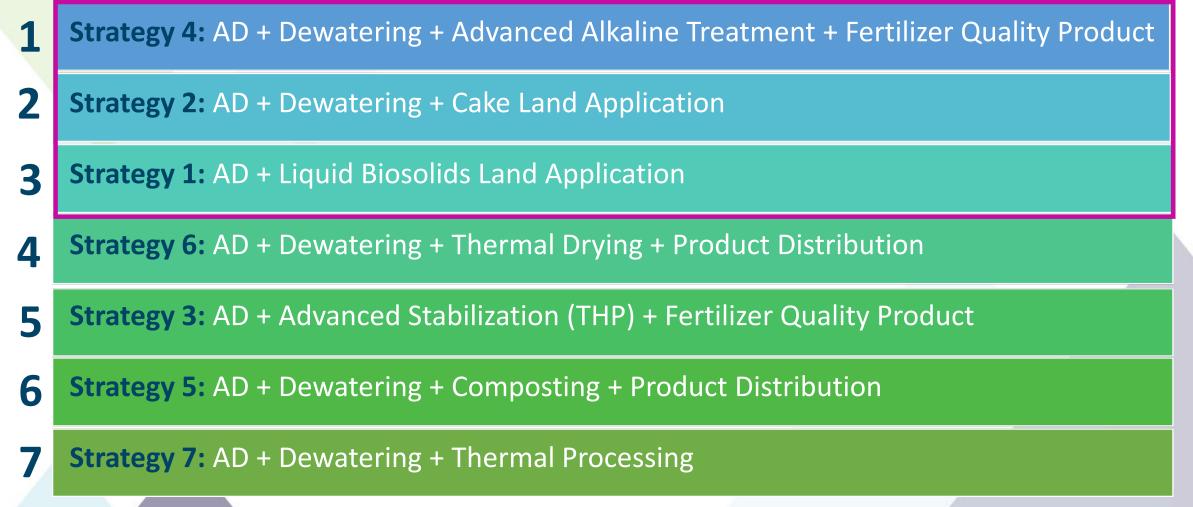
30 Yr. Life Cycle Cost for Biosolids Management Strategies



