

Appendix I

Agency and Stakeholder Consultation Record





External Agency and Stakeholder Contact List



SNOW STORAGE SITES ANALYSIS AND
CONCEPTUAL DESIGN PROJECT
External Agency and Stakeholder Contact List

AGENCY	FIRST NAME	SECOND NAME	POSITION	EMAIL
Federal				
Canadian Pacific	Joe	Van Humbeck	Manager Environmental Assessments	joe_vanhumbeck@cpr.ca
Environment Canada	Rob	Dobos	Manager, Environmental Assessment Section	rob.dobos@ec.gc.ca
Parks Canada, Historic Site & Monument Board	Alexandre	Ferland	EA Coordinator	alexandre.ferland@pc.gc.ca
Transport Canada			Environmental Coordinator	EnviroOnt@tc.gc.ca
Provincial				
Ministry of Aboriginal Affairs	Camille	Assam	Executive Assistant to ADM	Camille.assam@ontario.ca
Ministry of Aboriginal Affairs	Karly	Jennings	Administrative Assistant to ADM	Karly.jennings@ontario.ca
Ministry of Municipal Affairs and Housing (EA Policy)			Central Municipal Services Office	Audrey.Bennett@ontario.ca
Ministry of the Environment, Conservation & Parks				eanotification.cregion@ontario.ca
Ministry of the Environment, Conservation & Parks	Maria	Jawaid	Area Biologist, Halton/Peel/Toronto	maria.jawaid@ontario.ca
Ministry of the Environment and Climate Change	Krishna	Selvakumar	Environmental Resource Planner/EA Coordinator	krishna.selvakumar@ontario.ca
Ministry of Citizenship and Multiculturalism	Dan	Minkin	Heritage Planner - CULTURE SERVICES UNIT	dan.minkin@ontario.ca
Ministry of Citizenship and Multiculturalism	Karla	Barboza	Team Lead, Heritage	karla.barboza@ontario.ca
Ministry of Transportation	Dawn	Irish	Manager, Environmental Policy	dawn.irish@ontario.ca
Ministry of Transportation	Tiola	Seaton	Administrative Assistant	tiola.seaton@ontario.ca
Ministry of Transportation - Central Division	Thanga	Murugesu	Senior Project Engineer, highway Engineering - Peel & Halton Section	Thanga.Murugesu@ontario.ca
MTO (Ministry of Transportation of Ontario)	Sabina	Merey	Senior Project Engineer, Peel Halton Section, Planning & Design	sabina.merey@ontario.ca
Ministry of Agriculture and Food	Jackie	Van de Valk	Rural Planner - Environmental and Land Use Policy	jackie.vandevalk@ontario.ca
Ministry of Rural Affairs	Jackie	Van de Valk	Rural Planner - Environmental and Land Use Policy	jackie.vandevalk@ontario.ca
Ministry of Community Safety and Corrections	Ali	Veshkini	Director, Facilities & Capital Planning Branch, Corporate Service Division	ali.veshkini@ontario.ca
IO (Infrastructure Ontario)	Keith	Noronha		Keith.Noronha@infrastructureontario.ca
City of Brampton				
City of Brampton	Michael	Heralall		Michael.Heralall@brampton.ca
City of Brampton	Ghazanfar	Mohammad	EA Contact	ghazanfar.mohammad@brampton.ca
City of Brampton	Jia	He	Project Manager, Capital Works	jia.he@brampton.ca
City of Brampton	John	Fantin	Program Manager, Engineering Capital Works	John.Fantin@brampton.ca
City of Brampton	Michael	Heralall		Michael.Heralall@brampton.ca
City of Brampton	Bino	Varghese	EA Contact	bino.varghese@brampton.ca
City of Brampton	Ricardo	Scattolon	Engineering Design and Drafting	ricardo.scattolon@brampton.ca
City of Brampton	Kyla	Devin	Works and Transportation	pucc.apps@brampton.ca
City of Brampton	John	Allison	Planning Design and Development	john.allison@brampton.ca
City of Brampton	Craig	Kummer	Senior Manager, Traffic Services	craig.kummer@brampton.ca
City of Brampton	Shane	Beirnes	Street Lighting Supervisor, Traffic Services	shane.beirnes@brampton.ca

SNOW STORAGE SITES ANALYSIS AND
CONCEPTUAL DESIGN PROJECT
External Agency and Stakeholder Contact List

City of Brampton	Bishnu	Parajuli	Manager Infrastructure Planning	bishnu.parajuli@brampton.ca
City of Brampton	Kevin	Thavarajah	Stormwater Infrastructure Engineer, Stormwater Programs	kevin.thavarajah@brampton.ca
City of Mississauga				
City of Mississauga	Evelyn	Krolicka		Evelyn.Krolicka@mississauga.ca
City of Mississauga	Tim	Gallagher		tim.gallagher@mississauga.ca
City of Mississauga	Steve	Barrett	Manager, Transportation Asset Management	steve.barrett@mississauga.ca
City of Mississauga	Geoff	Wright	Commissioner, Transportation and Works	geoff.wright@mississauga.ca
Town of Caledon				
Town of Caledon	Delton	Zehr	Manager, Road Operations & Fleet Operations Department	Delton.Zehr@caledon.ca
Town of Caledon	Brian	Baird		brian.baird@caledon.ca
Town of Caledon	Cassie	Schembri		Cassie.Schembri@caledon.ca
Town of Caledon	Jeremy	Johnson		Jeremy.johnson@caledon.ca
Town of Caledon	Ryan	Grodecki		ryan.grodecki@caledon.ca
Town of Caledon	Sally	Drummond	Heritage Officer	sally.drummond@caledon.ca
Town of Caledon	Tim	Manley	Senior Policy Planner	tim.manley@caledon.ca
Town of Caledon	Arash	Olia	Manager, Transportation Engineering, Finance and Infrastructure Services	arash.olia@caledon.ca
Town of Caledon	Danita	Taccogna	Engineering Department	danita.taccogna@caledon.ca
Town of Caledon	Haiqing	Xu	Policy Manager	haiqing.xu@caledon.ca
Town of Caledon	Geoff	Hebbert	Senior Development Engineering Coordinator	geoff.hebbert@caledon.ca
Conservation Authority				
Credit Valley Conservation	Jakub	Kilis	Planner, Environmental Assessment	jakub.kilis@cvc.ca
Credit Valley Conservation	Iftekhar	Ahmad	Junior Planner	Iftekhar.Ahmad@cvc.ca
Toronto and Region Conservation Authority	Emma	Benko		emma.benko@trca.ca
Toronto and Region Conservation Authority	Shirin	Varzgani	Senior Planner Infrastructure Planning and Permits	shirin.varzgani@trca.ca
Toronto and Region Conservation Authority	Suzanne	Bevan	Senior Planner Infrastructure Planning and Permits Development and Engineering Services	Suzanne.Bevan@trca.ca
Toronto and Region Conservation Authority	Zack	Carlan	Planner, Infrastructure Planning & Permits	zack.carlan@trca.ca
Toronto and Region Conservation Authority	Victoria	Kramkowski		victoria.kramkowski@trca.ca
Indigenous Communities				
Mississaugas of the Credit First Nation	Abby	LaForme	Acting Consultation Coordinator	Abby.LaForme@mncfn.ca
Mississaugas of the Credit First Nation	Mark	LaForme	Director, Department of Consultation and Accommodation (DOCA)	Mark.LaForme@mncfn.ca
Mississaugas of the Credit First Nation	Marie-Annick	Prevost	Field archaeologist	Marie-Annick.Prevost@mncfn.ca
Six Nations of the Grand River Elected Council	Tanya	Tanya j. Hill- Montour	Archaeology Supervisor	tanyahill-montour@sixnations.ca
Six Nations of the Grand River Elected Council	Lonny	Bomberry	Lands and Resources Director	lonnybomberry@sixnations.ca
Six Nations of the Grand River Elected Council	Peter	Graham	Consultation Supervisor	LRCS@sixnations.ca

SNOW STORAGE SITES ANALYSIS AND
CONCEPTUAL DESIGN PROJECT
External Agency and Stakeholder Contact List

Six Nations of the Grand River (Haudenosaunee Development Institute)			Notifications inbox	info@hdi.land
Six Nations of the Grand River (Haudenosaunee Development Institute)	Todd	Williams	Monitoring Program Coordinator	toddwilliams@hdi.land
Six Nations of the Grand River (Haudenosaunee Development Institute)	Sharann	Martin		sharannmartin@hdi.land
Utilities				
Bell Canada Municipal Operations Centre	Diana	Velez	c/o Netricom	bell.moc@netricom.com
Enbridge Gas Distribution	Meetpal	Chhina	Planning Technical Specialist	meetpal.chhina@enbridge.com
Hydro One Networks Inc				SecondaryLandUse@HydroOne.com
Hydro One Brampton	Linda	Morson	EA Coordinator	lmorson@hydroonebrampton.com
Hydro One Telecom	Ian	Mitchell	EA Coordinator	ian.mitchell@hydroone.com
MTS Allstream	Ian	Fleming	EA Coordinator	utility.circulations@mtsallstream.com
Rogers Cable (Brampton)	Edgar	Henriquez	EA Coordinator	edgar.henriquez@rci.rogers.com
Telus Network	Steve	Hoy	EA Coordinator	Stephen.hoy@telus.com
Blink Communications Inc	Edgar	Henriquez	c/o Rogers Cable	edgar.henriquez@rci.rogers.com
GT Fiber Services Inc	Rayma	Varma	c/o Netricom	gt.moc@prestigetel.com
Hydro One Network Services	Mark	Hamilton	OP&CS Department - OGCC	tpumarkup@hydroone.com
Rogers Cable (Mississauga)	Edgar	Henriquez	EA Coordinator	edgar.henriquez@rci.rogers.com
Telus Network	Max	Pavese	EA Coordinator	max.pavese@telus.com
Union Gas (only area on Ninth Line)	Jeremy	Getson	EA Coordinator	jgetson@uniongas.com
TransCanada PipeLines Ltd.				TCEnergy@mhbcp.com
School Boards				
Peel District School Board	Malon	Edwards	Manager of Communications	malon.edwards@peelsb.com
Dufferin-Peel Catholic District School Board	Stephanie	Cox	Manager of Planning	stephanie.cox@dpcdsb.org
Emergency Services				
Peel Regional Police	Nishan	Duraiappah	Chief	nishan.duraiappah@peelpolice.ca
Peel Regional Police, Research & Development	Cst. Jim	Adams	Operational Planning & Resources	2186@peelpolice.ca
Peel Regional Paramedic Services	Peter F.	Dundas	Chief & Director	peter.dundas@peelregion.ca
Mississauga Fire & Emergency Services	Tim	Beckett	Fire Chief	tim.beckett@mississauga.ca
Other				
Brampton Cycling Advisory Committee	Lisa	Stokes		lisastokes66@gmail.com

AECOM

Federal



From: ONT Environment / Environnement ONT <EnviroOnt@tc.gc.ca>
Sent: Monday, December 5, 2022 11:13 AM
To: Zandvliet, Samantha
Cc: syeda.banuri@peelregion.ca
Subject: RE: Region of Peel Snow Storage Sites Analysis and Conceptual Design Project - Notice of Commencement and PIC
Attachments: Peel Snow Storage_Notice of Commencement and PIC.pdf

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Greetings,

Thank you for your correspondence.

Please note Transport Canada **does not** require receipt of all individual or Class EA related notifications. We are requesting project proponents self-assess if their project:

1. Will interact with a federal property and/or waterway by reviewing the Directory of Federal Real Property, available at www.tbs-sct.gc.ca/dfrp-rbif/; **and**
2. Will require approval and/or authorization under any Acts administered by Transport Canada* available at <http://www.tc.gc.ca/eng/acts-regulations/menu.htm>.

Projects that will occur on federal property prior to exercising a power, performing a function or duty in relation to that project, will be subject to a determination of the likelihood of significant adverse environmental effects, per Section 82 of the *Impact Assessment Act, 2019*.

If the aforementioned does not apply, the Environmental Assessment program should not be included in any further correspondence and future notifications will not receive a response. If there is a role under the program, correspondence should be forwarded *electronically* to: EnviroOnt@tc.gc.ca with a **brief description of Transport Canada's expected role**.

*Below is a summary of the most common Acts that have applied to projects in an Environmental Assessment context:

- **Canadian Navigable Waters Act (CNWA)** – the Act applies primarily to works constructed or placed in, on, over, under, through, or across navigable waters set out under the Act. The Navigation Protection Program administers the CNWA through the review and authorization of works affecting navigable waters. Information about the Program, CNWA and approval process is available at: <http://www.tc.gc.ca/eng/programs-621.html>. Enquiries can be directed to NPPONT-PPNONT@tc.gc.ca or by calling (519) 383-1863.

- **Railway Safety Act (RSA)** – the Act provides the regulatory framework for railway safety, security, and some of the environmental impacts of railway operations in Canada. The Rail Safety Program develops and enforces regulations, rules, standards and procedures governing safe railway operations. Additional information about the Program is available at: <https://www.tc.gc.ca/eng/railsafety/menu.htm>. Enquiries can be directed to RailSafety@tc.gc.ca or by calling (613) 998-2985.
- **Transportation of Dangerous Goods Act (TDGA)** – the transportation of dangerous goods by air, marine, rail and road is regulated under the TDGA. Transport Canada, based on risks, develops safety standards and regulations, provides oversight and gives expert advice on dangerous goods to promote public safety. Additional information about the transportation of dangerous goods is available at: <https://www.tc.gc.ca/eng/tdg/safety-menu.htm>. Enquiries can be directed to TDG-TMDOntario@tc.gc.ca or by calling (416) 973-1868.
- **Aeronautics Act** – Transport Canada has sole jurisdiction over aeronautics, which includes aerodromes and all related buildings or services used for aviation purposes. Aviation safety in Canada is regulated under this Act and the Canadian Aviation Regulations (CARs). Elevated Structures, such as wind turbines and communication towers, would be examples of projects that must be assessed for lighting and marking requirements in accordance with the CARs. Transport Canada also has an interest in projects that have the potential to cause interference between wildlife and aviation activities. One example would be waste facilities, which may attract birds into commercial and recreational flight paths. The *Land Use In The Vicinity of Aerodromes* publication recommends guidelines for and uses in the vicinity of aerodromes, available at: <https://www.tc.gc.ca/eng/civilaviation/publications/tp1247-menu-1418.htm>. Enquires can be directed to tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca or by calling 1 (800) 305-2059 / (416) 952-0230.

Please advise if additional information is needed.

Thank you,

Environmental Assessment Program, Ontario Region

Transport Canada / Government of Canada / 4900 Yonge St., Toronto, ON M2N 6A5

EnviroOnt@tc.gc.ca / Facsimile : (416) 952-0514 / TTY: 1-888-675-6863

Programme d'évaluation environnementale, Région de l'Ontario

Transports Canada / Gouvernement du Canada / 4900, rue Yonge, Toronto, ON, M2N 6A5

EnviroOnt@tc.gc.ca / télécopieur: (416) 952-0514

From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>

Sent: Thursday, December 01, 2022 1:28 PM

Cc: syeda.banuri@peelregion.ca

Subject: Region of Peel Snow Storage Sites Analysis and Conceptual Design Project - Notice of Commencement and PIC

Hello,

The Region of Peel has initiated a Municipal Class Environmental Assessment study to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. The snow storage sites identified will provide near and long-term snow storage solutions that are environmentally sound and acceptable for the Region and its area municipalities.

For further information, please find attached the **Notice of Commencement and Public Information Centre**. To view the Public Information Centre presentation (video), please visit the project webpage: [Study for Snow Storage Sites - Region of Peel \(peelregion.ca\)](#)

We look forward to receiving your input to this study. Please direct any questions or comments to the Region's Project Manager:

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Region of Peel
416 407 7860
syeda.banuri@peelregion.ca

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
D +1-905-390-2047
samantha.zandvliet@aecom.com

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aecom.com

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Provincial



From: Zandvliet, Samantha
Sent: Monday, February 28, 2022 5:10 PM
To: Bell, Trevor (MECP)
Cc: Grueneis, Karl; Gray, Derek; Trenouth, Bill
Subject: RE: Peel Region Snow Storage Facilities - Indigenous Communities

Hi Trevor,

Thank you for confirming the potentially interested Indigenous communities.

Best regards,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
D +1-905-390-2047
samantha.zandvliet@aecom.com

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From: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>
Sent: Monday, February 28, 2022 3:57 PM
To: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Cc: Grueneis, Karl <Karl.Grueneis@aecom.com>; Gray, Derek <Derek.Gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>
Subject: [EXTERNAL] RE: Peel Region Snow Storage Facilities - Indigenous Communities

Good afternoon,

The ministry has identified the following Indigenous communities that may have an interest in your project:

- Mississaugas of the Credit First Nation
- Six Nations of the Grand River (Both the Haudenosaunee Confederacy Chiefs Council and the Haudenosaunee Development Institute).

Please note this is based on information currently available and could change as more information becomes available.

Sincerely,

Trevor Bell | Regional Environmental Planner
*Project Review Unit, Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks*

From: Bell, Trevor (MECP)
Sent: February 17, 2022 12:14 PM
To: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Cc: Grueneis, Karl <Karl.Grueneis@aecom.com>; Gray, Derek <Derek.Gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>
Subject: RE: Peel Region Snow Storage Facilities - Indigenous Communities

Thank you for your email. I sent a request for a list of potentially interested Indigenous communities and I'll respond to you asap.

Thanks,
Trevor

Trevor Bell | Regional Environmental Planner
Project Review Unit, Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
5775 Yonge Street, 8th floor, Toronto ON, M2M 4J1
New Phone: 437-770-3731 | trevor.bell@ontario.ca

From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Sent: February 16, 2022 12:16 PM
To: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>
Cc: Grueneis, Karl <Karl.Grueneis@aecom.com>; Gray, Derek <Derek.Gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>
Subject: Peel Region Snow Storage Facilities - Indigenous Communities

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Hi Trevor,

AECOM has been retained by the Region of Peel to complete a Municipal Class Environmental Assessment (MCEA) for the analysis and preliminary design of snow storage facilities on suitable Peel- and lower-tier municipally-owned properties. The project is considered a Schedule A or pre-approved project, but we are following a process similar to that of a Schedule B project. A long list of snow storage sites will be subject to a screening/evaluation exercise. Confirmed, validated sites will be identified that will provide near and long-term snow storage solutions that are environmentally sound and politically acceptable for the Region in order to safely dispose of any snow removed from the Region's roadways and facilities, while mitigating against undesirable environmental and operational impacts.

Please refer to the Region's webpage for this project, which includes the attached site locations map for the potential snow storage sites currently under consideration: [Municipal Class Environmental Assessment \(MCEA\) study for Snow Storage Sites](#).

At this time, we are requesting that MECP confirm the list of Indigenous Communities that may be interested in the project so that we can include them on our study contact list and for information sharing purposes.

Please note that you will be circulated on future notifications for this project.

Thank you and we look forward to hearing from you.

Best regards,

Samantha Zandvliet

Environmental Planner, Impact Assessment and Permitting

D +1-905-390-2047

samantha.zandvliet@aecom.com

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From: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>
Sent: Thursday, December 29, 2022 3:08 PM
To: Banuri, Syeda
Cc: Battarino, Gavin (MECP); Dufresne, Tina (MECP); Zandvliet, Samantha
Subject: Peel Snow Storage Sites Analysis and Conceptual Design Project - Schedule B Municipal Class EA
Attachments: MECP Response_Notice of Commencement_Snow Storage Sites Analysis and Conceptual Design Project.pdf

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Good afternoon,

Please find attached a letter from the Ministry of the Environment, Conservation and Parks, Environmental Assessment Branch, regarding the above mentioned project. Feel free to contact me directly with any questions or concerns you may have.

Sincerely,

Trevor Bell | Regional Environmental Planner
Project Review Unit, Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
5775 Yonge Street, 8th floor, Toronto ON, M2M 4J1
New Phone: 437-770-3731 | trevor.bell@ontario.ca

Ministry of the Environment,
Conservation and Parks

Environmental Assessment Branch

1st Floor
135 St. Clair Avenue W
Toronto ON M4V 1P5
Tel.: 416 314-8001
Fax.: 416 314-8452

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

*Direction des évaluations
environnementales*

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto ON M4V 1P5
Tél. : 416 314-8001
Télé. : 416 314-8452



December 29, 2022

Syeda Banuri, M.Eng., P.Eng.
Project Manager
Region of Peel
syeda.banuri@peelregion.ca

BY EMAIL ONLY

Re: **Snow Storage Sites Analysis and Conceptual Design Project
Region of Peel
Schedule B Municipal Class Environmental Assessment
Notice of Study Commencement**

Dear Ms. Banuri,

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 the project is following the approved environmental planning process for a Schedule B project under the Municipal Engineers Association's Municipal Class Environmental Assessment (Class EA).

The attached "Areas of Interest" document provides guidance regarding the ministry's interests with respect to the Class EA process. Please identify the areas of interest which are applicable to the project and ensure they are addressed. Proponents who address all the applicable areas of interest can minimize potential delays to the project schedule.

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; and
- Six Nations of the Grand River (Both the Six Nations Elected Council and the Haudenosaunee Confederacy Chiefs Council (HCCC)/Haudenosaunee Development Institute (HDI))

Steps that the proponent may need to take in relation to Aboriginal consultation for the proposed project are outlined in the "[Code of Practice for Consultation in Ontario's Environmental Assessment Process](#)".

Additional information related to Ontario's *Environmental Assessment Act* is available online at: www.ontario.ca/environmentalassessments

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.

The proponent must contact the Director of Environmental Assessment Branch under the following circumstances after 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; or
- A Section 16 Order request is expected based on 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.

Once the 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.

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, Section 16 Order requests on those matters should be addressed in writing to:

Minister David Piccini
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

Please note the project cannot proceed until at least 30 days after the end of the public review period provided for in the Notice of Completion.

Further, the project may not proceed after this time if:

- a Section 16 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.

The public can 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 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 to make a decision or impose conditions on your project.

A draft copy of the report should be sent 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 Central Region EA notification email account (eanotification.cregion@ontario.ca) after the report is finalized.

Should you or your project team members have any questions regarding the material above, please contact me at trevor.bell@ontario.ca.

Sincerely,



Trevor Bell
Regional Environmental Planner

cc: Gavin Battarino, Supervisor (A), Project Review Unit, EAB, MECP
Tina Dufresne, Manager, Halton Peel District Office, MECP
Samantha Zandvliet, Environmental Planner, AECOM

Attachments: Areas of Interest
A Proponent's Introduction to the Delegation of Procedural Aspects of
consultation with Aboriginal Communities

AREAS OF INTEREST

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

Species at Risk

- The Ministry of the Environment, Conservation and Parks has now assumed responsibility of Ontario's Species at Risk program. For any questions related to subsequent permit requirements, please contact SAROntario@ontario.ca.

Planning and Policy

- Ontario has released "A Place to Grow: Growth Plan for the Greater Golden Horseshoe (2019)" which replaces the "Growth Plan for the Greater Golden Horseshoe (2017)". More information, including the Plan, is found here: <https://www.placestogrow.ca>.
- Parts of the study area may be subject to the [A Place to Grow: Growth Plan for the Greater Golden Horseshoe](#) (2019), [Oak Ridges Moraine Conservation Plan](#) (2017), [Niagara Escarpment Plan](#) (2017), [Greenbelt Plan](#) (2017) or [Lake Simcoe Protection Plan](#) (2014). Applicable policies should be referenced in the report, and the proponent should describe how the proposed project adheres to the relevant policies in these plans.
- The [Provincial Policy Statement](#) (2020) contains policies that protect Ontario's natural heritage and water resources. Applicable policies should be referenced in the report, and the proponent should describe how the proposed project is consistent with these policies.

Source Water Protection (all projects)

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: <http://www.applications.ene.gov.on.ca/swp/en/index.php>. 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 Conservation Ontario's website 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 section 1.1 of Ontario Regulation 287/07 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**

Ontario is leading the fight against climate change through the [Climate Change Action Plan](#). Recently released, the plan lays out the specific actions Ontario will take in the next five years to meet its 2020 greenhouse gas reduction targets and establishes the framework necessary to meet its long-term targets. As a commitment of the action plan, **the province has now finalized a guide, "[Considering Climate Change in the Environmental Assessment Process](#)" (Guide).**

The 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 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 "[Community Emissions Reduction Planning: A Guide for Municipalities](#)" 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, an 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 full Air Quality Impact Assessment is not required for the project, the report should still contain:**
 - 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 as 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 [Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities](#). 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.

 - All natural heritage 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:
 - Areas of Natural and Scientific Interest (ANSIs)
 - Rare Species of flora or fauna
 - Watercourses
 - Wetlands
 - Woodlots

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.

□ **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 [Stormwater Management Planning and Design Manual \(2003\)](#) 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 [Water Taking User Guide for EASR](#) 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 [Water Taking User Guide for EASR](#) for more information.

□ **Contaminated Soils**

- 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.
- 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.
- 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.
- The report should identify any underground transmission lines in the study area. The owners should be consulted to avoid impacts to this infrastructure, including potential spills.

□ **Excess Materials Management**

- Activities involving the management of excess soil should be completed in accordance with the MECP's current guidance document titled "[Management of Excess Soil – A Guide for Best Management Practices](#)" (2014).
- All waste generated during construction must be disposed of in accordance with ministry requirements

□ Servicing and Facilities

- 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 the Environmental Approvals Access and Service Integration Branch (EAASIB) to determine whether a new or amended ECA will be required for any proposed infrastructure.
- We recommend referring to the ministry's [environmental land use planning guides](#) 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 SR that identifies concerns that were raised and **describes how they have been addressed by the proponent** throughout the planning process. The Class EA also directs proponents to include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments.

□ Class EA Process

- The report should provide clear and complete documentation of the planning process in order to allow for transparency in decision-making.
- 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 Section 16 Order requests under the

Environmental Assessment Act, although the plan itself would not be.

- 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 **describes how they have been addressed by the proponent** throughout the planning process. The Class EA also directs proponents to include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments.
- The Class EA requires the consideration of the effects of each alternative on all aspects of the environment. The report should include a level of detail (e.g. hydrogeological investigations, terrestrial and aquatic 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, ECAs, and Species at Risk permits, Conservation Authority permits, and approvals under the *Impact Assessment Act*, 2019.
- Ministry guidelines and other information related to the issues above are available at <http://www.ontario.ca/environment-and-energy/environment-and-energy>. We encourage you to review all the available guides and to reference any relevant information in the report.

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 mitigate 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.

From: Zandvliet, Samantha
Sent: Monday, April 15, 2024 1:14 PM
To: Selvakumar, Krishna (MECP)
Cc: Liu, Chunmei (MECP); syeda.banuri@peelregion.ca; Gray, Derek; Trenouth, Bill
Subject: RE: Snow Storage Site Analysis and Conceptual Design Draft PFR

Hi Krish,

Thank you. We will circulate the final report when it is ready.

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
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From: Selvakumar, Krishna (MECP) <Krishna.Selvakumar@ontario.ca>
Sent: Monday, April 15, 2024 8:27 AM
To: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Cc: Liu, Chunmei (MECP) <Chunmei.Liu@ontario.ca>; syeda.banuri@peelregion.ca; Gray, Derek <Derek.Gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>
Subject: Snow Storage Site Analysis and Conceptual Design Draft PFR

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Report Suspicious

Good morning Samantha,

Thank you for sharing the Draft PFR for the Snow Storage Site Analysis and Conceptual Design Project across Peel.

The Draft looks great, and we have no comments at this time. I'm looking forward to receiving the final report.

Kind regards,

Krish Selvakumar, MFC (he/him)
Environmental Resource Planner/Assessment Coordinator
Environmental Assessment Services Section
Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
T: (437) 240-5922 | krishna.selvakumar@ontario.ca



From: Selvakumar, Krishna (MECP) <Krishna.Selvakumar@ontario.ca>
Sent: Tuesday, May 21, 2024 9:30 AM
To: Banuri, Syeda
Cc: Mazzuca, Marco (MECP); Liu, Chunmei (MECP); Gray, Derek; Atcha, Salma; Zandvliet, Samantha
Subject: RE: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024

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Report Suspicious

Good morning Syeda,

Thank you for following up with us!

We have filed away the draft project file report for our records and have no comments at this time.

Best regards,

Krish Selvakumar, MFC (he/him)
Environmental Resource Planner/Assessment Coordinator
Environmental Assessment Services Section
Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
T: (437) 240-5922 | krishna.selvakumar@ontario.ca



From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: May 16, 2024 2:27 PM
To: Selvakumar, Krishna (MECP) <Krishna.Selvakumar@ontario.ca>
Cc: Battarino, Gavin (MECP) <Gavin.Battarino@ontario.ca>; Liu, Chunmei (MECP) <Chunmei.Liu@ontario.ca>; Gray, Derek <derek.gray@aecom.com>; Atcha, Salma <salma.atcha@peelregion.ca>; Zandvliet, Samantha <samantha.zandvliet@aecom.com>
Subject: RE: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024

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Hello Krishna,

I would like to follow up on my previous request forwarded to you by Chunmei of review and comments (if any) for Peel Region's **Schedule B - Municipal Class Environmental Assessment (EA)** [Study for Snow Storage Sites - Region of Peel \(peelregion.ca\)](#)

I will appreciate, if you can advise of your comments and/or questions by **May 25th, 2024**. We would like to file the project by mid June.

