

Appendix J

Indigenous Communities Consultation Record



Peel Snow Storage - Indigenous Communities Correspondence Record

Indigenous Community	Name of Contact	Communication Date	Method of Communication	Summary of Comments Received	Outgoing Correspondence from Project Team	Response: Method	Response: Date	Notes
Mississaugas of the Credit First Nation	Megan DeVries, M.A. (she/her) Archaeological Operations Supervisor	2021-02-22	Email	Good afternoon, Please see the attached letter from the Mississaugas of the Credit First Nation regarding your upcoming archaeological assessment. Regards, Megan.	Dear Ms. Megan, I would like to thank you for your comments sent to Glenn Kearsley of AECOM Canada Ltd. in your letter of February 22, 2021 (attached) addressed to him related to the Region of Peel's Snow Storage Sites Analysis and Preliminary Design study. It was my pleasure talking to you by phone last week. As briefly discussed, I would like to provide a quick overview of the undertaking further as follows: AECOM Canada Ltd. has been retained late last year by the Region of Peel 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 environmental, 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. The project formally initiated early this year and is anticipated to be complete in 2022. Background: A total of nine sites were identified during a preliminary internal screening completed by the Region of Peel are included in this study, which are represented in the attached Map package. Please, note that the information presented in the package is preliminary in order to engage meaningful discussions with stakeholders. It will continue to evolve as the project progresses and will be revised/refined through stakeholders' 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 four or five of the sites will be validated to proceed to preliminary design completed through this assignment. At this time no archaeological fieldwork is planned as the scope of work includes a Stage 1 Archaeology Assessment only. The Stage 1 report for this study will reference all previous work that has been completed on the nine sites, and can be made available before being finalized. If warranted by the Stage 1, the Stage 2 Archaeology work will be completed for the recommended sites and we would appreciate your advice, feedback and involvement. For further input, comments or questions, you may contact me or Derek Gray – Project Manager for AECOM. During Covid-19 times, the best way to reach us is by email or by phone provided below. Syeda.Banuri@peelregion.ca Cell: 416-407-7860 Derek.Gray@aecom.com Cell: 416 452 5390 Yours Truly, Syeda Banuri	Email	2021-03-09	
Mississaugas of the Credit First Nation	Megan DeVries, M.A. (she/her) Archaeological Operations Supervisor	2021-03-12	Email	Good afternoon Syeda, Thank you for your email regarding the upcoming archaeological assessment for Region of Peel Snow Storage Site Analysis. Please note that, in order to continue maintaining DOCA capacity for fulsome project participation, DOCA charges for technical review of project information. In the exercise of its stewardship responsibility, DOCA seeks to work together with project proponents and their archaeological consultants to ensure that archaeological work is done properly and respectfully. DOCA has retained technical advisers with expertise in the field of archaeology. These experts will review the technical aspects and cultural appropriateness of the archaeological assessments and strategies associated with your project. Upon completion of these reviews, MCFN will identify, if necessary, mitigation measures to address any project impacts upon MCFN rights. For cultural materials and human remains, DOCA may advise that this includes ceremonies required by Anishinaabe law, as well as request adjustments to the proposed fieldwork strategy. The proponent is expected to pay the costs for MCFN to engage in a technical review of the project. DOCA anticipates at this time that all archaeological review will be undertaken by in-house technical experts, but will advise the proponent if an outside peer-review is required. Please find attached the agreement that covers MCFN's inhouse technical review of the archaeological assessments and strategies associated with your project(s). If you could please fill in the additional required information, highlighted in yellow, and return to us a signed copy, that would be greatly appreciated. After we have received it, we can execute the contract on our end and return the completed contract to you. Sincerely, Megan.	Hi Ms. Megan, I apologize, it took us some time to respond back. The Region of Peel was working on preparing an agreement document between the Region and Department of Consultation and Accommodation (DOCA) Mississaugas of the Credit First Nation to facilitate project participation and technical review of project information. Please, see attached. Let me know if you have any comments or questions. Otherwise, please complete, sign and return the document. I will send once, the project's technical reports are ready for your review and comments. You may then send the invoices to my attention please. We appreciate electronic correspondence during COVID-19 times. If you like to touch base further, please do not hesitate to contact me via email or phone. 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	Email	2021-07-05	
Mississaugas of the Credit First Nation	Megan DeVries, M.A. (she/her) Archaeological Operations Supervisor	2021-07-08	Email	Please find attached the fully executed agreement for your records. When ready, please forward the draft reports for MCFN review. Regards, Megan.	Noted.	N/A	N/A	Draft reports shared on July 29, 2022.
Mississaugas of the Credit First Nation	Megan DeVries, M.A. (she/her) Archaeological Operations Supervisor	N/A	N/A	N/A	Good Morning Ms. DeVries, 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 for construction suitable Peel- and lower-tier municipally-owned properties. In accordance with the attached agreement and correspondence below, I am pleased to provide you with a copy of the Stage 1 Archaeological Assessment completed by AECOM archeologists for MCFN's review, consideration, comment and record. In the meantime, please do not hesitate to contact me if you have any questions. Thank you and we look forward to hearing from you. Sincerely, Bill.	Email	2022-02-08	
Mississaugas of the Credit First Nation	Adam LaForme Archaeological Operations Supervisor	2022-02-09	Email	Good Morning Bill, I am the new Archaeological Operations Supervisor for MCFN. Thank you for sending the stage 1 report the Snow Storage site, I have added your report to our queue for review. Regards, Adam LaForme (he/him)	Adam, Thank you for getting back to me and for letting me know. We will update our contact database to ensure that future correspondence is directed to you. I look forward to receiving your review and comments on the Stage 1 assessment. Sincerely, Bill.	Email	2022-02-09	

Mississaugas of the Credit First Nation	Marie-Annick Prevost, PhD (she/her) Field archaeologist	2022-02-22	Email	Hi Bill, On behalf of MCFN-DOCA I reviewed the stage 1 archaeological assessment report prepared by AECOM on potential snow storage sites in the Peel region. I only have one small comment. The report recommends stage 2 test pitting survey for the Tullamore and Highway 50 carpool lot sites. However, the survey interval does not seem to be explicitly mentioned in the recommendations. I assume that the recommended interval is 5m due to the presence of features of archaeological potential (Salt Creek at Tullamore and the Hart site at Highway 50 carpool). Am I correct? I currently have no other concern with the report or the recommendations made within it. If you proceed to stage 2, please contact our Archaeological Operations Supervisor Adam LaForme to coordinate Field Liaison Representative participation and subsequent report review. Best, Marie-Annick Prevost, PhD (she/her) Field archaeologist	Ms. Prevost, As a follow-up to our previous correspondence (below), I wanted to follow-up with you to confirm whether or not MCFN has any interest in reviewing some (or all) of the other reports being produced for the potential snow storage sites being assessed through this assignment? Reports include: •Fluvial Geomorphological Report •Natural Heritage Background Report •Cultural Heritage Report •Traffic Analysis Report •Stormwater Analysis Conceptual Review Report •Geotechnical/Hydrogeological/Contaminated Soils Assessment Report If MCFN would like to review these reports I would be happy to provide these as well – please let me know. Otherwise, MCFN will continue to be consulted during the EA process, and would also be involved in any Stage II AA in the future. Thank you and please let me know, Bill.	Email	2022-07-26	-
Mississaugas of the Credit First Nation	Abby LaForme, Acting Consultation Coordinator	2022-07-27	Email	Good afternoon Bill, My name is Abby LaForme, the Acting Consultation Coordinator for the Mississaugas of the Credit First Nation (MCFN), Department of Consultation and Accommodation (DOCA). I have been with MCFN DOCA for the last 3 years and have worked closely with Fawn Sault. So with that, I am very familiar with the consultation process. I would like to review Natural Heritage Background Report and Cultural Heritage Report, I am also wondering if there was an Environmental Impact Study done on this site? Thank you Abby LaForme, Acting Consultation Coordinator	Hi Abby, Below is the link to download the Natural Environment and Cultural Heritage reports you have requested. Download link - Click Here Please let us know us know if you have any questions or comments. Samantha Zandvliet	Email	2022-07-29	-
Mississaugas of the Credit First Nation	Abby LaForme, Acting Consultation Coordinator	N/A	N/A	[Refer to outgoing correspondence]	Hello Abby, As you are aware, the Region of Peel has initiated a Schedule B Municipal Class Environmental Assessment study to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. The requested supporting studies (Stage 1 Archaeological Assessment, Natural Environment and Cultural Heritage reports) completed for this project have been previously shared with MCFN. At this time our study team would like to share with MCFN the attached Notice of Commencement and Public Information Centre. A Public Information Centre presentation (video) identifying the potential snow storage sites that have been evaluated is now posted on the Region's website: Study for Snow Storage Sites - Region of Peel (peelregion.ca) If you have any comments, questions, or if you would like us to resend any of the above noted studies, please contact the Region's Project Manager: Syeda Banuri, M.Eng., P.Eng. Project Manager, Region of Peel 416 407 7860 syeda.banuri@peelregion.ca We look forward to hearing back from you. Thank you, Samantha Zandvliet Environmental Planner, Impact Assessment and Permitting D +1-905-390-2047 samantha.zandvliet@aecom.com	Email	2022-12-01	-
Six Nations of the Grand River	Tanya j. Hill-Montour B.A Hons. Six Nations of the Grand River - Archaeology Supervisor.	2022-06-15	Email	Good afternoon Glenn, I have reviewed the stage 1 Peel Snow Storage Stage 1 AA with no concerns or comments at this time. I would like to acknowledge that we have interest in participation . As always thank you for the inclusion of our Indigenous community. Kind Regards, Tanya j. Hill-Montour B.A Hons. Six Nations of the Grand River - Archaeology Supervisor. c.226.388.0665 e. tanyahill-montour@sixnations.ca	Comments noted.	N/A	N/A	-
Six Nations of the Grand River	Chief Mark Hill	N/A	N/A	[Refer to outgoing correspondence]	Hello Chief Mark B. Hill, As your community may be aware, the Region of Peel has initiated a Schedule B Municipal Class Environmental Assessment study to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. The Stage 1 archaeological assessment was previously shared with Six Nation of the Grand River and Tanya confirmed interest in participation. At this time our study team would like to share with Six Nations of the Grand River the attached Notice of Commencement and Public Information Centre. A Public Information Centre presentation (video) identifying the potential snow storage sites that have been evaluated is now posted on the Region's website: Study for Snow Storage Sites - Region of Peel (peelregion.ca) If you have any comments or questions related to this study, please contact the Region's Project Manager: Syeda Banuri, M.Eng., P.Eng. Project Manager, Region of Peel 416 407 7860 syeda.banuri@peelregion.ca We are looking forward to hearing from you. Thank you, Samantha Zandvliet Environmental Planner, Impact Assessment and Permitting D +1-905-390-2047 samantha.zandvliet@aecom.com	Email	2022-12-01	-

Haudenosaunee Development Institute (HDI)	Sharann Martin	N/A	N/A	[Refer to outgoing correspondence]	Good afternoon Sharann, Please find attached Stage 1 report for the Region of Peel Snow Storage project for your review. Please let us know if you have any questions or comments. Thanks, Glenn Glenn Kearsley, M.A. AECOM Project Archaeologist, Cultural Resources Management, Design and Consulting Services - Americas C 1-647-274-6772 glenn.kearsley@aecom.com www.aecom.com	Email	2022-09-12	No comments received.
HDI	info@hdi.land	N/A	N/A	[Refer to outgoing correspondence]	Hello, As HDI may be aware, the Region of Peel has initiated a Schedule B Municipal Class Environmental Assessment study to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. The Stage 1 archaeological assessment report was previously shared with HDI. At this time our study team would like to share with HDI the attached Notice of Commencement and Public Information Centre. A Public Information Centre presentation (video) identifying the potential snow storage sites that have been evaluated is now posted on the Region's website: Study for Snow Storage Sites - Region of Peel (peelregion.ca) If you have any comments, questions or feedback on this study, including the Stage 1 archaeological assessment, please contact the Region's Project Manager: Syeda Banuri, M.Eng., P.Eng. Project Manager, Region of Peel 416 407 7860 syeda.banuri@peelregion.ca We look forward to hearing back from you. Thank you, Samantha Zandvliet Environmental Planner, Impact Assessment and Permitting D +1-905-390-2047 samantha.zandvliet@aecom.com	Email	2022-12-01	
HDI	Josh Deltor	N/A	N/A	[Refer to outgoing correspondence]	Dear Josh, I hope this message finds you in good health and high spirits. As we continue to improve the framework that informs our review of Peel projects with HDI, I am reminded of our conversation in our meeting in September. I have been thinking about our discussion on the impacts of a few of our projects on the rights and interests of HCCC. The projects (Stream 1) under consideration at the moment are: Water/Wastewater Projects: - Supply Capacity Increase for Palgrave Transportation Projects: - Snow Storage Sites Analysis EA and Pre-design We are hoping you might be able to share any insights as soon as you are able, even if they are in draft form. Your input would be greatly appreciated, as it will enable us to start developing mitigation strategies and engage in further consultations with you. If it would be helpful, we would be happy to meet with the technical staff leading the above listed projects on your team to discuss your comments and insights further. I am also wondering if it might be helpful to work together to develop mitigation measures. Although it is not required, if this is of interest to you, we are available to meet in November. If it is, feel free to send dates and time slots that may work, and I'll let you know what works on our end. We recognize the importance of consultation with HDI and look forward to hearing from you soon. Warm regards, Cheers, Miriam S. Polga, P.Eng., PMP Manager, Water & Wastewater Infrastructure Planning Region of Peel 10 Peel Centre Drive, Suite A (4th Floor) Brampton, ON L6T 4B9 (905)-791-7800 Cel: 905-965-4894	Email	2023-11-08	Following this email comments were provided by HDI dated November 13, 2023 titled Snow Storage Sites Analysis and Conceptual Design Natural Environment Report – Environmental Treaty Rights Assessment and in Q1 2024 titled Snow Storage Sites Analysis and Conceptual Design Natural Environment Report – Mitigation Engagement Strategy Plan. The Region met with HDI staff on February 14, 2024 to discuss this and other Region led projects. The Region responded to the November 13, 2023 HDI comments titled Snow Storage Sites Analysis and Conceptual Design Natural Environment Report – Environmental Treaty Rights Assessment on April 16, 2024. The Region responded to the Q1 2024 comments titled Snow Storage Sites Analysis and Conceptual Design Natural Environment Report – Mitigation Engagement Strategy Plan on September 20, 2024.
HDI	Aaron Deltor	2024-02-19	Email	Good Morning All I recall that we were to receive a project overview or documents with respect to a Transportation Master Plan. Has this come through yet. Thanks Aaron	Good Morning, I hope all is well at your end. First, I would like to thank Josh again for coming to our office to meet with us; taking the time to review our projects' information and providing comments. As a follow up, I would like to provide a quick update on the following two items: Snow Storage Sites Analysis EA and Pre-Design As, mentioned at our meeting, the information is updated since your last review. I have now uploaded to the dropbox the updated reports including "draft Project File Report and Appendices" under a new folder namely "Snow Storage Analysis – Updated Documents – 2024-02-22". 2051 Transportation Master Plan Peel Region is undertaking a 2051 Transportation Master Plan (TMP) that will bring together individual Transportation Division component strategies under one integrated plan. The TMP will identify a transportation solution to accommodate future growth to 2051 and advance Peel's key priorities including road safety, goods movement, and sustainable transportation that will guide investment in transportation infrastructure and programming. This study is being conducted in accordance with the Municipal Class Environmental Assessment process for Master Plans under the Environmental Assessment Act. The 2051 TMP study will satisfy Phase 1 (Identify Problem and Opportunity) and Phase 2 (Identify and Evaluate Alternative Solutions) of the process. The final deliverable will be a document that will guide actions, policies, and transportation investment in the Region of Peel over the next 30 years. It should also be noted that Peel's Regional Planning & Growth Management team is developing a High Growth Scenario that accounts for expedited housing targets with a horizon year of 2031 set out by Bill 23. These population and employment projections will help inform the recommendations of road improvement projects for the TMP. The date for our first Public Information Centre is still to be determined based on the endorsement of the High Growth Scenario by Regional Council. Once approved, consultation can then occur. Materials will not be able to be shared until the commencement of this milestone and in terms of document review, it is recommended that only the full TMP draft document would need to be reviewed. After receiving feedback and once finalized, the TMP is expected to be taken to Regional Council for endorsement in Spring 2025 and adoption would then follow in Summer 2025. Please note that these timelines are subject to change and are dependent on any new direction coming from the Peel Region Transition Board or other provincial legislation. Please, let me know if you have any comments or questions for the above. Thanks, Syeda Basira Banuri, M.Eng., P.Eng. (she/her)	Email	2024-02-23	