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

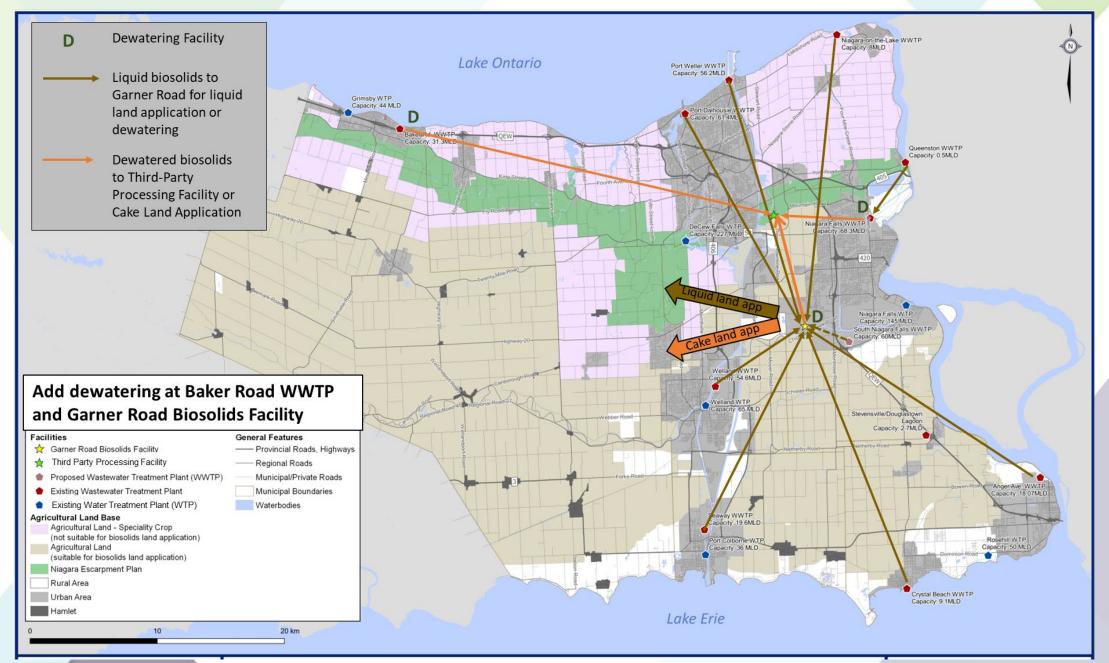


AD = Anaerobic Digestion

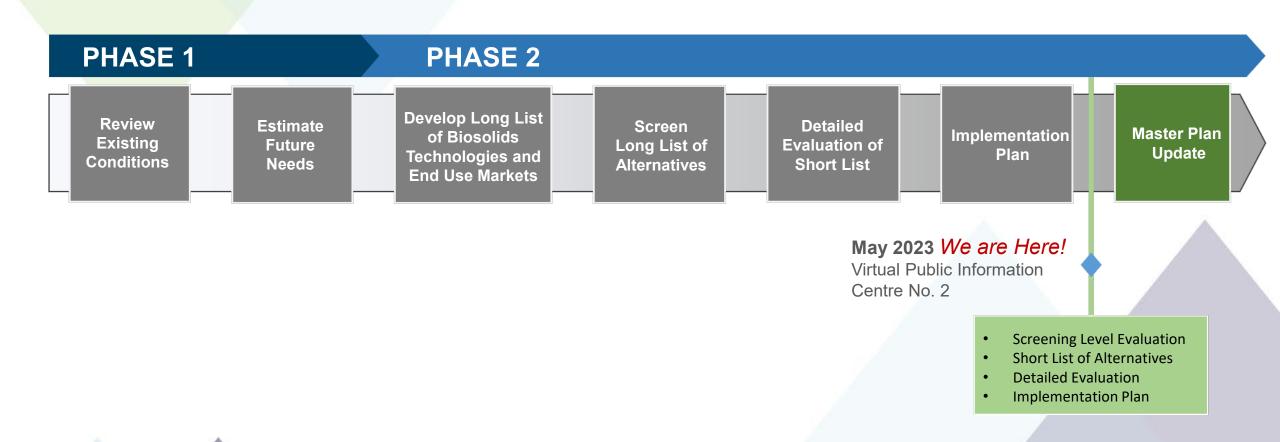
Step 5 – Preliminary Recommendations and Implementation

- 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.

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 Development Institute 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-HDI-NR-Biosolids-Mgmt-MMP-Update.Ltr.docx)

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

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

Mississaugas of the Credit First Nation 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\0.02 - OPS & Maintenance Projects\13 20001326 - 2020 Biosolids MSP\1_PROJ_MGMT\CORR\Indigenous\MCFN\2023\2023-04-19-MCFN-NR-Biosolids-Mgmt-MMP-Update.Ltr.docx)

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

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

Six Nations of the Grand River 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\0.02 - OPS & Maintenance Projects\13 20001326 - 2020 Biosolids MSP\1_PROJ_MGMT\CORR\Indigenous\MCFN\2023\2023-04-19-Six-Nations-NR-Biosolids-Mgmt-MMP-Update.Ltr.docx)

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>



N O T I C E - This message from GM BluePlan Engineering Limited is intended only for the use of the individual or entity to which it is addressed and may contain information which is privileged, confidential or proprietary. Internet communications cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, arrive late or contain viruses. By communicating with us via e-mail, you accept such risks. When addressed to our clients, any information, drawings, opinions or advice (collectively, "information") contained in this e-mail is subject to the terms and conditions expressed in the governing agreements. Where no such agreement exists, the recipient shall neither rely upon nor disclose to others, such information without our written consent. Unless otherwise agreed, we do not assume any liability with respect to the accuracy or completeness of the information set out in this e-mail. If you have received this message in error, please notify us immediately by return e-mail and delete the message from your computer systems.

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,								
	lisa.myslicki@infrastructureontario.ca, colleen.fitzgerald-hubble@ontario.ca,								
	mgruosso@niagaraparks.com, Chervl.Tansony@ontario.ca, aaldworth@npca.ca, smiller@npca.ca,								
	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

N O T I C E - This message from GM BluePlan Engineering Limited is intended only for the use of the individual or entity to which it is addressed and may contain information which is privileged, confidential or proprietary. Internet communications cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, arrive late or contain viruses. By communicating with us via e-mail, you accept such risks. When addressed to our clients, any information, drawings, opinions or advice (collectively, "information") contained in this e-mail is subject to the terms and conditions expressed in the governing agreements. Where no such agreement exists, the recipient shall neither rely upon nor disclose to others, such information without our written consent. Unless otherwise agreed, we do not assume any liability with respect to the accuracy or completeness of the information set out in this e-mail. If you have received this message in error, please notify us immediately by return e-mail and delete the message from your computer systems.