Thanks,
Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
Transportation Division, Public Works
10 Peel Centre Drive, Suite B – 4th Floor
Brampton, ON L6T4B9
Syeda.Banuri@peelregion.ca
Cell: 416-407-7860



The Region of Peel is situated on the Treaty Lands and Territory of the Mississaugas of the Credit First Nation as well as the traditional territory of the Anishinabeg, Huron-Wendat and Haudenosaunee peoples.

From: Liu, Chunmei (MECP) <Chunmei.Liu@ontario.ca>
Sent: Friday, April 5, 2024 3:33 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Selvakumar, Krishna (MECP) <Krishna.Selvakumar@ontario.ca>
Cc: Battarino, Gavin (MECP) <Gavin.Battarino@ontario.ca>
Subject: RE: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024

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Thanks for sharing the information with us, Samantha. My colleague Krishna Selvakumar is now responsible for all projects with Halton, Peel and Muskoka areas. Krishna might respond you directly.

Many thanks,

Chunmei Liu (*she/her*) | Regional Environmental Planner

Environmental Assessments Branch, Ontario Ministry of the Environment, Conservation and Parks | 7th Flr, 135 St Clair Ave W, Toronto, ON M4V 1P5 | Chunmei.Liu@ontario.ca | 437-249-3102

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Friday, April 5, 2024 3:29 PM
To: Liu, Chunmei (MECP) <Chunmei.Liu@ontario.ca>; Leclerc, Erika (MCM) <erika.leclerc@ontario.ca>; Barboza, Karla (She/Her) (MCM) <Karla.Barboza@ontario.ca>; Cassie Schembri <Cassie.Schembri@caledon.ca>; ryan.grodecki@caledon.ca; Jeremy Johnson <Jeremy.johnson@caledon.ca>; Brian Baird <brian.baird@caledon.ca>; Delton Zehr <delton.zehr@caledon.ca>; michael.heralall@brampton.ca; Fantin, John <john.fantin@brampton.ca>; Jia.He@brampton.ca; Mohammad, Ghazanfar <Ghazanfar.Mohammad@brampton.ca>; Aiysha.Syed@mississauga.ca; Evelyn.Krolicka@mississauga.ca; tim.gallagher@mississauga.ca
Cc: Atcha, Salma <salma.atcha@peelregion.ca>; Zandvliet, Samantha <samantha.zandvliet@aecom.com>; Gray, Derek <derek.gray@aecom.com>
Subject: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024

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Hi,

Hope all is well at your end.

As, you are aware that the Region of Peel is carrying out a **Schedule B - Municipal Class Environmental Assessment (EA)** [Study for Snow Storage Sites - Region of Peel \(peelregion.ca\)](https://www.peelregion.ca/study-for-snow-storage-sites) to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. Project team has now drafted the **Project File Report** and preliminary design of the 6 preferred sites which is being shared with you for your review and comments.

The draft report and appendices can be accessed at:

[Draft Project File - April 2024](#)

Please, provide your comments by **May 1st**. If you can't access the files or have questions, please let me know.

Thanks,

Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
Transportation Division, Public Works
10 Peel Centre Drive, Suite B – 4th Floor
Brampton, ON L6T4B9
Syeda.Banuri@peelregion.ca
Cell: 416-407-7860



The Region of Peel is situated on the Treaty Lands and Territory of the Mississaugas of the Credit First Nation as well as the traditional territory of the Anishinabeg, Huron-Wendat and Haudenosaunee peoples.

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Tuesday, January 30, 2024 9:26 AM
To: Leclerc, Erika (MCM)
Cc: Barboza, Karla (She/Her) (MCM); Zandvliet, Samantha; Gray, Derek
Subject: RE: MCM Response - Region of Peel Snow Storage Sites Analysis and Conceptual Design Project - Notice of Commencement and PIC

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Report Suspicious

Hi Erica,
Thanks for your response. We will consider and incorporate the guidance provided in your letter to the final Project Report before filing.

Regards,

Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
Transportation Division, Public Works
10 Peel Centre Drive, Suite B – 4th Floor
Brampton, ON L6T4B9
Syeda.Banuri@peelregion.ca
Cell: 416-407-7860



The Region of Peel is situated on the Treaty Lands and Territory of the Mississaugas of the Credit First Nation as well as the traditional territory of the Anishinabeg, Huron-Wendat and Haudenosaunee peoples.

From: Leclerc, Erika (MCM) <erika.leclerc@ontario.ca>
Sent: January 26, 2024 3:45 PM
To: Zandvliet, Samantha <samantha.zandvliet@aecom.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Barboza, Karla (She/Her) (MCM) <Karla.Barboza@ontario.ca>
Subject: MCM Response - Region of Peel Snow Storage Sites Analysis and Conceptual Design Project - Notice of Commencement and PIC

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Dear Samantha Zandvliet

Thank you for sending the Notice of Study Commencement and Public Information Centre for the above-mentioned project to the Ministry of Citizenship and Multiculturalism (MCM). Please find attached MCM's initial letter on this project.

Please do not hesitate to contact us if you have any questions.

Kind regards,

Erika Leclerc (she/her)
Heritage Planner
Ministry of Citizenship and Multiculturalism
(416) 305-0757 | erika.leclerc@ontario.ca

From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Sent: December-01-22 1:28 PM
Cc: syeda.banuri@peelregion.ca
Subject: Region of Peel Snow Storage Sites Analysis and Conceptual Design Project - Notice of Commencement and PIC

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

Hello,

The Region of Peel has initiated a Municipal Class Environmental Assessment study to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. The snow storage sites identified will provide near and long-term snow storage solutions that are environmentally sound and acceptable for the Region and its area municipalities.

For further information, please find attached the **Notice of Commencement and Public Information Centre**. To view the Public Information Centre presentation (video), please visit the project webpage: [Study for Snow Storage Sites - Region of Peel \(peelregion.ca\)](#)

We look forward to receiving your input to this study. Please direct any questions or comments to the Region's Project Manager:

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Region of Peel
416 407 7860
syeda.banuri@peelregion.ca

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
D +1-905-390-2047
samantha.zandvliet@aecom.com

AECOM
45 Goderich Road, Suite 201

**Ministry of Citizenship
and Multiculturalism**

Heritage Planning Unit
Heritage Branch
Citizenship, Inclusion and
Heritage Division
5th Flr, 400 University Ave
Tel.: 416-305-0757

**Ministère des Affaires civiques
et du Multiculturalisme**

Unité de la planification relative au
patrimoine
Direction du patrimoine
Division des affaires civiques, de
l'inclusion et du patrimoine
Tél.: 416-305-0757



January 26, 2024

EMAIL ONLY

Syeda Banuri, M.Eng., P.Eng.
Project Manager
Region of Peel
10 Peel Centre Drive, Suite B
Brampton, ON, L6T 4B9
syeda.banuri@peelregion.ca

MCM File : **0013752**
Proponent : **Region of Peel**
Subject : **Municipal Class Environmental Assessment – Schedule B – Notice
of Study Commencement and Public Information Centre**
Project : **Snow Storage Sites Analysis and Conceptual Design**
Location : **Region of Peel**

Dear Syeda Banuri:

Thank you for providing the Ministry of Citizenship and Multiculturalism (MCM) with the Notice of Study Commencement and Public Information Centre for the above-referenced project.

MCM's interest in this project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- archaeological resources, including land and marine;
- built heritage resources, including bridges and monuments; and
- cultural heritage landscapes.

Under the Environmental Assessment (EA) process, the proponent is required to determine a project's potential impact on known (previously recognized) and potential cultural heritage resources.

Project Summary

The Region of Peel has begun a Municipal Class EA to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. The snow storage sites identified will provide near and long-term snow storage solutions that are environmentally sound and acceptable for the Region and its area municipalities.

In accordance with the Municipal Engineers Association (MEA) Class EA document (October 2000, as amended in 2007, 2011 and 2015) snow storage facilities are “Schedule A” or pre-approved projects. However, the Region is following a Schedule B Municipal Class EA planning framework for this study to allow for the evaluation of snow storage siting opportunities in consultation with key stakeholders, regulatory agencies, and the public.

Identifying Cultural Heritage Resources

While some cultural heritage resources may have already been formally identified, others may be identified through screening and evaluation.

Archaeological Resources

Our records indicate that a Stage 1 archaeological assessment (AA) (under Project Information Form number P123-0463-2021) has been completed for these proposed sites and has been entered into the Ontario Public Register of Archaeological Reports. A Stage 2 AA is recommended for parts of the study area.

Please note that archaeological concerns have not been fully addressed until reports have been entered into the Ontario Public Register of Archaeological Reports, where those reports recommend that:

1. the archaeological assessment of the project area is complete and
2. all archaeological sites identified by the assessment are either of no further cultural heritage value or interest (as per Section 48(3) of the Ontario Heritage Act) or that mitigation of impacts has been accomplished through excavation or an avoidance and protection strategy.

Proponents should wait to receive the MCM's review letter indicating that the report(s) has been entered into the Register before issuing a decision or proceeding with any ground disturbing activities.

Proponents must follow the recommendations of the archaeological assessment report(s). MCM recommends that Stage 2 (and further stages of archaeological assessment, if recommended) be undertaken as early as possible during detailed design and prior to any ground disturbing activities.

Built Heritage Resources and Cultural Heritage Landscapes

The Ministry's [Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes](#) should be completed to help determine whether this EA project may impact known or potential built heritage resources and/or cultural heritage landscapes.

If there is potential for built heritage resources and/or cultural heritage landscapes within the project area, then a Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment should be undertaken for the entire study area during the planning phase and will be summarized in the EA Report. This study will:

1. Describe the existing baseline cultural heritage conditions within the study area by identifying all known or potential built heritage resources and cultural heritage landscapes, including a historical summary of the study area. The Ministry has developed screening criteria that may assist with this exercise: [Criteria for Evaluating for Potential Built Heritage Resources and Cultural Heritage Landscapes](#).
2. Identify preliminary potential project-specific impacts on the known and potential built heritage resources and cultural heritage landscapes that have been identified. The report

should include a description of the anticipated impact to each known or potential built heritage resource or cultural heritage landscape that has been identified.

3. Recommend measures to avoid or mitigate potential negative impacts to known or potential built heritage resources and cultural heritage landscapes. The proposed mitigation measures are to inform the next steps of project planning and design.

Given that this project covers a large study area, MCM recommends that the Cultural Heritage Report is carried out so that step 1 described above is undertaken early in the planning process. Then, steps 2 and 3 can be undertaken once the preferred alternatives have been selected.

Cultural Heritage Reports will be undertaken by a qualified person who has expertise, recent experience, and knowledge relevant to the type of cultural heritage resources being considered and the nature of the activity being proposed.

Community input should be sought to identify locally recognized and potential cultural heritage resources. Sources include, but are not limited to, municipal heritage committees, historical societies and other local heritage organizations.

Cultural heritage resources are often of critical importance to Indigenous communities. Indigenous communities may have knowledge that can contribute to the identification of cultural heritage resources, and we suggest that any engagement with Indigenous communities includes a discussion about known or potential cultural heritage resources that are of value to them.

Environmental Assessment Reporting

All technical cultural heritage studies and their recommendations are to be addressed and incorporated into EA projects. Please advise MCM whether any further technical cultural heritage studies will be completed for this EA project and provide them to MCM before issuing a Notice of Completion or commencing any work on the site. If screening has identified no known or potential cultural heritage resources, or no impacts to these resources, please include the completed checklists and supporting documentation in the EA report or file.

Please note that the responsibility for administration of the *Ontario Heritage Act* and matters related to cultural heritage have been transferred from the Ministry of Tourism, Culture and Sport (MTCS) to the Ministry of Citizenship and Multiculturalism (MCM). Individual staff roles and contact information remain unchanged. Please continue to send any notices, report and/or documentation **via email only** to both Karla Barboza and myself.

- Karla Barboza, Team Lead - Heritage | Heritage Planning Unit (Citizenship and Multiculturalism) | 416-660-1027 | karla.barboza@ontario.ca
- Erika Leclerc, Heritage Planner | Heritage Planning Unit (Citizenship and Multiculturalism) | 416-305-0757 | erika.leclerc@ontario.ca

Thank you for consulting MCM on this project and please continue to do so throughout the EA process. If you have any questions or require clarification, please do not hesitate to contact me.

Sincerely,

Erika Leclerc
Heritage Planner
Erika.leclerc@ontario.ca

Copied to: Samantha Zandvliet, Environmental Planner, AECOM
Karla Barboza, Team Lead – Heritage Planning, MCM

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. The Ministry of Citizenship and Multiculturalism (MCM) makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MCM be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out an archaeological assessment, in compliance with Section 48(1) of the *Ontario Heritage Act*.

The *Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33* requires that any person discovering human remains must cease all activities immediately and notify the police or coroner. If the coroner does not suspect foul play in the disposition of the remains, in accordance with *Ontario Regulation 30/11* the coroner shall notify the Registrar, Ontario Ministry of Public and Business Service Delivery, which administers provisions of that Act related to burial sites. In situations where human remains are associated with archaeological resources, the Ministry of Citizenship and Multiculturalism should also be notified (at archaeology@ontario.ca) to ensure that the archaeological site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Tuesday, April 30, 2024 5:36 PM
To: Minkin, Dan (MCM)
Cc: Gray, Derek; Zandvliet, Samantha
Subject: Re: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024 [MCM File 0013752]
Attachments: image009.png; image007.png; image011.png; image008.png; image012.png

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Hello Dan,
Thank you for your comments. We will consider them in the study.
If you have any questions or further questions, please let us know.
Regards,
Syeda

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From: Minkin, Dan (MCM) <Dan.Minkin@ontario.ca>
Sent: Tuesday, April 30, 2024 5:27 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024 [MCM File 0013752]

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Hello,
Please see our comments attached.

Dan Minkin

Heritage Planner | Heritage Branch
Ministry of Citizenship and Multiculturalism | Ontario Public Service
416-786-7553 | dan.minkin@ontario.ca



Taking pride in strengthening Ontario, its places and its people

From: Banuri, Syeda <syeda.banuri@peelregion.ca>

Sent: April 5, 2024 3:29 PM

To: Liu, Chunmei (MECP) <Chunmei.Liu@ontario.ca>; Leclerc, Erika (MCM) <erika.leclerc@ontario.ca>; Barboza, Karla (She/Her) (MCM) <Karla.Barboza@ontario.ca>; Cassie Schembri <Cassie.Schembri@caledon.ca>; ryan.grodecki@caledon.ca; Jeremy Johnson <Jeremy.johnson@caledon.ca>; Brian Baird <brian.baird@caledon.ca>; Delton Zehr <delton.zehr@caledon.ca>; michael.heralall@brampton.ca; Fantin, John <john.fantin@brampton.ca>; Jia.He@brampton.ca; Mohammad, Ghazanfar <Ghazanfar.Mohammad@brampton.ca>; Aiysha.Syed@mississauga.ca; Evelyn.Krolicka@mississauga.ca; tim.gallagher@mississauga.ca

Cc: Atcha, Salma <salma.atcha@peelregion.ca>; Zandvliet, Samantha <samantha.zandvliet@aecom.com>; Gray, Derek <derek.gray@aecom.com>

Subject: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024

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Hi,

Hope all is well at your end.

As, you are aware that the Region of Peel is carrying out a **Schedule B - Municipal Class Environmental Assessment (EA)** [Study for Snow Storage Sites - Region of Peel \(peelregion.ca\)](#) to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. Project team has now drafted the **Project File Report** and preliminary design of the 6 preferred sites which is being shared with you for your review and comments.

The draft report and appendices can be accessed at:

[Draft Project File - April 2024](#)

Please, provide your comments by **May 1st**. If you can't access the files or have questions, please let me know.

Thanks,

Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
Transportation Division, Public Works
10 Peel Centre Drive, Suite B – 4th Floor
Brampton, ON L6T4B9
Syeda.Banuri@peelregion.ca
Cell: 416-407-7860



The Region of Peel is situated on the Treaty Lands and Territory of the Mississaugas of the Credit First Nation as well as the traditional territory of the Anishinabeg, Huron-Wendat and Haudenosaunee peoples.

**Ministry of Citizenship
and Multiculturalism**

Heritage Planning Unit
Heritage Branch
Citizenship, Inclusion and
Heritage Division
5th Flr, 400 University Ave
Tel.: 416-786-7553

**Ministère des Affaires civiques
et du Multiculturalisme**

Unité de la planification relative au
patrimoine
Direction du patrimoine
Division des affaires civiques, de
l'inclusion et du patrimoine
Tél.: 416-786-7553



April 30, 2024

EMAIL ONLY

Syeda Banuri, M.Eng., P.Eng.
Project Manager
Region of Peel
10 Peel Centre Drive, Suite B
Brampton, ON, L6T 4B9
syeda.banuri@peelregion.ca

MCM File : **0013752**
Proponent : **Region of Peel**
Subject : **Municipal Class Environmental Assessment – Schedule B – Notice
of Study Commencement and Public Information Centre**
Project : **Snow Storage Sites Analysis and Conceptual Design**
Location : **Region of Peel**

Dear Syeda Banuri:

Thank you for providing the Ministry of Citizenship and Multiculturalism (MCM) with the draft Project File Report (PFR) for the above-referenced project.

MCM's interest in this project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- archaeological resources, including land and marine;
- built heritage resources, including bridges and monuments; and
- cultural heritage landscapes.

We have reviewed the draft PFR (dated April 2024, prepared by AECOM), including the Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment (dated November 2023, prepared by AECOM) included in Appendix F, and offer the following comments.

Project Summary

The Region of Peel has begun a Municipal Class EA to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. The snow storage sites identified will provide near and long-term snow storage solutions that are environmentally sound and acceptable for the Region and its area municipalities.

Comments: PFR Body

- We acknowledge that the Stage 1 Archaeological Assessment report prepared under Project Information Form number P123-0463-2021 and included in Appendix E of the draft PFR has been entered into the Ontario Public Register of Archaeological Reports, and that the draft PFR includes appropriate commitments for the completion of further assessment and the possibility of archaeological resources being unexpectedly encountered during construction. However, it appears that Site 10 (7120 Hurontario Street) was not included in the Stage 1 Archaeological Assessment, in spite of being part of the preferred alternative. The outstanding need for archaeological assessment there is not reflected in Section 7.9. We recommend that this location be screened for archaeological potential, and if necessary subjected to Stage 1 Archaeological Assessment, as soon as possible, so that the findings can be incorporated into the final version of the PFR.
- In Table 6-3, it is unclear why the row for Site 11 makes no mention of the archaeological status of the site as either an advantage or disadvantage.
- As the completion of archaeological assessment is not a permit or approval per se, we suggest renaming Table 7-5 to “Permits, Approvals and Legislative Requirements”.

Comments: Appendix F

- As cultural heritage reports such as this rely to some degree on the expertise of their authors, they should include a section summarizing the qualifications of the staff involved in their preparation, including each staff member’s individual role in the report.

Thank you for consulting MCM on this project and please continue to do so throughout the EA process. If you have any questions or require clarification, please do not hesitate to contact me.

Sincerely,

Dan Minkin
Heritage Planner
dan.minkin@ontario.ca

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. The Ministry of Citizenship and Multiculturalism (MCM) makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MCM be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out an archaeological assessment, in compliance with Section 48(1) of the *Ontario Heritage Act*.

The *Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33* requires that any person discovering human remains must cease all activities immediately and notify the police or coroner. If the coroner does not suspect foul play in the disposition of the remains, in accordance with *Ontario Regulation 30/11* the coroner shall notify the Registrar, Ontario Ministry of Public and Business Service Delivery, which administers provisions of that Act related to burial sites. In situations where human remains are associated with archaeological resources, the Ministry of Citizenship and Multiculturalism should also be notified (at archaeology@ontario.ca) to ensure that the archaeological site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.

AECOM

Town of Caledon



From: Gray, Derek
Sent: Tuesday, March 2, 2021 10:58 AM
To: ghazanfar.mohammad@brampton.ca; bino.varghese@brampton.ca;
tim.gallagher@mississauga.ca; tim.manley@caledon.ca
Cc: Grueneis, Karl; Zandvliet, Samantha; Trenouth, Bill; Waz, Anna; Banuri, Syeda
Subject: Peel Snow Storage Sites - 13-4007B and 60646784
Attachments: 60646748_PSS_Sites1to9_20210223.pdf

Good morning, I hope this email finds you well.

I'm reaching out on behalf of Syeda Banuri from the Region of Peel (Peel), whom most of you have dealt with previously for snow storage sites across the Region. AECOM has been retained by Peel as their consultant to undertake and complete the necessary studies to evaluate and validate the functional snow storage opportunities at the selected Peel (and one Caledon) owned properties for the near and long-term from an environmental, social, economic and technical perspective. The project will follow a similar planning process as the *Schedule "B"* Municipal Class Environmental Assessment (EA) process although it is considered a *Schedule "A"* or pre-approved project.

I wanted to reach out to you at this time to provide preliminary introductions and advise you of the current status of the project. I am the designated project manager and will be supported by Bill Trenouth, who is our deputy project manager/LID/SWM Lead and Karl Grueneis our EA lead. Both are cc'd in this email, along with Anna Waz and Samantha Zandvliet who are supporting the project.

You may recall from previous discussions with Syeda that a total of nine sites were identified during a preliminary internal screening completed by Peel Staff to be included in this study. The nine sites are represented in the attached Map package. Please note that the information presented in the attached is preliminary and is intended to facilitate meaningful discussions with stakeholders. Information for each site will continue to evolve as the project progresses and will be revised/refined through your input.

Since this work will be proceeding as a Schedule 'B' EA, the scope of work includes a myriad of studies including - but not limited to - the natural environment, archaeology, cultural heritage, hydrogeological, geotechnical and contaminated site assessment, source protection, subsurface utility investigations, topographic survey, fluvial geomorphology, stormwater, and traffic management along with public and agency consultation. It is anticipated that four or five of the sites will be validated and selected to proceed to preliminary design, which will also be completed through this assignment.

Recently, construction was completed at one of the Region's first snow storage sites along Charleston Sideroad west of Main Street/Cataract Road in Caledon. This site which was designed by AECOM and included a bioswale to manage both water quality and quantity from the site, in addition to treating snowmelt.

At this time we are currently wading through a significant amount of data that Peel has provided us for the nine sites and reaching out to other stakeholders. Given the ongoing COVID-19 pandemic our field program is being carefully considered to ensure the health and safety of staff at AECOM, Peel and other external stakeholders.

The plan is to set up a meeting with you in the not too distant future to review the sites and the project.

If you have any questions or concerns I'm available at your convenience. The best way to reach me is via email.

Stay well,

Derek R. Gray, P.Eng., A.A.E

Manager, Water Resources and Resiliency

derek.gray@aecom.com

Cell # 416 452 5390



5090 Explorer Drive

Suite 1000

Mississauga, Ontario

L4W 4X6

www.aecom.com

Imagine it. Delivered.

From: Gray, Derek
Sent: Thursday, September 22, 2022 2:20 PM
To: 'Heather Savage'; Brian Baird; Patrick Rees; Banuri, Syeda; Trenouth, Bill; Crawford, Mark; 'Zia, Solmaz'; 'Gardiner, Len'; 'Eberhardt, Daniel'; 'lori-ann.thomsen@peelregion.ca'; 'nancy.cotton@peelregion.ca'; Jyoti Pathak
Subject: RE: Peel Snow Storage and Johnston Sports Park - 13-4007B and 60646784
Attachments: JSP Master Plan - Snow Storage Location.pdf; Johnston Sports Park - P4.pdf

Folks, a brief summary of our call from Tuesday. Please feel free to provide updates for any material errors and omissions.

Caledon had provided AECOM/Peel with Master Plan for JSP (by the mbtw group dated January 2011 attached) after receiving the draft reports associated with the ongoing EA process. The development of JSP according to this master plan is expect to start in about 5 years with the Indoor Soccer Facility Building A likely being constructed beyond 10 years. As such it is no longer a viable investment for Peel in the area originally contemplated.

Following an exchange of emails AECOM had developed a strawman of a potential snow storage area in parking lot P4 (attached) to facilitate further discussions between Caledon and Peel. P4 was originally selected Proximity to existing SWMF and away from Lindsay Creek, partially developed Existing surface and good access from King St now and Centreville Creek Road in the future.

Discussion of the other snow storage in the other parking lots except for P3 due to the proximity of the Johnston Residence and a heritage tree.

Caledon and Peel are both in favour of additional potential snow storage areas in P2, P5, P6 and P7. However most of these parking lots must be available for beginning of May and may require operational controls as well as additional snow handling to achieve this. To date the stormwater management approach has only considered passive melting.

The layering of use of the site will need to be better understood with snow removal operations by Caledon and Peel and the potential use of the soccer fields in the early spring or late fall as they will have lighting.

AECOM will discuss with Peel the potential of creation of strawman of snow storage in P2, P5, P6 and P7 to future discussion around construction and funding.

Stay well,

Derek R. Gray, P.Eng., A.A.E.
Climate Change Specialist
derek.gray@aecom.com

I work flexibly. I am sending this message now because it suits me. I do not expect you to read, action or respond out of your own working hours. The best way to reach me is via email as my office hours are generally Tuesday afternoon till end of business Thursday afternoon.

-----Original Appointment-----

From: Gray, Derek
Sent: August 18, 2022 11:38 AM
To: Gray, Derek; Heather Savage; Brian Baird; Banuri, Syeda; Trenouth, Bill; Crawford, Mark; Zia, Solmaz; Gardiner, Len;

Eberhardt, Daniel; lori-ann.thomsen@peelregion.ca; nancy.cotton@peelregion.ca

Cc: Patrick Rees; Jyoti Pathak

Subject: Peel Snow Storage and Johnston Sports Park - 13-4007B and 60646784

When: September 20, 2022 1:00 PM-1:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

Agenda:

- Intros
- JSP Development and schedule (5-10 yrs)
- Potential snow storage at P4
 - Reasons shortlisted
 - Proximity to existing SWMF and away from Lindsay Creek
 - Existing surface
 - Good access from King St now and Centreville Creek Road in the future
- Joint use of site – snow quantities
- Other business

Derek

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[\(877\) 267-9915,,36964345#](#) Canada (Toll-free)

Phone Conference ID: 369 643 45#

[Find a local number](#) | [Reset PIN](#)

[Learn More](#) | [Meeting options](#)

From: Heather Savage <Heather.Savage@caledon.ca>

Sent: August 17, 2022 4:16 PM

To: Gray, Derek <Derek.Gray@aecom.com>; Brian Baird <brian.baird@caledon.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Trenouth, Bill <bill.trenouth@aecom.com>; Crawford, Mark <mark.crawford@peelregion.ca>
Subject: [EXTERNAL] RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

Hello Derek.

Jyoti, Brian and I are available to meet at the following times:

Tuesday August 23, 3pm
Thursday August 25, 1pm
Tuesday September 13, 10am

Thanks.

Heather Savage (*she/her/Ms.*)
Director, Community Services
Community Services Department

905.584.2272 x.4815
416.951.0117

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From: Gray, Derek <Derek.Gray@aecom.com>
Sent: Tuesday, August 16, 2022 4:34 PM
To: Brian Baird <brian.baird@caledon.ca>; Heather Savage <Heather.Savage@caledon.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Trenouth, Bill <bill.trenouth@aecom.com>; Crawford, Mark <mark.crawford@peelregion.ca>
Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

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Brian, given the 5-10year time frame indicated, it seems that P4 is the only viable potential site. I'd suggest that AECOM take a look at what the snow storage area would look like in P4 and we'll get back to you.

Stay well,

Derek R. Gray, P.Eng., A.A.E.
Climate Change Specialist
derek.gray@aecom.com

I work flexibly. I am sending this message now because it suits me. I do not expect you to read, action or respond out of your own working hours. The best way to reach me is via email as my office hours are generally Tuesday afternoon till end of business Thursday afternoon.

From: Brian Baird <brian.baird@caledon.ca>
Sent: August 16, 2022 4:11 PM
To: Gray, Derek <Derek.Gray@aecom.com>; Heather Savage <Heather.Savage@caledon.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Trenouth, Bill <bill.trenouth@aecom.com>; Crawford, Mark <mark.crawford@peelregion.ca>

Subject: [EXTERNAL] Re: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

Hi Derek

I will defer to Heather and Jyoti to speak to timing however based on my experience an elite outdoor facility will likely be on the 5 year horizon and an indoor facility on 10 year.

As Bill pointed P4 May be a potential site. I think the original Town's thinking on this was that the gravel parking lots could be planned to use for snow storage as a win-win to have some capacity for Town use as well and the parking lots would be paved as part of the project.

Brian

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From: Gray, Derek <Derek.Gray@aecom.com>

Sent: Tuesday, August 16, 2022 3:51:49 PM

To: Brian Baird <brian.baird@caledon.ca>; Heather Savage <Heather.Savage@caledon.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>

Cc: Trenouth, Bill <bill.trenouth@aecom.com>; Crawford, Mark <mark.crawford@peelregion.ca>

Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

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Brian, doesn't seem like there is much space left.

Is there an overall schedule of when the expansion will happen? This would be in case there could be temporary usage.

Granular Parking lots 3 and 4 could be potential areas but at the Charleston Sideroad we actually paved the area.

Stay well,

Derek R. Gray, P.Eng., A.A.E.