HDI	Josh Deltor	N/A	N/A	[Refer to outgoing correspondence]	Hi Josh, Hope you are doing well. We are drafting up the responses to your Mitigation Engagement Strategy Plan and I would like to follow up on the Snow Storage "draft Project File Report and Appendices" which I had saved under a new folder namely "Snow Storage Analysis – Updated Documents – 2024-02-22". Would you be providing new comments for the rest of the Snow Storage Sites so that we can provide one response for all sites and the "draft Project File Report and Appendices"? Please, advise. Another couple of items were a) the detailed tree plantings and vegetation plan that you were to share with us and b) the monitoring agreement which Jake had to send. Can you please, forward them to me or upload on the drop box? Thanks, Syeda Basira Banuri, M.Eng., P.Eng. (she/her)	Email	2024-03-18	
HDI	Josh Deltor	2024-03-18	Email	Greetings Syeda, I had taken a leave of absence from my position starting on February 26th due to escalating personal health concerns. My apologies for any inconvenience this may have caused. Regards, Joshua Deltor.	Hi Aaron, Hope you're doing well. We had an opportunity to meet with your team in February this year to discuss technical comments provided by HDI for Peel's Transportation EAs. We appreciate your thorough review of our projects' documentation. We acknowledge your concerns, including water quality, aquatic and terrestrial habitats, SAR species, interconnected ecosystem and the associated implications for the Haudenosaunee Treaty Rights for these sites and agree with our continuous engagement. In general, Peel proposes to collaborate with HDI to receive valuable input which can be facilitated through regular Peel/HDI meetings or project specific meetings, as required, or as agreed upon between the two parties. Our projects' teams have carefully reviewed HDI's comments received last year for the following two projects and prepared the responses. I have uploaded the detailed response files on drop box to which you have access and have also attached the files to this email for your convenience. 1.Winston Churchill Blvd Schedule C Class EA Study 2.Snow Storage Sites Analysis EA and Conceptual Design Please, note that the responses provided here pertain to HDI comments received last year listed as "Environmental Treaty Rights Reports" . We also received subsequent comments from HDI in February 2024 listed as "Mitigation Engagement Strategy Plan" to which responses are being prepared and will be provided later. Our intent is to issue the Notice of Completion for these two projects to the public before summer this year. The report will be open to receiving comments from the public for 30 days and even after this, we will still be able to address any concerns and work on mitigation measures together. If you have any comments/questions or require further information, please do not hesitate to reach out. Kind regards, Syeda Basira Banuri, M.Eng., P.Eng. (she/her)	Email	2024-04-16	The Region responded to the November 13, 2023 HDI comments titled Snow Storage Sites Analysis and Conceptual Design Natural Environment Report – Environmental Treaty Rights Assessment on April 16, 2024.
HDI	Emma Kameka	2024-08-02	Email	Good afternoon Mr. Kearsley, I hope this message finds you well. I am reaching out on behalf of the Haudenosaunee Development Institute - Toronto regarding 4 projects that you are listed as the archeologist for: •Snow Storage Sites Analysis, Stage 1 AA, Additional - 7120 Hurontario St. PIF ID: 125667 •Stage 1 Archaeological Assessment of the Sutherland Wesleyan Methodist Church Cemetery and Rogers Cemetery, 3606 Line 8, Bradford West Gwillimbury. PIF ID: 126794 HDITO is interested in participating in all stages of these projects. Attached, you will find a standard monitoring agreement that we kindly request to be signed prior to the commencement of the work. For your convenience I have included the two separate projects to cover in this email, however I would like to clarify that I will need separate monitor agreements signed by the project's respective proponents as well as the project information below for each individual project. Could you please provide the following information at your earliest convenience for each project? •Project Name: •Project Address: •Project Contact Details: •Billing Contact: •Billing Contact Details: •Proponent Name: •Proponent Contact Details: Let me know if you have any questions or would prefer me to send this out to you for each individual project rather than amalgamating everything into one email. Thank you for your attention to this matter. I look forward to your prompt response. Best regards,	[Refer to Notes]	N/A	N/A	HDI was circulated the draft Project File and will also be notified regarding the final Project File, which includes the Stage 1 Archaeological Assessment report for 7120 Hurontario Street.
HDI	Rae Lumsdon	N/A	N/A	[Refer to outgoing correspondence]	Hi Rae, It was nice talking to you this morning. Please, see the following for a quick summary of our discussion and next steps with regards to Peel's transportation studies: •Transportation Infrastructure Programming (IP) team is working on finalizing the responses to HDI's Mitigation comments for Winston Churchill Blvd EA and Snow Storage Sites Analysis EA which will be shared with HDI via drop box site this week or early next week •Transportation IP team is working on the agreements for Stormwater Servicing Master Plan, Winston Churchill Blvd EA and Snow Storage Sites Analysis EA and will send it to HDI in a couple of weeks •We would like to file Winston Churchill Blvd EA and Snow Storage Sites Analysis EA this fall •SW Servicing Master Plan – it was our understanding that HDI will withdraw its Section 16 Order Request as we complete the agreement. I will send the draft agreement to you soon. Please, advise. •I am sharing a list of existing and upcoming Complete Corridor (CC) Studies (EA Exempt projects) as attached. It is my understanding based on our previous meetings/discussions with HDI staff that you would like to send us one set of comments which could be applicable to all CC studies. Our PM had previously shared with HDI the Stage 1 Archaeological Assessment and other information regarding Queen St (Hwy 50) Complete Corridor Study from Queensgate Blvd to Columbia Way. Please, let us know how would you like to move forward. Please, let me know if I have missed anything. We can touch base again in a couple of weeks to follow-up. If you have any comments or questions, please let me know. Looking forward, Syeda Basira Banuri, M.Eng., P.Eng. (she/her)	Email	24-09-03	
HDI	Rae Lumsdon	N/A	N/A	[Refer to outgoing correspondence]	Hello Rae, Following up on our earlier discussion this month, please find attached the promised documents. •Peel responses to HDI's Mitigation comments for Winston Churchill Blvd EA and Snow Storage Sites Analysis EA (also uploaded to the dropbox site) •Draft agreements for Stormwater Servicing Master Plan, Winston Churchill Blvd EA and Snow Storage Sites Analysis EA Please, note that the agreements are not signed and dated yet as they will need to be routed through DocuSign process. Currently, I am sharing the drafts with you just to ensure that there are no further comments from HDI before routing them for signatures. In terms of the item related to HDI's moving forward engagement with the complete corridor studies (EA Exempt projects), we are awaiting your response. Please, advise. Please, let me know if you have any comments or questions. Thanks, Syeda Basira Banuri, M.Eng., P.Eng.	Email	2024-09-20	The Region executed an agreement with HDI. The Region responded to comments dated Q1 2024 titled Snow Storage Sites Analysis and Conceptual Design Natural Environment Report – Mitigation Engagement Strategy Plan.

AECOM

Mississaugas of the Credit First Nation



Subject: RE: PIF Notification - Snow Storage Site Analysis

From: Megan DeVries <Megan.DeVries@mncfn.ca>
Sent: Monday, February 22, 2021 4:03 PM
To: Kearsley, Glenn <glenn.kearsley@aecom.com>
Cc: Mark LaForme <Mark.LaForme@mncfn.ca>; Fawn Sault <Fawn.Sault@mncfn.ca>; archaeology@ontario.ca
Subject: [EXTERNAL] PIF Notification - Snow Storage Site Analysis

Good afternoon,

Please see the attached letter from the Mississaugas of the Credit First Nation regarding your upcoming archaeological assessment.

Regards,
Megan.

Megan DeVries, M.A. (she/her)
Archaeological Operations Supervisor



Department of Consultation and Accommodation (DOCA)

Mississaugas of the Credit First Nation (MCFN)

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From: Trenouth, Bill
Sent: Wednesday, February 9, 2022 8:52 PM
To: Adam LaForme; Zandvliet, Samantha
Subject: RE: Snow Storage Site Analysis - Stage 1 AA

Adam,

Thank you for getting back to me and for letting me know. We will update our contact database to ensure that future correspondence is directed to you. I look forward to receiving your review and comments on the Stage 1 assessment.

Sincerely,
Bill.

Bill Trenouth, Ph.D., P.Eng., PMP
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From: Adam LaForme <Adam.LaForme@mncfn.ca>
Sent: February 9, 2022 11:37 AM
To: Trenouth, Bill <bill.trenouth@aecom.com>
Subject: [EXTERNAL] RE: Snow Storage Site Analysis - Stage 1 AA

Good Morning Bill,

I am the new Archaeological Operations Supervisor for MCFN.

Thank you for sending the stage 1 report the Snow Storage site, I have added your report to our queue for review.

Regards,

Adam LaForme (he/him)
Archaeological Operations Supervisor



Mississaugas of the Credit First Nation (MCFN)
Department of Consultation and Accommodation (DOCA)
4065 Highway 6 North, Hagersville, ON N0A 1H0
Cell 289-527-2763

From: Trenouth, Bill
Sent: Tuesday, February 8, 2022 10:13:44 AM (UTC-05:00) Eastern Time (US & Canada)
To: Megan DeVries
Cc: Banuri, Syeda
Subject: Snow Storage Site Analysis - Stage 1 AA

Good Morning Ms. DeVries,

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 for construction suitable Peel- and lower-tier municipally-owned properties. In accordance with the attached agreement and correspondence below, I am pleased to provide you with a copy of the Stage 1 Archaeological Assessment completed by AECOM archeologists for MCFN's review, consideration, comment and record. In the meantime, please do not hesitate to contact me if you have any questions.

Thank you and we look forward to hearing from you.

Sincerely,
Bill.

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Water Resources Engineer, Water
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From: Megan DeVries <Megan.DeVries@mncfn.ca>
Sent: July 8, 2021 3:28 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>; Maraj, Kelly <ashwantiemelly.maraj@peelregion.ca>; Mark LaForme <Mark.LaForme@mncfn.ca>; Grueneis, Karl <Karl.Grueneis@aecom.com>; archaeology@ontario.ca; Kearsley, Glenn <glenn.kearsley@aecom.com>; Fawn Sault <Fawn.Sault@mncfn.ca>
Subject: [EXTERNAL] RE: Re - PIF Notification 112584 - Snow Storage Site Analysis - Stage 1 AA

Good afternoon,

Please find attached the fully executed agreement for your records. When ready, please forward the draft reports for MCFN review.

Regards,
Megan.

Megan DeVries (she/her)
Archaeological Operations Supervisor



Department of Consultation and Accommodation (DOCA)
Mississaugas of the Credit First Nation (MCFN)
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From: Banuri, Syeda <syeda.banuri@peelregion.ca>

Sent: Monday, July 5, 2021 12:38 PM

To: Megan DeVries <Megan.DeVries@mncfn.ca>

Cc: Gray, Derek <Derek.Gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>; Maraj, Kelly <ashwantiemelly.maraj@peelregion.ca>; Mark LaForme <Mark.LaForme@mncfn.ca>; Grueneis, Karl <Karl.Grueneis@aecom.com>; archaeology@ontario.ca; glenn.kearsley@aecom.com; Fawn Sault <Fawn.Sault@mncfn.ca>

Subject: RE: Re - PIF Notification 112584 - Snow Storage Site Analysis - Stage 1 AA

Hi Ms. Megan,

I apologize, it took us some time to respond back. The Region of Peel was working on preparing an agreement document between the Region and **Department of Consultation and Accommodation (DOCA) Mississaugas of the Credit First Nation** to facilitate project participation and technical review of project information. Please, see attached. Let me know if you have any comments or questions. Otherwise, please complete, sign and return the document.

I will send once, the project's technical reports are ready for your review and comments. You may then send the invoices to my attention please. We appreciate electronic correspondence during COVID-19 times.

If you like to touch base further, please do not hesitate to contact me via email or phone.