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

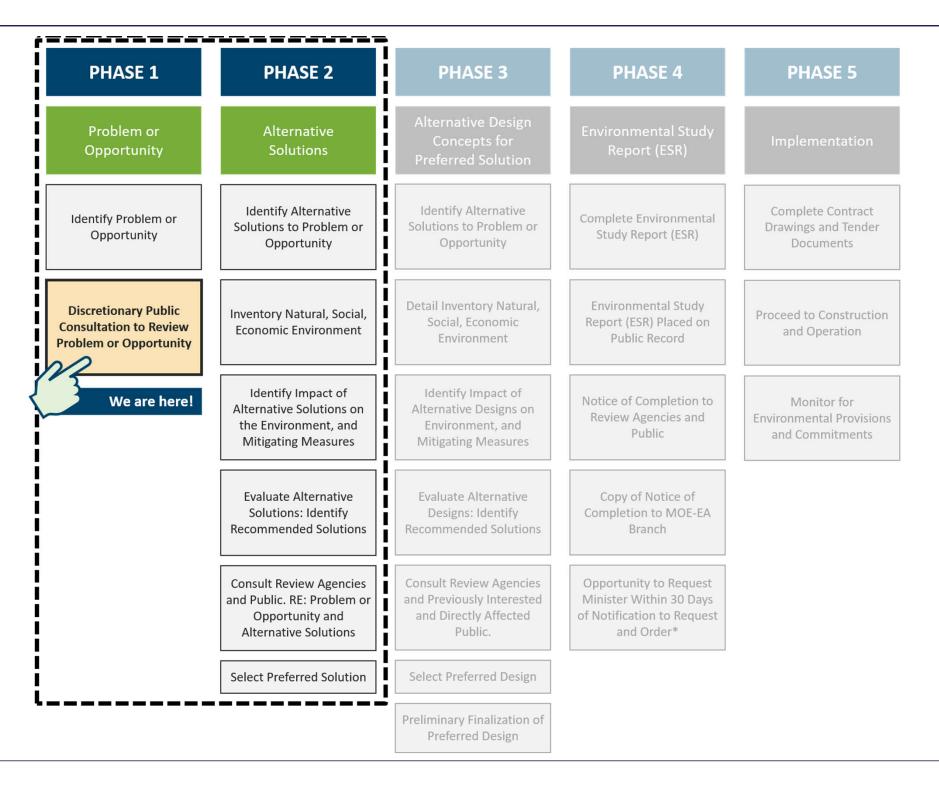


Background and Objectives

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.