Climate Change Specialist

derek.gray@aecom.com

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From: Brian Baird <brian.baird@caledon.ca>

Sent: August 16, 2022 2:40 PM

To: Gray, Derek <Derek.Gray@aecom.com>; Heather Savage <Heather.Savage@caledon.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>

Cc: Trenouth, Bill <bill.trenouth@aecom.com>; Crawford, Mark <mark.crawford@peelregion.ca>

Subject: [EXTERNAL] RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

Hi Derek,

Attached is the site plan for JSP. Our Manager of Parks, Jyoti Pathak highlighted the snow storage area that has been contemplated over Areas A and B of the site plan.

Brian Baird, OALA
Director, Operations
Operations

Office: 905.584.2272 x 4209
Email: brian.baird@caledon.ca

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From: Gray, Derek <Derek.Gray@aecom.com>
Sent: Tuesday, August 16, 2022 2:14 PM
To: Brian Baird <brian.baird@caledon.ca>; Heather Savage <Heather.Savage@caledon.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Trenouth, Bill <bill.trenouth@aecom.com>; Crawford, Mark <mark.crawford@peelregion.ca>
Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

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Brian, good afternoon. I am following up to setting up a meeting about the planned expansion at Johnston Sports Park. In advance of the meeting are there conceptual drawings of the planned expansion that can be provided so we can be prepared for the meeting?

Also are there some windows of time that work for the Caledon team over the next few weeks?

Stay well,

Derek R. Gray, P.Eng., A.A.E.
Climate Change Specialist
derek.gray@aecom.com

I work flexibly. I am sending this message now because it suits me. I do not expect you to read, action or respond out of your own working hours. The best way to reach me is via email as my office hours are generally Tuesday afternoon till end of business Thursday afternoon.

From: Brian Baird <brian.baird@caledon.ca>
Sent: August 5, 2022 11:59 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Heather Savage <Heather.Savage@caledon.ca>; Trenouth, Bill <bill.trenouth@aecom.com>; Gray, Derek <Derek.Gray@aecom.com>; Crawford, Mark <mark.crawford@peelregion.ca>
Subject: [EXTERNAL] RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

Thanks Syeda. Heather Savage, Director of Community Services would need to be part of the discussion.

Brian Baird, OALA
Director, Operations
Operations

Office: 905.584.2272 x 4209
Email: brian.baird@caledon.ca

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Friday, August 5, 2022 11:55 AM
To: Brian Baird <brian.baird@caledon.ca>
Cc: Heather Savage <Heather.Savage@caledon.ca>; Trenouth, Bill <bill.trenouth@aecom.com>; Gray, Derek <Derek.Gray@aecom.com>; Crawford, Mark <mark.crawford@peelregion.ca>
Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

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Hi Brian,
Thanks for contacting me and letting me know of your concerns. Yes, we can set up a meeting for us to discuss this further in detail with the Town and confirm what could be done with this site moving forward. AECOM's Derek or Bill will be in touch shortly to set up the meeting.
Regards,

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri@peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Brian Baird <brian.baird@caledon.ca>
Sent: August 5, 2022 11:43 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Savage, Heather <heather.savage@caledon.ca>
Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

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Hi Syeda,

Can we have a discussion regarding the Town's Johnston Sports Park site?

The area outlined in the attached is planned for an elite soccer field and indoor facility that would not be suitable as a snow storage site.

I thought the original discussion was regarding use of the seasonal parking lots on the site.

Thanks,

Brian Baird, OALA
Director, Operations

Operations

Office: 905.584.2272 x 4209
Email: brian.baird@caledon.ca

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From: Banuri, Syeda <syeda.banuri@peelregion.ca>

Sent: Thursday, August 4, 2022 5:06 PM

To: Crawford, Mark <mark.crawford@peelregion.ca>; Carrick, Sean <sean.carrick@peelregion.ca>; Zia, Solmaz <solmaz.zia@peelregion.ca>; Lovisotto, Sandy <sandy.lovisotto@peelregion.ca>; Despina, Christopher <christopher.despins@peelregion.ca>; Saini, Sakshi <sakshi.saini@peelregion.ca>; Saiyed, Sabbir <sabbir.saiyed@peelregion.ca>; Turner, William <william.turner@peelregion.ca>; Kovach, Steven <steven.kovach@peelregion.ca>; Bennington, Michael <michael.bennington@peelregion.ca>; Polga, Miriam <miriam.polga@peelregion.ca>; ZG-Peel Health & Built Environment <zzg-peelhealthbuiltenvironment@peelregion.ca>; ZG-PWI <pwi@peelregion.ca>; Crawford, Heather <heather.crawford@peelregion.ca>; Saddi, Asha <asha.saddi@peelregion.ca>; Lavhey, James <james.lavhey@peelregion.ca>; Jamroz, Damian <damian.jamroz@peelregion.ca>; Lanthier, Jennifer <jennifer.lanthier@peelregion.ca>; Estephan, Therese <therese.estephan@peelregion.ca>; Kilis, Jakub <Jakub.kilis@cvc.ca>; Emma Benko <emma.benko@trca.ca>; Cassie Schembri <Cassie.Schembri@caledon.ca>; Ryan Grodecki <Ryan.Grodecki@caledon.ca>; Aiysha Syed <Aiysha.Syed@mississauga.ca>; Jeremy Johnson <Jeremy.Johnson@caledon.ca>; Brian Baird <brian.baird@caledon.ca>; Smith, Neal <neal.smith@peelregion.ca>; Gardiner, Len <len.gardiner@peelregion.ca>; Perez, Julian <julian.perez@peelregion.ca>; Eberhardt, Daniel <daniel.eberhardt@peelregion.ca>; Heralall, Michael <Michael.Heralall@brampton.ca>

Cc: Rook, Sally <sally.rook@peelregion.ca>; Trenouth, Bill <bill.trenouth@aecom.com>; Gray, Derek <Derek.Gray@aecom.com>; Waz, Anna <anna.waz@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>

Subject: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the contents to be safe.

Dear all,

The Region of Peel has retained AECOM Canada to undertake and complete the necessary studies to evaluate and validate the snow storage function at the selected Region of Peel (and one Town of Caledon) owned existing properties for the near and long-term snow storage solutions that are environmentally sound and viable from social, economic and technical perspective. The project is following a similar planning process as *Schedule "B"* Municipal Class Environmental Assessment (EA) process although it is considered a *Schedule "A"* or pre-approved project. We have now completed Part I of the project and prepared draft background studies' reports.. We will be conducting a Technical advisory Committee meeting in August followed by a PIC in Fall 2022. The draft reports are available for your review and comments at the link provided below to download.

Link: <https://we.tl/t-nuEyhfXEry>

It is recommended to please, download the files at your earliest before the link expires. If you can't access the files, please let me or Bill Trenouth know. We will appreciate your comments **by no later than August 26, 2022.**

Project Background:

The Region of Peel owns and maintains 1,663 lane-kilometers across 26 Regional Roads, which includes 103 bridges. As part of the comprehensive maintenance of this vital transportation network, the Region provides a high level of service for winter clearing of snow using a 24-hour immediate response program to clear snow, following the "Class 1 bare pavement" standards, which have been approved by Regional Council. After winter storm events, snow accumulation on boulevards restricts sightlines, impede on-street parking and the use of sidewalks and multi-use trails in some areas. These issues are particularly pronounced in areas with limited boulevard widths following ploughing operations.

The Region's Operations staff also remove snow from bridges. The Region hauls and stores approximately 2,000-3,000 tonnes of snow from its roadways and bridges annually, and that amount could increase with multi-modal transportation initiatives planned for man right-of-way areas.

The Region's traditional snow storage areas are no longer available or environmentally appropriate for use, and as such the Region is looking to develop: a) sites for snow storage and b) to create environmentally sound and sustainable solutions for managing the snowmelt from such facilities according to applicable standards and best management practices.

The Agency has shortlisted nine (9) Regional (or publicly) owned properties to be considered for snow storage purposes along with other existing or future uses. The sites are:

- Hwy 50 Carpool lot
- Becket Sproule Reservoir and Pumping Station
- West Brampton Reservoir and Pumping Station
- Clarkson Wastewater Treatment Plant
- Johnston Sports Park (owned by the Town of Caledon)
- Tullamore Reservoir and Pumping Station
- Hanlan West (Future Water Reservoir and Pumping Station Expansion site)
- 220 Westcreek Boulevard, Brampton
- Alloa Reservoir and Pumping Station

(Unless noted otherwise, all sites listed above are owned by the Region).

Considering the potential environmental and social impacts associated with the creation of snow storage facilities, the Region has retained AECOM Canada Ltd. (AECOM) to evaluate all candidate sites according the Schedule B Municipal Class EA process. Further, sites which are deemed suitable for snow storage development will undergo preliminary design, at which point the Class EA process will be completed and the Region may elect to proceed with detailed design for any viable sites which remain. The project team undertook extensive initial consultation with various Regional of Peel and Town of Caledon departments in order to identify any early triggers which would preclude any of the candidate sites from further consideration. Through this process, **four** of the nine initial sites were eliminated from further consideration. As part of the initial assessment for the remaining sites, AECOM has completed a number of studies which will inform their assessment through the EA process. Studies completed include:

- Traffic Assessment
- Cultural Heritage Assessment
- Archaeological Assessment (Stage I)
- Fluvial Geomorphological Assessment
- Geotechnical Assessment
- Hydrogeological Assessment
- Soils Assessment
- Storm Drainage Assessment

A link to download these reports is provided above and as the identified Technical Advisory Committee (TAC) member from your respective agency, it is kindly requested that you review these reports in advance of our next TAC consultation meeting, which is proposed to be held in late August/early September. Please look for a calendar invite for the next TAC meeting in a separate email.

If you have any comments or questions, please let me know.
Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies

Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Gray, Derek <Derek.Gray@aecom.com>

Sent: February 17, 2021 2:59 PM

To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Crawford, Mark <mark.crawford@peelregion.ca>; Rook, Sally <sally.rook@peelregion.ca>; Carrick, Sean <sean.carrick@peelregion.ca>; Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>; Lovisotto, Sandy <sandy.lovisotto@peelregion.ca>; Thomsen, Lori-Ann <lori-ann.thomsen@peelregion.ca>; Despina, Christopher <christopher.despina@peelregion.ca>; Saiyed, Sabbir <sabbir.saiyed@peelregion.ca>; Saini, Sakshi <sakshi.saini@peelregion.ca>; Glass, John <john.glass@peelregion.ca>; Hennings, Jeff <jeff.hennings@peelregion.ca>; Kovach, Steven <steven.kovach@peelregion.ca>; Bennington, Michael <michael.bennington@peelregion.ca>; Polga, Miriam <miriam.polga@peelregion.ca>; Estephan, Therese <therese.estephan@peelregion.ca>; Thomsen, Jeanne <jeanne.thomsen@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; ZZG-Peel Health & Built Environment <zzg-peelhealthbuiltenvironment@peelregion.ca>; ZZG-PWI <pwi@peelregion.ca>; Lavhey, James <james.lavhey@peelregion.ca>; Jamroz, Damian <damian.jamroz@peelregion.ca>

Cc: Detaramani, Tina <tina.detaramani@peelregion.ca>; Saddi, Asha <asha.saddi@peelregion.ca>; Trenouth, Bill <bill.trenouth@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>; Godard, Michael <Michael.Godard@aecom.com>; Mbai, Michelle <michelle.mbai@aecom.com>; Waz, Anna <anna.waz@aecom.com>; Ahn, Taesang <Taesang.Ahn@aecom.com>

Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - PROJECT KICKOFF 60646784

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Folks, attached please find the finalized minutes of our meeting.

At this time we are waiting information of the Peel Staff that will be assisting as members of the Project Technical Advisory Committee.

If you have any questions or concerns I'm available at your convenience. The best way to reach me is via email.

Stay well,

Derek R. Gray, P.Eng., A.A.E

Manager, Water Resources and Resiliency

derek.gray@aecom.com

Cell # 416 452 5390

From: Gray, Derek

Sent: Wednesday, February 3, 2021 5:05 PM

To: 'Banuri, Syeda' <syeda.banuri@peelregion.ca>; Crawford, Mark <mark.crawford@peelregion.ca>; Rook, Sally <sally.rook@peelregion.ca>; Carrick, Sean <sean.carrick@peelregion.ca>; Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>; Lovisotto, Sandy <sandy.lovisotto@peelregion.ca>; Thomsen, Lori-Ann <lori-ann.thomsen@peelregion.ca>; Despina, Christopher <christopher.despina@peelregion.ca>; Saiyed, Sabbir <sabbir.saiyed@peelregion.ca>; Saini, Sakshi <sakshi.saini@peelregion.ca>; Glass, John <john.glass@peelregion.ca>;

Hennings, Jeff <jeff.hennings@peelregion.ca>; Kovach, Steven <steven.kovach@peelregion.ca>; Bennington, Michael <michael.bennington@peelregion.ca>; Polga, Miriam <miriam.polga@peelregion.ca>; Estephan, Therese <therese.estephan@peelregion.ca>; Thomsen, Jeanne <jeanne.thomsen@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; ZZG-Peel Health & Built Environment <zzg-peelhealthbultenvironment@peelregion.ca>; ZZG-PWI <pwi@peelregion.ca>; Lavhey, James <james.lavhey@peelregion.ca>; Jamroz, Damian <damian.jamroz@peelregion.ca>

Cc: Detaramani, Tina <tina.detaramani@peelregion.ca>; Saddi, Asha <asha.saddi@peelregion.ca>; Trenouth, Bill <bill.trenouth@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>; Godard, Michael <Michael.Godard@aecom.com>; Mbai, Michelle <michelle.mbai@aecom.com>; Waz, Anna <anna.waz@aecom.com>; Ahn, Taesang <Taesang.Ahn@aecom.com>

Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - PROJECT KICKOFF 60646784

Folks, good afternoon.

Attached please find the draft minutes from the kickoff meeting along with the current Issues Maps, request for information tracking sheet, slides from the meeting and updated draft schedule.

Please review the minutes and advise if there are any material errors or omissions. Due to the size of the group we didn't get all of the titles so if yours is missing, please let us know.

In the request for information tracking sheet rows have been highlighted for areas where we haven't received the information yet.

Feel free to start providing comments on the sites. When we had prepared the proposal the issues maps were intended to track information and drive input from the stakeholders.

If you have any questions or concerns I'm available at your convenience. The best way to reach me is via email.

Stay well,

Derek R. Gray, P.Eng., A.A.E

Manager, Water Resources and Resiliency

derek.gray@aecom.com

Cell # 416 452 5390

-----Original Appointment-----

From: Banuri, Syeda <syeda.banuri@peelregion.ca>

Sent: Tuesday, January 12, 2021 11:00 AM

To: Banuri, Syeda; Crawford, Mark; Rook, Sally; Carrick, Sean; Nieuwenhuysen, Bob; Lovisotto, Sandy; Thomsen, Lori-Ann; Despina, Christopher; Saiyed, Sabbir; Saini, Sakshi; Glass, John; Hennings, Jeff; Kovach, Steven; Bennington, Michael; Polga, Miriam; Estephan, Therese; Thomsen, Jeanne; Lee, Anna (Public Works); ZZG-Peel Health & Built Environment; ZZG-PWI; Lavhey, James; Jamroz, Damian

Cc: Detaramani, Tina; Saddi, Asha; Gray, Derek; Trenouth, Bill; Grueneis, Karl

Subject: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - PROJECT KICKOFF

When: Tuesday, January 26, 2021 1:30 PM-3:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

Subject: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN

Hi All,

The Region of Peel has retained AECOM Canada to undertake and complete the necessary studies to evaluate and validate the snow storage function at the selected Region of Peel (and one Town of Caledon) owned existing properties for the near and long-term snow storage solutions that are environmentally sound and viable from social, economic and technical perspective. The project will follow a similar planning process as *Schedule "B"* Municipal Class Environmental Assessment (EA) process although it is considered a *Schedule "A"* or pre-approved project.

A total of *nine* sites were identified during a preliminary internal screening completed by the Region Staff included in this study. The nine sites are represented in the attached Map package. Please, note that the information presented is preliminary in order to engage meaningful discussions with internal and (eventually) external stakeholders. It will continue to evolve as the project progresses and will be revised/refined through your input. As this work will be proceeding as a Schedule 'B', the scope of work includes a myriad of studies including but not limited to the natural environment, archaeology, cultural heritage, hydrogeological, geotechnical and contaminated site assessment, source protection, subsurface utility investigations, topographic survey, fluvial geomorphology, stormwater, and traffic management along with public and agency consultation. It is anticipated that the validated sites which qualify for developing a small snow storage facility along with other existing or future uses will be considered for preliminary design completed through this assignment.

The project is anticipated to be completed over a year and a half. **Project Kick-off meeting** is now scheduled to introduce the project and confirm a Technical Advisory Committee which will participate and provide valuable input throughout the project. We would like to engage yourself and/or your staff and would hope you are able to designate a single point of contact to work with us through this year on this exciting project. Please, also advise if I have missed anyone on the circulation and forward the meeting invitation.

If you need further information and have any questions or comments, please let me know.

Thanks.

Syeda Banuri, M.Eng., P.Eng.

Project Manager, Infrastructure Programming and Studies

Transportation, Public Works

10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9

syeda.banuri@peelregion.ca

tel: 905-791-7800, ext. 4052

cell: 416-407-7860



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[+1 289-401-3582,,639673538#](#) Canada, Brampton

[\(844\) 589-6880,,639673538#](#) Canada (Toll-free)

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: August 15, 2024 2:14 PM
To: Cassie Schembri; Ryan.Grodecki@caledon.ca; Brian Baird;
Aiysha.Syed@mississauga.ca; tim.gallagher@mississauga.ca; Imran.Salam@caledon.ca
Cc: Gray, Derek; Atcha, Salma; Zandvliet, Samantha
Subject: RE: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024

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Report Suspicious

Hi all,

Hope all is well. We are trying to finalize and wrap up the Peel Snow Storage Sites EA and Pre-Design project this fall and was looking at any last-minute comments or concerns that you may have with our recommendations so that we can address them before filing the project.

Please, note that we have not received any comments from you for the final draft shared with you in April 2024. If we missed your comments, please re-send to me at your earliest convenience.

Thanks.

Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
Transportation Division, Public Works
10 Peel Centre Drive, Suite B – 4th Floor
Brampton, ON L6T4B9
Syeda.Banuri@peelregion.ca
Cell: 416-407-7860



The Region of Peel is situated on the Treaty Lands and Territory of the Mississaugas of the Credit First Nation as well as the traditional territory of the Anishinabeg, Huron-Wendat and Haudenosaunee peoples.

From: Banuri, Syeda
Sent: Thursday, May 16, 2024 5:03 PM
To: Cassie.Schembri <Cassie.Schembri@caledon.ca>; Ryan.Grodecki@caledon.ca; Brian Baird <brian.baird@caledon.ca>; Delton Zehr <delton.zehr@caledon.ca>; Aiysha.Syed@mississauga.ca; tim.gallagher@mississauga.ca; Imran.Salam@caledon.ca
Cc: Gray, Derek <derek.gray@aecom.com>; Atcha, Salma <salma.atcha@peelregion.ca>; samantha.zandvliet <samantha.zandvliet@aecom.com>
Subject: FW: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024

Hi,

I am following up on my email sent below. It is a kind reminder to please, provide us with your comments as we will be moving ahead to file the project in mid June.

I will appreciate if you can send me your comments by May 25, 2024.

Thanks,

Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
Transportation Division, Public Works
10 Peel Centre Drive, Suite B – 4th Floor
Brampton, ON L6T4B9
Syeda.Banuri@peelregion.ca
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From: Banuri, Syeda

Sent: Friday, April 5, 2024 3:29 PM

To: Chunmei.Liu@ontario.ca; Leclerc, Erika (MCM) <erika.leclerc@ontario.ca>; Barboza, Karla (MHSTCI) <Karla.Barboza@ontario.ca>; Cassie Schembri; ryan.grodecki@caledon.ca; Jeremy Johnson <Jeremy.johnson@caledon.ca>; Brian Baird <brian.baird@caledon.ca>; Delton Zehr <delton.zehr@caledon.ca>; michael.heralall@brampton.ca; John.Fantin@brampton.ca; Jia.He@brampton.ca; Mohammad, Ghazanfar <Ghazanfar.Mohammad@brampton.ca>; Aiysha.Syed@mississauga.ca; Evelyn.Krolicka@mississauga.ca; tim.gallagher@mississauga.ca

Cc: Atcha, Salma <salma.atcha@peelregion.ca>; samantha.zandvliet <samantha.zandvliet@aecom.com>; Gray, Derek <derek.gray@aecom.com>

Subject: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024

Hi,

Hope all is well at your end.

As, you are aware that the Region of Peel is carrying out a Schedule B - Municipal Class Environmental Assessment (EA) [Study for Snow Storage Sites - Region of Peel \(peelregion.ca\)](https://www.peelregion.ca/study-for-snow-storage-sites) to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. Project team has now drafted the Project File Report and preliminary design of the 6 preferred sites which is being shared with you for your review and comments.

The draft report and appendices can be accessed at:

[Draft Project File - April 2024](#)

Please, provide your comments by May 1st. If you can't access the files or have questions, please let me know.

Thanks,

Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)

Program Manager, Infrastructure Programming
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AECOM

City of Brampton



From: Gray, Derek
Sent: Tuesday, March 2, 2021 10:58 AM
To: ghazanfar.mohammad@brampton.ca; bino.varghese@brampton.ca;
tim.gallagher@mississauga.ca; tim.manley@caledon.ca
Cc: Grueneis, Karl; Zandvliet, Samantha; Trenouth, Bill; Waz, Anna; Banuri, Syeda
Subject: Peel Snow Storage Sites - 13-4007B and 60646784
Attachments: 60646748_PSS_Sites1to9_20210223.pdf

Good morning, I hope this email finds you well.

I'm reaching out on behalf of Syeda Banuri from the Region of Peel (Peel), whom most of you have dealt with previously for snow storage sites across the Region. AECOM has been retained by Peel as their consultant to undertake and complete the necessary studies to evaluate and validate the functional snow storage opportunities at the selected Peel (and one Caledon) owned properties for the near and long-term from an environmental, social, economic and technical perspective. The project will follow a similar planning process as the *Schedule "B"* Municipal Class Environmental Assessment (EA) process although it is considered a *Schedule "A"* or pre-approved project.

I wanted to reach out to you at this time to provide preliminary introductions and advise you of the current status of the project. I am the designated project manager and will be supported by Bill Trenouth, who is our deputy project manager/LID/SWM Lead and Karl Grueneis our EA lead. Both are cc'd in this email, along with Anna Waz and Samantha Zandvliet who are supporting the project.

You may recall from previous discussions with Syeda that a total of nine sites were identified during a preliminary internal screening completed by Peel Staff to be included in this study. The nine sites are represented in the attached Map package. Please note that the information presented in the attached is preliminary and is intended to facilitate meaningful discussions with stakeholders. Information for each site will continue to evolve as the project progresses and will be revised/refined through your input.

Since this work will be proceeding as a Schedule 'B' EA, the scope of work includes a myriad of studies including - but not limited to - the natural environment, archaeology, cultural heritage, hydrogeological, geotechnical and contaminated site assessment, source protection, subsurface utility investigations, topographic survey, fluvial geomorphology, stormwater, and traffic management along with public and agency consultation. It is anticipated that four or five of the sites will be validated and selected to proceed to preliminary design, which will also be completed through this assignment.

Recently, construction was completed at one of the Region's first snow storage sites along Charleston Sideroad west of Main Street/Cataract Road in Caledon. This site which was designed by AECOM and included a bioswale to manage both water quality and quantity from the site, in addition to treating snowmelt.

At this time we are currently wading through a significant amount of data that Peel has provided us for the nine sites and reaching out to other stakeholders. Given the ongoing COVID-19 pandemic our field program is being carefully considered to ensure the health and safety of staff at AECOM, Peel and other external stakeholders.

The plan is to set up a meeting with you in the not too distant future to review the sites and the project.

If you have any questions or concerns I'm available at your convenience. The best way to reach me is via email.

Stay well,

Derek R. Gray, P.Eng., A.A.E

Manager, Water Resources and Resiliency

derek.gray@aecom.com

Cell # 416 452 5390



5090 Explorer Drive

Suite 1000

Mississauga, Ontario

L4W 4X6

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Subject: RE: Comments on 13-4007B- Potential Snow Storage Properties Detailed Analysis and Preliminary Design- Draft Reports Review

From: Thavarajah, Kevin <Kevin.Thavarajah@brampton.ca>
Sent: Thursday, September 22, 2022 4:16 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: Comments on 13-4007B- Potential Snow Storage Properties Detailed Analysis and Preliminary Design- Draft Reports Review

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hi there,

Please see my comments below:

Please provide existing and proposed drainage plans in the next submission
Please confirm how water quality will be provided. Do you plan on achieving 80% TSS removal with just the bioswales?
Please consider providing pre-treatment before runoff enters the bioswale as they will be prone to frequent build up of sediment.
Have you accounted for often the bio- swales and pre-treatment measures that are proposed will need to be cleaned? We understand this is preliminary design, but please consider this when finalizing SWM measures. For sites like Site 3 that discharge into City of Brampton infrastructure, pre-treatment is required.
We understand that you may discharge into the existing SWM facility at Site 3, please confirm if it has capacity?
Will the bioswales be providing quantity control? If so, please consider that they would have to provide both quality and quantity control that the sediment will re-suspend at such high flows.

Best wishes,

Kevin Thavarajah P.Eng, PMP

Stormwater and Infrastructure Engineer , Stormwater Programs
Environment & Development Engineering Division
Public Works & Engineering Department
City of Brampton
C: 437.855.7626
kevin.thavarajah@brampton.ca



From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Friday, December 2, 2022 2:06 PM
To: Thavarajah, Kevin
Cc: Gray, Derek; Trenouth, Bill; Zandvliet, Samantha; Grueneis, Karl
Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Notice of PIC

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Hi Kevin,
Thanks for reaching out. It's great as I was waiting for Brampton's feedback on this project. It is a bit different than the rest of Transportation EAs.
We will keep you in the loop. Please, let me know if you have any comments or questions.
Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri@peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Thavarajah, Kevin <Kevin.Thavarajah@brampton.ca>
Sent: December 2, 2022 10:58 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: FW: [EXTERNAL]13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Notice of PIC

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Hi Syeda,

Can you also please keep me in the loop for any updates on this project. I would like to be added to the email chain.

Best wishes,

Kevin Thavarajah P.Eng, PMP

Stormwater Infrastructure Engineer, Stormwater Programs
Environment & Development Engineering Division

Public Works & Engineering Department
City of Brampton

C: 437.855.7626

kevin.thavarajah@brampton.ca



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Subject: RE: Region of Peel Snow Storage Sites Analysis and Conceptual Design Project - Notice of Commencement and PIC

From: He, Jia <Jia.He@brampton.ca>
Sent: Monday, December 19, 2022 3:23 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Mohammad, Ghazanfar <Ghazanfar.Mohammad@brampton.ca>
Subject: Region of Peel Snow Storage Sites Analysis and Conceptual Design Project - Notice of Commencement and PIC

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hi Syeda,

Please find the below comment from City of Brampton regarding the Notice of Commencement and PIC for Region of Peel Snow Storage Sites.

Realty, BDC and Fire was looking at West Brampton Reservoir and Pumping Station site as a possible location to put up Fire Station 216. We did approach the ROP Realty and got push back saying that they are planning to use the site as stated.

We will update you if we get any further comments. Thanks.

Regards,

Jia He, *M.Eng., P.Eng*
Project Engineer, Infrastructure Planning

Project Engineer, Public Works & Engineering
WPOC, 1975 Williams Parkway
Brampton, ON L6S 6E5
D +1-905-874-5164
M +1-437-994-5145
Email: jia.he@brampton.ca



Please review the City of Brampton e-mail disclaimer statement at: <http://www.brampton.ca/EN/Online-Services/Pages/Privacy-Statement.aspx>

From: He, Jia <Jia.He@brampton.ca>
Sent: Thursday, May 2, 2024 9:21 AM
To: Banuri, Syeda
Cc: Atcha, Salma; Zandvliet, Samantha; Gray, Derek
Subject: RE: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024

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Hi Syeda,

Please find the below comment from City's Transportation Planning group:

One of the sites that Peel is considering to carry forward to convert to snow storage is the Highway 50 Carpool Lot. This site also includes a stop for GO Bus Route 38 that connects Bolton to Malton GO.

The Brampton Plan's vision for the future of mobility by 2051 includes the implementation of Transportation Demand Management strategies such as carpooling/ridesharing, greater use of sustainable modes such as transit, and encouraging employers to promote alternatives to the private car. The lands to the south of the Carpool Lot in Secondary Plan Area 47 are planned to be industrial/employment and the strategic location of the carpool lot/GO transit stop provides future employees of this area with sustainable mode choices. Further, the location of the Highway 50 Carpool lot also has the potential to serve any future possible extension to Highway 427. The Region is encouraged to consider the future land uses in this area, their impact on the transportation system, and how retaining the Carpool Lot/GO Transit Stop can support the City and the Region's shared goal of shifting to sustainable modes prior to carrying this option forward.