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: Megan DeVries <Megan.DeVries@mncfn.ca>

Sent: March 12, 2021 2:25 PM

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

Cc: Gray, Derek <Derek.Gray@aecom.com>; Mark LaForme <Mark.LaForme@mncfn.ca>; Grueneis, Karl <Karl.Grueneis@aecom.com>; archaeology@ontario.ca; glenn.kearsley@aecom.com; Fawn Sault <Fawn.Sault@mncfn.ca>; Trenouth, Bill <bill.trenouth@aecom.com>

Subject: RE: Re - PIF Notification 112584 - Snow Storage Site Analysis - Stage 1 AA

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

Good afternoon Syeda,

Thank you for your email regarding the upcoming archaeological assessment for Region of Peel Snow Storage Site Analysis.

Please note that, in order to continue maintaining DOCA capacity for fulsome project participation, DOCA charges for technical review of project information. In the exercise of its stewardship responsibility, DOCA seeks to work together with project proponents and their archaeological consultants to ensure that archaeological work is done properly and respectfully. DOCA has retained technical advisers with expertise in the field of archaeology. These experts will review the technical aspects and cultural appropriateness of the archaeological assessments and strategies associated with your project. Upon completion of these reviews, MCFN will identify, if necessary, mitigation measures to address any project impacts upon MCFN rights. For cultural materials and human remains, DOCA may advise that this includes ceremonies required by Anishinaabe law, as well as request adjustments to the proposed fieldwork strategy.

The proponent is expected to pay the costs for MCFN to engage in a technical review of the project. DOCA anticipates at this time that all archaeological review will be undertaken by in-house technical experts, but will advise the proponent if an outside peer-review is required. Please find attached the agreement that covers MCFN's inhouse technical review of the archaeological assessments and strategies associated with your project(s). If you could please fill in the additional required information, highlighted in yellow, and return to us a signed copy, that would be greatly appreciated. After we have received it, we can execute the contract on our end and return the completed contract to you.

Sincerely,
Megan.

Megan DeVries, M.A. (she/her)
Archaeological Operations Supervisor



Department of Consultation and Accommodation (DOCA)
Mississaugas of the Credit First Nation (MCFN)

4065 Highway 6 North, Hagersville, ON N0A 1H0

P: 905-768-4260 | M: 289-527-2763

<http://www.mncfn.ca>

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

Sent: Tuesday, March 9, 2021 9:22 PM

To: Megan DeVries <Megan.DeVries@mncfn.ca>

Cc: Gray, Derek <Derek.Gray@aecom.com>; Mark LaForme <Mark.LaForme@mncfn.ca>; Grueneis, Karl <Karl.Grueneis@aecom.com>; archaeology@ontario.ca; glenn.kearsley@aecom.com; Fawn Sault <Fawn.Sault@mncfn.ca>; Trenouth, Bill <bill.trenouth@aecom.com>

Subject: Re - PIF Notification 112584 - Snow Storage Site Analysis - Stage 1 AA

Importance: High

Megan DeVries, Archaeological Operations
Supervisor

March 9, 2021

Department of Consultation and Accommodation
Mississaugas of the Credit First Nation
4065 Hwy #6, Hagersville, ON
NOA 1H0

Subject: PIF Notification 112584 - Region of Peel Snow Storage Site Analysis and Preliminary Design - Stage 1 AA

Dear Ms. Megan,

I would like to thank you for your comments sent to Glenn Kearsley of AECOM Canada Ltd. in your letter of *February 22, 2021* (attached) addressed to him related to the Region of Peel's **Snow Storage Sites Analysis and Preliminary Design study**. It was my pleasure talking to you by phone last week. As briefly discussed, I would like to provide a quick overview of the undertaking further as follows:

AECOM Canada Ltd. has been retained late last year by the Region of Peel 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 environmental, 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. The project formally initiated early this year and is anticipated to be complete in 2022.

Background:

A total of nine sites were identified during a preliminary internal screening completed by the Region of Peel are included in this study, which are represented in the attached Map package. Please, note that the information presented in the package is preliminary in order to engage meaningful discussions with stakeholders. It will continue to evolve as the project progresses and will be revised/refined through stakeholders' 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 four or five of the sites will be validated to proceed to preliminary design completed through this assignment.

At this time no archaeological fieldwork is planned as the scope of work includes a Stage 1 Archaeology Assessment only. The Stage 1 report for this study will reference all previous work that has been completed on the nine sites, and can be made available before being finalized. If warranted by the Stage 1, the Stage 2 Archaeology work will be completed for the recommended sites and we would appreciate your advice, feedback and involvement.

For further input, comments or questions, you may contact me or Derek Gray – Project Manager for AECOM. During Covid-19 times, the best way to reach us is by email or by phone provided below.

Syeda.Banuri@peelregion.ca Cell: 416-407-7860
Derek.Gray@aecom.com Cell: 416 452 5390

Yours Truly,
Syeda Banuri

CC:
Mark LaForme, MCFN-DOCA
Fawn Sault, MCFN

Ministry of Heritage, Sport, Tourism, and Culture Industries
Derek Gray, AECOM
Glenn Kearsley, AECOM

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
cell: 416-407-7860



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From: Megan DeVries <Megan.DeVries@mncfn.ca>
Sent: Monday, February 22, 2021 4:03 PM
To: Kearsley, Glenn <glenn.kearsley@aecom.com>
Cc: Mark LaForme <Mark.LaForme@mncfn.ca>; Fawn Sault <Fawn.Sault@mncfn.ca>; archaeology@ontario.ca
Subject: [EXTERNAL] PIF Notification - Snow Storage Site Analysis

Good afternoon,

Please see the attached letter from the Mississaugas of the Credit First Nation regarding your upcoming archaeological assessment.

Regards,
Megan.

Megan DeVries, M.A. (she/her)
Archaeological Operations Supervisor



Department of Consultation and Accommodation (DOCA)
Mississaugas of the Credit First Nation (MCFN)
4065 Highway 6 North, Hagersville, ON N0A 1H0
P: 905-768-4260 | M: 289-527-2763
<http://www.mncfn.ca>

Subject: RE: Snow Storage Site Analysis - Stage 1 AA

From: Marie-Annick Prevost <Marie-Annick.Prevost@mncfn.ca>

Sent: February-22-22 10:07 AM

To: Trenouth, Bill <bill.trenouth@aecom.com>

Cc: Adam LaForme <Adam.LaForme@mncfn.ca>; syeda.banuri@peelregion.ca; Gray, Derek <Derek.Gray@aecom.com>; ashwantiakelly.maraj@peelregion.ca; Mark LaForme <Mark.LaForme@mncfn.ca>; Grueneis, Karl <Karl.Grueneis@aecom.com>; Kearsley, Glenn <glenn.kearsley@aecom.com>

Subject: [EXTERNAL] RE: Snow Storage Site Analysis - Stage 1 AA

Hi Bill,

On behalf of MCFN-DOCA I reviewed the stage 1 archaeological assessment report prepared by AECOM on potential snow storage sites in the Peel region.

I only have one small comment. The report recommends stage 2 test pitting survey for the Tullamore and Highway 50 carpool lot sites. However, the survey interval does not seem to be explicitly mentioned in the recommendations. I assume that the recommended interval is 5m due to the presence of features of archaeological potential (Salt Creek at Tullamore and the Hart site at Highway 50 carpool). Am I correct?

I currently have no other concern with the report or the recommendations made within it. If you proceed to stage 2, please contact our Archaeological Operations Supervisor Adam LaForme to coordinate Field Liaison Representative participation and subsequent report review.

Best,

Marie-Annick Prevost, PhD (she/her)

Field archaeologist



Mississaugas of the Credit First Nation (MCFN)

Department of Consultation and Accommodation (DOCA)

4065 Highway 6 North, Hagersville, ON N0A 1H0

Cell: 905-870-5844

From: Trenouth, Bill

Sent: Tuesday, February 8, 2022 10:13:44 AM (UTC-05:00) Eastern Time (US & Canada)

To: Megan DeVries

Cc: Banuri, Syeda

Subject: Snow Storage Site Analysis - Stage 1 AA

Good Morning Ms. DeVries,

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 for construction suitable Peel- and lower-tier municipally-owned properties. In accordance with the attached agreement and correspondence below, I am pleased to provide you with a copy of the Stage 1 Archaeological Assessment completed by AECOM archeologists for MCFN's review, consideration, comment and record. In the meantime, please do not hesitate to contact me if you have any questions.

Thank you and we look forward to hearing from you.

Sincerely,
Bill.

Bill Trenouth, Ph.D., P.Eng., PMP
Water Resources Engineer, Water
D +1-519-963-5921
M +1-647-638-2959
Bill.Trenouth@aecom.com

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London, ON N6A 6K2, Canada
T +1-519-673-0510
aecom.com

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From: Megan DeVries <Megan.DeVries@mncfn.ca>
Sent: July 8, 2021 3:28 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>; Maraj, Kelly <ashwantiemelly.maraj@peelregion.ca>; Mark LaForme <Mark.LaForme@mncfn.ca>; Grueneis, Karl <Karl.Grueneis@aecom.com>; archaeology@ontario.ca; Kearsley, Glenn <glenn.kearsley@aecom.com>; Fawn Sault <Fawn.Sault@mncfn.ca>
Subject: [EXTERNAL] RE: Re - PIF Notification 112584 - Snow Storage Site Analysis - Stage 1 AA

Good afternoon,

Please find attached the fully executed agreement for your records. When ready, please forward the draft reports for MCFN review.

Regards,
Megan.

Megan DeVries (she/her)
Archaeological Operations Supervisor



Department of Consultation and Accommodation (DOCA)
Mississaugas of the Credit First Nation (MCFN)
4065 Highway 6 North, Hagersville, ON N0A 1H0
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If you like to touch base further, please do not hesitate to contact me via email or phone.

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

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cell: 416-407-7860

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Sincerely,
Megan.

Megan DeVries, M.A. (she/her)
Archaeological Operations Supervisor



Department of Consultation and Accommodation (DOCA)

Mississaugas of the Credit First Nation (MCFN)

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Subject: Re - PIF Notification 112584 - Snow Storage Site Analysis - Stage 1 AA

Importance: High

Megan DeVries, Archaeological Operations
Supervisor
Department of Consultation and Accommodation
Mississaugas of the Credit First Nation
4065 Hwy #6, Hagersville, ON
N0A 1H0

March 9, 2021

Subject: PIF Notification 112584 - Region of Peel Snow Storage Site Analysis and Preliminary Design - Stage 1 AA

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For further input, comments or questions, you may contact me or Derek Gray – Project Manager for AECOM. During Covid-19 times, the best way to reach us is by email or by phone provided below.

Syeda.Banuri@peelregion.ca Cell: 416-407-7860
Derek.Gray@aecom.com Cell: 416 452 5390

Yours Truly,
Syeda Banuri

CC:
Mark LaForme, MCFN-DOCA
Fawn Sault, MCFN
Ministry of Heritage, Sport, Tourism, and Culture Industries
Derek Gray, AECOM
Glenn Kearsley, AECOM

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

cell: 416-407-7860



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Cc: Mark LaForme <Mark.LaForme@mncfn.ca>; Fawn Sault <Fawn.Sault@mncfn.ca>; archaeology@ontario.ca
Subject: [EXTERNAL] PIF Notification - Snow Storage Site Analysis

Good afternoon,

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Regards,
Megan.

Megan DeVries, M.A. (she/her)
Archaeological Operations Supervisor



Department of Consultation and Accommodation (DOCA)
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From: Zandvliet, Samantha
Sent: Friday, July 29, 2022 2:07 PM
To: Abby.LaForme@mncfn.ca
Cc: Mark LaForme; Banuri, Syeda; Trenouth, Bill
Subject: RE: Snow Storage Site Analysis - Stage 1 AA

Hi Abby,

Below is the link to download the Natural Environment and Cultural Heritage reports you have requested.

[Download link - Click Here](#)

Please let us know us know if you have any questions or comments.

Best regards,

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

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45 Goderich Road, Suite 201
Hamilton, ON L8E 4W8, Canada
T +1-905-578-3040
aecom.com

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From: Trenouth, Bill <bill.trenouth@aecom.com>
Sent: Thursday, July 28, 2022 9:04 AM
To: Abby LaForme <Abby.LaForme@mncfn.ca>; Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Cc: Mark LaForme <Mark.LaForme@mncfn.ca>; syeda.banuri@peelregion.ca
Subject: RE: Snow Storage Site Analysis - Stage 1 AA

Abby,

Thank you for getting back to me and for confirming MCFN's interest in the additional reports; we will send them along to you shortly. [@Zandvliet, Samantha](#) – could you please send Abby the requested reports?

Thank you,
Bill.

From: Abby LaForme <Abby.LaForme@mncfn.ca>
Sent: Wednesday, July 27, 2022 3:47 PM
To: Trenouth, Bill <bill.trenouth@aecom.com>
Cc: Mark LaForme <Mark.LaForme@mncfn.ca>
Subject: [EXTERNAL] RE: Snow Storage Site Analysis - Stage 1 AA

Good afternoon Bill,

My name is Abby LaForme, the Acting Consultation Coordinator for the Mississaugas of the Credit First Nation (MCFN), Department of Consultation and Accommodation (DOCA). I have been with MCFN DOCA for the last 3 years and have worked closely with Fawn Sault. So with that, I am very familiar with the consultation process.

I would like to review Natural Heritage Background Report and Cultural Heritage Report, I am also wondering if there was an Environmental Impact Study done on this site?

Thank you

Abby LaForme,
Acting Consultation Coordinator



Mississaugas of the Credit First Nation (MCFN)
Department of Consultation & Accommodation (DOCA)
4065 Highway 6, Hagersville, ON N0A 1H0
Ph: (905) 768 – 4260
Email: Abby.LaForme@mncfn.ca

From: Marie-Annick Prevost <Marie-Annick.Prevost@mncfn.ca>
Sent: Tuesday, July 26, 2022 2:14 PM
To: Abby LaForme <Abby.LaForme@mncfn.ca>
Subject: FW: Snow Storage Site Analysis - Stage 1 AA

Hi Abby,

Can you answer the email below?

Miigwetch!