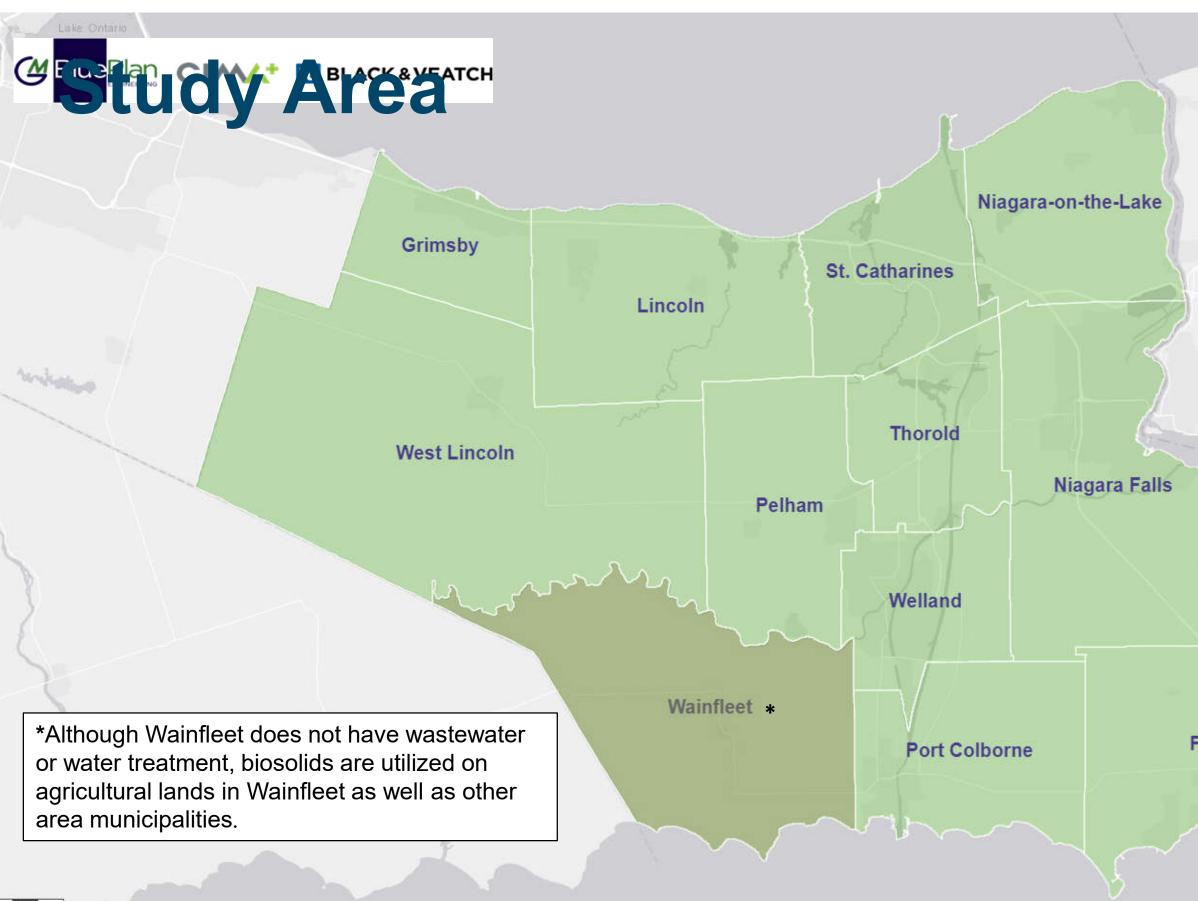




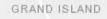
Problem and Opportunity Statement

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



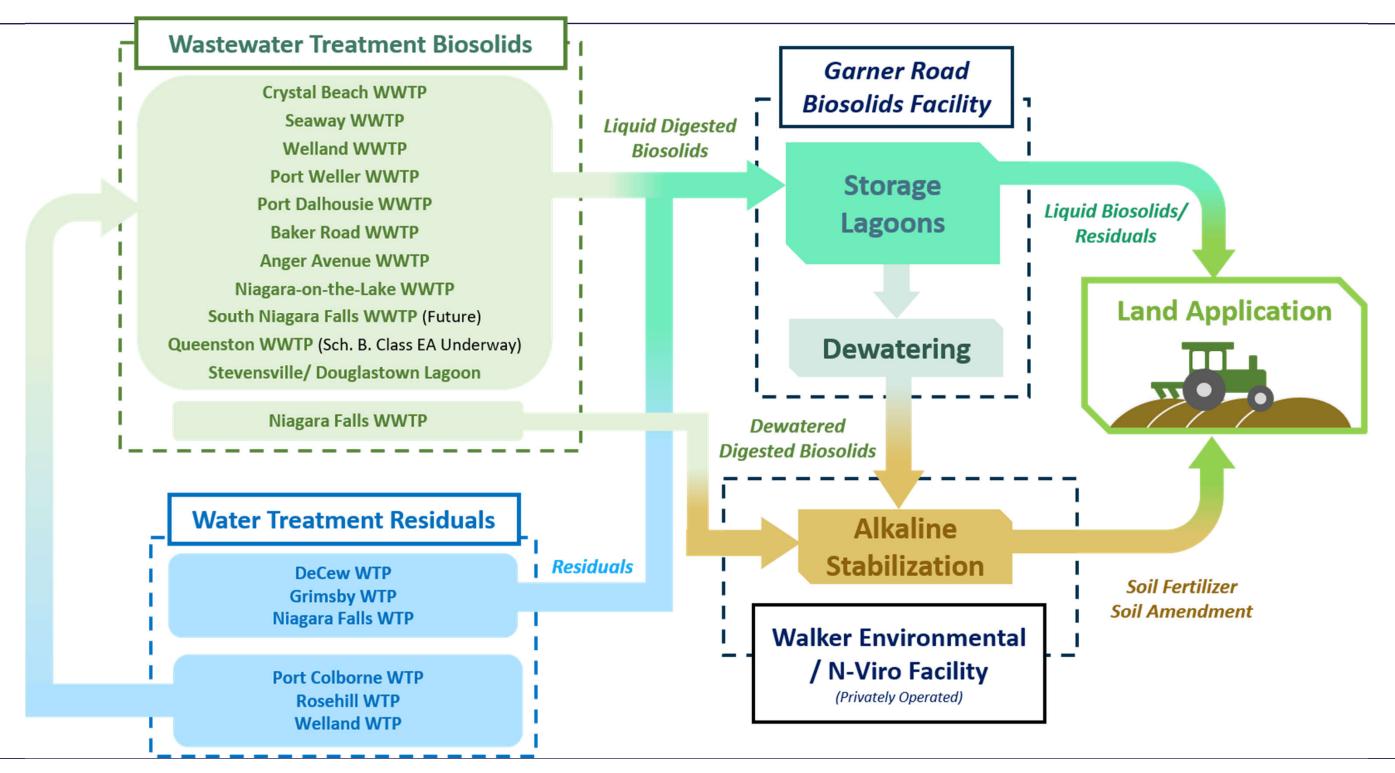
The 2021 Biosolids Management Master Plan Update is applicable to all wastewater treatment plants and water treatment plants in Grimsby, West Lincoln, Lincoln, St. Catharines, Thorold, Welland, Pelham, Port Colborne, Niagaraon-the-Lake, Niagara Falls, and Fort Erie.



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:

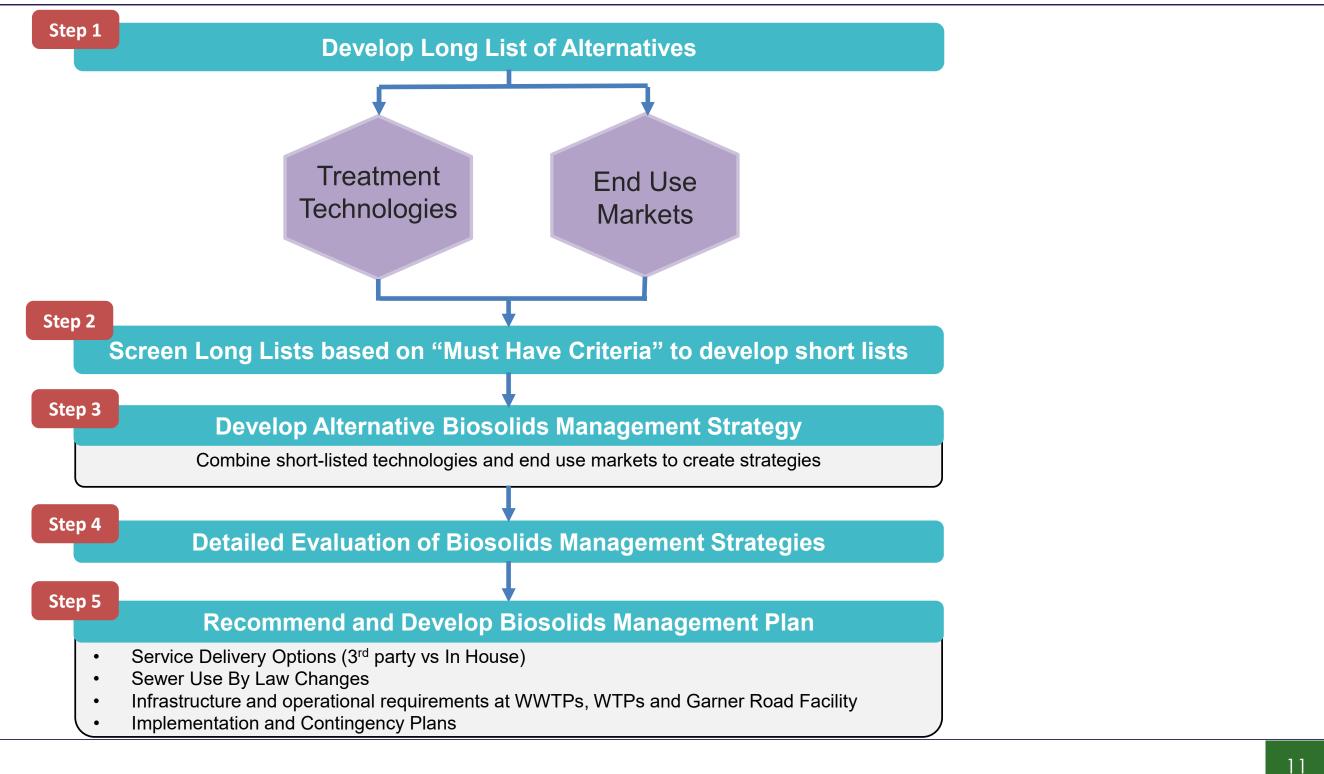
Hauled to the Walker Environmental Facility in