Regards,

Jia He, M.Eng., P.Eng
Project Manager, Capital Works

Public Works & Engineering
WPOC, 1975 Williams Parkway
Brampton, ON L6S 6E5
D +1-905-874-5164
M +1-437-994-5145
Email: jia.he@brampton.ca



From: Banuri, Syeda <syeda.banuri@peelregion.ca>

Sent: Friday, April 5, 2024 3:29 PM

To: Chunmei.Liu@ontario.ca; Leclerc, Erika (MCM) <erika.leclerc@ontario.ca>; Barboza, Karla (MHSTCI) <Karla.Barboza@ontario.ca>; Cassie Schembri <Cassie.Schembri@caledon.ca>; ryan.grodecki@caledon.ca; Jeremy Johnson <Jeremy.johnson@caledon.ca>; Brian Baird <brian.baird@caledon.ca>; Delton Zehr <delton.zehr@caledon.ca>; Heralall, Michael <Michael.Heralall@brampton.ca>; Fantin, John <john.fantin@brampton.ca>; He, Jia <Jia.He@brampton.ca>; Mohammad, Ghazanfar <Ghazanfar.Mohammad@brampton.ca>; Aiysha.Syed@mississauga.ca; Evelyn.Krolicka@mississauga.ca; tim.gallagher@mississauga.ca

Cc: Atcha, Salma <salma.atcha@peelregion.ca>; Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>; Gray, Derek <derek.gray@aecom.com>

Subject: [EXTERNAL]Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024

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Hi,

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The draft report and appendices can be accessed at:

[Draft Project File - April 2024](#)

Please, provide your comments by **May 1st**. If you can't access the files or have questions, please let me know.

Thanks,

Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
Transportation Division, Public Works
10 Peel Centre Drive, Suite B – 4th Floor
Brampton, ON L6T4B9
Syeda.Banuri@peelregion.ca
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AECOM

City of Mississauga



From: Gray, Derek
Sent: Tuesday, March 2, 2021 10:58 AM
To: ghazanfar.mohammad@brampton.ca; bino.varghese@brampton.ca;
tim.gallagher@mississauga.ca; tim.manley@caledon.ca
Cc: Grueneis, Karl; Zandvliet, Samantha; Trenouth, Bill; Waz, Anna; Banuri, Syeda
Subject: Peel Snow Storage Sites - 13-4007B and 60646784
Attachments: 60646748_PSS_Sites1to9_20210223.pdf

Good morning, I hope this email finds you well.

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The plan is to set up a meeting with you in the not too distant future to review the sites and the project.

If you have any questions or concerns I'm available at your convenience. The best way to reach me is via email.

Stay well,

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Manager, Water Resources and Resiliency

derek.gray@aecom.com

Cell # 416 452 5390



5090 Explorer Drive

Suite 1000

Mississauga, Ontario

L4W 4X6

www.aecom.com

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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: August 15, 2024 2:14 PM
To: Cassie Schembri; Ryan.Grodecki@caledon.ca; Brian Baird;
Aiysha.Syed@mississauga.ca; tim.gallagher@mississauga.ca; Imran.Salam@caledon.ca
Cc: Gray, Derek; Atcha, Salma; Zandvliet, Samantha
Subject: RE: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024

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Hi all,

Hope all is well. We are trying to finalize and wrap up the Peel Snow Storage Sites EA and Pre-Design project this fall and was looking at any last-minute comments or concerns that you may have with our recommendations so that we can address them before filing the project.

Please, note that we have not received any comments from you for the final draft shared with you in April 2024. If we missed your comments, please re-send to me at your earliest convenience.

Thanks.

Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
Transportation Division, Public Works
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Brampton, ON L6T4B9
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Cc: Gray, Derek <derek.gray@aecom.com>; Atcha, Salma <salma.atcha@peelregion.ca>; samantha.zandvliet <samantha.zandvliet@aecom.com>
Subject: FW: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report - April 2024

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Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
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Sent: Friday, April 5, 2024 3:29 PM

To: Chunmei.Liu@ontario.ca; Leclerc, Erika (MCM) <erika.leclerc@ontario.ca>; Barboza, Karla (MHSTCI) <Karla.Barboza@ontario.ca>; Cassie Schembri; ryan.grodecki@caledon.ca; Jeremy Johnson <Jeremy.johnson@caledon.ca>; Brian Baird <brian.baird@caledon.ca>; Delton Zehr <delton.zehr@caledon.ca>; michael.heralall@brampton.ca; John.Fantin@brampton.ca; Jia.He@brampton.ca; Mohammad, Ghazanfar <Ghazanfar.Mohammad@brampton.ca>; Aiysha.Syed@mississauga.ca; Evelyn.Krolicka@mississauga.ca; tim.gallagher@mississauga.ca

Cc: Atcha, Salma <salma.atcha@peelregion.ca>; samantha.zandvliet <samantha.zandvliet@aecom.com>; Gray, Derek <derek.gray@aecom.com>

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Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)

Program Manager, Infrastructure Programming
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AECOM

Credit Valley Conservation



Subject: RE: CVC Comments - Snow Storage Site Selection - Draft Reports (CVC File No PD 21/028)

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: September 2, 2022 1:29 PM
To: Kilis, Jakub <Jakub.kilis@cvc.ca>
Cc: Trenouth, Bill <bill.trenouth@aecom.com>; Gray, Derek <Derek.Gray@aecom.com>
Subject: [EXTERNAL] RE: CVC Comments - Snow Storage Site Selection - Draft Reports (CVC File No PD 21/028)

Hi Jakub,
Thanks for your comments. Project team will consider them and provide a response. If we have any questions or comments, we'll be in touch.
Regards,
Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri@peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Kilis, Jakub <Jakub.Kilis@cvc.ca>
Sent: September 2, 2022 12:50 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: CVC Comments - Snow Storage Site Selection - Draft Reports (CVC File No PD 21/028)

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Hi Syeda,

CVC staff has completed our review of the draft documentation submitted as part of the potential future snow storage facility and offer the following comments for your consideration at this time;

General

1. CVC was surprised to not have found a discussion piece on salt and salt mitigation/management. Salt and its potential impacts on any receiving sites could be a limiting factor on site selection and should be considered as part of the overall evaluation process and should be discussed from a contaminant perspective. Additionally, municipalities should also develop salt application optimization programs or guidelines, to limit the use of salt during winter months. Detail resources are available at <https://sustainabletechnologies.ca/>. Further discussion on salt is expected at the next point in the site selection process.

Engineering

2. Generally, the concept plan in the **Draft Technical Memo - Conceptual Snow Storage Facilities and SWM Servicing Approach, AECOM, May 11, 2022** is reasonable. The following comments need clarification:

- a. The quality criteria identified requires clarification/correction. Section 2.4 states: **Quality Control: Provide Level 1 'enhanced' treatment (80% long-term TSS removal) for the runoff volume for the Region's 90th percentile rainfall volume (i.e., 27 mm).** The SWM quality treatment criteria applies to the entire site not just the impervious area or 90th percentile volume. However, retention of 90th percentile rainfall volume could achieve the desired stormwater quality and erosion targets simultaneously.
 - b. Flood and erosion hazards are not estimated/delineated for Site 3. This will be reviewed at the later date before/or at detail design stage.
3. The stormwater management strategy is based on low impact development. It is also identified that salt will be treated using LIDs. However, SWM facilities and LIDs have limited treatment capabilities for salt which is not discussed.

Ecology

4. For sites in CVC's jurisdiction please ensure that the hydrological/conveyance function of the adjacent HDF's are assessed such that preconstruction conditions are identified and are thus replicated post construction (e.g. quality and quantity of flow contribution to the features is maintained)

Please let me know if you have any questions about the above,
Jakub

I'm working remotely. The best way to reach me is by email, mobile phone or Microsoft Teams.

Jakub Kilis | RPP

Senior Manager, Infrastructure and Regulations | Credit Valley Conservation

905-670-1615 ext 287 | M: 647-212-6554

jakub.kilis@cvc.ca | cvc.ca



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From: Ahmad, Iftekhar <Iftekhar.Ahmad@cvc.ca>
Sent: Friday, December 2, 2022 10:15 AM
To: Zandvliet, Samantha
Cc: syeda.banuri@peelregion.ca
Subject: CVC response (Notice of Commencement) - EA 22/010 - Region of Peel Snow Storage Sites Analysis and Conceptual Design Project
Attachments: CVC Comments - Snow Storage Site Selection - Draft Reports (CVC File No PD 21/028)

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Hi Samantha,

Thank you for providing the Notice of Study Commencement for the proposed project noted in the subject line above.

Please note that previously we had discussions with Peel/AECOM about CVC concerns and requirements related to this project and sent our last comments (attached) on the draft technical reports. Please consider CVC comments in the EA. We will provide our first set of comprehensive comments after the TAC.

If you have any questions, please let me know.

Thanks, have a great weekend.

Best regards,
Iftekhar

I'm working remotely. The best way to reach me is by email or Microsoft Teams.

Iftekhar Ahmad | he/him/his
Planner, Environmental Assessment | Credit Valley Conservation
905-670-1615 ext 296 | M: 647-449-5962
iftekhar.ahmad@cvc.ca | cvc.ca



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From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Sent: Thursday, December 1, 2022 1:28 PM

Cc: syeda.banuri@peelregion.ca

Subject: [External] Region of Peel Snow Storage Sites Analysis and Conceptual Design Project - Notice of Commencement and PIC

Some people who received this message don't often get email from samantha.zandvliet@aecom.com. [Learn why this is important](#)

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Hello,

The Region of Peel has initiated a Municipal Class Environmental Assessment study to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. The snow storage sites identified will provide near and long-term snow storage solutions that are environmentally sound and acceptable for the Region and its area municipalities.

For further information, please find attached the **Notice of Commencement and Public Information Centre**. To view the Public Information Centre presentation (video), please visit the project webpage: [Study for Snow Storage Sites - Region of Peel \(peelregion.ca\)](#)

We look forward to receiving your input to this study. Please direct any questions or comments to the Region's Project Manager:

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Region of Peel
416 407 7860
syeda.banuri@peelregion.ca

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
D +1-905-390-2047
samantha.zandvliet@aecom.com

AECOM
45 Goderich Road, Suite 201
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aecom.com

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From: Ahmad, Iftekhar <Iftekhar.Ahmad@cvc.ca>
Sent: October 23, 2024 1:51 PM
To: Banuri, Syeda
Cc: Zandvliet, Samantha; Gray, Derek
Subject: RE: FW: CVC Comments (draft PFR) - EA 22/010 - Snow Storage Sites Analysis and Conceptual Design Project

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Hi Syeda,

I am well, thank you for asking. I hope you are well too.

Thank you for providing the responses. We will review them and let you know if there are any questions.

Best regards,
Iftekhar

Iftekhar Ahmad | MES (Pl.), RPP | he/him/his
Planner, Environmental Assessment | Watershed Management and Development Services |
Credit Valley Conservation
905-670-1615 ext. 2960 | M: 647-449-5962
iftekhar.ahmad@cvc.ca | cvc.ca

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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Wednesday, October 23, 2024 11:46 AM
To: Ahmad, Iftekhar <Iftekhar.Ahmad@cvc.ca>
Cc: Zandvliet, Samantha <samantha.zandvliet@aecom.com>; Gray, Derek <derek.gray@aecom.com>

Subject: [External] FW: CVC Comments (draft PFR) - EA 22/010 - Snow Storage Sites Analysis and Conceptual Design Project

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Hi Iftekhar,

Hope all is well at your end. Please, see attached for response to your comments by the project team. We are hoping to file the Project File Report in November this year. As such we will send the Notice of Completion to our CVC contact email.

Thanks.

Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
Transportation Division, Public Works
10 Peel Centre Drive, Suite B – 4th Floor
Brampton, ON L6T4B9
Syeda.Banuri@peelregion.ca
Cell: 416-407-7860



The Region of Peel is situated on the Treaty Lands and Territory of the Mississaugas of the Credit First Nation as well as the traditional territory of the Anishinabeg, Huron-Wendat and Haudenosaunee peoples.

From: Ahmad, Iftekhar <Iftekhar.Ahmad@cvc.ca>
Sent: Tuesday, April 30, 2024 2:08 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Zandvliet, Samantha <samantha.zandvliet@aecom.com>; Atcha, Salma <salma.atcha@peelregion.ca>; Gray, Derek <derek.gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>
Subject: CVC Comments (draft PFR) - EA 22/010 - Snow Storage Sites Analysis and Conceptual Design Project

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Hi Syeda Banuri,

CVC staff have now had the opportunity to review the draft Project File Report (PFR) dated April 2024 including appendices and responses to our last comments, and provide these comments for your consideration.

CVC Comments

1. It is understood that the collection of excess snow from the road right of way is a subjective process based on the specific locations where the visibility is obstructed. Please comment if there are any set criteria as to when or how much snow will be removed and relocated for any given year.
2. The post construction monitoring must include monitoring the SWM pond outfalls for erosion at Sites 3 and 10. The outfalls are expected to perform as a control to the system; however, with increased runoff reporting to the SWM pond, and pond performance decreasing due to age and accumulation of sediment, the outfall may not operate as designed. Any deficiencies noted in the pond infrastructure must be addressed to ensure there are no impacts to the downstream regulated watercourses. Please provide this commitment in the PFR.
3. The post construction monitoring must include monitoring the roadside ditch for erosion at Site 9 along Mayfield Road. As the exact quantities of the snowmelt and rainfall runoff are uncertain for any given year, the monitoring will determine the effectiveness of the system and identify the need to address any deficiencies. Please provide this commitment in the PFR.
4. The erosion and sediment control plans are expected as part of the detailed design submission. These are to include adequate erosion protection measures and LID details.
5. Please consider using suitable native species in all SWM/LID features and for natural area restoration. Please refer to CVC's Plant Selection Guidelines (attached) when making species selections.

If you have any questions, please contact me.

Thanks,

Best regards,
Iftekhhar

Iftekhhar Ahmad | MES | he/him/his
Planner, Environmental Assessment | Planning and Development Services | Credit Valley
Conservation
905-670-1615 ext. 2960 | M: 647-449-5962
iftekhhar.ahmad@cvc.ca | cvc.ca

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From: Ahmad, Iftekhar
Sent: Thursday, April 11, 2024 10:01 AM
To: syeda.banuri@peelregion.ca
Cc: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>; Atcha, Salma <salma.atcha@peelregion.ca>; Gray, Derek <derek.gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>
Subject: RE: [External] Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report (CVC File No PD 21/028) - April 2024

Hi Syeda Banuri,

Thank you for providing the information. We will review it and get back to you with our response as soon as possible.

Please note that I will be your point of contact on this project going forward.

Best regards,
Iftekhar

Iftekhar Ahmad | MES | he/him/his
Planner, Environmental Assessment | Planning and Development Services | Credit Valley Conservation
905-670-1615 ext. 2960 | M: 647-449-5962
iftekhar.ahmad@cvc.ca | cvc.ca

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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Friday, April 5, 2024 3:30 PM
To: Kilis, Jakub <Jakub.Kilis@cvc.ca>
Cc: Zandvliet, Samantha <samantha.zandvliet@aecom.com>; Atcha, Salma <salma.atcha@peelregion.ca>; Gray, Derek <derek.gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>
Subject: [External] Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report (CVC File No PD 21/028) - April 2024

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Hi,
Hope all is well at your end.

As, you are aware that the Region of Peel is carrying out a Schedule B - Municipal Class Environmental Assessment (EA) [Study for Snow Storage Sites - Region of Peel \(peelregion.ca\)](https://www.peelregion.ca/study-for-snow-storage-sites) to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. Project team has now drafted the Project File Report and preliminary design of the 6 preferred sites which is being shared with you for your review and comments.

The draft report and appendices can be accessed at:

[Draft Project File - April 2024](#)

Please, provide your comments by May 1st. If you can't access the files or have questions, please let me know.

We have also provided responses to your latest comments in a separate document attached.

Please, let me know if you have any comments or questions.

Thanks,

Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
Transportation Division, Public Works
10 Peel Centre Drive, Suite B – 4th Floor
Brampton, ON L6T4B9
Syeda.Banuri@peelregion.ca
Cell: 416-407-7860



The Region of Peel is situated on the Treaty Lands and Territory of the Mississaugas of the Credit First Nation as well as the traditional territory of the Anishinabeg, Huron-Wendat and Haudenosaunee peoples.

From: Kilis, Jakub <Jakub.Kilis@cvc.ca>

Sent: Friday, September 2, 2022 12:50 PM

To: Banuri, Syeda <syeda.banuri@peelregion.ca>

Subject: CVC Comments - Snow Storage Site Selection - Draft Reports (CVC File No PD 21/028)

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Hi Syeda,

CVC staff has completed our review of the draft documentation submitted as part of the potential future snow storage facility and offer the following comments for your consideration at this time;

General

1. CVC was surprised to not have found a discussion piece on salt and salt mitigation/management. Salt and its potential impacts on any receiving sites could be a limiting factor on site selection and should be considered as part of the overall evaluation process and

should be discussed from a contaminant perspective. Additionally, municipalities should also develop salt application optimization programs or guidelines, to limit the use of salt during winter months. Detail resources are available at <https://sustainabletechnologies.ca/>. Further discussion on salt is expected at the next point in the site selection process.

Engineering

2. Generally, the concept plan in the Draft Technical Memo - Conceptual Snow Storage Facilities and SWM Servicing Approach, AECOM, May 11, 2022 is reasonable. The following comments need clarification:
 - a. The quality criteria identified requires clarification/correction. Section 2.4 states: *Quality Control: Provide Level 1 'enhanced' treatment (80% long-term TSS removal) for the runoff volume for the Region's 90th percentile rainfall volume (i.e., 27 mm).* The SWM quality treatment criteria applies to the entire site not just the impervious area or 90th percentile volume. However, retention of 90th percentile rainfall volume could achieve the desired stormwater quality and erosion targets simultaneously.
 - b. Flood and erosion hazards are not estimated/delineated for Site 3. This will be reviewed at the later date before/or at detail design stage.
3. The stormwater management strategy is based on low impact development. It is also identified that salt will be treated using LIDs. However, SWM facilities and LIDs have limited treatment capabilities for salt which is not discussed.

Ecology

4. For sites in CVC's jurisdiction please ensure that the hydrological/conveyance function of the adjacent HDF's are assessed such that preconstruction conditions are identified and are thus replicated post construction (e.g. quality and quantity of flow contribution to the features is maintained)

Please let me know if you have any questions about the above,
Jakub

I'm working remotely. The best way to reach me is by email, mobile phone or Microsoft Teams.

Jakub Kilis | RPP

Senior Manager, Infrastructure and Regulations | Credit Valley Conservation

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CVC COMMENTS AND RESPONSES

ITEM	CVC COMMENTS (September 2, 2022)	AECOM RESPONSES (April 3, 2024)
<i>General Comments</i>		
1.	<p>CVC was surprised to not have found a discussion piece on salt and salt mitigation/management. Salt and its potential impacts on any receiving sites could be a limiting factor on site selection and should be considered as part of the overall evaluation process and should be discussed from a contaminant perspective. Additionally, municipalities should also develop salt application optimization programs or guidelines, to limit the use of salt during winter months. Detail resources are available at https://sustainabletechnologies.ca/. Further discussion on salt is expected at the next point in the site selection process.</p>	<p>A discussion on salt has been added. We found that salt from snow storage is considered low risk in the Ontario Table of Drinking Water Threats. A provisional liner will be included in the EA phase preliminary design as an option to prevent infiltration of dissolved salt into the groundwater.</p> <p>Peel also has a salt management plan and a bare pavement policy. During the snow removal process, it is piled onto boulevards and ditches. When the piles get too high, it needs to be removed to clear the sightlines for the safety of commuters and pedestrians. Snow storage facilities are designed with an intent that it melts slowly to leave some salt behind on the concrete pad when meltwater evaporates; Hence, we believe that the snow storage site development will have an overall reduction in the salt release to the environment than the status quo.</p>
<i>Engineering</i>		
2.	<p>Generally, the concept plan in the Draft Technical Memo - Conceptual Snow Storage Facilities and SWM Servicing Approach, AECOM, May 11, 2022 is reasonable. The following comments need clarification:</p> <ol style="list-style-type: none"> a. The quality criteria identified requires clarification/correction. Section 2.4 states: Quality Control: Provide Level 1 'enhanced' treatment (80% long-term TSS removal) for the runoff volume for the Region's 90th percentile rainfall volume (i.e., 27 mm). The SWM quality treatment criteria applies to the entire site not just the impervious area or 90th 	<ol style="list-style-type: none"> a. Noted. The criteria will be applied to the whole site. Retention of runoff/snow melt is in conflict with salt concerns. b. Comment acknowledged.

ITEM	CVC COMMENTS (September 2, 2022)	AECOM RESPONSES (April 3, 2024)
	<p>percentile volume. However, retention of 90th percentile rainfall volume could achieve the desired stormwater quality and erosion targets simultaneously.</p> <p>b. Flood and erosion hazards are not estimated/delineated for Site 3. This will be reviewed at the later date before/or at detail design stage.</p>	
3.	<p>The stormwater management strategy is based on low impact development. It is also identified that salt will be treated using LIDs. However, SWM facilities and LIDs have limited treatment capabilities for salt which is not discussed</p>	<p>There is no practical method to treat salt from the runoff. The report has been reviewed to ensure it does not state that salt will be treated with LID.</p> <p>Furthermore, this salt currently runs uncontrolled from roadways into ditches. Through the use of snow storage facilities, some of this salt can be captured on the storage pad (after melt of snow and evaporation of remaining water) and swept away.</p>
<i>Ecology</i>		
4.	<p>For sites in CVC's jurisdiction please ensure that the hydrological/conveyance function of the adjacent Headwater Drainage Features (HDF's) are assessed such that preconstruction conditions are identified and are thus replicated post construction (e.g. quality and quantity of flow contribution to the features is maintained)</p>	<p>Quantity and quality will be controlled through addition of a bioswale and potentially further channeling runoff into existing SWMF. This will also address concerns in the above comment 2b.</p> <p>In the Natural Environment Report Mitigation Measures the following text has been added "A more detailed impact assessment and mitigation measures will be provided during the Detailed Design stage of the Project. If a site within CVC's jurisdiction is carried forward to Detailed Design, recommendations will include measures to maintain hydrological/conveyance function of adjacent HDF's. Measures may include bioswales and potentially further channeling runoff into an existing SWMF".</p>



**Credit Valley
Conservation**
inspired by nature



Plant Selection Guideline

Species List for Planting Plans within the Credit River Watershed

Document Contents:

- Section 1:** CVC Species List for Planting Plans within the Credit River Watershed
- Section 2:** CVC Seed Mixes
- Section 3:** CVC Cover Crop Selection Guideline

Prepared by: Credit Valley Conservation
April 2018

Section 1: CVC Species List for Planting Plans within the Credit River Watershed

Version 2.0 – April 2017

Credit Valley Conservation (CVC) promotes native plant biodiversity. CVC mandates the use of native species that are common within CVC’s jurisdiction in regulated areas and recommends them in non-regulated areas.

The following guideline is used to select species for planting plans for natural restoration projects, mitigation plans and stormwater management pond blocks. This list ensures that restoration plantings, required by the planning and development process, enhance the ecological function of the natural heritage system of the Credit River Watershed. The Plant Selection Guideline also includes a coefficient of wetness to provide guidance on the soil moisture preferences of each species. Please refer to Table 1 for further details on species coefficient of wetness codes.

Table 1: Coefficient of Wetness and Related Soil Moisture Regime Preferences

Coefficient of Wetness	Soil Moisture Regime Preference
5	Almost always occur on uplands
4	Usually occur on uplands
3	
2	
1	Found on uplands and in wetlands
0	
-1	
-2	Usually occur in wetlands
-3	
-4	
-5	Almost always in wetlands

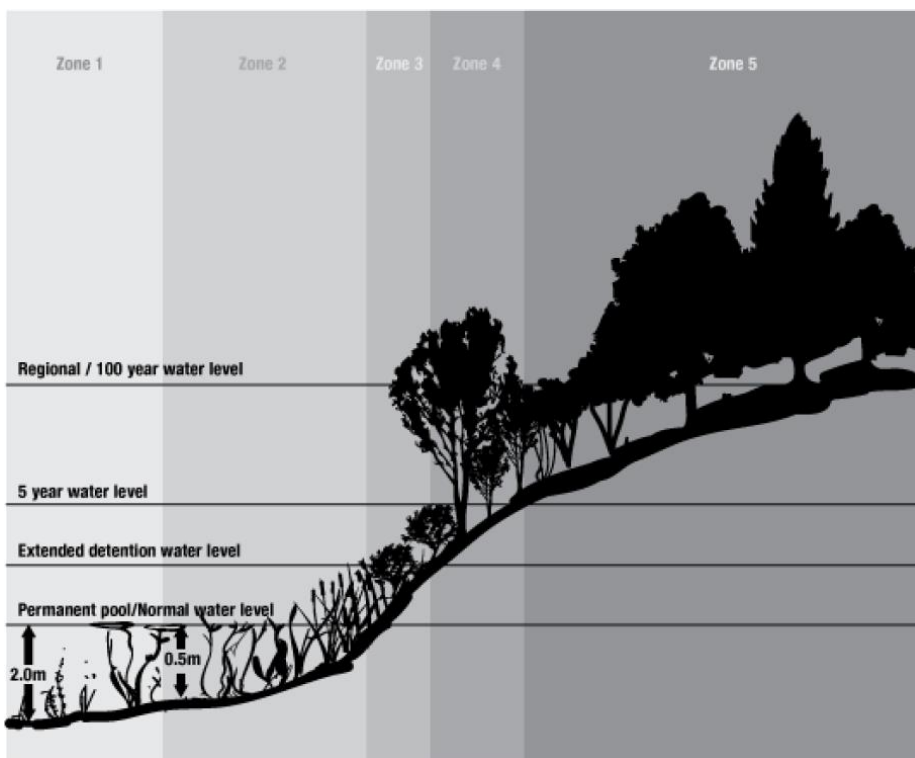
Note: Coefficient of Wetness taken from the Floristic Assessment System for Southern Ontario (Oldham et al, 1995).

There are two ecoregions within the Credit River Watershed: 6E - Lake Simcoe-Rideau Ecoregion and 7E – Lake Erie-Lake Ontario Ecoregion. Each ecoregion is characterized by a distinct biological response (i.e. species and communities) to environmental conditions (i.e. climate and geology) associated with that region. This list provides guidance on which species are appropriate for planting in each of these ecoregions. To simplify implementation and ensure consistency within individual municipalities, the watershed has been divided into two zones (upper and lower watershed) that roughly correspond to the boundaries of the ecoregions. Within this document, species identified with “**YES**” are suitable for planting in both the upper and lower watershed, “**U**” is suitable for **upper watershed only** and “**L**” is suitable for **lower watershed only**. The lower watershed includes the City of Mississauga, City of Brampton, Town of Oakville and Town of Milton. The upper watershed includes the Town of Halton Hills, Town of Caledon, Town of Orangeville, Town of Erin, Township of East Garafraxa, Township of Amaranth, and Town of Mono.

CVC staff have identified a selection of herbaceous, sedges, rushes, emergent and aquatic plants that appear to be successful in Stormwater Management (SWM) ponds, based on a review of SWM ponds within our watershed and the following reports: Performance Assessment of a Highway Stormwater Quality Detention Pond (SWAMP 2003) and Town of Aurora Stormwater Ponds Vegetation & Wildlife Study (Aurora Environmental Advisory Committee 2007). These species are **highlighted in green** in the Plant Selection Guideline List provided below. The column titled "SWM Pond Planting Zone" should be used in conjunction with Figure 1 to determine in which area of a SWM pond the species may be suitable. Species marked "NR" within this column are not recommended for planting in SWM ponds as a result of characteristics which deem them unsuitable (i.e. potential confusion with non-native species, site specific needs for growth). Please note that woody vines are not included in the calculation of shrub material to meet CVCs SWM Planting Guidelines but can be included to add diversity.

For information on how Wildlife Use, Characteristic and LID Codes were determined please refer to the definitions at the end of this document. A list of acceptable cover crops is included at the end of the plant list. To obtain a workable version of this document in excel format please contact a CVC Planning Ecologist.




Figure 1: SWM Pond Planting Zones



This document and the recommendations provided herein were developed based on the most recent scientific research available to CVC as well as professional opinion and experience. Please note that this list is not exhaustive and other species may be suitable. As a result, CVC will review any proposed species and rationale for use provided by the proponent or their consultants in support of their specific project. If you have any questions regarding the guidelines, contact a CVC Planning Ecologist.