Marie

From: Trenouth, Bill <bill.trenouth@aecom.com>
Sent: Tuesday, July 26, 2022 1:38 PM
To: Marie-Annick Prevost <Marie-Annick.Prevost@mncfn.ca>
Cc: Adam LaForme <Adam.LaForme@mncfn.ca>; syeda.banuri@peelregion.ca; Gray, Derek <Derek.Gray@aecom.com>; ashwantiakelly.maraj@peelregion.ca; Mark LaForme <Mark.LaForme@mncfn.ca>; Grueneis, Karl <Karl.Grueneis@aecom.com>; Kearsley, Glenn <glenn.kearsley@aecom.com>
Subject: RE: Snow Storage Site Analysis - Stage 1 AA

Ms. Prevost,

As a follow-up to our previous correspondence (below), I wanted to follow-up with you to confirm whether or not MCFN has any interest in reviewing some (or all) of the other reports being produced for the potential snow storage sites being assessed through this assignment? Reports include:

- Fluvial Geomorphological Report

- Natural Heritage Background Report
- Cultural Heritage Report
- Traffic Analysis Report
- Stormwater Analysis Conceptual Review Report
- Geotechnical/Hydrogeological/Contaminated Soils Assessment Report

If MCFN would like to review these reports I would be happy to provide these as well – please let me know. Otherwise, MCFN will continue to be consulted during the EA process, and would also be involved in any Stage II AA in the future.

Thank you and please let me know,
Bill.

Bill Trenouth, Ph.D., P.Eng., PMP
Water Resources Engineer, Water
D +1-519-963-5921
M +1-647-638-2959
Bill.Trenouth@aecom.com

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London, ON N6A 6K2, Canada
T +1-519-673-0510
aecom.com

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From: Marie-Annick Prevost <Marie-Annick.Prevost@mncfn.ca>
Sent: Tuesday, February 22, 2022 10:07 AM
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Cc: Adam LaForme <Adam.LaForme@mncfn.ca>; syeda.banuri@peelregion.ca; Gray, Derek <Derek.Gray@aecom.com>; ashwantiekelly.maraj@peelregion.ca; Mark LaForme <Mark.LaForme@mncfn.ca>; Grueneis, Karl <Karl.Grueneis@aecom.com>; Kearsley, Glenn <glenn.kearsley@aecom.com>
Subject: [EXTERNAL] RE: Snow Storage Site Analysis - Stage 1 AA

Hi Bill,

On behalf of MCFN-DOCA I reviewed the stage 1 archaeological assessment report prepared by AECOM on potential snow storage sites in the Peel region.

I only have one small comment. The report recommends stage 2 test pitting survey for the Tullamore and Highway 50 carpool lot sites. However, the survey interval does not seem to be explicitly mentioned in the recommendations. I assume that the recommended interval is 5m due to the presence of features of archaeological potential (Salt Creek at Tullamore and the Hart site at Highway 50 carpool). Am I correct?

I currently have no other concern with the report or the recommendations made within it. If you proceed to stage 2, please contact our Archaeological Operations Supervisor Adam LaForme to coordinate Field Liaison Representative participation and subsequent report review.

Best,

Marie-Annick Prevost, PhD (she/her)
Field archaeologist



Mississaugas of the Credit First Nation (MCFN)
Department of Consultation and Accommodation (DOCA)
4065 Highway 6 North, Hagersville, ON N0A 1H0
Cell: 905-870-5844

From: Trenouth, Bill
Sent: Tuesday, February 8, 2022 10:13:44 AM (UTC-05:00) Eastern Time (US & Canada)
To: Megan DeVries
Cc: Banuri, Syeda
Subject: Snow Storage Site Analysis - Stage 1 AA

Good Morning Ms. DeVries,

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 for construction suitable Peel- and lower-tier municipally-owned properties. In accordance with the attached agreement and correspondence below, I am pleased to provide you with a copy of the Stage 1 Archaeological Assessment completed by AECOM archeologists for MCFN's review, consideration, comment and record. In the meantime, please do not hesitate to contact me if you have any questions.

Thank you and we look forward to hearing from you.

Sincerely,
Bill.

Bill Trenouth, Ph.D., P.Eng., PMP
Water Resources Engineer, Water
D +1-519-963-5921
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From: Megan DeVries <Megan.DeVries@mncfn.ca>
Sent: July 8, 2021 3:28 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>; Maraj, Kelly <ashwantiemelly.maraj@peelregion.ca>; Mark LaForme <Mark.LaForme@mncfn.ca>; Grueneis, Karl <Karl.Grueneis@aecom.com>; archaeology@ontario.ca; Kearsley, Glenn <glenn.kearsley@aecom.com>; Fawn Sault <Fawn.Sault@mncfn.ca>
Subject: [EXTERNAL] RE: Re - PIF Notification 112584 - Snow Storage Site Analysis - Stage 1 AA

Good afternoon,

Please find attached the fully executed agreement for your records. When ready, please forward the draft reports for MCFN review.

Regards,
Megan.

Megan DeVries (she/her)
Archaeological Operations Supervisor



Department of Consultation and Accommodation (DOCA)
Mississaugas of the Credit First Nation (MCFN)

4065 Highway 6 North, Hagersville, ON N0A 1H0
Mobile: 289-527-2763
<http://www.mncfn.ca>

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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Monday, July 5, 2021 12:38 PM
To: Megan DeVries <Megan.DeVries@mncfn.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>; Maraj, Kelly <ashwantiemelly.maraj@peelregion.ca>; Mark LaForme <Mark.LaForme@mncfn.ca>; Grueneis, Karl <Karl.Grueneis@aecom.com>; archaeology@ontario.ca; glenn.kearsley@aecom.com; Fawn Sault <Fawn.Sault@mncfn.ca>
Subject: RE: Re - PIF Notification 112584 - Snow Storage Site Analysis - Stage 1 AA

Hi Ms. Megan,

I apologize, it took us some time to respond back. The Region of Peel was working on preparing an agreement document between the Region and **Department of Consultation and Accommodation (DOCA)**

Mississaugas of the Credit First Nation to facilitate project participation and technical review of project information.

Please, see attached. Let me know if you have any comments or questions. Otherwise, please complete, sign and return the document.

I will send once, the project's technical reports are ready for your review and comments. You may then send the invoices to my attention please. We appreciate electronic correspondence during COVID-19 times.

If you like to touch base further, please do not hesitate to contact me via email or phone.

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: Megan DeVries <Megan.DeVries@mncfn.ca>
Sent: March 12, 2021 2:25 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>; Mark LaForme <Mark.LaForme@mncfn.ca>; Grueneis, Karl <Karl.Grueneis@aecom.com>; archaeology@ontario.ca; glenn.kearsley@aecom.com; Fawn Sault

<Fawn.Sault@mncfn.ca>; Trenouth, Bill <bill.trenouth@aecom.com>

Subject: RE: Re - PIF Notification 112584 - Snow Storage Site Analysis - Stage 1 AA

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

Good afternoon Syeda,

Thank you for your email regarding the upcoming archaeological assessment for Region of Peel Snow Storage Site Analysis.

Please note that, in order to continue maintaining DOCA capacity for fulsome project participation, DOCA charges for technical review of project information. In the exercise of its stewardship responsibility, DOCA seeks to work together with project proponents and their archaeological consultants to ensure that archaeological work is done properly and respectfully. DOCA has retained technical advisers with expertise in the field of archaeology. These experts will review the technical aspects and cultural appropriateness of the archaeological assessments and strategies associated with your project. Upon completion of these reviews, MCFN will identify, if necessary, mitigation measures to address any project impacts upon MCFN rights. For cultural materials and human remains, DOCA may advise that this includes ceremonies required by Anishinaabe law, as well as request adjustments to the proposed fieldwork strategy.

The proponent is expected to pay the costs for MCFN to engage in a technical review of the project. DOCA anticipates at this time that all archaeological review will be undertaken by in-house technical experts, but will advise the proponent if an outside peer-review is required. Please find attached the agreement that covers MCFN's inhouse technical review of the archaeological assessments and strategies associated with your project(s). If you could please fill in the additional required information, highlighted in yellow, and return to us a signed copy, that would be greatly appreciated. After we have received it, we can execute the contract on our end and return the completed contract to you.

Sincerely,
Megan.

Megan DeVries, M.A. (she/her)
Archaeological Operations Supervisor



Department of Consultation and Accommodation (DOCA)
Mississaugas of the Credit First Nation (MCFN)
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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Tuesday, March 9, 2021 9:22 PM
To: Megan DeVries <Megan.DeVries@mncfn.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>; Mark LaForme <Mark.LaForme@mncfn.ca>; Grueneis, Karl <Karl.Grueneis@aecom.com>; archaeology@ontario.ca; glenn.kearsley@aecom.com; Fawn Sault <Fawn.Sault@mncfn.ca>; Trenouth, Bill <bill.trenouth@aecom.com>
Subject: Re - PIF Notification 112584 - Snow Storage Site Analysis - Stage 1 AA
Importance: High

Megan DeVries, Archaeological Operations
Supervisor
Department of Consultation and Accommodation
Mississaugas of the Credit First Nation
4065 Hwy #6, Hagersville, ON
N0A 1H0

March 9, 2021

Subject: PIF Notification 112584 - Region of Peel Snow Storage Site Analysis and Preliminary Design - Stage 1 AA

Dear Ms. Megan,

I would like to thank you for your comments sent to Glenn Kearsley of AECOM Canada Ltd. in your letter of *February 22, 2021* (attached) addressed to him related to the Region of Peel's **Snow Storage Sites Analysis and Preliminary Design study**. It was my pleasure talking to you by phone last week. As briefly discussed, I would like to provide a quick overview of the undertaking further as follows:

AECOM Canada Ltd. has been retained late last year by the Region of Peel 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 environmental, 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. The project formally initiated early this year and is anticipated to be complete in 2022.

Background:

A total of nine sites were identified during a preliminary internal screening completed by the Region of Peel are included in this study, which are represented in the attached Map package. Please, note that the information presented in the package is preliminary in order to engage meaningful discussions with stakeholders. It will continue to evolve as the project progresses and will be revised/refined through stakeholders' 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 four or five of the sites will be validated to proceed to preliminary design completed through this assignment.

At this time no archaeological fieldwork is planned as the scope of work includes a Stage 1 Archaeology Assessment only. The Stage 1 report for this study will reference all previous work that has been completed on the nine sites, and can be made available before being finalized. If warranted by the Stage 1, the Stage 2 Archaeology work will be completed for the recommended sites and we would appreciate your advice, feedback and involvement.

For further input, comments or questions, you may contact me or Derek Gray – Project Manager for AECOM. During Covid-19 times, the best way to reach us is by email or by phone provided below.

Syeda.Banuri@peelregion.ca Cell: 416-407-7860
Derek.Gray@aecom.com Cell: 416 452 5390

Yours Truly,
Syeda Banuri

CC:
Mark LaForme, MCFN-DOCA
Fawn Sault, MCFN
Ministry of Heritage, Sport, Tourism, and Culture Industries
Derek Gray, AECOM
Glenn Kearsley, AECOM

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: Megan DeVries <Megan.DeVries@mncfn.ca>
Sent: Monday, February 22, 2021 4:03 PM
To: Kearsley, Glenn <glenn.kearsley@aecom.com>
Cc: Mark LaForme <Mark.LaForme@mncfn.ca>; Fawn Sault <Fawn.Sault@mncfn.ca>; archaeology@ontario.ca
Subject: [EXTERNAL] PIF Notification - Snow Storage Site Analysis

Good afternoon,

Please see the attached letter from the Mississaugas of the Credit First Nation regarding your upcoming archaeological assessment.

Regards,
Megan.

Megan DeVries, M.A. (she/her)

Archaeological Operations Supervisor



Department of Consultation and Accommodation (DOCA)

Mississaugas of the Credit First Nation (MCFN)

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From: Zandvliet, Samantha
Sent: Thursday, December 1, 2022 3:33 PM
To: Abby.LaForme@mncfn.ca
Cc: Mark LaForme; syeda.banuri@peelregion.ca; Trenouth, Bill; Gray, Derek
Subject: 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; RE: Snow Storage Site Analysis - Stage 1 AA

Hello Abby,

As you are aware, the Region of Peel has initiated a Schedule B Municipal Class Environmental Assessment study to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. The requested supporting studies (Stage 1 Archaeological Assessment, Natural Environment and Cultural Heritage reports) completed for this project have been previously shared with MCFN.

At this time our study team would like to share with MCFN the attached **Notice of Commencement and Public Information Centre**. A Public Information Centre presentation (video) identifying the potential snow storage sites that have been evaluated is now posted on the Region's website: [Study for Snow Storage Sites - Region of Peel \(peelregion.ca\)](https://www.peelregion.ca/study-for-snow-storage-sites-region-of-peel/)

If you have any comments, questions, or if you would like us to resend any of the above noted studies, please contact the Region's Project Manager:

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

We look forward to hearing back from you.

Thank you,

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

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AECOM

**Six Nations of the Grand River
(Elected Council)**



From: Tanya Hill-Montour <tanyahill-montour@sixnations.ca>
Sent: Wednesday, June 15, 2022 3:14 PM
To: Kearsley, Glenn
Cc: Gray, Derek; Trenouth, Bill; Zandvliet, Samantha
Subject: [EXTERNAL] RE: Region of Peel Snow Storage Stage 1 Archaeological Assessment

Good afternoon Glenn,

I have reviewed the stage 1 Peel Snow Storage Stage 1 AA with no concerns or comments at this time. I would like to acknowledge that we have interest in participation .

As always thank you for the inclusion of our Indigenous community.

Kind Regards,

Tanya j. Hill-Montour B.A Hons.
Six Nations of the Grand River - Archaeology Supervisor.
c.226.388.0665
e. tanyahill-montour@sixnations.ca

From: Kearsley, Glenn <glenn.kearsley@aecom.com>
Sent: June 6, 2022 2:20 PM
To: Tanya Hill-Montour <tanyahill-montour@sixnations.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>; Trenouth, Bill <bill.trenouth@aecom.com>; Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Subject: Region of Peel Snow Storage Stage 1 Archaeological Assessment

Good afternoon Tanya,

Please find attached Stage 1 report for the Region of Peel Snow Storage project for your review. Please let us know if you have any questions or comments.

Thanks,
Glenn

Glenn Kearsley, M.A.
AECOM
Project Archaeologist, Cultural Resources Management, Design and Consulting Services - Americas
C 1-647-274-6772
glenn.kearsley@aecom.com
www.aecom.com

From: Zandvliet, Samantha
Sent: Thursday, December 1, 2022 3:55 PM
To: markhill@sixnations.ca
Cc: Tanya Hill-Montour; lonnybomberry@sixnations.ca; Peter Graham; syeda.banuri@peelregion.ca; Trenouth, Bill; Gray, Derek
Subject: Region of Peel Snow Storage Sites Analysis and Conceptual Design Project - Notice of Commencement and PIC
Attachments: [EXTERNAL] RE: Region of Peel Snow Storage Stage 1 Archaeological Assessment; Peel Snow Storage_Notice of Commencement and PIC.pdf

Hello Chief Mark B. Hill,

As your community may be aware, the Region of Peel has initiated a Schedule B Municipal Class Environmental Assessment study to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. The Stage 1 archaeological assessment was previously shared with Six Nation of the Grand River and Tanya confirmed interest in participation.