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



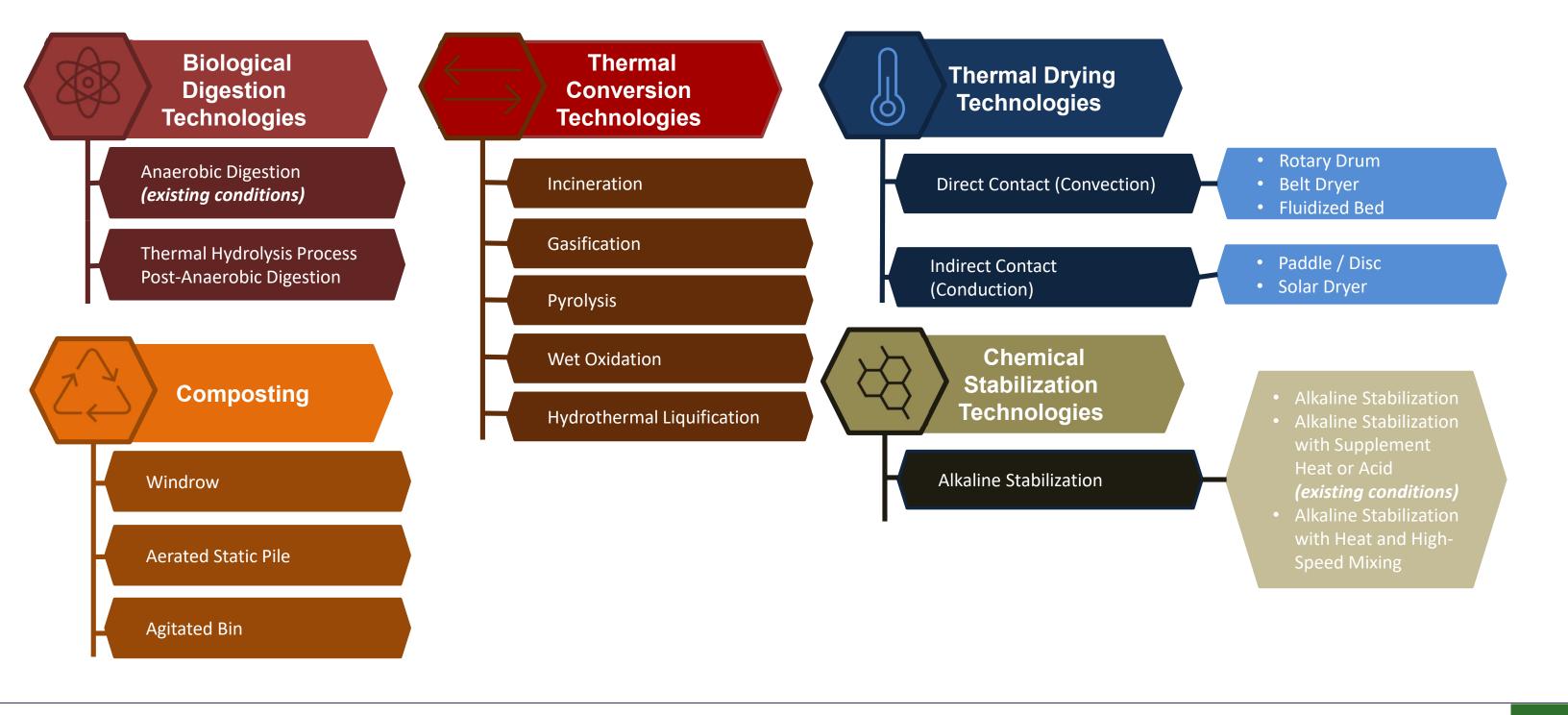


Step 2 – Screen Long List of Biosolids End Use Markets

	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



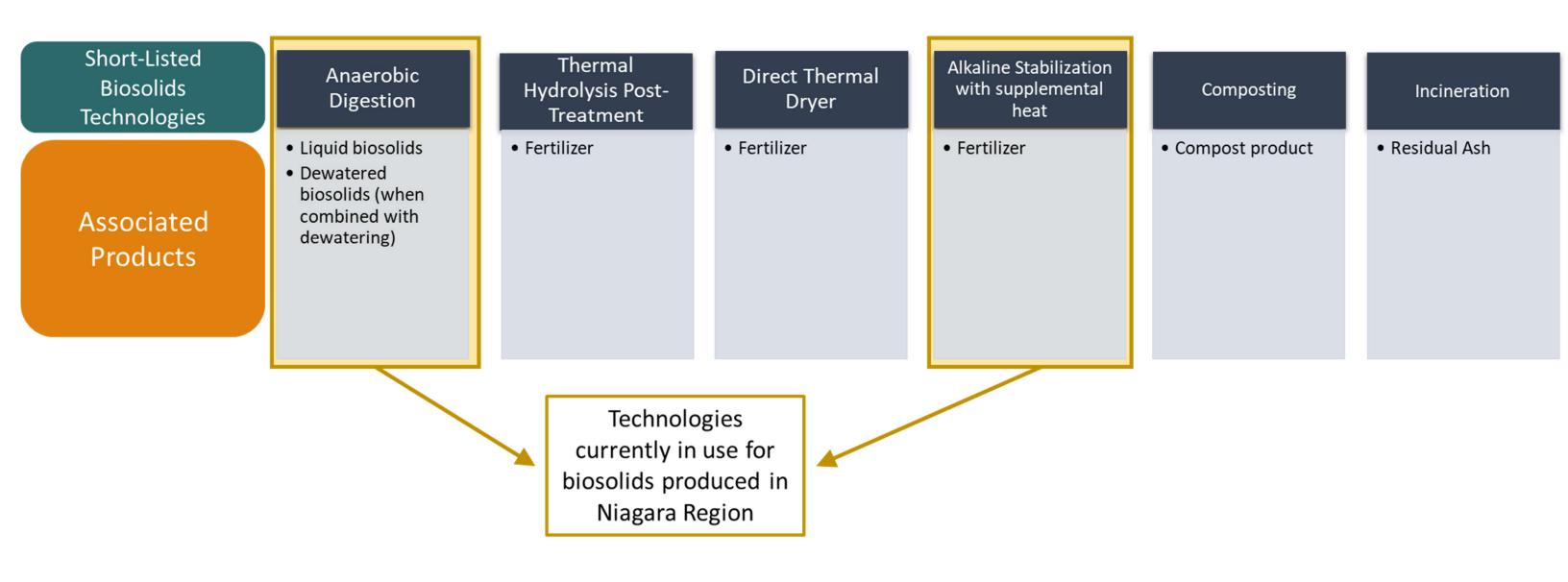
Step 1 – Develop Long List of Biosolids Treatment Technologies