Plant Selection Guideline List - Version 2.0








Species Use Codes:


























-  Breeding and migratory birds
-  Pollinators
-  Mast species providing wildlife foraging opportunities


LID Codes:



















- BR** Bioretention
- DS** Dry swale
- ES** Enhanced grass swale
- F** Filter strips

































Characteristics Codes:






































-  Not recommended for planting due to recent population decline or confusion/ hybridization with non-native sources
-  Prefers full sun
-  Prefers shade
-  Salt tolerant
-  Drought tolerant
-  Suitable for bioengineering
-  Susceptible to wind throw damage; plant away from lot lines, infrastructure and trails

Scientific Name	Common Name	Coefficient of Wetness	Upper/Lower Watershed	SWM Pond Planting Zone	Wildlife Use Codes	Characteristic Codes	LID Codes
Trees							
<i>Abies balsamea</i>	Balsam Fir	-3	U	3, 4			
<i>Acer nigrum</i>	Black Maple	3	Yes	5			
<i>Acer rubrum</i>	Red Maple	0	Yes	3, 4	 		BR, DS, F
<i>Acer saccharinum</i>	Silver Maple	-3	Yes	3, 4			F
<i>Acer saccharum</i>	Sugar Maple	3	Yes	5	 		BR, F
<i>Acer x freemanii</i>	Hybrid Maple	N/A	Yes	3, 4			BR, DS, F
<i>Betula alleghaniensis</i>	Yellow Birch	0	Yes	4			
<i>Betula papyrifera</i>	Paper Birch	2	Yes	4, 5		 	BR, DS
<i>Carya cordiformis</i>	Bitternut Hickory	0	Yes	4	 	  	F
<i>Carya ovata</i>	Shagbark Hickory	3	L	5	 		F
<i>Fagus grandifolia</i>	American Beech	3	Yes	NR	 		

Scientific Name	Common Name	Coefficient of Wetness	Upper/Lower Watershed	SWM Pond Planting Zone	Wildlife Use Codes	Characteristic Codes	LID Codes
<i>Fraxinus americana</i>	White Ash	3	Yes	NR			BR, DS
<i>Fraxinus nigra</i>	Black Ash	-4	Yes	NR			BR, DS, F
<i>Fraxinus pennsylvanica</i>	Green Ash	-3	Yes	NR			F
<i>Juglans nigra</i>	Black Walnut	3	L	5			BR, DS, F
<i>Larix laricina</i>	American Larch	-3	U	3, 4			BR, DS, F
<i>Ostrya virginiana</i>	Eastern Hop-hornbeam	4	Yes	5			
<i>Picea glauca</i>	White Spruce	3	U	5			BR, F
<i>Pinus strobus</i>	Eastern White Pine	3	Yes	5			F
<i>Populus balsamifera</i>	Balsam Poplar	-3	Yes	3, 4			BR, DS
<i>Populus deltoides ssp. deltoides</i>	Eastern Cottonwood	-1	Yes	4			BR, DS, F
<i>Populus grandidentata</i>	Large-toothed Aspen	3	Yes	5			BR, DS, F
<i>Populus tremuloides</i>	Trembling Aspen	0	Yes	4			BR, DS
<i>Prunus serotina</i>	Black Cherry	3	Yes	5	 		BR, DS, F
<i>Quercus alba</i>	White Oak	3	Yes	5	 		BR, DS, F
<i>Quercus macrocarpa</i>	Bur Oak	1	Yes	4, 5	 		BR, DS
<i>Quercus rubra</i>	Northern Red Oak	3	Yes	5	 		BR, DS, F
<i>Salix amygdaloides</i>	Peach-leaved Willow	-3	Yes	3,4	 		BR, DS,

Scientific Name	Common Name	Coefficient of Wetness	Upper/Lower Watershed	SWM Pond Planting Zone	Wildlife Use Codes	Characteristic Codes	LID Codes
<i>Salix nigra</i>	Black Willow	-5	L	NR		☐	
<i>Thuja occidentalis</i>	Eastern White Cedar	-3	Yes	3, 4			BR, F
<i>Tilia americana</i>	American Basswood	3	Yes	5	 		F
<i>Tsuga canadensis</i>	Eastern Hemlock	3	Yes	NR			
<i>Ulmus americana</i>	American Elm	-2	Yes	NR		☐	
<i>Ulmus rubra</i>	Slippery Elm	0	Yes	NR		☐	
Shrubs							
<i>Acer spicatum</i>	Mountain Maple	3	Yes	NR			
<i>Alnus incana</i>	Speckled Alder	-5	U	NR		 	
<i>Amelanchier arborea</i>	Downy Serviceberry	3	Yes	5			
<i>Amelanchier laevis</i>	Smooth Serviceberry	5	Yes	5	 		BR, DS
<i>Aronia melanocarpa</i>	Black Chokeberry	-3	U	NR		☐	
<i>Carpinus caroliniana</i>	Blue-beech	0	Yes	4			
<i>Cornus alternifolia</i>	Alternate-leaved Dogwood	5	Yes	5	  	 	DS
<i>Cornus canadensis</i>	Bunchberry	0	U	NR	 		
<i>Cornus obliqua</i>	Pale Dogwood	-4	U	3,4	  		
<i>Cornus racemosa</i>	Gray Dogwood	-2	Yes	4	  	  	BR, DS, F
<i>Cornus rugosa</i>	Round-leaved Dogwood	5	Yes	5	  		
<i>Cornus sericea</i>	Red-osier Dogwood	-3	Yes	3,4	  	  	
<i>Corylus cornuta</i>	Beaked Hazelnut	5	Yes	5	 		F

Scientific Name	Common Name	Coefficient of Wetness	Upper/Lower Watershed	SWM Pond Planting Zone	Wildlife Use Codes	Characteristic Codes	LID Codes
<i>Crataegus punctata</i>	Dotted Hawthorn	5	Yes	NR			
<i>Diervilla lonicera</i>	Northern Bush-honeysuckle	5	Yes	5			DS,F
<i>Euonymus obovatus</i>	Running Strawberry Bush	5	L	NR			
<i>Gaultheria procumbens</i>	Eastern Teaberry	3	Yes	NR			
<i>Hamamelis virginiana</i>	American Witch-hazel	3	L	5			DS,F
<i>Ilex verticillata</i>	Black Holly	-4	U	3			
<i>Lonicera canadensis</i>	Canada Fly Honeysuckle	3	Yes	5	 		
<i>Mitchella repens</i>	Partridge-berry	2	U	NR			
<i>Prunus pensylvanica</i>	Pin Cherry	4	Yes	5	 		BR,DS
<i>Prunus virginiana</i>	Choke Cherry	1	Yes	4, 5	  		BR,DS, F
<i>Rhus typhina</i>	Staghorn Sumac	5	Yes	5	 		BR, DS, F
<i>Ribes americanum</i>	Wild Black Currant	-3	Yes	3,4			
<i>Ribes cynosbati</i>	Prickly Gooseberry	5	Yes	5			DS, F
<i>Ribes triste</i>	Swamp Red Currant	-5	U	3			F
<i>Rosa blanda</i>	Smooth Rose	3	Yes	5			F
<i>Rubus allegheniensis</i>	Allegheny Blackberry	2	Yes	4, 5			DS, F
<i>Rubus idaeus</i> ssp. <i>strigosus</i>	Wild Red Raspberry	-2	Yes	4	  		BR, DS, F
<i>Rubus occidentalis</i>	Black Raspberry	5	Yes	5	  		
<i>Rubus odoratus</i>	Purple-flowering Raspberry	5	Yes	5	 		BR, DS

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<i>Rubus pubescens</i>	Dewberry	-4	Yes	NR			F
<i>Salix bebbiana</i>	Bebb's Willow	-4	Yes	3	 		DS
<i>Salix discolor</i>	Pussy Willow	-3	Yes	3,4	 	 	BR, DS, F
<i>Salix eriocephala</i>	Heart-leaved Willow	-3	Yes	3,4		 	BR, DS
<i>Salix interior</i>	Sandbar Willow	-5	Yes	3,4			BR, F
<i>Salix lucida</i>	Shining Willow	-4	U	3,4			F
<i>Salix petiolaris</i>	Meadow Willow	-4	U	3		 	BR, DS, F
<i>Sambucus canadensis</i>	Common Elderberry	-2	Yes	4	  		DS, F
<i>Sambucus racemosa</i>	Red Elderberry	2	Yes	4, 5	 	 	BR, DS, F
<i>Spiraea alba</i>	White Meadowsweet	-4	U	3	 		
<i>Symphoricarpos albus</i> ssp.. <i>albus</i>	Common Snowberry	4	Yes	5			
<i>Taxus canadensis</i>	Canadian Yew	3	Yes	NR			
<i>Viburnum acerifolium</i>	Maple-leaved Viburnum	5	Yes	5	 		
<i>Viburnum lentago</i>	Nannyberry	-1	Yes	4	 		BR, DS, F
<i>Viburnum opulus</i> ssp. <i>trilobum</i>	Highbush Cranberry	-3	Yes	NR	 		
Woody Vines							
<i>Celastrus scandens</i>	Climbing Bittersweet	3	Yes	NR			
<i>Clematis Virginiana</i>	Virginia Virgin's-bower	0	Yes	4			BR
<i>Lonicera dioica</i>	Limber Honeysuckle	3	Yes	5			

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<i>Parthenocissus quinquefolia</i>	Virginia Creeper	3	Yes	5			
<i>Parthenocissus viacea</i>	Thicket Creeper	3	Yes	5			
<i>Smilax tamnoides</i>	Hispid Greenbrier	0	Yes	4			
<i>Vitis riparia</i>	Riverbank Grape	-2	Yes	4			
Ferns							
<i>Adiantum pedatum</i>	Northern Maidenhair Fern	1	U	NR			
<i>Athyrium filix-femina</i> ssp.. <i>angustum</i>	Northeastern Lady Fern	0	Yes	NR			
<i>Botrypus virginianus</i>	Rattlesnake Fern	3	U	NR			
<i>Cystopteris bulbifera</i>	Bulblet Fern	-2	Yes	NR			
<i>Cystopteris tenuis</i>	Mackay's Bladder Fern	5	U	NR			
<i>Dendrolycopodium dendroideum</i>	Round-branched Tree-clubmoss	0	U	NR			
<i>Diphasiastrum digitatum</i>	Southern Ground-cedar	5	U	NR			
<i>Dryopteris carthusiana</i>	Spinulose Wood Fern	-2	Yes	NR			
<i>Dryopteris cristata</i>	Crested Wood Fern	-5	U	NR			
<i>Dryopteris intermedia</i>	Evergreen Wood Fern	0	Yes	NR			
<i>Dryopteris marginalis</i>	Marginal Wood Fern	3	Yes	NR			
<i>Equisetum arvense</i>	Field Horsetail	0	Yes	NR			
<i>Equisetum hyemale</i>	Common Scouring-rush	-2	Yes	NR			
<i>Gymnocarpium dryopteris</i>	Common Oak Fern	0	U	NR			

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<i>Huperzia lucidula</i>	Shining Firmoss	-1	U	NR			
<i>Matteuccia struthiopteris</i>	Ostrich Fern	-3	Yes	3,4			F
<i>Onoclea sensibilis</i>	Sensitive Fern	-3	Yes	NR			F
<i>Osmundastrum cinnamomeum</i>	Cinnamon Fern	-3	Yes	NR			
<i>Polystichum acrostichoides</i>	Christmas Fern	5	Yes	NR		 	
<i>Pteridium aquilinum</i>	Bracken Fern	3	Yes	5			
<i>Thelypteris palustris</i>	Marsh Fern	-4	Yes	NR			F
Herbaceous							
<i>Acalypha rhomboidea</i>	Common Three-seeded Mercury	3	Yes	5			
<i>Actaea pachypoda</i>	White Baneberry	NR	Yes				
<i>Actaea rubra</i>	Red Baneberry	NR	Yes				
<i>Ageratina altissima</i>	White Snakeroot	3	Yes	5			
<i>Agrimonia gryposepala</i>	Hooked Agrimony	2	Yes	4, 5			
<i>Allium tricoccum</i> ssp.. <i>tricoccum</i>	Wild Leek	2	Yes	NR			
<i>Ambrosia artemisiifolia</i>	Annual Ragweed	3	Yes	NR			
<i>Ambrosia trifida</i>	Great Ragweed	-1	Yes	NR			
<i>Anaphalis margaritacea</i>	Pearly Everlasting	5	U	5			
<i>Anemone acutiloba</i>	Sharp-lobed Hepatica	5	Yes	NR			
<i>Anemone canadensis</i>	Canada Anemone	-3	Yes	3,4			BR, DS, F
<i>Anemone quinquefolia</i>	Wood Anemone	0	L	NR			
<i>Anemone virginiana</i> ssp.. <i>virginiana</i>	Tall Anemone	5	Yes	5			


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<i>Antennaria neglecta</i>	Field Pussytoes	5	Yes	Yes	 	 	
<i>Apocynum androsaemifolium</i>	Spreading Dogbane	5	Yes	4			
<i>Apocynum cannabinum</i> ssp.. <i>cannabinum</i>	Hemp Dogbane	0	Yes	4			
<i>Aquilegia canadensis</i>	Wild Columbine	1	Yes	NR			DS, F
<i>Aralia nudicaulis</i>	Wild Sarsaparilla	3	Yes	NR			
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit	-2	Yes	NR			
<i>Asarum canadense</i>	Canada Wild-ginger	5	Yes	NR			
<i>Asclepias incarnata</i>	Swamp Milkweed	-5	Yes	3			BR, DS
<i>Asclepias syriaca</i>	Common Milkweed	5	Yes	5		 	
<i>Bidens cernua</i>	Nodding Beggarticks	-5	Yes	3	 		BR
<i>Bidens frondosa</i>	Devils Beggarticks	-3	Yes	3,4	 		BR
<i>Boehmeria cylindrica</i>	False Nettle	-5	Yes	3			
<i>Calystegia sepium</i> ssp. <i>americana</i>	American False Bindweed	0	Yes	4			
<i>Cardamine concatenata</i>	Cut-leaved Toothwort	3	Yes	NR			
<i>Cardamine diphylla</i>	Two-leaved Toothwort	5	Yes	NR			
<i>Cardamine pensylvanica</i>	Pennsylvania Bittercress	-4	U	NR			
<i>Caulophyllum giganteum</i>	Giant Blue Cohosh	5	Yes	NR			
<i>Chelone glabra</i>	White Turtlehead	-5	Yes	3	 		
<i>Chenopodium simplex</i>	Maple-leaved Goosefoot	5	Yes	5			
<i>Circaea alpina</i>	Small Enchanters Nightshade	-3	U	NR			

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<i>Circaea canadensis</i>	Broad-leaved Enchanters Nightshade	3	Yes	5			
<i>Claytonia virginica</i>	Narrow-leaved Spring Beauty	3	L	NR			
<i>Clinopodium vulgare</i>	Field Basil	5	Yes	5			
<i>Clintonia borealis</i>	Blue Bead-lily	-1	U	NR			
<i>Coptis trifolia</i>	Goldthread	-3	U	NR			
<i>Cryptotaenia canadensis</i>	Canada Honewort	0	Yes	4			
<i>Dicentra canadensis</i>	Squirrel-corn	5	U	NR			
<i>Epifagus virginiana</i>	Beechdrops	5	Yes	NR			
<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	Northern Willowherb	3	Yes	5			
<i>Erigeron annuus</i>	Annual Fleabane	1	Yes	4, 5			
<i>Erigeron canadensis</i>	Canada Horseweed	1	Yes	4, 5			
<i>Erigeron philadelphicus</i>	Philadelphia Fleabane	-3	Yes	3,4			
<i>Erigeron strigosus</i>	Rough Fleabane	1	Yes	4, 5			
<i>Erythronium americanum</i>	Yellow Trout-lily	5	Yes	NR		 	
<i>Eupatorium perfoliatum</i>	Common Boneset	-4	Yes	3			F
<i>Eurybia macrophylla</i>	Large-leaved Aster	5	Yes	NR			
<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	-2	Yes	4		 	BR, DS, F
<i>Eutrochium maculatum</i> ssp. <i>maculatum</i>	Spotted Joe Pye Weed	-5	Yes	3			
<i>Fragaria vesca</i> ssp. <i>americana</i>	American Woodland Strawberry	4	Yes	NR			





















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<i>Fragaria virginiana</i>	Wild Strawberry	1	Yes	4, 5			BR, DS
<i>Galium asprellum</i>	Rough Bedstraw	-5	Yes	NR			
<i>Galium palustre</i>	Marsh Bedstraw	-5	Yes	NR			
<i>Galium triflorum</i>	Three-flowered Bedstraw	2	Yes	NR			
<i>Geranium maculatum</i>	Spotted Geranium	3	L	NR			ES
<i>Geum aleppicum</i>	Yellow Avens	-1	Yes	4			
<i>Geum canadense</i>	White Avens	0	Yes	4			
<i>Geum fragarioides</i>	Barren Strawberry	5	Yes	NR			
<i>Geum laciniatum</i>	Rough Avens	-3	L	3,4			
<i>Hackelia virginiana</i>	Virginia Stickseed	1	Yes	4, 5			
<i>Hydrocotyle americana</i>	American Water-pennywort	-5	U	NR			
<i>Hydrophyllum virginianum</i>	Virginia Waterleaf	-2	Yes	NR			F
<i>Impatiens capensis</i>	Spotted Jewelweed	-3	Yes	3,4			
<i>Lactuca canadensis</i>	Canada Lettuce	2	Yes	NR			
<i>Laportea canadensis</i>	Wood Nettle	-3	Yes	NR			
<i>Lilium michiganense</i>	Michigan Lily	-1	L	4			
<i>Lobelia inflata</i>	Indian-tobacco	4	Yes	5			
<i>Lobelia siphilitica</i>	Great Blue Lobelia	-4	Yes	3	 		F
<i>Lycopus americanus</i>	American Water-horehound	-5	Yes	3			
<i>Lycopus uniflorus</i>	Northern Water-horehound	-5	Yes	3			
<i>Lysimachia borealis</i>	Northern Starflower	-1	Yes	NR			
<i>Lysimachia ciliata</i>	Fringed Loosestrife	-3	Yes	3,4			F









































Scientific Name	Common Name	Coefficient of Wetness	Upper/Lower Watershed	SWM Pond Planting Zone	Wildlife Use Codes	Characteristic Codes	LID Codes
<i>Maianthemum canadense</i>	Wild Lily-of-the-valley	0	Yes	NR	 		
<i>Maianthemum racemosum</i>	False Solomons-seal	3	Yes	NR			
<i>Maianthemum stellatum</i>	Star-flowered False Solomons-seal	1	Yes	NR			
<i>Mentha canadensis</i>	Canada Mint	-3	Yes	3,4			
<i>Mimulus ringens</i>	Square-stemmed Monkeyflower	-5	Yes	3			
<i>Mitella diphylla</i>	Two-leaved Mitrewort	2	Yes	NR			
<i>Mitella nuda</i>	Naked Mitrewort	-3	Yes	NR			
<i>Monarda fistulosa</i> ssp.. <i>fistulosa</i>	Wild Bergamot	3	Yes	5		 	BR, F
<i>Monotropa uniflora</i>	Indian-pipe	3	Yes	NR			
<i>Myosotis laxa</i>	Small Forget-me-not	-5	Yes	NR			
<i>Nabalus albus</i>	White Rattlesnake-root	3	Yes	NR			
<i>Nabalus altissimus</i>	Tall Rattlesnake-root	3	Yes	NR			
<i>Oenothera biennis</i>	Common Evening Primrose	3	Yes	5	 	 	
<i>Oenothera parviflora</i>	Small-flowered Evening Primrose	3	Yes	5	 	 	
<i>Osmorhiza claytonii</i>	Hairy Sweet Cicely	4	Yes	NR			
<i>Penthorum sedoides</i>	Ditch-stonecrop	-5	Yes	3			
<i>Persicaria lapathifolia</i>	Pale Smartweed	-4	Yes	3			
<i>Phryma leptostachya</i>	Lopseed	5	Yes	5			
<i>Pilea pumila</i>	Canada Clearweed	-3	Yes	NR			
<i>Plantago rugelii</i>	Rugels Plantain	0	Yes	NR			



































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<i>Platanthera aquilonis</i>	Tall Northern Green Orchid	-4	U	NR			
<i>Podophyllum peltatum</i>	May-apple	3	Yes	NR			F
<i>Polygaloides paucifolia</i>	Gay-wing Milkwort	3	U	NR			
<i>Polygonatum pubescens</i>	Hairy Solomons Seal	5	Yes	NR			
<i>Potentilla norvegica</i>	Norwegian Cinquefoil	0	Yes	4			
<i>Prunella vulgaris</i> ssp. <i>lanceolata</i>	Lance-leaved Self-heal	5	Yes	NR			
<i>Pyrola asarifolia</i>	Pink Pyrola	-3	U	NR			
<i>Pyrola elliptica</i>	Shinleaf	5	Yes	NR			
<i>Ranunculus abortivus</i>	Kidney-leaved Buttercup	-2	Yes	NR			
<i>Ranunculus hispidus</i> ssp. <i>caricetorum</i>	Northern Swamp Buttercup	-5	Yes	3			
<i>Ranunculus recurvatus</i>	Hooked Buttercup	-3	Yes	3,4			
<i>Rorippa palustris</i> ssp. <i>hispida</i>	Hispid Marsh Yellowcress	-5	Yes	3			
<i>Rudbeckia hirta</i>	Black-eyed Susan	3	Yes	5			BR, DS
<i>Rudbeckia laciniata</i>	Cut-leaved Coneflower	-4	L	3			BR, DS,F
<i>Sanguinaria canadensis</i>	Bloodroot	4	Yes	NR			
<i>Sanicula marilandica</i>	Maryland Sanicle	3	Yes	5			
<i>Scutellaria galericulata</i>	Hooded Skullcap	-5	Yes	3			
<i>Scutellaria lateriflora</i>	Mad Dog Skullcap	-5	Yes	3			
<i>Solanum ptychanthum</i>	Black Nightshade	5	Yes	NR			
<i>Solidago altissima</i> ssp. <i>altissima</i>	Eastern Tall Goldenrod	3	Yes	5			BR, DS, F

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<i>Solidago caesia</i>	Blue-stemmed Goldenrod	3	Yes	NR	 		
<i>Solidago canadensis</i> ssp.. <i>canadensis</i>	Canada Goldenrod	3	Yes	5	 		BR, DS,F
<i>Solidago flexicaulis</i>	Zigzag Goldenrod	3	Yes	NR	 	 	BR, DS
<i>Solidago gigantea</i>	Giant Goldenrod	-3	Yes	3,4			
<i>Solidago juncea</i>	Early Goldenrod	5	Yes	5			
<i>Solidago nemoralis</i> ssp. <i>nemoralis</i>	Gray-stemmed Goldenrod	5	Yes	5			BR, DS
<i>Solidago rugosa</i> ssp. <i>rugosa</i>	Northern Rough-stemmed Goldenrod	-1	U	4		 	BR, DS,F
<i>Streptopus lanceolatus</i> ssp.. <i>lanceolatus</i>	Eastern Rose Twisted-stalk	0	U	NR			
<i>Symphotrichum cordifolium</i>	Heart-leaved Aster	5	Yes	NR			BR, DS
<i>Symphotrichum ericoides</i> ssp.. <i>ericoides</i>	White Heath Aster	4	Yes	5		 	BR
<i>Symphotrichum lanceolatum</i> ssp. <i>lanceolatum</i>	Panicled Aster	-3	Yes	3,4			BR, DS
<i>Symphotrichum lateriflorum</i>	Calico Aster	-2	Yes	4			
<i>Symphotrichum novae-angliae</i>	New England Aster	-3	Yes	3,4	 	 	BR, DS,F
<i>Symphotrichum puniceum</i>	Swamp Aster	-5	Yes	3			BR, DS, F
<i>Thalictrum dioicum</i>	Early Meadow-rue	2	Yes	NR			
<i>Thalictrum pubescens</i>	Tall Meadow-rue	-2	Yes	4			BR, DS, F
<i>Tiarella cordifolia</i>	Heart-leaved Foam-flower	1	Yes	NR			





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<i>Trientalis borealis</i>	Northern Starflower	-1	Yes	NR			
<i>Trillium erectum</i>	Red Trillium	1	Yes	NR	 		
<i>Trillium grandiflorum</i>	White Trillium	5	Yes	NR			
<i>Urtica dioica</i> ssp. <i>gracilis</i>	Slender Stinging Nettle	-1	Yes	4			
<i>Uvularia grandiflora</i>	Large-flowered Bellwort	5	Yes	NR			
<i>Verbena hastata</i>	Blue Vervain	-4	Yes	3	 	  	BR, DS
<i>Verbena urticifolia</i>	White Vervain	-1	Yes	4	 	  	BR, DS, F
<i>Veronica americana</i>	American Speedwell	-5	U	NR			
<i>Viola affinis</i>	Le Conte's Violet	-3	Yes	NR			
<i>Viola blanda</i>	Sweet White Violet	-2	U	NR			
<i>Viola canadensis</i> ssp. <i>canadensis</i>	Canada Violet	5	Yes	NR			
<i>Viola labradorica</i>	Labrador Violet	-2	Yes	NR			
<i>Viola pubescens</i>	Yellow Violet	4	Yes	5			
<i>Viola rostrata</i>	Long-spurred Violet	3	U	NR			
<i>Viola sororia</i>	Woolly Blue Violet	1	Yes	4, 5			
<i>Xanthium strumarium</i>	Rough Cocklebur	0	Yes	4			
Grasses							
<i>Bromus ciliatus</i>	Fringed Brome	-3	U	3,4			
<i>Bromus latiglumis</i>	Broad-glumed Brome	-2	L	4		 	BR, DS, F
<i>Calamagrostis canadensis</i> ssp. <i>canadensis</i>	Bluejoint Reedgrass	-5	Yes	3			BR, DS, F
<i>Danthonia spicata</i>	Poverty Oatgrass	5	Yes	5			BR, ES, DS

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<i>Dichanthelium acuminatum</i>	Hairy Panicgrass	N/A	Yes	4			
<i>Elymus hystrix</i>	Bottlebrush Grass	5	Yes	5			
<i>Elymus riparius</i>	Eastern Riverbank Wildrye	-3	U	3,4		 	BR, ES, DS, F
<i>Elymus virginicus</i> ssp.. <i>virginicus</i>	Virginia Wildrye	-2	Yes	4			BR, DS
<i>Festuca subverticillata</i>	Nodding Fescue	2	Yes	NR			
<i>Glyceria striata</i>	Fowl Mannagrass	-5	Yes	3			
<i>Leersia oryzoides</i>	Rice Cutgrass	-5	Yes	3	 		
<i>Muhlenbergia mexicana</i> ssp.. <i>mexicana</i>	Mexican Muhly	-3	Yes	3,4			BR, DS
<i>Oryzopsis asperifolia</i>	White-grained Mountain-ricegrass	5	Yes	NR			
<i>Panicum acuminatum</i> ssp.. <i>acuminatum</i>	Tapered Rosette Grass	0	Yes	4			
<i>Panicum capillare</i>	Common Panicgrass	5	Yes	5			
<i>Phalaris arundinacea</i> ssp.. <i>arundinacea</i>	Reed Canary Grass	-4	Yes	NR			
<i>Poa palustris</i>	Fowl Bluegrass	-4	Yes	3			
<i>Schizachne purpurascens</i>	Purple False Melic	2		NR			
<i>Sphenopholis intermedia</i>	Slender Wedge Grass	0	Yes	4			
Sedges							
<i>Carex arctata</i>	Drooping Woodland Sedge	5	Yes	5			
<i>Carex aurea</i>	Golden Sedge	-4	Yes	3	 		

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<i>Carex bebbii</i>	Bebbs Sedge	-5	Yes	3			BR, DS, F
<i>Carex blanda</i>	Woodland Sedge	0	Yes	NR			
<i>Carex communis</i>	Fibrous-root Sedge	5	Yes	5			
<i>Carex crinita</i>	Fringed Sedge	-4	U	3	 		ES
<i>Carex cristatella</i>	Crested Sedge	-4	Yes	3	 		
<i>Carex deweyana</i>	Deweys Sedge	4	Yes	5			
<i>Carex disperma</i>	Two-seeded Sedge	-5	U	3			
<i>Carex gracillima</i>	Graceful Sedge	3	Yes	5	 		
<i>Carex granularis</i>	Limestone Meadow Sedge	-4	Yes	3	 		
<i>Carex hystericina</i>	Porcupine Sedge	-5	Yes	3	 		BR, ES, DS
<i>Carex interior</i>	Inland Sedge	-5	U	3	 		
<i>Carex intumescens</i>	Bladder Sedge	-4	Yes	3	 		F
<i>Carex leptalea</i>	Bristle-stalked Sedge	-5	U	3	 		
<i>Carex lupulina</i>	Hop Sedge	-5	Yes	3	 		F
<i>Carex peckii</i>	Pecks Sedge	5	Yes	NR			
<i>Carex pedunculata</i>	Long-stalked Sedge	5	Yes	NR			
<i>Carex pennsylvanica</i>	Pennsylvania Sedge	5	Yes	NR			BR, ES, DS
<i>Carex plantaginea</i>	Plantain-leaved Sedge	5	Yes	NR	 		
<i>Carex platyphylla</i>	Broad-leaved Sedge	5	Yes	NR			
<i>Carex pseudocyperus</i>	Cyperus-like Sedge	-5	Yes	3	 		
<i>Carex radiata</i>	Eastern Star Sedge	5	Yes	5			

Scientific Name	Common Name	Coefficient of Wetness	Upper/Lower Watershed	SWM Pond Planting Zone	Wildlife Use Codes	Characteristic Codes	LID Codes
<i>Carex retrorsa</i>	Retrorsed Sedge	-5	Yes	3	 		
<i>Carex rosea</i>	Rosy Sedge	5	Yes	NR			
<i>Carex sparganioides</i>	Burreed Sedge	0	Yes	4			
<i>Carex stipata</i>	Awl-fruited Sedge	-5	Yes	3			BR, ES
<i>Carex vulpinoidea</i>	Fox Sedge	-5	Yes	3	 		DS
<i>Eleocharis erythropoda</i>	Red-stemmed Spikerush	-5	Yes	3			
<i>Eleocharis obtusa</i>	Blunt Spikerush	-5	U	3			
<i>Scirpus atrovirens</i>	Dark-green Bulrush	-5	Yes	3		 	BR
<i>Scirpus microcarpus</i>	Red-tinged Bulrush	-5	Yes	3			
Rushes							
<i>Juncus articulatus</i>	Jointed Rush	-5	Yes	3			
<i>Juncus dudleyi</i>	Dudleys Rush	0	Yes	4			
<i>Juncus effusus</i>	Soft Rush	-5	Yes	3		 	BR, F
<i>Juncus nodosus</i>	Knotted Rush	-5	Yes	3			
<i>Juncus tenuis</i>	Path Rush	0	Yes	4			BR, DS, F
<i>Juncus torreyi</i>	Torreys Rush	-3	Yes	3,4			
Emergents							
<i>Alisma triviale/subcordatum</i> (<i>A. plantago-aquatica</i>)	Water-plantain species	-5	Yes	2, 3			BR, F
<i>Calla palustris</i>	Wild Calla	-5	U	NR			
<i>Caltha palustris</i>	Yellow Marsh Marigold	-5	Yes	NR			F
<i>Carex lacustris</i>	Lake Sedge	-5	Yes	2, 3			
<i>Carex stricta</i>	Tussock Sedge	-5	U	2, 3	 		

Scientific Name	Common Name	Coefficient of Wetness	Upper/Lower Watershed	SWM Pond Planting Zone	Wildlife Use Codes	Characteristic Codes	LID Codes
<i>Cicuta bulbifera</i>	Bulb-bearing Water-hemlock	-5	U	NR			
<i>Cicuta maculata</i> ssp. <i>maculata</i>	Spotted Water-hemlock	-5	Yes	NR			
<i>Glyceria grandis</i>	Tall Mannagrass	-5	Yes	2, 3			
<i>Iris versicolor</i>	Harlequin Blue Flag	-5	Yes	2, 3			
<i>Sagittaria latifolia</i>	Broad-leaved Arrowhead	-5	Yes	2, 3			
<i>Schoenoplectus tabernaemontani</i>	Soft-stemmed Bulrush	-5	Yes	2, 3			BR, DS, F
<i>Scirpus cyperinus</i>	Cottongrass Bulrush	-5	Yes	2, 3	 		BR, DS, F
<i>Sium suave</i>	Hemlock Water-parsnip	-5	Yes	2, 3			
<i>Sparganium emersum</i>	Green-fruited Burreed	-5	U	2, 3			
<i>Sparganium eurycarpum</i>	Broad-fruited Burreed	-5	Yes	2, 3			BR, DS
<i>Typha latifolia</i>	Broad-leaved Cattail	-5	Yes	FB*			BR
Submergent Aquatics							
<i>Ceratophyllum demersum</i>	Common Hornwort	-5	Yes	1			
<i>Elodea canadensis</i>	Broad Waterweed	-5	Yes	1			
<i>Myriophyllum sibiricum</i>	Siberian Water-milfoil	-5	Yes	1			
<i>Najas flexilis</i>	Slender Naiad	-5	Yes	1			
<i>Potamogeton foliosus</i>	Leafy Pondweed	-5	Yes	1			
<i>Potamogeton pusillus</i> ssp. <i>pusillus</i>	Small Pondweed	-5	Yes	1			
<i>Potamogeton pusillus</i> ssp. <i>tenuissimus</i>	Narrow-leaved Small Pondweed	-5	Yes	1			

Scientific Name	Common Name	Coefficient of Wetness	Upper/Lower Watershed	SWM Pond Planting Zone	Wildlife Use Codes	Characteristic Codes	LID Codes
<i>Potamogeton richardsonii</i>	Richardsons Pondweed	-5	Yes	1			
<i>Ranunculus aquatilis</i>	White Water Buttercup	-5	Yes	1			
<i>Stuckenia pectinata</i>	Sago Pondweed	-5	Yes	1			
Floating Aquatics							
<i>Lemna minor</i>	Lesser Duckweed	-5	Yes	1			
<i>Nuphar ssp.iegata</i>	Ssp.iegated Pond-lily	-5	Yes	1			
<i>Nymphaea odorata ssp. odorata</i>	Fragrant Water-lily	-5	Yes	1			
<i>Persicaria amphibia</i>	Water Smartweed	-5	U	1			
<i>Potamogeton natans</i>	Floating Pondweed	-5	Yes	1			
<i>Spirodela polyrhiza</i>	Great Duckweed	-5	U	1			

*Please note *Typha latifolia* (broad-leaved cattail) is only recommended within the forebay of SWM ponds only.