At this time our study team would like to share with Six Nations of the Grand River the attached **Notice of Commencement and Public Information Centre**. A Public Information Centre presentation (video) identifying the potential snow storage sites that have been evaluated is now posted on the Region's website: [Study for Snow Storage Sites - Region of Peel \(peelregion.ca\)](https://www.peelregion.ca/study-for-snow-storage-sites)

If you have any comments or questions related to this study, please contact the Region's Project Manager:

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

We are looking forward to hearing from you.

Thank you,

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

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AECOM

**Haudenosaunee Confederacy
Chiefs Council / Haudenosaunee
Development Institute**



From: Kearsley, Glenn
Sent: Monday, September 12, 2022 1:39 PM
To: Sharann Martin
Cc: Todd Williams; Gray, Derek; Trenouth, Bill; Zandvliet, Samantha
Subject: Region of Peel Snow Storage Stage 1 Archaeological Assessment
Attachments: RPT-St1AA-SNOW STORAGE-DRAFT.pdf

Good afternoon Sharann,

Please find attached Stage 1 report for the Region of Peel Snow Storage project for your review. Please let us know if you have any questions or comments.

Thanks,
Glenn

Glenn Kearsley, M.A.

AECOM

Project Archaeologist, Cultural Resources Management, Design and Consulting Services - Americas

C 1-647-274-6772

glenn.kearsley@aecom.com

www.aecom.com

From: Zandvliet, Samantha
Sent: Thursday, December 1, 2022 3:43 PM
To: info@hdi.land
Cc: Todd Williams; Sharann Martin; syeda.banuri@peelregion.ca; Trenouth, Bill; Gray, Derek
Subject: Region of Peel Snow Storage Sites Analysis and Conceptual Design Project - Notice of Commencement and PIC
Attachments: Region of Peel Snow Storage Stage 1 Archaeological Assessment; Peel Snow Storage_Notice of Commencement and PIC.pdf

Hello,

As HDI may be aware, the Region of Peel has initiated a Schedule B Municipal Class Environmental Assessment study to evaluate snow storage opportunities at selected Region of Peel (and one Town of Caledon) owned properties. The Stage 1 archaeological assessment report was previously shared with HDI.

At this time our study team would like to share with HDI the attached **Notice of Commencement and Public Information Centre**. A Public Information Centre presentation (video) identifying the potential snow storage sites that have been evaluated is now posted on the Region's website: [Study for Snow Storage Sites - Region of Peel \(peelregion.ca\)](https://www.peelregion.ca/study-for-snow-storage-sites)

If you have any comments, questions or feedback on this study, including the Stage 1 archaeological assessment, please contact the Region's Project Manager:

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

We look forward to hearing back from you.

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
D +1-905-390-2047
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Subject: RE: Review of reports

From: Polga, Miriam <miriam.polga@peelregion.ca>

Sent: November 8, 2023 10:27 AM

To: josh@detlorlaw.com

Cc: jake <jake@detlorlaw.com>; chazz@detlorlaw.com; Banuri, Syeda <syeda.banuri@peelregion.ca>; aarondetlor@gmail.com; Ihnat, Erin <erin.ihnat@peelregion.ca>

Subject: Review of reports

Dear Josh,

I hope this message finds you in good health and high spirits. As we continue to improve the framework that informs our review of Peel projects with HDI, I am reminded of our conversation in our meeting in September. I have been thinking about our discussion on the impacts of a few of our projects on the rights and interests of HCCC.

The projects (Stream 1) under consideration at the moment are:

Water/Wastewater Projects:

- Supply Capacity Increase for Palgrave

Transportation Projects:

- Snow Storage Sites Analysis EA and Pre-design.

We are hoping you might be able to share any insights as soon as you are able, even if they are in draft form. Your input would be greatly appreciated, as it will enable us to start developing mitigation strategies and engage in further consultations with you. If it would be helpful, we would be happy to meet with the technical staff leading the above listed projects on your team to discuss your comments and insights further. I am also wondering if it might be helpful to work together to develop mitigation measures. Although it is not required, if this is of interest to you, we are available to meet in November. If it is, feel free to send dates and time slots that may work, and I'll let you know what works on our end.

We recognize the importance of consultation with HDI and look forward to hearing from you soon.

Warm regards,

Cheers,

Miriam S. Polga, P.Eng., PMP

Manager, Water & Wastewater Infrastructure Planning

Region of Peel

10 Peel Centre Drive, Suite A (4th Floor)

Brampton, ON L6T 4B9

(905)-791-7800

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 **Peel Region**
working with you

Our working hours may be different. Please do not feel obligated to reply outside of your working hours. Let's work together to help foster healthy work-life boundaries.

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

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<http://www.peelregion.ca/corpserv/10pcd-expansion/map.htm>

Snow Storage Sites Analysis and Conceptual Design Natural Environment Report – Environmental Treaty Rights Assessment

Date: November 13, 2023

Prepared for: Haudenosaunee Development Institute (HDI)

[DRAFT]

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Executive Summary

This executive summary encapsulates the critical findings of the "Snow Storage Sites Analysis Treaty Rights Assessment," prepared for the Haudenosaunee Development Institute (HDI), concerning the Region of Peel's Snow Storage Sites Analysis and Conceptual Design project. The assessment focuses on the implications for Haudenosaunee Treaty Rights across five proposed snow storage sites: Site 1 (Highway No. 50 Car Pool Lot), Site 3 (West Brampton Reservoir and Pumping), Site 5 (Johnston Sports Park), Site 6 (Tullamore Reservoir), and Site 9 (Alloa Reservoir and Pumping Station).

Site 1 - Highway No. 50 Car Pool Lot

- The site lacks Designated Natural Areas, indicating minimal direct environmental impact. However, snowmelt runoff could affect downstream aquatic ecosystems connected to Treaty lands.
- The presence of a permanent watercourse outside the property boundary poses a risk of contaminated runoff impacting fish populations.
- No Species at Risk (SAR) stated, but potential impacts on undiscovered SAR habitats are a concern.
- Site 1 appears to pose the lowest potential risk to environmental Treaty rights of the sites under consideration

Site 3 - West Brampton Reservoir and Pumping

- Proximity to Huttonville Creek & Area Wetland Complex PSW and Region of Peel's Core Area Woodlands could lead to watercourse contamination and indirect woodland impacts.
- Contains an intermittent watercourse that may provide seasonal fish habitat.
- Potential habitat for Bobolink and Eastern Meadowlark, both SAR species. Snowmelt could disrupt their habitats and reduce reproductive success.

Site 5 - Johnston Sports Park

- Within 500 m of Region of Peel Core Area and NAC Woodland, suggesting risk to ecologically significant areas.
- Contains a permanent watercourse, indicating direct fish habitat and potential impacts on Redside Dace, a SAR species.
- Confirmed Monarch habitat and presence of Muskrat lodge, both integral to the local ecosystem and Haudenosaunee culture.

Site 6 - Tullamore Reservoir

- Near Region of Peel NAC woodland; increased flow rates may lead to ecological disturbance affecting SAR species.
- A permanent watercourse inside the property boundary, serving as a direct fish habitat, could be impacted by runoff, affecting Redside Dace habitats.
- Lack of significant wildlife habitats mentioned, but potential impacts on unidentified SAR species and habitats are a concern.

Site 9 - Alloa Reservoir and Pumping Station

- Close to Region of Peel Core Area Woodland, indicating potential indirect impacts on SAR habitats.
- Contains a permanent watercourse outside the property boundary, serving as a direct fish habitat.
- No stated SAR, but potential impacts on unidentified SAR species and habitats cannot be discounted.

In conclusion, the assessment highlights several environmental concerns across the proposed sites, particularly relating to water quality, aquatic habitats, SAR species, and interconnected ecosystems. These factors have significant implications for the Haudenosaunee Treaty Rights, necessitating the presence of Haudenosaunee Treaty rights monitors to oversee project adherence to treaty obligations and to monitor potential impacts on natural resources and ecosystems vital to the Haudenosaunee.

Background

As part of a Schedule 'B' Municipal Class Environmental Assessment (MCEA) and preliminary design, AECOM Canada Ltd. was retained by the Region of Peel to complete required investigations of identified sites considered as potential near and long-term snow storage solutions for the Region of Peel. The sites being investigated will serve as the destination for accumulated snow from bridges and overpasses, intersections with sightline issues, and roadway areas with narrow boulevards/space restrictions, and Regional facilities. As part of this work, a fluvial geomorphological investigation was completed to assess the existing conditions of the potential sites in order to complete a meander belt assessment and an erosion threshold assessment, where permissible, considering the potential impacts of the snow melt.

A total of nine (9) sites were originally included as potential snow storage sites but four (4) were excluded in the initial phase of this study due to conflicting uses, expansion plans or perceived contamination. Out of the five (5) proposed storage sites, four (4) (Sites 3, 5, 6, and 9) have been identified as having watercourses within or adjacent to the properties, which will be the primary focus of the fluvial geomorphic assessment.

- Site 1 – Highway 50 Carpool Lot: Southwest corner of intersection of Highway 50 and Mayfield Road.
- Site 3 – West Brampton Reservoir: West of Mississauga Road, south of Bovaird Drive West.
- Site 5 – Johnston Sports Park: Northwest of the intersection of Centreville Creek Road and King Street.
- Site 6 – Tullamore Reservoir and Pumping Station: Northwest of the intersection of Innis Lake Road and Mayfield Road.
- Site 9 – Alloa Reservoir: West of the intersection of Creditview Road and Mayfield Road

The objective of the fluvial geomorphic assessment is to characterize fluvial geomorphological processes within the study sites and to define management recommendations that will maintain the current channel processes and limit adverse impacts to channel morphology. At Site 1 - Highway 50 Carpool Lot, historical aerial imagery showed no visible watercourse within the proposed snow storage site and fieldwork confirmed this. Fluvial geomorphological reach characterization was completed at four locations proposed for snow storage. Further assessment occurred at two sites (Site 5 – Johnston Sports Park and Site 6 - Tullamore Reservoir), including Rapid Geomorphic Assessments, quantitative geomorphological data collection, calculation of an erosion threshold, and calculation of the meander belt. The remaining two sites were not further assessed due to watercourse being located on private property. For Site 3 – West Brampton Reservoir a site visit was conducted at Bovaird Drive where the channel was only slightly defined and approximately 1 m wide. At Site 9 – Alloa Reservoir a site visit was

conducted at Mississauga Road and Creditview Road where the channel is defined and approximately 4 m wide.

As part of the fluvial assessment, a Rapid Geomorphic Assessment (RGA), an erosion threshold assessment and a meander belt width delineation were completed on Site 5 – Johnston Sports Park and Site 6 – Tullamore Reservoir and Pumping Station.

The RGA completed at Site 5 – Johnston Sports Park found that the channel is in a “Transitional or Stressed” condition with aggradation and planimetric form adjustment as the main geomorphological processes taking place. In addition, the erosion threshold assessment calculated the critical discharge value required for bed material entrainment was on average 0.15 m³/s. Lastly, the meander belt width was determined using the empirical approach due to historical alterations of the channel and calculated at 33.5m

The RGA Assessment completed at Site 6 – Tullamore Reservoir identify the channel to be in “Regime” with widening and planimetric form adjustment identified as the main geomorphological processes taking place. Minimal evidence of erosion was found within this reach. The erosion threshold identified that the critical discharge value required to entrain or begin to transport bed material is on average 0.13 m³/s. Lastly, the meander belt width was completed using the mapping approach and is 158m.

The results of the assessments are further discussed in the in body of the report. Based on the results of the fluvial geomorphic assessment, the following recommendations are made:

- Increases in flow to the watercourses from the snow melt should consider the erosion threshold conditions for Site 5 – Johnston Sports Park and Site 6 - Tullamore Reservoir. The erosion threshold provides targets for the drainage network. Increases in flow have the potential to result in channel instability and lead to morphological adjustment. It should be noted that at Site 5 - Johnston Sports Park, that aggradation of fine sediment was found along the bed of the watercourse and that increases in flow will help to alleviate this. At Site 6 – Tullamore Reservoir, shale bedrock identified along the bed of the watercourse will provide resistance to erosional processes, but no shale was noted along the banks. It is recommended that care is taken to maintain vegetation cover along and within the watercourses in order to maintain the existing channel stability.
- The meander belt refers to the lateral extent of floodplain occupation by a meandering watercourse both now and into the future. Protecting the meander belt area from encroachment serves the dual purposes of enabling a continuity of natural channel processes and of protecting property and structures from erosion. To prevent, eliminate or minimize the risks to life and property caused by erosion hazards, it is recommended to maintain the meander belt boundary.
- Due to the location of the watercourses on private property at Site 3 – West Brampton Reservoir and Site 9 – Alloa Reservoir and no permission to enter (PTE), a scoped fluvial geomorphological assessment was completed. Future detailed assessments are recommended when permission to enter granted.

The total land use for Sites 1, 3, 5, 6, and 9 is approximately 0.79 acres, 2.84 acres, 7.68 acres, 0.58 acres, and 0.77 acres, respectively.

Lands

Natural Environment Feature: Designated Natural Areas

Site 1 - Highway No. 50 Car Pool Lot: None

Site 3 - West Brampton Reservoir and Pumping: None but within 120 m of Huttonville Creek & Area Wetland Complex PSW. None but within 40 m of Region of Peel's Core Area Woodlands and more than 500 m of Region of Peel's NAC Woodlands.

Site 5 - Johnston Sports Park: None but within 500 m of Region of Peel Core Area and NAC Woodland.

Site 6 - Tullamore Reservoir: None but within 200 m of Region of Peel NAC woodland.

Site 9 - Alloa Reservoir and Pumping Station: None but within 330 m of Region of Peel Core Area Woodland.