	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

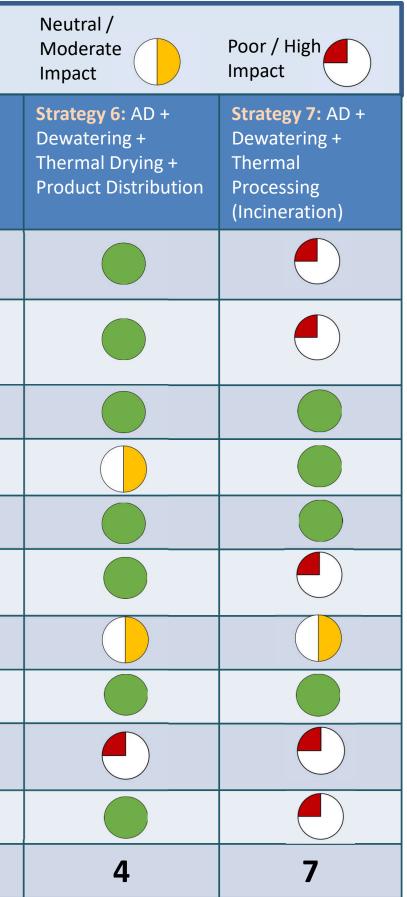
Economic Considerations

- **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

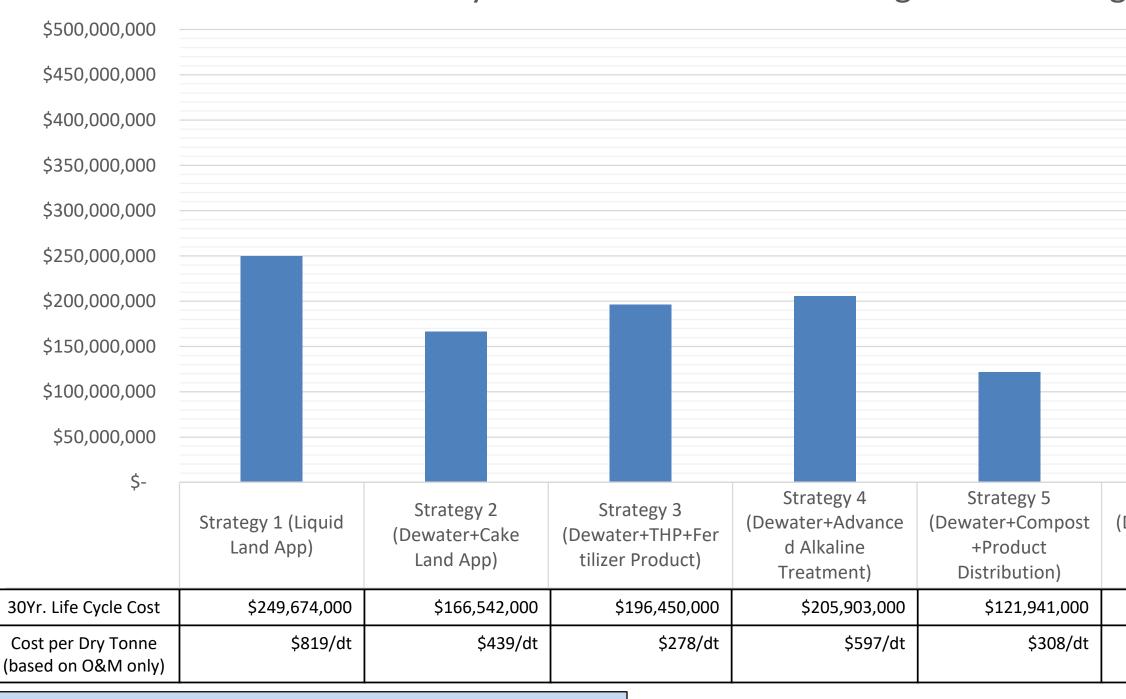


Step 4 – Deta	LEGEND Good / Low Impact				
Key Differentiating Criteria	Strategy 1: AD + Liquid Biosolids Land Application	Strategy 2: AD + Dewatering + Cake Land Application	Strategy 3: AD + Advanced Stabilization (THP) + Fertilizer Quality Product	Strategy 4: AD + Dewatering + Advanced Alkaline Treatment	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



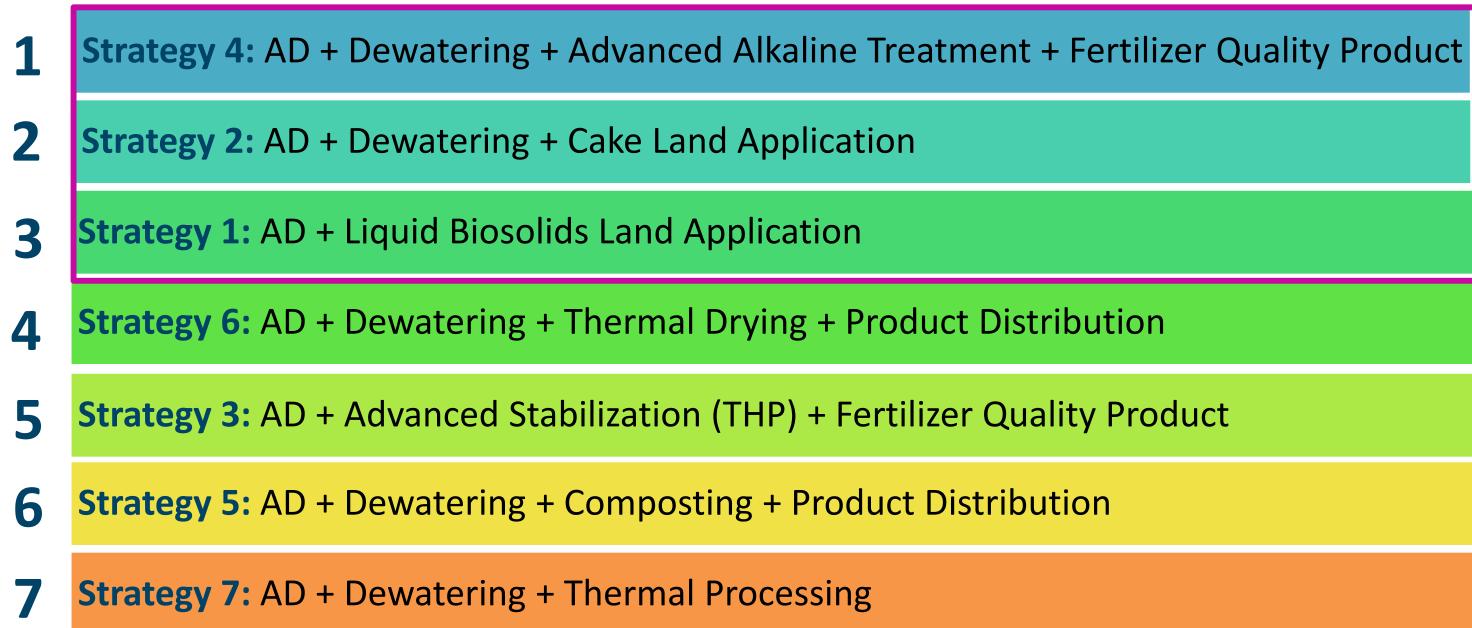
Average \$/dry tonne (dt) for current program (2014 – 2016) = \$647/dt