Species use and characteristic codes were developed using current research and expert knowledge. This list is not intended to be exhaustive and is subject to change as a result of evolving information. A general description of the criteria that went into the assessment of each species use or characteristic code is as follows:

1. **Breeding and Migratory Birds:** Adapted from *CVC Native Plant List for Breeding and Migratory Birds*. These reflect ideal species for native bird breeding, nesting and foraging. Please note that other species of trees and shrubs may also provide nesting opportunities and utilization. If vegetation removals are required for a project, the absence of species identified on the above list does not negate the need for proper nesting surveys and assessments.
2. **Pollinators:** Includes species that attract or are utilized by various types of insect pollinators (bees, butterflies, moths etc.) during various life stages. This may include food and/ or habitat for larvae or adults.
3. **Mast Species:** Mast is considered the edible reproductive part (i.e. nuts and berries) produced by woody species of plants which are consumed by wildlife. Species on the list were identified to provide mast and foraging opportunities to native wildlife.
4. **Salt Tolerance:** Identifies species that can withstand some salinity in the soil around their root system. Please note that no species within the list is considered a halophyte (ability thrive in high salinity). All species listed are susceptible to decline or mortality in highly saline conditions. As a result, urban and roadside plantings may require additional mitigation measures to limit potential impacts of salt exposure.
5. **Drought Tolerance:** Identifies species that can tolerate dry to average-dry soil conditions. This may include mid to upper slopes, exposed flat sites, roadside edges and sites with shallow or highly modified soils (e.g. mixed with non-native material such as gravel). Please note that some species identified can tolerate dry periods, but do not prefer dry soils as a long-term growing condition.
6. **Light Tolerance:** Identifies species that prefer full sun (SU) or fully shaded sites (SH). The list does not presently indicate species which are tolerant to both sun and shade or part shade conditions.
7. **LID Codes:** Species identified for various LID features were adapted directly from the *CVC Low Impact Development Stormwater Management Planning and Design Guide, Appendix B: Landscape Design Guide for LID*.

Section 2: CVC Seed Mixes

Version 2 – April 2018

In partnership with Ontario Seed Company (OSC), CVC has developed a selection of seed mixes that are appropriate for use within the Credit River watershed. These seed mixes are suitable for restoration and naturalization projects, as well as for planting plans for stormwater management facilities. For complex sites a qualified professional should review the site conditions to determine an appropriate seed mix.

These mixes have been designed to be used in a variety of soil and moisture conditions. Proponents can select any supplier to purchase their seed mixes but CVC recommends proponents select suppliers who obtain/ source seeds locally.

If specific habitat or ecological community targets are being pursued for a project (e.g. grasslands, prairie, pollinator habitat or a specific wetland community type), contact a CVC Planning Ecologist for additional input.

Application Rate

These seed mixes should be applied at a rate of 22 - 25 kg/ha (21-23 lbs/acre) or at a rate of 250g/90m² (1/2lb/1000 sq. ft) for smaller areas. Seed mixes should be used in conjunction with an appropriate cover crop (refer to Section 3 below)

CVC 1 – Upland Mix

Generally moist to dry upper slope and tableland sites and soils or SWM pond zones 3 to 5.

Scientific Name	Common Name	%
<i>Anemone canadensis</i>	Canada Anemone	1
<i>Asclepias syriaca</i>	Common Milkweed	2
<i>Carex granularis</i>	Limestone Meadow Sedge	15
<i>Elymus virginicus</i> var. <i>virginicus</i>	Virginia Wildrye	40
<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	1
<i>Monarda fistulosa</i> var. <i>fistulosa</i>	Wild Bergamot	1
<i>Oenothera biennis</i>	Common Evening Primrose	25
<i>Rudbeckia hirta</i>	Black Eyed Susan	10
<i>Solidago canadensis</i> var. <i>canadensis</i>	Canada Goldenrod	1
<i>Solidago juncea</i>	Early Goldenrod	1
<i>Solidago nemoralis</i> ssp. <i>nemoralis</i>	Gray-stemmed Goldenrod	1
<i>Symphyotrichum novae-angliae</i>	New England Aster	1
<i>Verbena urticifolia</i>	White Vervain	1

CVC 2 – Lowland Mix

Generally wet to moist sites and soils including floodplain/ riparian areas or SWM pond zones 2-3.

Scientific Name	Common Name	%
<i>Carex vulpinoidea</i>	Fox Sedge	25
<i>Elymus virginicus</i> var. <i>virginicus</i>	Virginia Wildrye	35
<i>Juncus tenuis</i>	Path Rush	5
<i>Poa palustris</i>	Fowl Bluegrass	25
<i>Scirpus atrovirens</i>	Dark-green Bulrush	5
<i>Verbena hastata</i>	Blue Vervain	5

CVC 3 – Lowland Restoration Mix

Wet to moist sites and soils including riparian areas where restoration or enhancement of an existing natural community is required. Typically not required for SWM ponds.

Scientific Name	Common Name	%
<i>Anemone canadensis</i>	Canada Anemone	1
<i>Bidens cernua</i>	Nodding Beggarticks	1
<i>Carex vulpinoidea</i>	Fox Sedge	25
<i>Elymus virginicus</i> var. <i>virginicus</i>	Virginia Wildrye	25
<i>Eutrochium maculatum</i> var. <i>maculatum</i>	Spotted Joe Pye Weed	1
<i>Juncus effusus</i> ssp. <i>solutus</i>	Soft Rush	5
<i>Juncus tenuis</i>	Path Rush	5
<i>Poa palustris</i>	Fowl Bluegrass	25
<i>Scirpus atrovirens</i>	Dark-green Bulrush	5
<i>Symphotrichum novae-angliae</i>	New England Aster	1
<i>Symphotrichum puniceum</i>	Swamp Aster	1
<i>Verbena hastata</i>	Blue Vervain	5

*% of seed mix refers to % by weight

Section 3: CVC Cover Crop Selection Guideline

Version 1.0 – April 2018

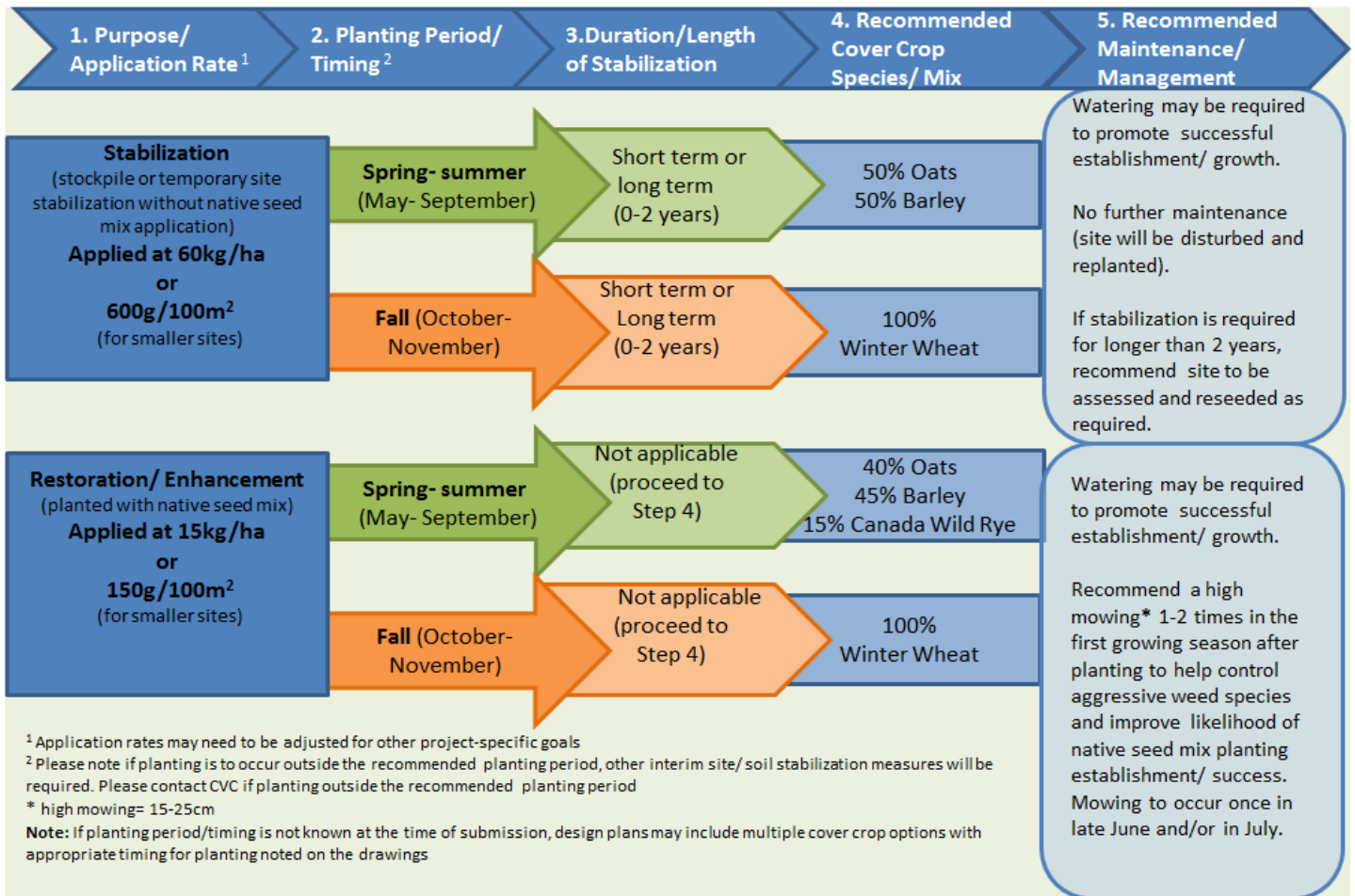
The following cover crop species recommendations were developed in consultation with Ontario Seed Company (OSC), review of relevant scientific information and expert knowledge. The purpose of this guideline is to provide direction on the selection of cover crop species for use in development and restoration projects within the Credit River watershed. Cover crop application is an important aspect of development and restoration projects, providing multiple ecological functions including soil stabilization and erosion prevention as well as soil compaction reduction. When applied with an appropriate native seed mix, the recommended cover crops may also act as a nurse crop; suppressing weed species and providing nutrient supply to the soil for improved native seed mix establishment and growth. Alternative non-invasive cover crop species that are not in the guideline may be suitable to meet project specific goals. Further consultation with CVC, prior to submission of restoration plans, is recommended in such cases.

Exposed sites should be stabilized as soon after completion of land disturbance as possible. Please refer to applicable municipal guidelines for stabilization requirements of exposed sites. Please note that cover crop and native seed mix application is not recommended in mid-summer (July-August) unless appropriate maintenance (i.e. regular watering in dry conditions) can be provided. Interim erosion protection may be required for some projects.

Site preparation and assessment is also recommended prior to application. Ensuring that soils are of sufficient quality and depth (i.e. a healthy topsoil layer is present, top and sub soils are not heavily compacted) to receive cover crop and seed mix application is imperative for supporting growth and establishment. Management of cover crop plantings is also integral to the success of naturalization, restoration and compensation efforts. Improper management can result in increased mortality of planted shrub, herbaceous and tree species which may increase project costs as a result of stock replacement or reseeded efforts. Management recommendations are provided in the cover crop selection tool below. Please refer to the Cover Crop Selection Tool below to determine which cover crop species or species mix is suitable for project specific requirements and goals. The list below is provided to ensure accurate sourcing of cover crop species based on scientific and common names:

Common Name	Scientific Name
Oats	<i>Avena sativa</i>
Barley	<i>Hordeum vulgare</i>
Canada Wild Rye	<i>Elymus canadensis</i>
Winter Wheat	<i>Triticum aestivum</i>

CVC Cover Crop Selection Tool



CVC COMMENTS AND RESPONSES – DRAFT PROJECT FILE

ITEM	CVC COMMENTS (April 30, 2024)	AECOM RESPONSES (October 23, 2024)
1.	It is understood that the collection of excess snow from the road right of way is a subjective process based on the specific locations where the visibility is obstructed. Please comment if there are any set criteria as to when or how much snow will be removed and relocated for any given year.	Snow removal volumes are difficult to predict based on many factors such as the variability of precipitation amounts each winter, and across the Region, along with potential complaints from residents. The capacity of each snow storage facility was estimated based on the paved area with snow end dumped from dump trucks with an approximate height of 1.5m. It is assumed that shaping of the snow pile is minimal and it is not stepped.
2.	The post construction monitoring must include monitoring the SWM pond outfalls for erosion at Sites 3 and 10. The outfalls are expected to perform as a control to the system; however, with increased runoff reporting to the SWM pond, and pond performance decreasing due to age and accumulation of sediment, the outfall may not operate as designed. Any deficiencies noted in the pond infrastructure must be addressed to ensure there are no impacts to the downstream regulated watercourses. Please provide this commitment in the PFR.	Added as a commitment under Section 7.9 of the Project File Report.
3.	The post construction monitoring must include monitoring the roadside ditch for erosion at Site 9 along Mayfield Road. As the exact quantities of the snowmelt and rainfall runoff are uncertain for any given year, the monitoring will determine the effectiveness of the system and identify the need to address any deficiencies. Please provide this commitment in the PFR.	Added as a commitment under Section 7.9 of the Project File Report.
4.	The erosion and sediment control plans are expected as part of the detailed design submission. These are to include adequate erosion protection measures and LID details.	Erosion and Sediment Control Plans will be provided at detailed design, where required.

ITEM	CVC COMMENTS (April 30, 2024)	AECOM RESPONSES (October 23, 2024)
5.	Please consider using suitable native species in all SWM/LID features and for natural area restoration. Please refer to CVC's Plant Selection Guidelines (attached) when making species selections.	CVC's Plant Selection Guidelines will be considered for native species planting selection.

AECOM

**Toronto and Region Conservation
Authority**



From: Gray, Derek
Sent: Thursday, September 22, 2022 4:19 PM
To: Emma Benko; Banuri, Syeda
Cc: Shirin Varzgani; Trenouth, Bill; Zandvliet, Samantha
Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

Emma, thanks for the comments. They'll be incorporated with the others for the TAC meeting next week.

Stay well,

Derek R. Gray, P.Eng., A.A.E.
Climate Change Specialist
derek.gray@aecom.com

I work flexibly. I am sending this message now because it suits me. I do not expect you to read, action or respond out of your own working hours. The best way to reach me is via email as my office hours are generally Tuesday afternoon till end of business Thursday afternoon.

From: Emma Benko <emma.benko@trca.ca>
Sent: September 22, 2022 3:57 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Gray, Derek <Derek.Gray@aecom.com>
Cc: Shirin Varzgani <Shirin.Varzgani@trca.ca>
Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

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Hi Derek and Syeda,

Please see attached TRCA staff's response to the draft reports for the above noted project.

Please let me know if you have any questions. Thank you,

Emma Benko (She/Her)

Planner

Infrastructure Planning and Permits | Development and Engineering Services

T: [\(437\) 880-2422](tel:(437)880-2422)

E: emma.benko@trca.ca

A: [101 Exchange Avenue, Vaughan, ON, L4K 5R6](https://www.trca.ca) | [trca.ca](https://www.trca.ca)



From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Monday, August 22, 2022 10:21 AM
To: Crawford, Mark <mark.crawford@peelregion.ca>; Carrick, Sean <sean.carrick@peelregion.ca>; Zia, Solmaz <solmaz.zia@peelregion.ca>; Lovisotto, Sandy <sandy.lovisotto@peelregion.ca>; Despins, Christopher <christopher.despins@peelregion.ca>; Saini, Sakshi <sakshi.saini@peelregion.ca>; Saiyed, Sabbir <sabbir.saiyed@peelregion.ca>; Turner, William <william.turner@peelregion.ca>; Kovach, Steven <steven.kovach@peelregion.ca>; Bennington, Michael <michael.bennington@peelregion.ca>; Polga, Miriam <miriam.polga@peelregion.ca>; ZYG-Peel Health & Built Environment <zzg-peelhealthbuiltenvironment@peelregion.ca>; ZYG-PWI <pwi@peelregion.ca>; Crawford, Heather <heather.crawford@peelregion.ca>; Saddi, Asha <asha.saddi@peelregion.ca>; Lavhey, James <james.lavhey@peelregion.ca>; Jamroz, Damian <damian.jamroz@peelregion.ca>; Lanthier, Jennifer <jennifer.lanthier@peelregion.ca>; Estephan, Therese <therese.estephan@peelregion.ca>; Kilis, Jakub <Jakub.Kilis@cvc.ca>; Emma Benko <emma.benko@trca.ca>; Cassie Schembri <Cassie.Schembri@caledon.ca>; Ryan Grodecki <ryan.grodecki@caledon.ca>; Aiysha Syed <Aiysha.Syed@mississauga.ca>; Jeremy Johnson <Jeremy.johnson@caledon.ca>; Brian Baird <brian.baird@caledon.ca>; Smith, Neal <neal.smith@peelregion.ca>; Gardiner, Len <len.gardiner@peelregion.ca>; Perez, Julian <julian.perez@peelregion.ca>; Eberhardt, Daniel <daniel.eberhardt@peelregion.ca>; Heralall, Michael <michael.heralall@brampton.ca>
Cc: Rook, Sally <sally.rook@peelregion.ca>; Trenouth, Bill <bill.trenouth@aecom.com>; Gray, Derek <Derek.Gray@aecom.com>; Waz, Anna <anna.waz@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>
Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

Hi all,
Please, see the email below. This email is a friendly reminder that we are looking forward to your feedback by August 26, 2022. We will set up our next TAC meeting for early September. Please, look for an email from AECOM on the Region's behalf.
Thanks,.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri@peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Banuri, Syeda
Sent: August 4, 2022 5:06 PM
To: Crawford, Mark <Mark.Crawford@peelregion.ca>; Carrick, Sean <Sean.Carrick@peelregion.ca>; Zia, Solmaz <Solmaz.Zia@peelregion.ca>; Lovisotto, Sandy <Sandy.Lovisotto@peelregion.ca>; Despins, Christopher <Christopher.Despins@peelregion.ca>; Saini, Sakshi <sakshi.saini@peelregion.ca>; Saiyed, Sabbir <Sabbir.Saiyed@peelregion.ca>; Turner, William <William.Turner@peelregion.ca>; Kovach, Steven <Steven.Kovach@peelregion.ca>; Bennington, Michael <Michael.Bennington@peelregion.ca>; Polga, Miriam <Miriam.Polga@peelregion.ca>; ZYG-Peel Health & Built Environment <ZZG-PeelHealthBuiltEnvironment@peelregion.ca>; ZYG-PWI <pwi@peelregion.ca>; Crawford, Heather

<Heather.Crawford@peelregion.ca>; Saddi, Asha <Asha.Saddi@peelregion.ca>; Lavhey, James <James.Lavhey@peelregion.ca>; Jamroz, Damian <Damian.Jamroz@peelregion.ca>; Lanthier, Jennifer <Jennifer.Lanthier@peelregion.ca>; Estephan, Therese <Therese.Estephan@peelregion.ca>; Jakub.Kilis@cvc.ca; Emma Benko <emma.benko@trca.ca>; Cassie Schembri <cassie.schembri@caledon.ca>; Ryan Grodecki <ryan.grodecki@caledon.ca>; Aiysha Syed <Aiysha.Syed@mississauga.ca>; jeremy.johnson@caledon.ca; Brian Baird <brian.baird@caledon.ca>; Smith, Neal <neal.smith@peelregion.ca>; Gardiner, Len <Len.Gardiner@peelregion.ca>; Perez, Julian <julian.perez@peelregion.ca>; Eberhardt, Daniel <Daniel.Eberhardt@peelregion.ca>; Heralall, Michael <Michael.Heralall@brampton.ca>

Cc: Rook, Sally <Sally.Rook@peelregion.ca>; Trenouth, Bill <bill.trenouth@aecom.com>; Gray, Derek <Derek.Gray@aecom.com>; anna.waz@aecom.com; Grueneis, Karl <Karl.Grueneis@aecom.com>

Subject: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - Draft Reports Review

Dear all,

The Region of Peel has retained AECOM Canada to undertake and complete the necessary studies to evaluate and validate the snow storage function at the selected Region of Peel (and one Town of Caledon) owned existing properties for the near and long-term snow storage solutions that are environmentally sound and viable from social, economic and technical perspective. The project is following a similar planning process as *Schedule "B"* Municipal Class Environmental Assessment (EA) process although it is considered a *Schedule "A"* or pre-approved project. We have now completed Part I of the project and prepared draft background studies' reports.. We will be conducting a Technical advisory Committee meeting in August followed by a PIC in Fall 2022. The draft reports are available for your review and comments at the link provided below to download.

Link: <https://we.tl/t-nuEyhfXEry>

It is recommended to please, download the files at your earliest before the link expires. If you can't access the files, please let me or Bill Trenouth know. We will appreciate your comments **by no later than August 26, 2022**.

Project Background:

The Region of Peel owns and maintains 1,663 lane-kilometers across 26 Regional Roads, which includes 103 bridges. As part of the comprehensive maintenance of this vital transportation network, the Region provides a high level of service for winter clearing of snow using a 24-hour immediate response program to clear snow, following the "Class 1 bare pavement" standards, which have been approved by Regional Council. After winter storm events, snow accumulation on boulevards restricts sightlines, impede on-street parking and the use of sidewalks and multi-use trails in some areas. These issues are particularly pronounced in areas with limited boulevard widths following ploughing operations. The Region's Operations staff also remove snow from bridges. The Region hauls and stores approximately 2,000-3,000 tonnes of snow from its roadways and bridges annually, and that amount could increase with multi-modal transportation initiatives planned for man right-of-way areas.

The Region's traditional snow storage areas are no longer available or environmentally appropriate for use, and as such the Region is looking to develop: a) sites for snow storage and b) to create environmentally sound and sustainable solutions for managing the snowmelt from such facilities according to applicable standards and best management practices.

The Agency has shortlisted nine (9) Regional (or publicly) owned properties to be considered for snow storage purposes along with other existing or future uses. The sites are:

- Hwy 50 Carpool lot
- Becket Sproule Reservoir and Pumping Station
- West Brampton Reservoir and Pumping Station
- Clarkson Wastewater Treatment Plant
- Johnston Sports Park (owned by the Town of Caledon)
- Tullamore Reservoir and Pumping Station

- Hanlan West (Future Water Reservoir and Pumping Station Expansion site)
- 220 Westcreek Boulevard, Brampton
- Alloo Reservoir and Pumping Station

(Unless noted otherwise, all sites listed above are owned by the Region).

Considering the potential environmental and social impacts associated with the creation of snow storage facilities, the Region has retained AECOM Canada Ltd. (AECOM) to evaluate all candidate sites according to the Schedule B Municipal Class EA process. Further, sites which are deemed suitable for snow storage development will undergo preliminary design, at which point the Class EA process will be completed and the Region may elect to proceed with detailed design for any viable sites which remain. The project team undertook extensive initial consultation with various Regional of Peel and Town of Caledon departments in order to identify any early triggers which would preclude any of the candidate sites from further consideration. Through this process, **four** of the nine initial sites were eliminated from further consideration. As part of the initial assessment for the remaining sites, AECOM has completed a number of studies which will inform their assessment through the EA process. Studies completed include:

- Traffic Assessment
- Cultural Heritage Assessment
- Archaeological Assessment (Stage I)
- Fluvial Geomorphological Assessment
- Geotechnical Assessment
- Hydrogeological Assessment
- Soils Assessment
- Storm Drainage Assessment

A link to download these reports is provided above and as the identified Technical Advisory Committee (TAC) member from your respective agency, it is kindly requested that you review these reports in advance of our next TAC consultation meeting, which is proposed to be held in late August/early September. Please look for a calendar invite for the next TAC meeting in a separate email.

If you have any comments or questions, please let me know.
Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
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From: Gray, Derek <Derek.Gray@aecom.com>

Sent: February 17, 2021 2:59 PM

To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Crawford, Mark <mark.crawford@peelregion.ca>; Rook, Sally <sally.rook@peelregion.ca>; Carrick, Sean <sean.carrick@peelregion.ca>; Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>; Lovisotto, Sandy <sandy.lovisotto@peelregion.ca>; Thomsen, Lori-Ann <lori-ann.thomsen@peelregion.ca>; Despina, Christopher <christopher.despina@peelregion.ca>; Saiyed, Sabbir <sabbir.saiyed@peelregion.ca>; Saini, Sakshi <sakshi.saini@peelregion.ca>; Glass, John <john.glass@peelregion.ca>; Hennings, Jeff <jeff.hennings@peelregion.ca>; Kovach, Steven <steven.kovach@peelregion.ca>; Bennington, Michael <michael.bennington@peelregion.ca>; Polga, Miriam <miriam.polga@peelregion.ca>; Estephan, Therese <therese.estephan@peelregion.ca>; Thomsen, Jeanne <jeanne.thomsen@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; ZG-Peel Health & Built Environment <zgg-peelhealthbuiltenvironment@peelregion.ca>;

ZZG-PWI <pwi@peelregion.ca>; Lavhey, James <james.lavhey@peelregion.ca>; Jamroz, Damian <damian.jamroz@peelregion.ca>

Cc: Detaramani, Tina <tina.detaramani@peelregion.ca>; Saddi, Asha <asha.saddi@peelregion.ca>; Trenouth, Bill <bill.trenouth@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>; Godard, Michael <Michael.Godard@aecom.com>; Mbai, Michelle <michelle.mbai@aecom.com>; Waz, Anna <anna.waz@aecom.com>; Ahn, Taesang <Taesang.Ahn@aecom.com>

Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - PROJECT KICKOFF 60646784

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Folks, attached please find the finalized minutes of our meeting.