Analysis:

Site 1 - Highway No. 50 Car Pool Lot:

1. Absence of Designated Natural Areas suggests minimal direct environmental impact, but the cumulative effects of snowmelt runoff could still affect downstream aquatic ecosystems that may be connected to Treaty lands.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Site 3 - West Brampton Reservoir and Pumping:

1. Close proximity (120 m) to Huttonville Creek & Area Wetland Complex PSW poses potential risks of watercourse contamination from snowmelt, affecting fish populations or plants traditionally used by the Haudenosaunee.
2. Being 40 m from Region of Peel's Core Area Woodlands implies that a change in water table or pollution could indirectly impact these sensitive woodlands, some of which might hold cultural or economic significance to the Haudenosaunee.
3. Haudenosaunee Treaty rights monitors are required where applicable.

Site 5 - Johnston Sports Park:

1. Being within 500 m of Region of Peel Core Area and NAC Woodland suggests a risk of snowmelt pollutants reaching these ecologically significant areas, affecting local flora and fauna that might be of importance under Treaty rights.

2. Potential increases in flow might lead to a sediment balance disruption, possibly impacting species that the Haudenosaunee have a Treaty right to hunt or gather.
3. Haudenosaunee Treaty rights monitors are required where applicable.

Site 6 - Tullamore Reservoir:

1. Proximity (200 m) to Region of Peel NAC woodland poses a risk of ecological disturbance, especially if flow rates are miscalculated, possibly impacting species vital to the Haudenosaunee culture or economy.
2. The shale bedrock may offer limited resistance to erosional processes; however, the absence of shale along the banks is a concern for potential erosion and sediment release, which could impact aquatic habitats related to Treaty rights.
3. Haudenosaunee Treaty rights monitors are required where applicable.

Site 9 - Alloa Reservoir and Pumping Station:

1. Being within 330 m of Region of Peel Core Area Woodland implies potential indirect impacts to these core woodlands, potentially affecting plants and animals that hold cultural or treaty-based significance to the Haudenosaunee.
2. In the absence of a detailed fluvial assessment due to private property limitations, unknown variables could pose risks to the water quality or ecosystems linked to Treaty lands.
3. Haudenosaunee Treaty rights monitors are required where applicable.

Natural Environment Feature: Vegetation

Site 1 - Highway No. 50 Car Pool Lot: 0.321 ha of Dry-Moist Old Field Meadow

Site 3 - West Brampton Reservoir and Pumping: 1.15 ha of Dry-Moist Old Field Meadow

Site 5 - Johnston Sports Park: 3.108 ha total for all vegetation communities (2.974 ha of agricultural soy, 0.029 ha of sports field, 0.061 ha of common reed, 0.044 ha of Dry-Moist Old Field Meadow

Site 6 - Tullamore Reservoir: 0.236 ha of manicured lawn

Site 9 - Alloa Reservoir and Pumping Station: 0.31 ha of manicured lawn

Analysis:

Site 1 - Highway No. 50 Car Pool Lot

1. The presence of 0.321 ha of Dry-Moist Old Field Meadow could serve as a habitat for certain flora and fauna species, potentially including those of cultural or medicinal importance to the Haudenosaunee. Snow storage could disrupt this habitat, which may infringe upon treaty rights related to traditional ecological knowledge and use.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Site 3 - West Brampton Reservoir and Pumping

1. Given its proximity to Huttonville Creek & Area Wetland Complex PSW and Core Area Woodlands, the 1.15 ha of Dry-Moist Old Field Meadow could be part of an interconnected ecosystem. Disturbance could have downstream effects that potentially implicate water quality and aquatic life, which are essential for Haudenosaunee subsistence and cultural practices.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Site 5 - Johnston Sports Park

1. The diverse vegetation, including 2.974 ha of agricultural soy, could be at risk for contamination from snowmelt, particularly if that snow contains road salt or other pollutants. Such contamination could indirectly affect the Haudenosaunee if these crops are integral to the food supply chain or local biodiversity.
2. The invasive common reed presence may indicate that the area has already been subject to some level of disturbance or pollution, raising questions about cumulative impacts of additional stressors like snow storage.
3. Haudenosaunee Treaty rights monitors are required where applicable.

Site 6 - Tullamore Reservoir

1. The 0.236 ha of manicured lawn may seem benign, but any potential application of pesticides or fertilizers on this lawn, combined with snowmelt, could lead to runoff that negatively impacts surrounding water systems and thus Haudenosaunee treaty rights.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Site 9 - Alloa Reservoir and Pumping Station

1. Similar to Site 6, the 0.31 ha of manicured lawn raises concerns about potential contamination of nearby water sources from runoff, especially given its proximity to the Core Area Woodland.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Natural Environment Feature: General Wildlife, including Significant Wildlife Habitat

Site 1 - Highway No. 50 Car Pool Lot: Candidate habitat for Monarch

Site 3 - West Brampton Reservoir and Pumping: Candidate habitat for Monarch. One (1) Animal Movement Corridors - Amphibians may travel through the Potential Snow Storage Area

Site 5 - Johnston Sports Park: Confirmed habitat for Monarch. Presence of Muskrat lodge

Site 6 - Tullamore Reservoir: None stated

Site 9 - Alloa Reservoir and Pumping Station: None stated

Analysis:

Site 1 - Highway No. 50 Car Pool Lot

1. The area is a candidate habitat for Monarch butterflies. Monarchs are important pollinators, and their habitat destruction could affect plant species vital for traditional Haudenosaunee

practices. This stands to impact the biodiversity which the Haudenosaunee rely upon for medicinal, cultural, and sustenance purposes.

2. Haudenosaunee Treaty rights monitors are required where applicable.

Site 3 - West Brampton Reservoir and Pumping

1. In addition to being a candidate habitat for Monarchs, this site also contains an animal movement corridor for amphibians. Any alteration or contamination due to snowmelt laden with road salts and pollutants can disrupt these corridors, affecting the local ecosystem's health. This can infringe upon Haudenosaunee Treaty rights by negatively impacting species used in traditional activities and ceremonies.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Site 5 - Johnston Sports Park

1. The presence of a confirmed Monarch habitat and a muskrat lodge indicates a diverse ecosystem. Muskrats are important in Haudenosaunee cosmology and serve practical uses such as trapping. Snow storage could disturb this habitat through increased human activity and potential runoff, thereby affecting species crucial to Haudenosaunee cultural and economic activities.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Site 6 - Tullamore Reservoir

1. While none are specifically stated, the lack of listed significant wildlife habitats does not entirely exclude their potential presence. The area might contain as-yet-unidentified habitats or serve as a migratory route for various species important to Haudenosaunee culture and subsistence.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Site 9 - Alloa Reservoir and Pumping Station

1. Similar to Site 6, the lack of stated habitats should not be taken as conclusive evidence of their absence. As with the previous site, impacts on unidentified wildlife could still infringe upon Haudenosaunee Treaty rights.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Waters

Natural Environment Feature: Aquatic Habitat

Site 1 - Highway No. 50 Car Pool Lot: (1) permanent watercourse outside property boundary. Direct fish habitat

Site 3 - West Brampton Reservoir and Pumping: One (1) intermittent watercourse inside property boundary. May provide seasonal fish habitat

Site 5 - Johnston Sports Park: One (1) permanent watercourse inside property boundary. Direct fish habitat

Site 6 - Tullamore Reservoir: One (1) permanent watercourse inside property boundary. Direct fish habitat

Site 9 - Alloa Reservoir and Pumping Station: One (1) permanent watercourse outside property boundary. Direct fish habitat

Analysis:

Site 1 - Highway No. 50 Car Pool Lot

1. Given the presence of a permanent watercourse outside the property boundary that serves as direct fish habitat, the quality and sustainability of this water system should be closely monitored. Any polluted runoff from snow storage could affect fish populations and subsequently impact the Haudenosaunee's fishing rights, subsistence, and cultural practices.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Site 3 - West Brampton Reservoir and Pumping

1. The intermittent watercourse inside the property boundary could serve as a seasonal fish habitat. Snow storage could cause changes in water flow, quality, and temperature, potentially affecting the Haudenosaunee's access to and quality of seasonal fishing.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Site 5 - Johnston Sports Park

1. The presence of a permanent watercourse inside the property boundary implies that this site is a direct fish habitat. Any snowmelt runoff containing pollutants such as road salt could lead to water quality deterioration, possibly affecting fish species vital to the Haudenosaunee.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Site 6 - Tullamore Reservoir

1. With a permanent watercourse inside the property boundary that serves as a direct fish habitat, similar concerns arise as in Sites 1 and 5. The potential for contaminated runoff directly affecting water quality and fish habitats raises significant concerns for the Haudenosaunee's treaty rights related to fishing.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Site 9 - Alloa Reservoir and Pumping Station

1. A permanent watercourse outside the property boundary provides direct fish habitat. As with Site 1, any pollution in the snowmelt runoff could adversely impact the water quality and the health of fish populations, affecting the Haudenosaunee's fishing rights and cultural practices.
2. Haudenosaunee Treaty rights monitors are required where applicable.

Species at Risk

Natural Environment Feature: Species at Risk

Site 1 - Highway No. 50 Car Pool Lot: None stated

Site 3 - West Brampton Reservoir and Pumping: Potential habitat for Bobolink and Eastern meadowlark

Site 5 - Johnston Sports Park: Redside Dace

Site 6 - Tullamore Reservoir: Redside Dace

Site 9 - Alloo Reservoir and Pumping Station: None stated

Analysis:

Site 1 - Highway No. 50 Car Pool Lot

1. While no species at risk are stated, the potential for their presence or the presence of their habitats cannot be entirely discounted. The report's findings should not lead to the assumption that there will be no absolutely zero effects on species at risk. The increase in salinity and potential contaminants from road runoff and stored snow could create conditions that are harmful to unidentified species at risk or alter critical passage routes for migratory species.
2. The meltwater from the snow storage may affect subterranean aquifers or unrecorded hydrological features that are crucial to the survival of nearby species at risk, potentially affecting their food sources or nesting grounds covered under the Nanfan Treaty.
3. Haudenosaunee Treaty rights monitors are required where applicable.

Site 3 - West Brampton Reservoir and Pumping

1. The presence of potential habitat for the Bobolink and Eastern meadowlark, both of which are species at risk, could be negatively impacted by changes in water flow and quality due to snowmelt. This includes alterations to the meadow-like habitats these birds require, which could become fragmented or degraded by increased water or sediment flow.
2. The construction and operation phases for snow storage could lead to noise and human activity that disturbs these ground-nesting birds, reducing reproductive success and potentially leading to a decline in local populations.
3. Haudenosaunee Treaty rights monitors are required where applicable.

Site 5 - Johnston Sports Park

1. The presence of Redside Dace, a species at risk known for its sensitivity to water quality changes, suggests that alterations in sediment load and water temperature due to snowmelt could negatively impact its habitat, spawning activities, and food availability.
2. Changes to the meander belt and erosion threshold could alter the physical characteristics of the stream, potentially impacting the microhabitats essential for the Redside Dace lifecycle, such as riffle areas for spawning.
3. Haudenosaunee Treaty rights monitors are required where applicable.

Site 6 - Tullamore Reservoir

1. Similar to Site 5, the presence of Redside Dace indicates a risk to their sensitive habitat. The shale bedrock may provide some resistance to erosion, but the lack of shale along the banks suggests that increased flow could still significantly alter bank structure and stream morphology, affecting Redside Dace habitat.
2. The vegetation cover that is crucial for maintaining bank stability and water quality for the Redside Dace may be threatened by increased runoff and snow storage activities, especially during snowmelt when the risk of erosion and sedimentation is highest.
3. Haudenosaunee Treaty rights monitors are required where applicable.

Site 9 - Alloa Reservoir and Pumping Station

1. While no species at risk are stated, the potential for their presence or the presence of their habitats cannot be entirely discounted. The report's findings should not lead to the assumption that there will be no absolutely zero effects on species at risk.
2. Possible changes to groundwater and surface water regimes due to the snow storage could affect nearby natural environments that may be critical to unidentified species at risk.
3. Haudenosaunee Treaty rights monitors are required where applicable.

Comparative Assessment of Site Impacts

Natural Environment Feature: Comparative Assessment of Site Impacts to Natural Environment

Site 1 - Highway No. 50 Car Pool Lot: Least potential effect given that the cultural meadow is disturbed, and there are no sensitive features adjacent to this site that will be affected by increased water inputs from snow melt.

Site 3 - West Brampton Reservoir and Pumping: Moderate impact potential given the meadow has potential to support SOCC and SAR species. The proposed storage area is adjacent to a PSW that may be impacted from increased water inputs from snow melt.

Site 5 - Johnston Sports Park: Moderate impact given the majority of the area is agricultural soy row crop that does not provide habitat for SAR and SOCC. A small portion of the CUM1-1 is within the proposed Snow Storage Area, which was identified as confirmed monarch habitat. Potential for contributing Redside Dace habitat to be identified by MECP within Lindsay Creek as occupied reaches are confirmed approximately 2 km downstream. This habitat may be impacted from melt water entering the watercourse.

Site 6 - Tullamore Reservoir: Moderate impact given the proposed Snow Storage Area consist of manicured lawn and there is low potential for SAR habitat of SWH. There are core woodlands and NACs in the vicinity that may be impacted from increased water inputs from snow melt. Salt Creek was identified as providing habitat for Redside Dace. This habitat may be impacted from melt water entering the watercourse.

Site 9 - Alloa Reservoir and Pumping Station: Low to moderate impact given the proposed Snow Storage Area consist of manicured lawn and there is low potential for SAR habitat of SWH. There are core woodlands in the vicinity but are unlikely to be impacted from increased water inputs from snow melt as they are more than 300m away.

Analysis:

Site 1 - Highway No. 50 Car Pool Lot:

1. Site 1 appears to have the lowest potential for adverse impacts to environmental Treaty rights of the sites under consideration
2. Although no Species at Risk (SAR) are stated for this location, the introduction of meltwater may still affect underground water flows and potentially undiscovered SAR habitats, as not all species may have been accounted for during assessments.

3. Haudenosaunee Treaty rights monitors are required where applicable.

Site 3 - West Brampton Reservoir and Pumping:

1. Increased meltwater could lead to changes in water chemistry and flow regimes, potentially disrupting the habitat of SAR like Bobolink and Eastern Meadowlark, and any other sensitive species relying on the adjacent Provincially Significant Wetland (PSW).
2. Haudenosaunee Treaty rights monitors required to oversee adherence to treaty obligations and to monitor potential impacts on SAR and PSW.