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

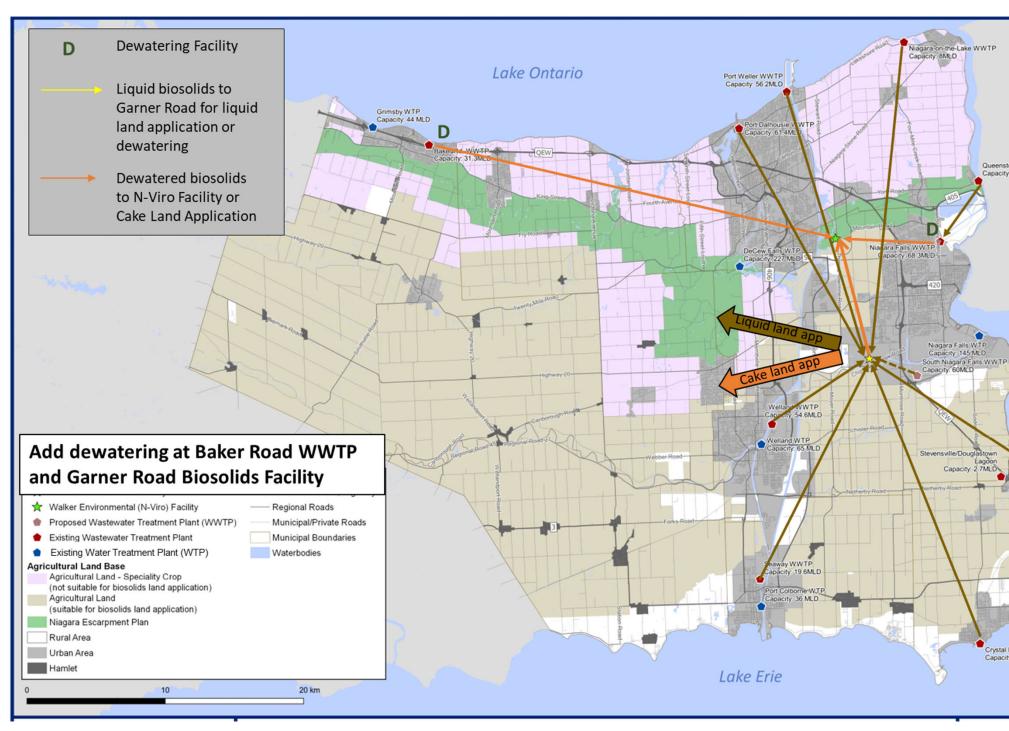
Long-Term Solution (5+ Years)

- 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



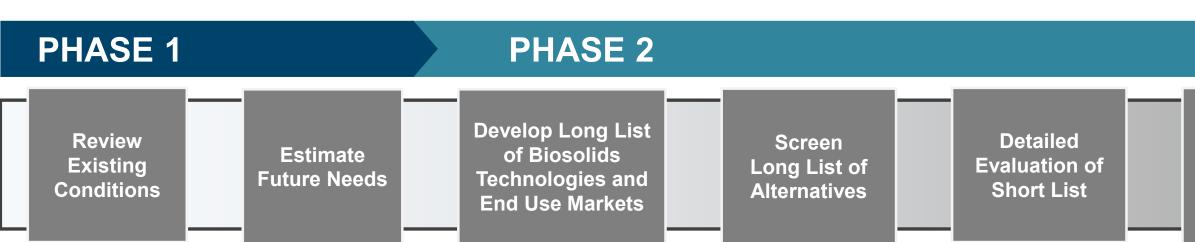
Step 5 – Preliminary Recommendations and Implementation





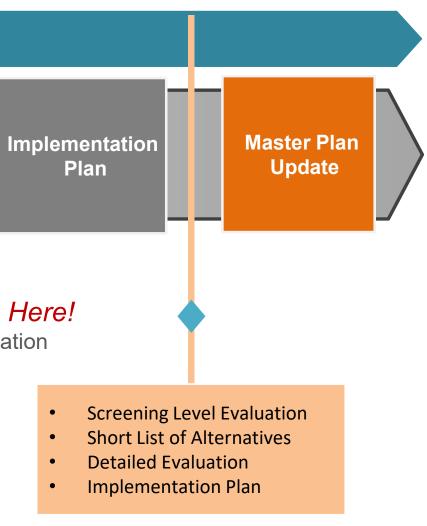






May 2023 We are Here! Stakeholder Consultation

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:

GM BLUEPLAN ENGINEERING LIMITED

Per:

Laura Verhaeghe, P.Eng. Project Manager