At this time we are waiting information of the Peel Staff that will be assisting as members of the Project Technical Advisory Committee.

If you have any questions or concerns I'm available at your convenience. The best way to reach me is via email.

Stay well,

Derek R. Gray, P.Eng., A.A.E

Manager, Water Resources and Resiliency

derek.gray@aecom.com

Cell # 416 452 5390

From: Gray, Derek

Sent: Wednesday, February 3, 2021 5:05 PM

To: 'Banuri, Syeda' <syeda.banuri@peelregion.ca>; Crawford, Mark <mark.crawford@peelregion.ca>; Rook, Sally <sally.rook@peelregion.ca>; Carrick, Sean <sean.carrick@peelregion.ca>; Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>; Lovisotto, Sandy <sandy.lovisotto@peelregion.ca>; Thomsen, Lori-Ann <lori-ann.thomsen@peelregion.ca>; Despins, Christopher <christopher.despins@peelregion.ca>; Saiyed, Sabbir <sabbir.saiyed@peelregion.ca>; Saini, Sakshi <sakshi.saini@peelregion.ca>; Glass, John <john.glass@peelregion.ca>; Hennings, Jeff <jeff.hennings@peelregion.ca>; Kovach, Steven <steven.kovach@peelregion.ca>; Bennington, Michael <michael.bennington@peelregion.ca>; Polga, Miriam <miriam.polga@peelregion.ca>; Estephan, Therese <therese.estephan@peelregion.ca>; Thomsen, Jeanne <jeanne.thomsen@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; ZZG-Peel Health & Built Environment <zzg-peelhealthbuiltenvironment@peelregion.ca>; ZZG-PWI <pwi@peelregion.ca>; Lavhey, James <james.lavhey@peelregion.ca>; Jamroz, Damian <damian.jamroz@peelregion.ca>

Cc: Detaramani, Tina <tina.detaramani@peelregion.ca>; Saddi, Asha <asha.saddi@peelregion.ca>; Trenouth, Bill <bill.trenouth@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>; Godard, Michael <Michael.Godard@aecom.com>; Mbai, Michelle <michelle.mbai@aecom.com>; Waz, Anna <anna.waz@aecom.com>; Ahn, Taesang <Taesang.Ahn@aecom.com>

Subject: RE: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - PROJECT KICKOFF 60646784

Folks, good afternoon.

Attached please find the draft minutes from the kickoff meeting along with the current Issues Maps, request for information tracking sheet, slides from the meeting and updated draft schedule.

Please review the minutes and advise if there are any material errors or omissions. Due to the size of the group we didn't get all of the titles so if yours is missing, please let us know.

In the request for information tracking sheet rows have been highlighted for areas where we haven't received the information yet.

Feel free to start providing comments on the sites. When we had prepared the proposal the issues maps were intended to track information and drive input from the stakeholders.

If you have any questions or concerns I'm available at your convenience. The best way to reach me is via email.

Stay well,

Derek R. Gray, P.Eng., A.A.E

Manager, Water Resources and Resiliency

derek.gray@aecom.com

Cell # 416 452 5390

-----Original Appointment-----

From: Banuri, Syeda <syeda.banuri@peelregion.ca>

Sent: Tuesday, January 12, 2021 11:00 AM

To: Banuri, Syeda; Crawford, Mark; Rook, Sally; Carrick, Sean; Nieuwenhuysen, Bob; Lovisotto, Sandy; Thomsen, Lori-Ann; Despina, Christopher; Saiyed, Sabbir; Saini, Sakshi; Glass, John; Hennings, Jeff; Kovach, Steven; Bennington, Michael; Polga, Miriam; Estephan, Therese; Thomsen, Jeanne; Lee, Anna (Public Works); ZZG-Peel Health & Built Environment; ZZG-PWI; Lavhey, James; Jamroz, Damian

Cc: Detaramani, Tina; Saddi, Asha; Gray, Derek; Trenouth, Bill; Grueneis, Karl

Subject: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN - PROJECT KICKOFF

When: Tuesday, January 26, 2021 1:30 PM-3:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

Subject: 13-4007B- POTENTIAL SNOW STORAGE PROPERTIES DETAILED ANALYSIS AND PRELIMINARY DESIGN

Hi All,

The Region of Peel has retained AECOM Canada to undertake and complete the necessary studies to evaluate and validate the snow storage function at the selected Region of Peel (and one Town of Caledon) owned existing properties for the near and long-term snow storage solutions that are environmentally sound and viable from social, economic and technical perspective. The project will follow a similar planning process as *Schedule "B"* Municipal Class Environmental Assessment (EA) process although it is considered a *Schedule "A"* or pre-approved project.

A total of *nine* sites were identified during a preliminary internal screening completed by the Region Staff included in this study. The nine sites are represented in the attached Map package. Please, note that the information presented is preliminary in order to engage meaningful discussions with internal and (eventually) external stakeholders. It will continue to evolve as the project progresses and will be revised/refined through your input. As this work will be proceeding as a Schedule 'B', the scope of work includes a myriad of studies including but not limited to the natural environment, archaeology, cultural heritage, hydrogeological, geotechnical and contaminated site assessment, source protection, subsurface utility investigations, topographic survey, fluvial geomorphology, stormwater, and traffic management along with public and agency consultation. It is anticipated that the validated sites which qualify for

developing a small snow storage facility along with other existing or future uses will be considered for preliminary design completed through this assignment.

The project is anticipated to be completed over a year and a half. **Project Kick-off meeting** is now scheduled to introduce the project and confirm a Technical Advisory Committee which will participate and provide valuable input throughout the project. We would like to engage yourself and/or your staff and would hope you are able to designate a single point of contact to work with us through this year on this exciting project. Please, also advise if I have missed anyone on the circulation and forward the meeting invitation.

If you need further information and have any questions or comments, please let me know.

Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri@peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860



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September 22, 2022

CFN 62824

BY E-MAIL ONLY (syeda.banuri@peelregion.ca)

Syeda Banuri
Regional Municipality of Peel
10 Peel Centre Drive, Suite B, 4th Floor,
Brampton,
ON L6T 4B9

Dear Syeda Banuri,

**Re: Response to Draft Technical Studies
Snow Storage Facility Study – Properties Evaluation
Municipal Class Environmental Assessment – Schedule B
Various Watersheds; Various Municipalities; Regional Municipality of Peel**

Toronto and Region Conservation Authority (TRCA) staff received Peel Snow Storage Site Memo, Fluvial Geomorphological Assessment dated June 2022, Natural Environment Report dated February 2022, Geotechnical, Hydrogeological and Contaminated Site Assessment Report dated June 2022, Conceptual Snow Storage Facilities and SWM Servicing Approach dated May 11, 2022 for the above noted project on August 10, 2022.

PROJECT OVERVIEW

TRCA staff understand that the purpose of this EA is to complete the necessary studies to evaluate and validate the snow storage function at the selected Region of Peel (and one Town of Caledon) owned existing properties for the near and long-term snow storage solutions that are environmentally sound and viable from social, economic and technical perspective.

The four selected sites regulated by TRCA are as follows:

- Site 1: Highway No. 50 Carpool lot (Caledon)
- Site 5: Johnston Sports Park (Caledon, ON)
- Site 6: Tullamore Reservoir and Pumping Station (Caledon, ON)
- Site 9: Alloa Reservoir and Pumping Station (Caledon, ON)

PROJECT REVIEW

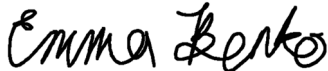
The following concerns must be addressed in the final EA document. Additional detailed comments are provided in Appendix A. These comments should be included as an appendix in the final EA report.

RESUBMISSION REQUIREMENTS

Please ensure that TRCA staff receives one (1) digital copy of the draft **ESR/EA document**. The draft EA document should be accompanied by a covering letter that uses the numbering scheme provided in this letter and identifies how these comments have been addressed. Digital materials must be submitted in PDF format, with drawings pre-scaled to print on 11"x17" pages. Materials may be submitted on discs, via e-mail (if less than 5 MB), or through file transfer protocol (FTP) sites (if posted for a minimum of two weeks).

Please contact me at 437-880-2422 or at emma.benko@trca.ca to arrange a meeting if clarification on these comments is required.

Regards,



Emma Benko
Planner, Infrastructure Planning and Permits
Development and Engineering Services

Attached: Appendix A

BY E-MAIL

cc: Consultant: Derek Gray, Aecom (derek.gray@aecom.com)
TRCA: Shirin Varzani, Senior Planner, Infrastructure Planning and Permits

APPENDIX A: TRCA COMMENTS AND PROPONENT RESPONSES

ITEM	TRCA COMMENTS (September 22, 2022)	PROponent/CONSULTANT RESPONSE (INSERT DATE)
Stormwater Management		
<i>Stormwater Management Memo</i>		
1.	Please update Section 2.1 to state that the locations do fall within Conservation Authority regulated area. Currently, the report says they do not.	
2.	Bullet #4 of the Opportunities and Constraints section outlines that outlets have not been determined and will be completed at detailed design, but it notes it could impact serviceability. Given the potential impacts TRCA staff recommend including outlet evaluation at this stage in order to gauge appropriate serviceability.	
3.	As watershed management agency, TRCA established SWM criteria for each watershed to reduce impacts of any development on the existing flooding risk, in-stream erosion, quality of water draining to the regulated features and site water balance. It is important that TRCA Stormwater Management Criteria document needs to be identified in section 2.4 of the submitted memo entitled Conceptual Snow Storage Facilities and SWM Servicing Approach.	
4.	Please revise the proposed SWM strategies need to be revised as per TRCA Stormwater Management Criteria document	
<i>General Stormwater Management</i>		
5.	TRCA staff strongly recommend against LID infiltration measures due to the high presence of chlorides. An alternative would be an evapotranspiration LID that focuses on holding water and evapotranspiring it back into the atmosphere.	
6.	Please clarify if there are opportunities to create a treatment train approach to Stormwater management for these snow sites that can focus more on evapotranspiration as a main strategy and then additional traditional SWM treatments in order to help reduce the increased chlorides in the system.	
Planning Ecology		
<i>Natural Environment Report</i>		
7.	It would be beneficial to update Table 3-4 and provide a column of which site each SAR or SOCC occur.	
8.	Please remove suggestion #31 under the heading “Snow Melt during Operations”. Snowmelt should not be directly deposited into watercourses.	

9.	Given the close proximity of the watercourse to Site #1, TRCA staff would appreciate further clarification as to why Site #1 was considered a more environmentally preferred choice over site #9.	
Hydrogeology		
<i>Geotechnical, Hydrogeological and Contaminated Site Assessment Report</i>		
10.	TRCA staff understand that groundwater monitoring is being carried out and infiltration tests will be conducted. Results of the additional investigations will be provided in an addendum. There are no hydrogeology related concerns at this time. Clarification is requested on following items.	
11.	For Site #5 Johnston Sport Park, groundwater levels measured in MW (BH5-3/MW) are provided in Table 6. However, it is also indicated that the monitoring well was frozen during the period of measurements (Feb 11, 2022 to March 08, 2022). When the monitoring well was frozen, how the water levels were measured?	
12.	Please provide comments on potential groundwater quality impacts from infiltration of snowmelt runoff within proposed bio-swales with check dams with intend to promote infiltration.	
General		
13.	Table 6-1 (Anticipated Permits and Approvals) of the Natural Environment Report states that no permit from TRCA is required. As TRCA regulated areas are located on Sites 1, 5, 6 and 9 an O.Reg 166/06 permit may be required.	

Subject: RE: CFN 62824 - Peel Snow Storage Sites - TRCA Response to PIC and Notice of Commencement

From: Emma Benko <emma.benko@trca.ca>

Sent: Tuesday, January 31, 2023 4:40 PM

To: Banuri, Syeda <syeda.banuri@peelregion.ca>

Cc: Shirin Varzgani <Shirin.Varzgani@trca.ca>; Victoria Kramkowski <victoria.kramkowski@trca.ca>; Courtney Row <CRow@rvanderson.com>

Subject: CFN 62824 - Peel Snow Storage Sites - TRCA Response to PIC and Notice of Commencement

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hi Syeda,

Thank you for circulating the PIC and Notice of Commencement for the above noted project to TRCA Staff. While we have no new comments at this time, I have attached our response letter with previously offered comments and information on TRCA's role in the EA review process.

Thank you,

Emma Benko (She/Her)

Planner

Infrastructure Planning and Permits | Development and Engineering Services

T: [\(437\) 880-2422](tel:(437)880-2422)

E: emma.benko@trca.ca

A: [101 Exchange Avenue, Vaughan, ON, L4K 5R6](https://www.trca.ca) | [trca.ca](https://www.trca.ca)



January 31, 2023

CFN 62824

BY E-MAIL ONLY (syeda.banuri@peelregion.ca)

Syeda Banuri
Regional Municipality of Peel
10 Peel Centre Drive, Suite B, 4th Floor,
Brampton,
ON L6T 4B9

Dear Syeda Banuri,

**Re: Response to Notice of Commencement PIC #1 Boards
Snow Storage Facility Study - Properties Evaluation
Municipal Class Environmental Assessment - Schedule B
Various Watersheds; Various Municipalities; Regional Municipality of Peel**

Toronto and Region Conservation Authority (TRCA) staff received the Notice of Study Commencement for the above noted Schedule BEA, on December 1st, 2022. Staff received the Public Information Centre materials on December 8th, 2022. As a recognized commenting agency under the Ontario Environmental Assessment Act, TRCA has interests in this project.

PROJECT OVERVIEW

TRCA staff understand that the purpose of this EA is to complete the necessary studies to evaluate and validate the snow storage function at the selected Region of Peel (and one Town of Caledon) owned existing properties for the near and long-term snow storage solutions that are environmentally sound and viable from social, economic and technical perspective.

This study will evaluate eight (8) snow storage sites, four (4) of which are regulated by TRCA. The four selected sites regulated by TRCA are as follows:

- Site 1: Highway No. 50 Carpool lot (Caledon)
- Site 5: Johnston Sports Park (Caledon, ON)
- Site 6: Tullamore Reservoir and Pumping Station (Caledon, ON)
- Site 9: Alloa Reservoir and Pumping Station (Caledon, ON)

TRCA COMMENTING ROLES

As detailed in TRCA's 2014 [The Living City Policies](#) (LCP), TRCA has a number of commenting roles relative to its review of this environmental assessment, including:

1. Regulatory Authority
2. Delegated Provincial Interests
3. Public Commenting Body
4. Resources Management Agency
5. Service Provider
6. Land Owner
7. Source Protection Authority under the Clean Water Act

These are further detailed in **Appendix A: TRCA Commenting Roles** .

TRCA AREAS OF INTEREST

In relation to this application, TRCA staff has identified a number of areas of interest within the study area related to these various commenting roles, including:

1. TRCA Program and Policy Areas
 - a. Natural System Programs and Policies
 - b. Sustainability Programs and Policies
2. Provincial Program Areas
3. Federal Program Areas

Further details are provided in **Appendix B: TRCA Areas of Interest**.

In relation to these areas of interest, please be advised that TRCA has select digital data available through an open data platform on the [TRCA website](#) that should be used to supplement the existing conditions analysis in the development of the environmental assessment. Upon request, TRCA can provide additional data for areas of interest not available on the web. Please contact the undersigned as needed.

ASSESSMENT OF ALTERNATIVES

In developing, evaluating and selecting alternatives, staff require the LCP policies be considered. TRCA staff recommends the preferred alternative meets the policies of Section 7. In particular, impacts to and opportunities for the following should be addressed:

1. Flooding, erosion or slope instability
2. Existing landforms, features and functions
3. Aquatic and terrestrial habitat and functions, including connectivity
4. TRCA property and heritage resources
5. Environmental best management practices that support climate change mitigation and adaptation
6. Community and public realm benefits

TRCA requires that the preferred alternative considers avoiding, minimizing, mitigating, and compensating impacts to the ecosystem, and avoid, mitigate or remediate hazards, in that order. In order to fulfil requirements of Ontario Regulation 166/06 at the detailed design stage, staff also requires that the preferred alternative meets LCP policies in Section 8. Please note that the Conservation Authority Act has recently been amended and the Ontario Regulation 166/06 is currently being reviewed.

In order to ensure TRCA concerns are addressed early in the review process, it is recommended that the TRCA planner be contacted when key project milestones are reached, as detailed in **Appendix C: Recommended Contact Points**. Please contact the planner to discuss the appropriate time for a site visit; please ensure the TRCA planner is included in the technical advisory committee; and please add Victoria Kramkowski, Government and Community Relations Specialist to the project mailing list to receive any public information updates.

SUBMISSION REQUIREMENTS

As this project proceeds through the various stages of the environmental assessment process, please ensure the following is provided to TRCA for review and comment as the appropriate time:


Digital Submissions

1. All technical advisory committee meeting agendas, as well as draft and final meeting minutes
2. All TRCA technical meeting agendas, as well as draft and final meeting minutes
3. Draft public information boards, prior to public review
4. Notices of public meetings, including final display material and handouts
5. Draft Phase 1 and 2 Report, if applicable
6. Draft technical reports and associated materials, including a covering letter that outlines the project purpose and lists the reports enclosed for review
7. Draft evaluation criteria and matrices, including a summary that details how the criteria and weighting (if applicable) were established
8. Draft EA document, including a covering letter that outlines how previous TRCA comments have been addressed
9. Final EA document, including a covering letter that outlines how previous TRCA comments have been addressed
10. Ensure all materials are submitted in PDF format, with drawings pre-scaled to print on 11"x17" pages.
11. Materials submitted through e-mail must be less than 5 MB.
12. Materials submitted through a file transfer protocol (FTP) site must be posted a minimum of two weeks.

Please note, prior to submitting the technical reports and materials, as well as appendices related to the draft and final EA documents, it is recommended that the project manager be contacted so that review requirements can be scoped to the TRCA areas of interest.

Should you have any questions, please contact me at (437)-880-2422 or at emma.benko@trca.ca.

Regards,



Emma Benko

Planner, Infrastructure Planning and Permits
Development and Engineering Services

Attached: Appendix A: TRCA Commenting Roles
Appendix B: TRCA Areas of Interest
Appendix C: Recommended TRCA Contact Points
Appendix D: TRCA comments and proponent responses

BY E-MAIL

cc: Consultant: Courtney Row, R.V. Anderson (crow@rvanderson.com)
TRCA: Victoria Kramkowski, Government and Community Relations Specialist
Shirin Varzgani, Senior Planner, Infrastructure Planning and Permits

APPENDIX A: TRCA COMMENTING ROLES

TRCA COMMENTING ROLES	
Public Commenting Body	
Planning Act	Pursuant to the Planning Act , conservation authorities are a "public commenting body", and therefore must be notified of municipal policy documents and planning and development applications under the Planning Act. TRCA comments according to its Board-approved policies as a local resource management agency to the municipality planning approval authority on these documents and applications.
Environmental Assessment Act	Pursuant to the federal and provincial Environmental Assessment (EA) Acts , conservation authorities are a commenting body. Conservation authorities are also responsible for comments made under environmental assessment (EA) exemption regulations, and the Ontario and National Energy boards. TRCA reviews and comments on environmental assessment that occur within TRCA's jurisdiction under these various forms of legislation.
Delegated Provincial Interests	
Hazard Lands	As outlined in the Conservation Ontario/ Ministry of Natural Resources and Forestry/ Ministry of Municipal Affairs and Housing Memorandum of Understanding on CA Delegated Responsibilities, CAs have been delegated the responsibility of representing the provincial interest on natural hazards encompassed by Section 3.1 of the PPS 2020.
Conservation Authorities Act	
Regulatory Authority	
Ontario Regulation 166/06, Development, Interference with Wetlands and Alterations to Shorelines and Watercourses	<p>In accordance with Ontario Regulation 166/06 (Development, Interference with Wetlands and Alterations to Shorelines and Watercourses), a permit is required from the TRCA prior to any development (e.g . construction) if, in the opinion of TRCA, the control of flooding, erosion, dynamic beaches or pollution or the conservation of land may be affected. The Regulation Limit defines the greater of the natural hazards associated with Ontario Regulation 166/06 (listed below).</p> <p>NOTE: The Regulation Limit provides a geographical screening tool for determining if Ontario Regulation 166/06 will apply to a given proposal. Through site assessment or other investigation, it may be determined that areas outside of the defined Regulation Limit require permits under Ontario Regulation 166/06. In these instances, it is the text of the regulation that will prevail; modifications to the regulation line may be required.</p> <p>Any development within the Regulation Limit must comply with the applicable sections of The Living City Policies (2014).</p>
Resources Management Agency	
TRCA Programs	In accordance with Section 20 and 21 of the Conservation Authorities Act , CAs are local watershed-based natural resource management agencies that develop

	<p>programs that reflect local resource management needs within their jurisdiction. TRCA has developed programs and policies related to our role as a resource management agency that include, but are not limited to, watershed plans, fisheries management plans, land management plans, ecosystem restoration programs, and The Living City Policy (2014), which are approved by the TRCA Board.</p> <p>Please confirm that the preferred alternative design for this project addresses TRCA concerns related to its program areas. These will be further defined through the EA review process.</p>
Landowner	
TRCA Property	TRCA is a major landowner in the GTA, owning close to 18,000 hectares of land. TRCA comments provided as a landowner are separate from comments provided under a technical, advisory or regulatory role.
Acquisition and Easement	<p>If TRCA property land transfer or easement is required for the implementation of the preferred alternative, permission and approval from TRCA and the Minister of Natural Resources and Forestry are required. The design must demonstrate that TRCA program and policy objectives are met. Formal approval typically takes 12 to 18 months from the completion of the EA document.</p> <p>Peel Region (Brampton, Mississauga, Caledon) - Brandon Hester, Senior Property Agent at brandon.hester@trca.ca</p> <p>York Region (Vaughan, King, Aurora, Markham, Richmond Hill, Whitchurch-Stouffville), BELL and other utilities (including Cell Phone Towers) - Edlyn Wong, Senior Property Agent at Edlyn.wong@trca.ca</p> <p>City of Toronto (Etobicoke, York, East York, North York, Scarborough) and Enbridge - Edlyn Wong, Senior Property Agent at Edlyn.wong@trca.ca</p> <p>Durham Region (Ajax, Pickering, Uxbridge) - Brandon Hester, Senior Property Agent at brandon.hester@trca.ca</p>
Permission to Enter	<p>If TRCA property access is required for the purpose of completing technical studies associated with this project, a Permission To Enter (PTE) must be obtained from TRCA Property staff prior to entry.</p> <p>Please contact Desiree Sampson, Property Coordinator at desiree.sampson@trca.ca for additional information.</p>
Archaeological Resources	<p>An archaeological review by TRCA's archaeological staff must precede any disturbance to TRCA property. If an archaeological assessment is required, scheduling will be subject to weather, seasonal programs and other field work and are at additional cost to the proponent.</p> <p>Please contact Alistair Jolly, Archaeologist at alistair.jolly@trca.ca for additional information.</p>

Service Provider	
Service Level Agreements and Memorandum of Understandings	<p>Service Level Agreements: TRCA has service level agreements to provide EA Review services to various partners within specific service delivery timelines. Fees are charged as per agreement stipulations; review fees are not charged for individual files.</p> <p>Memorandum of Understandings: The provision of planning advisory services to municipalities is implemented through a Memorandum of Understandings (MOU) with participating municipalities or as part of a CA's approved program activity . In this respect, the CA is essentially acting as a technical advisor to municipalities. The agreements cover the CA's areas of technical expertise such as water management, natural hazards, and natural heritage.</p>
Restoration Opportunities	<p>TRCA requires that the preferred alternative considers avoiding, minimizing, mitigating, and compensating impacts to ecosystems in that order. In areas where impacts are unavoidable, mitigation or compensation will be required. It is recommended that the costs associated with these impacts be factored into decisions made during the EA.</p> <p>TRCA has identified opportunities for habitat restoration and enhancement on TRCA property and some privately owned lands, targeted to improve natural form and function based on goals in the watershed strategies. Should ecosystem restoration or compensation be required for this project, TRCA may be able to provide both restoration opportunities and restoration field services on a project specific basis. This will be further discussed through the EA review process.</p>
Community and Public Realm Benefits	<p>TRCA understands that the purpose of providing project-based community benefits is to provide measurable economic benefits to the local community, and that the purpose of providing public realm benefits is to support local opportunities for social and environmental improvements.</p> <p>As part of the 2013-2022 TRCA Strategic Plan (updated), TRCA has identified the need to achieve measurable positive impacts on the health of our watersheds and has developed a number of programs that actively engage with local communities to support a green, local economy. These programs include but are not limited to, Sustainable Neighbourhood Retrofit Action Plans, TRCA Conservation Land Care Program, TRCA Trails Program, TRCA Community Transformation Program and Partners in Project Green .</p> <p>It is recommended that commitment be made to work with TRCA and other partners to develop a Community and Public Realm Benefits Strategy for this project . This will be further discussed through the EA review process.</p>

APPENDIX B: TRCA AREAS OF INTEREST

TRCA PROGRAM AND POLICY AREAS	
<i>Note: Additional program and policy information may be available at www.trca.ca, or by request.</i>	
Natural System Programs and Policies	
Systems Approach	<p>TRCA follows a systems approach in which the natural features and water resources are considered in relation to each other and the broader landscape in which they occur. The systems approach recognizes the role that linkages and connectivity within the natural system has in supporting ecological and hydrologic processes and functions that are vital to maintaining a healthy and robust natural system that is resilient against the impacts of urbanization and climate change.</p> <p>TRCA may require an assessment of the existing systems, together with an evaluation as to how the proposal may impact the systems.</p>
Aquatic Systems, Species and Habitat	<p>The aquatic system includes watercourses, wetlands, and flora and fauna species. Aquatic species and habitat should be assessed based on their conservation status according to sensitivity to disturbance and specialized ecological needs, as well as rarity.</p> <p>TRCA has prepared watershed plans or strategies, as well as fisheries management plans for some watersheds. The proposal must prevent negative impacts to the aquatic system, and as such, TRCA may require an assessment of the existing aquatic system, an evaluation as to how the proposal will meet the objectives articulated in the watershed plan or strategy, and/or an evaluation as to how the proposal will meet the objectives of the fisheries management plan.</p>
Terrestrial System, Species and Habitat	<p>The terrestrial system includes landscape features, vegetation communities, and flora and fauna species. Terrestrial species and habitat should be assessed based on their conservation status according to sensitivity to disturbance and specialized ecological needs, as well as rarity.</p> <p>TRCA has identified the need to improve both the quality and quantity of terrestrial habitat. TRCA's Terrestrial Natural Heritage System Strategy sets measurable targets for attaining a healthier natural system by creating an expanded and targeted land base. It includes strategic directions for stewardship and securement of the land base, a land use policy framework to help achieve the target system, and other implementation mechanisms.</p> <p>TRCA may require an assessment of the existing terrestrial species and habitat, together with an evaluation as to how the proposal will meet the objectives articulated in the watershed plan or terrestrial natural heritage strategy, as well as prevent negative impacts to the terrestrial system.</p>
Environmentally Significant Areas	<p>Environmentally Significant Areas have been identified by TRCA based on a set of ecological criteria regarding the function, significance and rarity of the features or species found in the area. These areas should be identified in the assessment of the terrestrial species and habitat, as noted above.</p>

Groundwater Systems	
Aquifers and Hydrogeological Features and Functions	<p>Groundwater systems include aquifers and their functional connections to surface water. The extraction and discharge of groundwater has the potential to negatively impact surrounding natural features and their functions. Even small amounts of groundwater extraction may reduce contributions to groundwater dependent features such as wetlands, springs, or fish spawning habitat. In addition, the discharge of groundwater must be controlled to avoid impacts to watercourses and fish habitat from temperature, erosion and sedimentation, as well other water quantity and quality issues.</p> <p>TRCA may require geotechnical or hydrogeological investigations to confirm dewatering and discharge requirements, and to identify appropriate mitigation measures with respect to potential impacts to natural features and functions.</p>
Surface Water Systems	
Lake Ontario Shoreline	<p>The Lake Ontario Shoreline consists of sensitive bluffs and dynamic beach systems. Any development near the Lake Ontario Shoreline may impact these sensitive natural features or may be impacted by associated flooding or erosion hazards.</p> <p>TRCA may require a Coastal Hazard Assessment Report be completed, calculating and identifying the erosion hazard limits in accordance with provincial technical standards. Please note that if TRCA requires external peer review of this report, additional fees may be applied.</p> <p>Applicable programs and strategies for work near the Lake Ontario Shoreline may include: The Lake Ontario Waterfront Development Program, The Toronto Waterfront Aquatic Habitat Restoration Strategy (TWAHRS), and The Integrated Shoreline Management Plan: Tommy Thompson Park to Frenchman's Bay.</p>
Inland and Kettle Lakes	<p>Inland lakes are associated with aquatic species and may be affected by flooding, erosion or dynamic beach hazards.</p> <p>For any development in or near the shoreline of an inland or kettle lake, TRCA may require an environmental study to confirm that any development does not conflict with natural processes, including natural hazards.</p>
Watercourses	<p>Typically, watercourses are associated with aquatic species, and direct or indirect habitat. Any alteration or interference to a watercourse (e.g., straightening, diverting, realigning, altering baseflow) has the potential to impact fish communities, but may also affect the Regulatory Flood Plain, erosion or other natural channel processes.</p> <p>TRCA may require an environmental study or site confirmation of watercourse locations.</p>
Meander Belt	<p>Channel migration has a significant impact on infrastructure, structures and property located near river systems. Determining channel stability is important to ensure that damage from erosion, down-cutting or other natural channel processes is avoided.</p>