Site 5 - Johnston Sports Park:

1. If Lindsay Creek is found to be part of the Redside Dace habitat, snowmelt could introduce pollutants or alter the thermal regime of the creek, affecting the Redside Dace population.
2. The confirmed presence of Monarch habitat within the Cumulative Effect Monitoring Unit (CUM1-1) suggests that snow storage activities could disrupt the lifecycle of this species, particularly through changes in vegetation patterns due to altered hydrology.
3. Haudenosaunee Treaty rights monitors required for protection of confirmed Monarch habitat and any potential Redside Dace habitats.

Site 6 - Tullamore Reservoir:

1. The presence of manicured lawns suggests regular human activity, which may already be suppressing SAR; however, increased water inputs from snowmelt can lead to additional pressures on the Salt Creek and its habitats, including the Redside Dace.
2. The vicinity of core woodlands and Natural Areas Conservation (NAC) could see indirect effects from snowmelt runoff, such as invasive species proliferation due to disturbed soil or altered water availability.
3. Haudenosaunee Treaty rights monitors required to ensure that the core woodlands and NAC are protected and that any changes do not impair SAR, particularly the Redside Dace.

Site 9 - Alloa Reservoir and Pumping Station:

1. While immediate impacts may be low due to distance from core woodlands, over time, cumulative effects of altered hydrology and potential chemical runoff from stored snow could affect soil and water quality, thereby impacting SAR habitats indirectly.
2. Monitoring is recommended to determine long-term effects of snowmelt on hydrology and SAR, with Haudenosaunee Treaty rights monitors involved to ensure that any unforeseen impacts are addressed.

Project Maps



Aerial imagery provided by: The Report 2020 Province of Ontario, York Region, Etobicoke, East Humber, Greenhills, North York, USGS, ESRI, USDA, NRCAN, Parks Canada

- ELC Code Description**
CUM1-1: Mineral Cultural Dry-Moist Old Field Meadow Type
CUW1: Mineral Cultural Woodland Type



- Legend**
- Study Area (120 m)
 - Potential Snow Storage Area
 - Potential Snow Storage Property Boundary
 - Municipal Boundary
 - District, County, or Regional Road
 - Watercourse
 - ELC Community Code
 - Vegetation Community

Snow Storage Site Analysis and Conceptual Design Project 13-4007

Vegetation Communities - Site:1
 Highway No. 50 Car Pool Lot



Feb, 2022
 P-100646784 Rev:00

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Figure 2-1

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- Legend**
- - - Study Area (120 m)
 - Potential Snow Storage Property Boundary
 - Municipal Boundary
 - District, County, or Regional Road
 - Watercourse
 - ELC Community Code
 - Vegetation Community

Snow Storage Site Analysis and Conceptual Design Project 13-4007

Vegetation Communities - Site:3
West Brampton Reservoir and Pumping Station

NAD 1983 UTM Zone 17N
Scale: 1:2,000
Date: Feb, 2022
Project: P-50046764
Revision: Rev:00

AECOM

Figure 2-2

- ELC Code Description**
- CUM1-1: Mineral Cultural Dry-Moist Old Field Meadow Type
 - MAS2-1: Cattail Mineral Shallow Marsh Type
 - FOD2-3: Dry Fresh Oak - Hickory Deciduous Forest Type

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- Legend**
- - - Study Area (120 m)
 - Potential Snow Storage Property Boundary
 - Municipal Boundary
 - Watercourse
 - ELC Community Code
 - Vegetation Community

Snow Storage Site Analysis and Conceptual Design Project 13-4007

Vegetation Communities - Site:5
Johnston Sports Park

NAD 1983 UTM Zone 17N	
Date: Feb, 2022 Project: P-20246784 Revision: Revr.00	Drawn By: RECON, 180041 Checked By: MSCP, Reginald P. Paul Revr.00
AECOM	
Figure 2-7	

ELC Code Description

- CUH: Cultural Hedgerow
- FOD: Deciduous Forest
- MAM3-2: Reed-cannary Grass Graminoid Organic Meadow Marsh Type
- MAS3-2 / CUW1: Bulrush Organic Shallow Marsh Type/ Mineral Cultural Woodland

Aerial imagery provided by: Esri, DeLorme, GeoEye, Earthstar, IGN, Intermap, Inc., Swire, GEBCO, USGS, AeroGRID, IGN, Esri, Canada Lands Company, etc.



ELC Code Description
CUM1-1: Mineral Cultural Dry-Moist Old Field Meadow Type
CUT1: Mineral Cultural Thicket
CUT1 / CUM1-1: Mineral Cultural Thicket / Mineral Cultural Dry-Moist Old Field Meadow Complex
FOD: Deciduous Forest
MAS2-1: Cattail Mineral Shallow Marsh Type



Snow Storage Site Analysis and Conceptual Design Project 13-4007

Vegetation Communities - Site:6
 Tullamore Reservoir and Pumping Station

North Arrow	NAD 1983 UTM Zone 17N
Scale	1:2,000
Date	Feb. 2022
Project	PECOA, WMA, MECP Region of Peel
Drawing ID	P-2022-0784
Revision	Rev:00

AECOM Figure 2-9

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- ELC Code Description**
- CUM1-1:** Mineral Cultural Dry-Moist Old Field Meadow Type
 - CUT1:** Mineral Cultural Thicket
 - CUT1 / CUM1-1:** Mineral Cultural Thicket / Mineral Cultural Dry-Moist Old Field Meadow Complex

- FOD:** Deciduous Forest
- MAS2-1:** Cattail Mineral Shallow Marsh Type
- OAO:** Open Aquatic



- Legend**
- Study Area (120 m)
 - Potential Snow Storage Property Boundary
 - Municipal Boundary
 - Watercourse
 - ELC Community Code
 - Vegetation Community

Snow Storage Site Analysis and Conceptual Design Project 13-4007

Vegetation Communities - Site:6
Tullamore Reservoir and Pumping Station



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Legend

- Study Area (120 m)
- Potential Snow Storage Area
- Potential Snow Storage Property Boundary
- Municipal Boundary
- Watercourse
- Constructed Drain
- ELC Community Code
- Vegetation Community

Snow Storage Site Analysis and Conceptual Design Project 13-4007

Vegetation Communities - Site:9
Altona Reservoir and Pumping Station



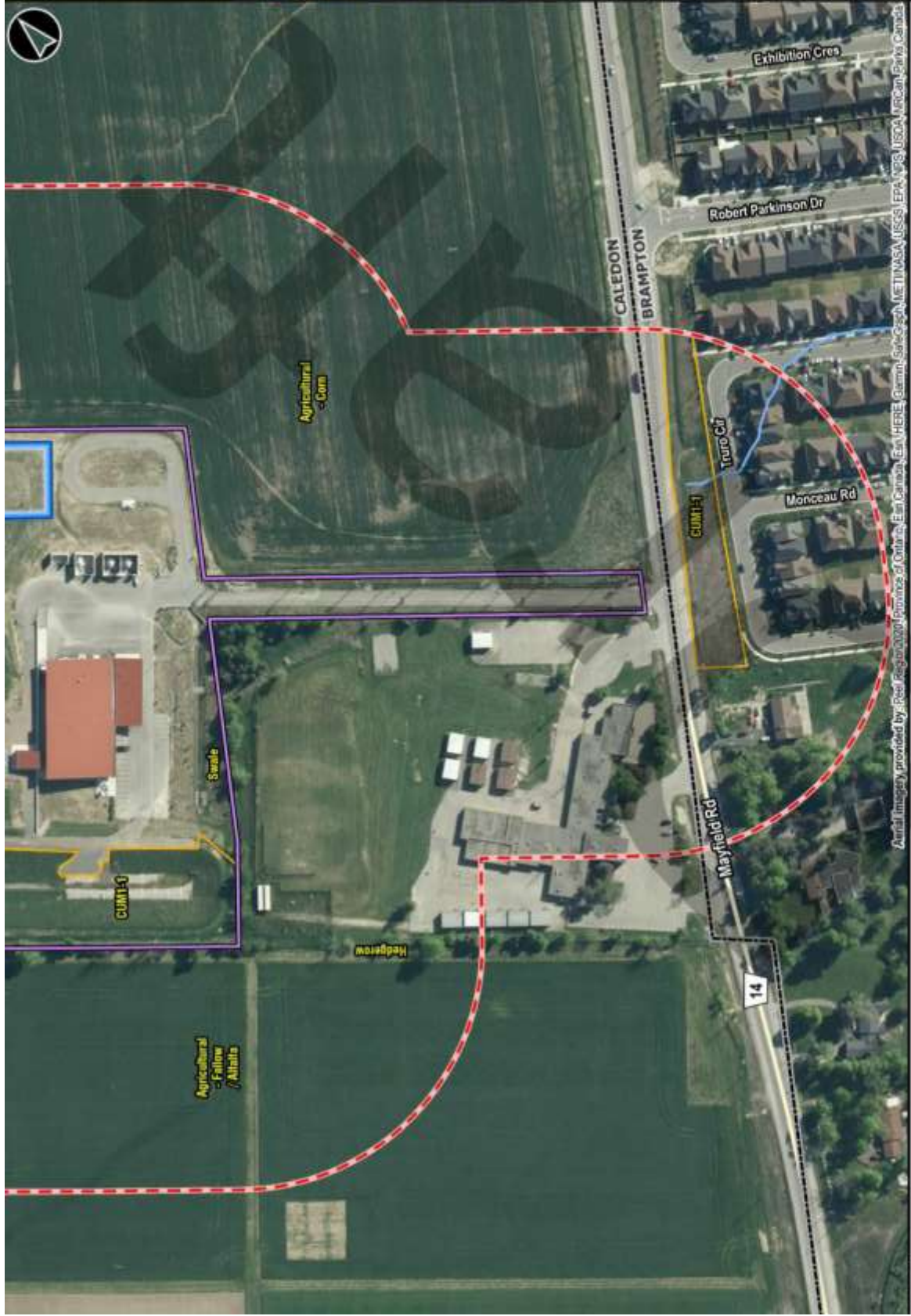
Feb, 2022	1:2,000	Date Stamped
P-85846794	Rev:00	Rev:00

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Figure 2-11

Aerial imagery provided by: Geel Regional Municipality, Province of Ontario, Esri, Canolux, Esri, HERE, Garmin, GeoGraphia, IGN, NAVTEQ, USGS, EPA, NPS, USDA, NRCAN, Parks Canada

ELC Code Description
CUMT-1: Mineral Cultural Dry-Moist Old Field Meadow Type
CUMT: Mineral Cultural Woodland Type



Legend

- Study Area (120 m)
- Potential Snow Storage Area
- Potential Snow Storage Property Boundary
- Municipal Boundary
- District, County, or Regional Road
- Watercourse
- ELC Community Code
- Vegetation Community

Snow Storage Site Analysis and Conceptual Design Project 13-4007

Vegetation Communities - Site:9
Altona Reservoir and Pumping Station



Data Source:	
Feb, 2022	1:2,000
P.00046784	Rev.00



Figure 2-12

ELC Code Description
CUM1-1: Mineral Cultural Dry-Moist Old Field Meadow Type

Aerial imagery provided by Real-Brain.com, Parovox of Ontario, E.L. Cannon, Env. HERE, Garmin, Geo-Cop, METI/NASA/USGS, EPA, NGS, USGS, USDA, USGS, Parks, Canada

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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Monday, April 29, 2024 11:27 AM
To: Rae Lumsdon; Aaron Detlor
Cc: jabouchar; Godley, Rachel; Rook, Sally; Mahmood, Tareq
Subject: RE: HDI-Environmental Treaty Rights Reports - Peel Responses to HDI Comments - Transportation Projects - Stream 1 - Stormwater Servicing Master Plan

Hi Ms. Lumsdon,

Thanks for reaching out to me. Our technical teams will be pleased to meet with you in person or online (via MS Teams App) as per your convenience. Before giving you our preferred times, I would like to clarify if we will be meeting for all 3 projects at the same time or your intent is to discuss Stormwater Servicing Master Plan first. It will help me optimize the availability of the required technical teams. However, I had a quick look at our calendars and so far, afternoons of May 15th and 16th and all day of May 17th seems to be open at this time. Please, let me know.

If you have any comments or questions, please do not hesitate to ask.

Regards,
Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
Transportation Division, Public Works
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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: Rae Lumsdon <rae@lumsdon.ca>
Sent: Friday, April 26, 2024 12:37 PM
To: Aaron Detlor <aaron@detlorlaw.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: jabouchar <jabouchar@willmsshier.com>; Godley, Rachel <rachel.godley@peelregion.ca>
Subject: Re: HDI-Environmental Treaty Rights Reports - Peel Responses to HDI Comments - Transportation Projects - Stream 1 - Stormwater Servicing Master Plan

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Good afternoon Syeda,

Thank you for your email.

Can you please provide me with some times that work for you and your team to connect in-person? I will circulate an invite.

Thanks so much in advance.

Rae Lumsdon
416.839.5307
rae@lumsdon.ca

From: Aaron Detlor <aaron@detlorlaw.com>
Sent: Friday, April 26, 2024 12:00 PM
To: Syeda Banuri <syeda.banuri@peelregion.ca>
Cc: Aaron Detlor <aaron@detlorlaw.com>; Juli Abouchar <jabouchar@willmsshier.com>; Rachel Godley <rachel.godley@peelregion.ca>; Rae Lumsdon <rae@lumsdon.ca>
Subject: Re: HDI-Environmental Treaty Rights Reports - Peel Responses to HDI Comments - Transportation Projects - Stream 1 - Stormwater Servicing Master Plan

Good Morning

I have asked Ms. Lumsdon to set up a meeting to review and discuss your response.

Regards,

Aaron Detlor

On Apr 18, 2024, at 2:06 PM, Banuri, Syeda <syeda.banuri@peelregion.ca> wrote:

Hi Aaron,

Further to my email below, I would also like to provide Peel's response to Stormwater Servicing Master Plan for Regional Roads - *HDI's Environmental Treaty Rights Assessment* dated August 30, 2023 (received by Peel in January 2024). It is attached to this email and have been uploaded to the drop box site for your convenience.

Please, do not hesitate to contact me if you have any questions/comments or would like to discuss further.

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

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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: Tuesday, April 16, 2024 3:59 PM
To: Aaron Detlor <aaron@detlorlaw.com>
Cc: josh@detlorlaw.com; Jake Linklater <jake@detlorlaw.com>; Julie Abouchar <jabouchar@willmsshier.com>; Godley, Rachel <Rachel.Godley@peelregion.ca>; Mahmood, Tareq <Tareq.Mahmood@peelregion.ca>
Subject: HDI-Environmental Treaty Rights Reports - Peel Responses to HDI Comments - Transportation Projects - Stream 1

Hi Aaron,

Hope you're doing well.