	<p>TRCA may require a meander belt delineation study or fluvial geomorphology analysis to confirm that any development does not conflict with natural channel processes.</p>
Regulatory Flood Plain	<p>The Regulatory Flood Plain is the approved standard used in a particular watershed to define the limit of the flood plain for regulatory purposes. Within TRCA's jurisdiction, the Regulatory Flood Plain is based on the greater of the regional storm, Hurricane Hazel, and the 100-year flood. TRCA's framework for Flood Plain Management is the LCP.</p> <p>TRCA may require a flood study or hydraulic update to confirm that there will be no impacts to the storage or conveyance of flood waters.</p>
Wetlands	<p>Wetlands are sensitive natural habitats that play an important role in numerous physical, chemical and biological processes, including storm water control, natural habitat and water quality improvement. Most wetlands are designated by the Ministry of Natural Resources and Forestry as Provincially Significant or Locally Significant. Other wetlands have also been identified on a site specific basis by TRCA.</p> <p>All wetlands are regulated under Ontario Regulation 166/06. TRCA may require an environmental study or site confirmation of wetland locations.</p>
Storm Water Management, including Green Infrastructure	<p>Stormwater management is integral to the health of streams, rivers, lakes, fisheries and terrestrial habitats, and source water protection is integral for managing the quality and quantity of drinking water at its source.</p> <p>TRCA requires all development, infrastructure and site alteration meet the criteria in the TRCA 2012 Stormwater Management Criteria document for water quantity, water quality, erosion control, discharge water temperature, and water balance for groundwater recharge and natural features.</p> <p>Green Infrastructure techniques, including Low Impact Development (LID) measures should be used to address issues related to stormwater management, as well as maximize ecosystem services and mitigate the impacts of urbanization and climate change.</p> <p>For further information, please refer to the TRCA Introduction to Green Infrastructure, the Sustainable Technologies Evaluation Program (STEP) - Urban Runoff Green Infrastructure and the STEP 2010 Low Impact Development Stormwater Management Planning and Design Guide.</p>
Special Policy Areas	<p>Developed areas have historically existed within a flood plain may be designated as Special Policy Areas (SPA) as permitted under the 2014 Provincial Policy Stat ement . Policies for development and land use in these areas address the social, economic and cultural factors that support the continuation of the community . SPAs allow development and land uses that would not otherwise be permitted by the provincial policies on flood plain management.</p>

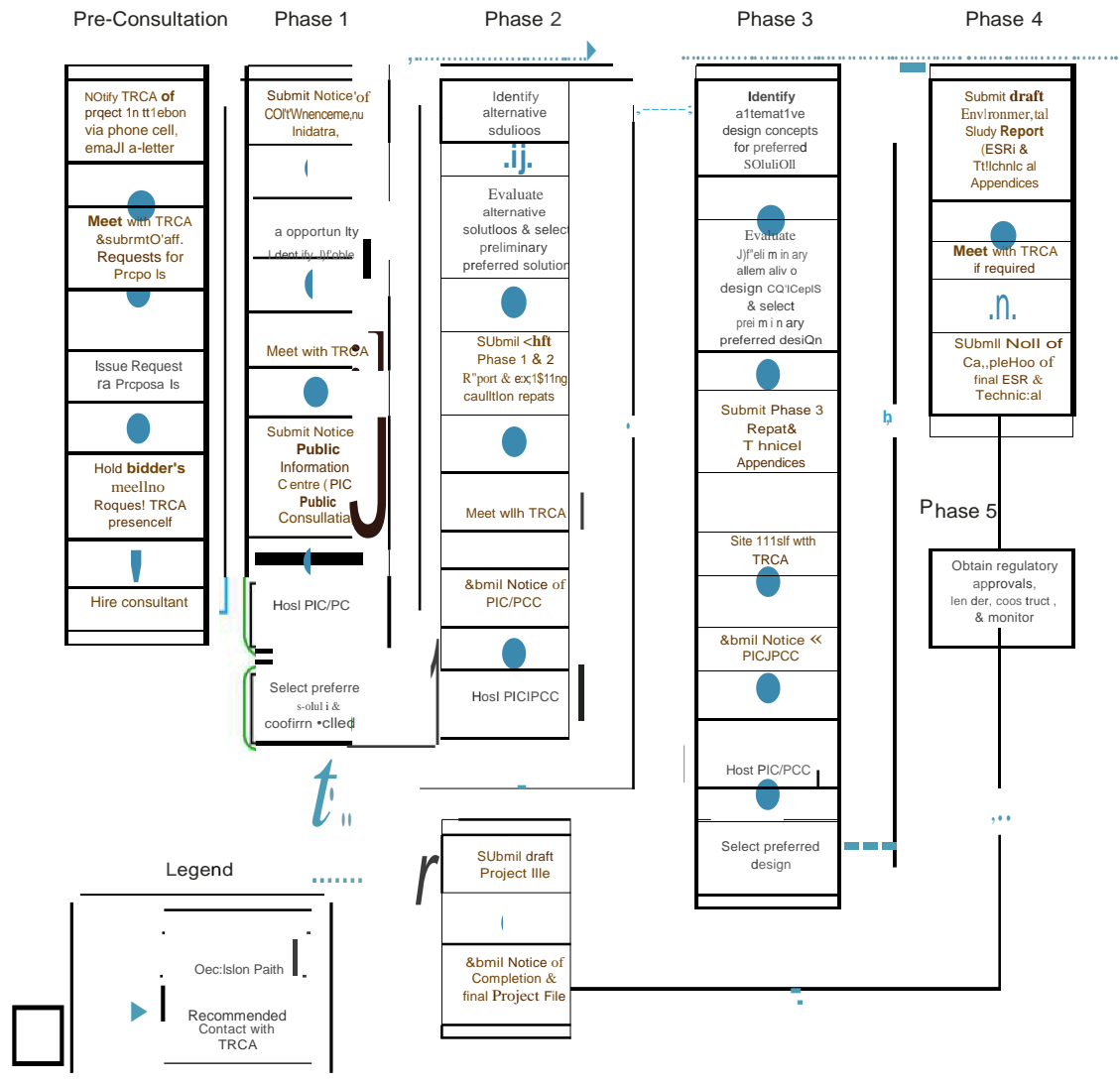
Flood or Erosion Control Structures	There is an existing flood or erosion control structure (e.g., dam, weir, berm, channel) located in the project vicinity that must be considered as the project proceeds. A meeting with TRCA should be arranged as early as possible.
Valley Slopes	
Crest of Slope	<p>Valley and stream corridors are dynamic systems that provide important natural functions and linkages for the physical, chemical and biological processes of wildlife, watercourses, and other natural features. The crest of slope identifies the physical limit of these corridors; however, due to ecological sensitivities, development restrictions typically extend beyond the actual crest of slope .</p> <p>TRCA may require the determination of the long term stable crest of slope (or toe of slope) through a staking with TRCA staff, as well as a geotechnical assessment.</p>
Sustainability Programs and Policies	
Climate Change	<p>In October 2017, MECP released a guideline under the Ontario environmental assessment legislation directing that all projects going through the EA process, including IEAs, Class EAs, and those governed by EA regulations, must consider impacts to and opportunities for climate change mitigation and adaptation, and consider the vulnerability of projects to climate change. It was further recommended that applicable policies in the 2020 Provincial Policy Statement be addressed, including but not limited to encouraging green infrastructure and strengthening stormwater management requirements; requiring consideration of energy conservation and efficiency, reduced greenhouse gas emissions and climate change adaptation (e.g. tree cover); and consideration of the potential impacts of climate change that may increase the risk associated with natural hazards (e.g. flooding due to severe weather).</p>
Sustainable Infrastructure & Buildings	<p>The sustainability of infrastructure and buildings determined through a variety of factors through planning, design, construction, operation, maintenance and decommissioning. Sustainability factors include the efficiency environmental impact of project inputs through all phases, including energy, water and natural resources/materials.</p> <p>The type and amount of energy used in construction and operation is one of the most significant factors affecting climate change, the ecological footprint of our communities, and ultimately our ability to create sustainable communities. As supported by the LCP, TRCA advocates that proponents consider the use of appropriate sustainable energy networking (e.g., community energy project), technologies (e.g., solar lights, etc.) and practices (e.g ., selection of materials, transportation of materials, energy efficiency, passive solar energy) in their projects.</p> <p>Various sustainability best management practices include sustainable procurement, reusing resources, using recyclable/recycled resources, protecting natural systems, eliminating toxics, applying life-cycle costing and ensuring a high quality of construction. If designed appropriately, sustainable infrastructure or buildings generally cost less to operate, are more resilient and adaptable as compared to standard designs and are an aesthetic and environmental benefit to the community.</p>

	TRCA recommends that a commitment to sustainable infrastructure or buildings through all project phases be made in the EA document. Please consider using a rating system such as Envision or LEED to guide the EA and detailed design.
Sustainable Communities	The TRCA Living City vision is based on a foundation that includes Sustainable Communities. Planning for community sustainability requires the identification of the complex and inter-related social, economic and ecological systems involved; TRCA supports a systems approach to developing integrative and adaptive solutions to improve community sustainability. Key socio-economic systems include: transportation facilities (including trails, sidewalks & multi-use pathways), community greenspaces (including parks), urban forests, cultural heritage resources, and the local economy. For transportation projects, a context sensitive design/solutions framework are encouraged.
Archaeological and Heritage Resources	TRCA watershed strategies include recommendations for the management of archaeological and heritage resources in accordance with Ministry of Culture and Municipal standards. The project should aim to preserve, protect and celebrate archaeological and heritage resources where possible.
PROVINCIAL PROGRAM AREAS	
Greenbelt Plan	<p>The Greenbelt consists of more than 809,000 hectares of environmentally sensitive land, urban river valleys and agricultural land in the Golden Horseshoe. The Greenbelt Plan identifies limits to urbanization to provide permanent protection to the agricultural land base and the ecological features and functions occurring within this landscape. Contact the Ministry of Municipal Affairs and Housing for more details.</p> <p>Please confirm that the preferred alternative design for this project conforms with Section 4.2 Infrastructure Policies and Section 6 Urban River Valley Policies of the Greenbelt Plan.</p>
Oak Ridges Moraine Conservation Plan	<p>The Oak Ridges Moraine is an environmentally sensitive, geological landform in south central Ontario, covering 190,000 hectares. The Oak Ridges Moraine Conservation Plan provides land use and resource management direction for the land and water within the Moraine. Contact the Ministry of Municipal Affairs and Housing for more details.</p> <p>Please confirm that the preferred alternative design for this project conforms with Section 41 of the Oak Ridges Moraine Conservation Plan.</p>
Niagara Escarpment Plan	<p>The Niagara Escarpment is an internationally recognized landform and is the cornerstone of Ontario's Greenbelt. It has a landscape of rich biodiversity and is home to hundreds of Ontario's Species at Risk, vital watersheds, agricultural areas and 450-million-year old geological history. The Niagara Escarpment Plan outlines land use designations, development criteria and related permitted uses, including farming, forestry and mineral resource extraction. Contact the Niagara Escarpment Commission for more details.</p> <p>Please confirm that the preferred alternative design for this project conforms with the Niagara Escarpment Plan.</p>

<p>Credit Valley - Toronto & Region - Central Lake Ontario (CTC) Source Protection Plan</p>	<p>The Clean Water Act, 2006 ensures communities protect their drinking water supplies through prevention by developing collaborative, watershed-based source protection plans that are locally driven and based on science.</p> <p>Please be advised that the subject property appears to fall within the Wellhead Protection Area - Quality (WHPA), Wellhead Protection Area - Quantity (WHPA-Q), Significant Groundwater Recharge Area (SGRA), Intake Protection Zone (IPZ), Highly Vulnerable Aquifers (HVA) as described in the Toronto and Region Source Protection Authority (TRSPA) Assessment Report. Please confirm that actions undertaken for this project conform with the policies contained within the Credit Valley- Toronto and Region - Central Lake Ontario Source Protection Plan (CTC SPP). Please note that vulnerable areas identified under the Clean Water Act are documented in the Ontario Source Protection Information Atlas.</p> <p>For additional support, please consult the Regional Risk Management Office/Official as copied on this letter.</p> <p>sourcewater@peelregion.ca sourcewaterprotection@york.ca Greg Lymer, Risk Management Official, Region of Durham {Greg.Lymer@durham.ca} Bill Snodgrass, Water management Unit, City of Toronto {bill.sn_odgrass@toronto.ca}</p> <p>Please note that in accordance with Ontario Regulation 166/06, permits from TRCA may be required for mitigation solutions that are designed to ensure conformity with the CTC SPP.</p>
<p>PROVINCIAL PROGRAM AREAS</p>	
<p>Please contact the Ministry of Natural Resources and Forestry to confirm if there are program interests related to this project for:</p> <ul style="list-style-type: none"> • Areas of Natural and Scientific Interest {ANSI} • Provincially Significant Wetlands {PSW} • Provincially Endangered Species under the Species at Risk Act {SARA} <p>Please be advised that this list is not inclusive and the onus is on the proponent and its consultants to consult with other provincial agencies, as required, to ensure that requirements of their respective legislation is met.</p>	
<p>FEDERAL PROGRAM AREAS</p>	
<p>Rouge National Urban Park</p>	<p>The Rouge National Urban Park is managed by Parks Canada to ensure the protection, restoration and enhancement of the natural, scenic and cultural values of the park. Parks Canada should be consulted on this application.</p> <p>Impacts to the greenspace viewshed as seen from the perspective of homeowners, trail users, or other interested individuals should be considered in determining the design and placement of the infrastructure. As the project is on or in the vicinity of Rouge Park lands, we respectfully defer to the municipality and Parks Canada in this regard.</p>

	<p>Projects on Parks Canada Property For projects within TRCA regulation limits on Parks Canada property, Parks Canada requires that the proponent obtain a TRCA <u>Voluntary Project Review</u> (VPR) letter, ensuring that the project satisfies the objectives of the TRCA's Ontario Regulation 166/06.</p> <p>Projects in close proximity to Parks Canada Property In accordance with Ontario Regulation 166/06, for projects located within the TRCA regulated area but outside the limits of Parks Canada property (e.g. within the municipal right of way), permits from TRCA may be required.</p> <p>Projects on Parks Canada and non-Parks Canada Property A combination of a TRCA permit and a VPR may be required.</p>
<p>Please contact the relevant federal agency to confirm if there are issues related to:</p> <ul style="list-style-type: none"> • Asian Long-horned Beetle Regulated Area • Federally Endangered Species under the Endangered Species Act (ESA) • The Fisheries Act <p>Please be advised that this list is not inclusive and the onus is on the proponent and its consultants to consult with other provincial agencies, as required, to ensure that requirements of their respective legislation is met.</p>	

Appendix C: Recommended TRCA Contact Points in the Municipal Class EA Process



APPENDIX D: TRCA COMMENTS AND PROPONENT RESPONSES

ITEM	TRCA COMMENTS (September 22, 2022)	PROponent/CONSULTANT RESPONSE (INSERT DATE)
Stormwater Management		
<i>Stormwater Management Memo</i>		
1.	Please update Section 2.1 to state that the locations do fall within Conservation Authority regulated area. Currently, the report says they do not.	
2.	Bullet #4 of the Opportunities and Constraints section outlines that outlets have not been determined and will be completed at detailed design, but it notes it could impact serviceability. Given the potential impacts TRCA staff recommend including outlet evaluation at this stage in order to gauge appropriate serviceability.	
3.	As watershed management agency, TRCA established SWM criteria for each watershed to reduce impacts of any development on the existing flooding risk, in-stream erosion, quality of water draining to the regulated features and site water balance. It is important that TRCA Stormwater Management Criteria document needs to be identified in section 2.4 of the submitted memo entitled Conceptual Snow Storage Facilities and SWM Servicing Approach.	
4.	Please revise the proposed SWM strategies need to be revised as per TRCA Stormwater Management Criteria document	
<i>General Stormwater Management</i>		
5.	TRCA staff strongly recommend against LID infiltration measures due to the high presence of chlorides. An alternative would be an evapotranspiration LID that focuses on holding water and evapotranspiring it back into the atmosphere.	
6.	Please clarify if there are opportunities to create a treatment train approach to Stormwater management for these snow sites that can focus more on evapotranspiration as a main strategy and then additional traditional SWM treatments in order to help reduce the increased chlorides in the system.	
Planning Ecology		
<i>Natural Environment Report</i>		
7.	It would be beneficial to update Table 3-4 and provide a column of which site each SAR or SOCC occur.	

8.	Please remove suggestion #31 under the heading "Snow Melt during Operations" . Snowmelt should not be directly deposited into watercourses .	
9.	Given the close proximity of the watercourse to Site #1, TRCA staff would appreciate further clarification as to why Site #1 was considered a more environmentally preferred choice over site #9.	
Hydrogeology		
<i>Geotechnical, Hydrogeological and Contaminated Site Assessment Report</i>		
10.	TRCA staff understand that groundwater monitoring is being carried out and infiltration tests will be conducted. Results of the additional investigations will be provided in an addendum. There are no hydrogeology related concerns at this time. Clarification is requested on following items.	
11.	For Site #5 Johnston Sport Park, groundwater levels measured in MW (BH5-3/MW) are provided in Table 6. However, it is also indicated that the monitoring well was frozen during the period of measurements (Feb 11, 2022 to March 08, 2022). When the monitoring well was frozen, how the water levels were measured?	
12.	Please provide comments on potential groundwater quality impacts from infiltration of snowmelt runoff within proposed bio-swales with check dams with intend to promote infiltration .	
General		
13.	Table 6-1 (Anticipated Permits and Approvals) of the Natural Environment Report states that no permit from TRCA is required. As TRCA regulated areas are located on Sites 1, 5, 6 and 9 an O.Reg 166/06 permit may be required.	

From: Emma Benko <emma.benko@trca.ca>
Sent: Friday, May 10, 2024 9:41 AM
To: Banuri, Syeda
Cc: Shirin Varzgani; Victoria Kramkowski; Zandvliet, Samantha; Atcha, Salma; Gray, Derek; Trenouth, Bill
Subject: RE: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report -TRCA- CFN 62824 - April 2024

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Good Morning Syeda,

Thank you for responding to our comments on the above noted project. Staff have reviewed the submission and note that all comments have been addressed. Please include TRCA in the Notice of Completion circulation in order for us to provide the final sign-off letter.

Thank you,

Emma Benko (She/Her)

Planner

Infrastructure Planning and Permits | Development and Engineering Services

T: [\(437\) 880-2422](tel:4378802422)

E: emma.benko@trca.ca

A: [101 Exchange Avenue, Vaughan, ON, L4K 5R6](https://www.trca.ca) | [trca.ca](https://www.trca.ca)



From: Banuri, Syeda <syeda.banuri@peelregion.ca>

Sent: Friday, April 5, 2024 3:32 PM

To: Emma Benko <emma.benko@trca.ca>

Cc: Shirin Varzgani <Shirin.Varzgani@trca.ca>; Victoria Kramkowski <Victoria.Kramkowski@trca.ca>; Zandvliet, Samantha <samantha.zandvliet@aecom.com>; Atcha, Salma <salma.atcha@peelregion.ca>; Gray, Derek <derek.gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>

Subject: Peel Snow Storage Sites EA and Pre-Design - Draft Project File Report -TRCA- CFN 62824 - April 2024

EXTERNAL SENDER

Hi,

Hope all is well at your end.

As, you are aware that the Region of Peel is carrying out a **Schedule B - Municipal Class Environmental Assessment (EA)** [Study for Snow Storage Sites - Region of Peel \(peelregion.ca\)](https://www.peelregion.ca) to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. Project team has now drafted the **Project File Report** and preliminary design of the 6 preferred sites which is being shared with you for your review and comments.

The draft report and appendices can be accessed at:

 [Draft Project File - April 2024](#)

Please, provide your comments by **May 1st**. If you can't access the files or have questions, please let me know.

We have also provided responses to your latest comments in a separate document attached.

Thanks,

Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
Transportation Division, Public Works
10 Peel Centre Drive, Suite B – 4th Floor
Brampton, ON L6T4B9
Syeda.Banuri@peelregion.ca
Cell: 416-407-7860



The Region of Peel is situated on the Treaty Lands and Territory of the Mississaugas of the Credit First Nation as well as the traditional territory of the Anishinabeg, Huron-Wendat and Haudenosaunee peoples.

From: Emma Benko <emma.benko@trca.ca>

Sent: Tuesday, January 31, 2023 4:38 PM

To: Banuri, Syeda <syeda.banuri@peelregion.ca>

Cc: Shirin Varzgani <Shirin.Varzgani@trca.ca>; Victoria Kramkowski <victoria.kramkowski@trca.ca>; Courtney Row <CRow@rvanderson.com>

Subject: CFN 62824 - Peel Snow Storage Sites - TRCA Response to PIC and Notice of Commencement

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Hi Syeda,

Thank you for circulating the PIC and Notice of Commencement for the above noted project to TRCA Staff. While we have no new comments at this time, I have attached our response letter with previously offered comments and information on TRCA's role in the EA review process.

Thank you,

Emma Benko (She/Her)

Planner

Infrastructure Planning and Permits | Development and Engineering Services

T: [\(437\) 880-2422](tel:(437)880-2422)

E: emma.benko@trca.ca

A: [101 Exchange Avenue, Vaughan, ON, L4K 5R6](https://www.trca.ca/101-Exchange-Avenue-Vaughan-ON-L4K-5R6) | [trca.ca](https://www.trca.ca)



APPENDIX D: TRCA COMMENTS AND PROPONENT RESPONSES

ITEM	TRCA COMMENTS (September 22, 2022)	PROponent/CONSULTANT RESPONSE (April 3, 2024)
Stormwater Management		
<i>Stormwater Management Memo</i>		
1.	Please update Section 2.1 to state that the locations do fall within Conservation Authority regulated area. Currently, the report says they do not.	Upon closer review, all the locations of the proposed snow facilities are outside the regulated boundaries, some are close but not within the regulated area itself.
2.	Bullet #4 of the Opportunities and Constraints section outlines that outlets have not been determined and will be completed at detailed design, but it notes it could impact serviceability. Given the potential impacts TRCA staff recommend including outlet evaluation at this stage in order to gauge appropriate serviceability.	Preliminary grading has been checked to determine feasibility of outlets. Outlet elevations will be further confirmed during the survey.
3.	As watershed management agency, TRCA established SWM criteria for each watershed to reduce impacts of any development on the existing flooding risk, in-stream erosion, quality of water draining to the regulated features and site water balance. It is important that TRCA Stormwater Management Criteria document needs to be identified in section 2.4 of the submitted memo entitled Conceptual Snow Storage Facilities and SWM Servicing Approach.	A note has been added referencing TRCA guidelines.
4.	Please revise the proposed SWM strategies need to be revised as per TRCA Stormwater Management Criteria document	Currently, all sites will be detaining 27mm and retaining to the extent possible (limited by groundwater elevation).
<i>General Stormwater Management</i>		
5.	TRCA staff strongly recommend against LID infiltration measures due to the high presence of chlorides. An alternative would be an evapotranspiration LID that focuses on holding water and evapotranspiring it back into the atmosphere.	We found that Sites 1, 6 and 9 are not within highly vulnerable recharge areas while Sites 3 and 5 are, with a vulnerability score of 6. According to the CTC Source Protection Plan, the specific circumstance outlined in the “Tables of Drinking Water Threats” should be reviewed to determine the threat to drinking water. According to the most recent tables from

ITEM	TRCA COMMENTS (September 22, 2022)	PROPONENT/CONSULTANT RESPONSE (April 3, 2024)
		2018, snow storage is considered a low risk for chloride contamination.
6.	Please clarify if there are opportunities to create a treatment train approach to Stormwater management for these snow sites that can focus more on evapotranspiration as a main strategy and then additional traditional SWM treatments in order to help reduce the increased chlorides in the system.	It is very difficult to evaporate significant amounts of snow in the winter months, this would be energy intensive.
Planning Ecology		
<i>Natural Environment Report</i>		
7.	It would be beneficial to update Table 3-4 and provide a column of which site each SAR or SOCC occur.	Applicable sites column added.
8.	Please remove suggestion #31 under the heading “Snow Melt during Operations”. Snowmelt should not be directly deposited into watercourses.	Suggestion #31 removed. Snowmelt will first pass through bioswales and will not directly run into watercourses.
9.	Given the close proximity of the watercourse to Site #1, TRCA staff would appreciate further clarification as to why Site #1 was considered a more environmentally preferred choice over site #9.	Site 1 and Site 9 have both been recommended to be carried forward. Site 9 has been re-assessed as the preferred alternative from a natural environment perspective as it is located within a manicured lawn, lacking any trees or shrubs. Natural heritage features surrounding Site 9 were also deemed to be sufficiently far away (at least 250 m away) from the site such that impacts from any snow melt were not anticipated on the surrounding natural heritage features.
Hydrogeology		
<i>Geotechnical, Hydrogeological and Contaminated Site Assessment Report</i>		
10.	TRCA staff understand that groundwater monitoring is being carried out and infiltration tests will be conducted. Results of the additional investigations will be provided in an addendum. There are no hydrogeology related	Groundwater and infiltration rate data have been updated.

ITEM	TRCA COMMENTS (September 22, 2022)	PROPONENT/CONSULTANT RESPONSE (April 3, 2024)
	concerns at this time. Clarification is requested on following items.	
11.	For Site #5 Johnston Sport Park, groundwater levels measured in MW (BH5-3/MW) are provided in Table 6. However, it is also indicated that the monitoring well was frozen during the period of measurements (Feb 11, 2022 to March 08, 2022). When the monitoring well was frozen, how the water levels were measured?	Groundwater and infiltration rate data were updated with readings from March, May and June 2022.
12.	Please provide comments on potential groundwater quality impacts from infiltration of snowmelt runoff within proposed bio-swales with check dams with intend to promote infiltration.	Check dams would not be used if infiltration is not desirable. Bioswales have a provisional liner at this stage of the design.
General		
13.	Table 6-1 (Anticipated Permits and Approvals) of the Natural Environment Report states that no permit from TRCA is required. As TRCA regulated areas are located on Sites 1, 5, 6 and 9 an O.Reg 166/06 permit may be required.	<p>While the property boundaries of the snow storage sites fall within the TRCA regulated areas, the snow storage areas do not.</p> <p>In the draft Project File Report, we have indicated a permit may be required; however, based on the above explanation of the snow storage location, we do not anticipate a permit being required for these sites.</p>

AECOM

Utilities



From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Monday, December 12, 2022 10:22 AM
To: SECONDARY LAND USE Department
Cc: Gray, Derek; Trenouth, Bill; Zandvliet, Samantha
Subject: RE: Hydro One Response: 20221212-NoticeOfCommence-Snow Storage Sites Analysis and Conceptual Design Project

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Thank you for your response. We will keep you updated on progress of the undertaking.
Regards,

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri@peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

-----Original Message-----

From: SUN Hongxia <Susan.SUN@HydroOne.com> On Behalf Of SECONDARY LAND USE Department
Sent: December 12, 2022 10:09 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: SECONDARY LAND USE Department <Department.SecondaryLandUse@hydroone.com>
Subject: Hydro One Response: 20221212-NoticeOfCommence-Snow Storage Sites Analysis and Conceptual Design Project

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Please see the attached for Hydro One's Response.

Hydro One Networks Inc
SecondaryLandUse@HydroOne.com

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Hydro One Networks Inc.

483 Bay Street
8th Floor South Tower
Toronto, Ontario M5G 2P5

HydroOne.com

December 12, 2022

Re: Snow Storage Sites Analysis and Conceptual Design Project

Attention:
Syeda Banuri, M.Eng., P.Eng.
Project Manager
Region of Peel

Thank you for sending us notification regarding (Snow Storage Sites Analysis and Conceptual Design Project). In our preliminary assessment, we confirm there are existing Hydro One Distribution assets in the subject area. Please be advised that this is only a preliminary assessment based on current information.

At this time we do not have sufficient information to comment on the potential resulting impacts that your project may have on our infrastructure. As such, we must stay informed as more information becomes available so that we can advise if any of the alternative solutions present actual conflicts with our assets, and if so; what resulting measures and costs could be incurred by the proponent. Note that this response does not constitute approval for your plans and is being sent to you as a courtesy to inform you that we must continue to be consulted on your project.

Hydro One must be consulted during all stages of your project. Please ensure that all future communications about this and future project(s) are sent to us electronically to secondarylanduse@hydroone.com

Sent on behalf of,

**Secondary Land Use
Asset Optimization
Strategy & Integrated Planning
Hydro One Networks Inc.**