We had an opportunity to meet with your team in February this year to discuss technical comments provided by HDI for Peel's Transportation EAs. We appreciate your thorough review of our projects' documentation. We acknowledge your concerns, including water quality, aquatic and terrestrial habitats, SAR species, interconnected ecosystem and the associated implications for the Haudenosaunee Treaty Rights for these sites and agree with our continuous engagement. In general, Peel proposes to collaborate with HDI to receive valuable input which can be facilitated through regular Peel/HDI meetings or project specific meetings, as required, or as agreed upon between the two parties.

Our projects' teams have carefully reviewed HDI's comments received last year for the following two projects and prepared the responses. I have uploaded the detailed response files on drop box to which you have access and have also attached the files to this email for your convenience.

1. Winston Churchill Blvd Schedule C Class EA Study
2. Snow Storage Sites Analysis EA and Conceptual Design

Please, note that the responses provided here pertain to HDI comments received last year listed as "Environmental Treaty Rights Reports". We also received subsequent comments from HDI in February 2024 listed as "Mitigation Engagement Strategy Plan" to which responses are being prepared and will be provided later.

Our intent is to issue the Notice of Completion for these two projects to the public before summer this year. The report will be open to receiving comments from the public for 30 days and even after this, we will still be able to address any concerns and work on mitigation measures together.

If you have any comments/questions or require further information, please do not hesitate to reach out.

Kind 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

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From: Josh Detlor <josh@detlorlaw.com>
Sent: Monday, March 18, 2024 7:23 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: Re: HDI-Peel Transportation Technical Meeting #1

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

Greetings Syeda,

I had taken a leave of absence from my position starting on February 26th due to escalating personal health concerns. My apologies for any inconvenience this may have caused.

Regards,
Joshua Detlor.

Sent from my iPhone Pro On Mar 18, 2024, at 3:25 PM, Banuri, Syeda
<syeda.banuri@peelregion.ca> wrote:

Hi Josh,
Hope you are doing well. We are drafting up the responses to your Mitigation Engagement Strategy Plan and I would like to follow up on the Snow Storage "draft Project File Report and Appendices" which I had saved under a new folder namely "Snow Storage Analysis – Updated Documents – 2024-02-22". Would you be providing new comments for the rest of the Snow Storage Sites so that we can provide one response for all sites and the "draft Project File Report and Appendices"? Please, advise.

Another couple of items were a) the detailed tree plantings and vegetation plan that you were to share with us and b) the monitoring agreement which Jake had to send. Can you please, forward them to me or upload on the drop box?

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

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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: Friday, February 23, 2024 10:43 AM
To: Aaron Detlor <aaron@detlorlaw.com>; josh@detlorlaw.com
Cc: Rook, Sally <Sally.Rook@peelregion.ca>; jabouchar <jabouchar@willmsshier.com>;
Godley, Rachel <Rachel.Godley@peelregion.ca>; Brian Doolittle <ganowa@me.com>;
jake <jake@detlorlaw.com>; adamzachariah@detlorlaw.com
Subject: RE: HDI-Peel Transportation Technical Meeting #1

Good Morning,

I hope all is well at your end. First, I would like to thank Josh again for coming to our office to meet with us; taking the time to review our projects' information and providing comments. As a follow up, I would like to provide a quick update on the following two items:

Snow Storage Sites Analysis EA and Pre-Design

As, mentioned at our meeting, the information is updated since your last review. I have now uploaded to the dropbox the updated reports including "draft Project File Report and Appendices" under a new folder namely "Snow Storage Analysis – Updated Documents – 2024-02-22".

2051 Transportation Master Plan

Peel Region is undertaking a 2051 Transportation Master Plan (TMP) that will bring together individual Transportation Division component strategies under one integrated plan. The TMP will identify a transportation solution to accommodate future growth to 2051 and advance Peel's key priorities including road safety, goods movement, and

sustainable transportation that will guide investment in transportation infrastructure and programming.

This study is being conducted in accordance with the Municipal Class Environmental Assessment process for Master Plans under the Environmental Assessment Act. The 2051 TMP study will satisfy Phase 1 (Identify Problem and Opportunity) and Phase 2 (Identify and Evaluate Alternative Solutions) of the process. The final deliverable will be a document that will guide actions, policies, and transportation investment in the Region of Peel over the next 30 years.

It should also be noted that Peel's Regional Planning & Growth Management team is developing a High Growth Scenario that accounts for expedited housing targets with a horizon year of 2031 set out by Bill 23. These population and employment projections will help inform the recommendations of road improvement projects for the TMP.

The date for our first Public Information Centre is still to be determined based on the endorsement of the High Growth Scenario by Regional Council. Once approved, consultation can then occur. Materials will not be able to be shared until the commencement of this milestone and in terms of document review, it is recommended that only the full TMP draft document would need to be reviewed. After receiving feedback and once finalized, the TMP is expected to be taken to Regional Council for endorsement in Spring 2025 and adoption would then follow in Summer 2025. Please note that these timelines are subject to change and are dependent on any new direction coming from the Peel Region Transition Board or other provincial legislation.

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

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

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From: Aaron Detlor <aaron@detlorlaw.com>
Sent: Monday, February 19, 2024 8:31 AM

To: josh@detlorlaw.com
Cc: Aaron Detlor <aaron@detlorlaw.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>; Rook, Sally <sally.rook@peelregion.ca>; Mahmood, Tareq <tareq.mahmood@peelregion.ca>; jabouchar <jabouchar@willmsshier.com>; Godley, Rachel <rachel.godley@peelregion.ca>; Brian Doolittle <ganowa@me.com>; jake <jake@detlorlaw.com>; adamzachariah@detlorlaw.com
Subject: Re: HDI-Peel Transportation Technical Meeting #1

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Good Morning All

I recall that we were to receive a project overview or documents with respect to a Transportation Master Plan. Has this come through yet.

Thanks

Aaron

<https://www.peelregion.ca/transportation/projects/2051-transportation-master-plan.asp#:~:text=A%20plan%20that%20will%20outline,traffic%20during%20peak%20period%20times>.

1. [2051 Transportation Master Plan](#)
2. [Long range transportation plan](#)
3. [Stormwater servicing master plan for Regional roads](#)
4. [Long Combination Vehicle Program in Peel](#)
5. [Peel Road Characters](#)
6. [Streetscaping toolbox](#)
7. [Transportation data, analytics, and modelling](#)
8. [Highway 427 extension](#)
9. [Bolton Transportation Master Plan \(Town of Caledon\)](#)
10. [Highway 413 Project \(MTO\)](#)
11. [Environmental assessments](#)

Brampton

1. [Highway 50 – Queen Street East to The Gore Road – Complete Corridor Study](#)
2. [Lakelands Wastewater Pumping Station new offline storage facility](#)
3. [Finch Stormwater Pumping Station upgrades](#)
4. [Notice of study commencement and online public engagement - McVean Sanitary Pumping Station upgrades](#)

5. [Etobicoke Creek Trunk sewer improvements and upgrades](#)
6. [Arterial Roads within Highway 427 industrial secondary plan area \(Area 47\) Part A](#)
7. [Winston Churchill Boulevard – from Highway 401 to Embleton Road](#)

Caledon

1. [Master Plan for Peel’s Groundwater-based Drinking Water Systems](#)
2. [Queen Street \(Hwy 50\) Corridor Study](#)
3. [Notice of Study Commencement - Watermain Replacement on Highway 50 to Hardwick Road](#)
4. [Bolton water and wastewater capacity improvements](#)
5. [Notice of Study completion - Supply capacity increase for Palgrave Well 4](#)
6. [Notice of Public Information Centre - West Caledon storage facility and transmission main](#)
7. [New supplementary water supply source for the Palgrave – Caledon East drinking water system](#)
8. [Inglewood wastewater treatment plant upgrades and new access route](#)
9. [Coleraine Drive – south of Old Ellwood Drive at CP Rail line for grade separation](#)

Mississauga

1. [Notice of Study Commencement – Diversion Sanitary Sewer on Kirwin Avenue](#)
2. [Dixie Road – Rometown Drive to Lakeshore Road - Complete Corridor Study](#)
3. [Notice of Study Commencement – Royal Windsor wastewater sewer diversion](#)
4. [Low Impact Development \(LID\) Facilities – Erin Mills Parkway South of Highway 403](#)
5. [Arthur P. Kennedy Water Treatment Plant Reservoir Expansion](#)
6. [Notice of Commencement – Beach Street Sewage Pumping Station Diversion](#)
7. [Port Credit East Wastewater Servicing Optimization Strategy Class Environmental Assessment](#)
8. [Derry Road East and Alstep Drive Road Improvements](#)
9. [Clarkson Wastewater Treatment Plant](#)
10. [G.E. Booth Wastewater Treatment Plant](#)
11. [Lornewood Creek sanitary sewer improvement](#)

12. [Heritage Road – watermain construction, Brampton and Mississauga](#)

Regional-wide

1. [2025 Water and Wastewater Master Plan for the lake-based system](#)
 2. [Stormwater Servicing Master Plan for Regional Roads](#)
 3. [Municipal Class Environmental Assessment \(MCEA\) study for Snow Storage Sites](#)
-

On Feb 14, 2024, at 4:10 PM, Josh Detlor <josh@detlorlaw.com> wrote:

Greetings Everyone,

I hope this finds you well. I would like to start on a personal note by thanking all present for their role today in advancing reconciliation. I can confirm that we had discussed mitigation for the Snow Storage Sites Analysis, Stormwater Master Plan, as well as the Winston Churchill Blvd Project.

The presence of Haudenosaunee Treaty Rights monitors were mutually deemed necessary. There were a few questions from the Region regarding the specifics of the Monitoring program. To that end, Mr. Linklater will forward the relevant monitoring documentation. The Region of Peel has also committed to providing HDI with the requested digital information system, including project land area (e.g. in acres) and water extraction (e.g. in L/s). The cumulative mitigation measures, while agreeable in concept, will need to be the subject of future discussion between HDI and Regional stakeholders with the authority to execute this element of mitigation (e.g. at the upcoming February 21st, 2024 meeting). Technical mitigation priority areas were broadly agreeable and will be forwarded to the appropriate stakeholders as appropriate (e.g. to the detailed design team). The Region also expressed interest in receiving a long-form Native Vegetation Guide from HDI.

The approximate lifespans for the projects discussed today are as follows:

1. Snow Storage Sites Analysis: Will likely exist in its current state until the 2041 Planning Horizon. It was suggested that its operational lifespan will be a minimum of 10 years, so as to justify the Region's investment
2. Stormwater Master Plan: Will need to be determined per project as these projects move from 'opportunities' to tangible action
3. Winston Churchill Blvd Project: Indefinite but will likely exist in its current state (e.g. no new lanes) until the 2041 Planning Horizon

Any changes to or new information regarding these tentative timelines will be shared by the Region with HDI.

The following transportation projects were tentatively agreed to be the next to enter the Haudenosaunee Environmental Services (ES) process:

1. Dixie road complete corridor study

2. Highway 50 complete corridor study
3. Highway 50 to Queen Street (Queensgate Blvd to Columbia Way)
4. Erin Mills Parkway

The Region is in possession of documentation for the *Highway 50 to Queen Street (Queensgate Blvd to Columbia Way)* project, which will be uploaded to the shared DropBox for review. From there Mr. Joshua Detlor will examine the documentation and share an approximate timeline for the Haudenosaunee ES process as it relates to that project. Documentation for the other three projects will be shared with HDI as they are made available to the Region, and will follow a similar process as was described for the *Highway 50 to Queen Street (Queensgate Blvd to Columbia Way)* project.

The timeline for future meetings between HDI and the Region of Peel's transportation team was discussed at this meeting. We tentatively agreed that quarterly meetings made the most sense. The precise date(s) for these quarterly meetings will be the subject of future discussion (e.g. at the upcoming February 21st, 2024 meeting).

This encapsulates the core points of our valuable meeting from my recollection. All readers are welcome to provide additional context or clarification.

With Gratitude,
Joshua Detlor.

On Feb 1, 2024, at 3:08 PM, Banuri, Syeda
<syeda.banuri@peelregion.ca> wrote:

Hi Josh,

A calendar meeting request was sent by our Admin Secretary Kelly on Jan 8, 2024 to be held at the Region of Peel's 10 Peel Centre Drive Brampton office. Please, see the details below. Please, let me know if you would like me to come downstairs to receive you. This is the same room we were in last time, beside the council chambers.

Subject: HDI-Peel Transportation Technical Meeting #1
When: February 14, 2024 1:00 PM-3:00 PM (UTC-05:00)
Eastern Time (US & Canada).
Where: 10 Peel, Suite A, 5th floor Boardroom

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

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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.

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

From: Maraj, Kelly

<ashwantiemelly.maraj@peelregion.ca>

Sent: January 8, 2024 3:20 PM

To: Maraj, Kelly; Maraj,

Kelly; jake@detlorlaw.com; adamzachariah@detlorlaw.com; josh@detlorlaw.com; aaron@detlorlaw.com;

Rook, Sally; Banuri, Syeda; Mahmood, Tareq

Cc: jabouchar@willmsshier.com; Godley, Rachel

Subject: HDI-Peel Transportation Technical Meeting #1

When: February 14, 2024 1:00 PM-3:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: 10 Peel, Suite A, 5th floor Boardroom

Hello

The purpose of the meeting is to discuss and resolve/propose mitigation of HDI's comments(reports) for the three transportation projects.

Thank you

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
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<Peel Stormwater Servicing Plan - August 30-2023-HDI -Environmental Treaty Rights Comments- Peel Response -April 18-2024.pdf>

HDI - Environmental Treaty Rights Assessment - Response Matrix

Project Name: Snow Storage Sites Analysis and Conceptual Design

Project Number: 13-4007

Date of HDI comments: November 13, 2023

Date of Peel Region response: April 16, 2024

Page	HDI Comments (November 13, 2023)	Responses (April 16-2024)
Executive Summary		
Pg. 3-4	<p>This executive summary encapsulates the critical findings of the "Snow Storage Sites Analysis Treaty Rights Assessment," prepared for the Haudenosaunee Development Institute (HDI), concerning the Region of Peel's Snow Storage Sites Analysis and Conceptual Design project. The assessment focuses on the implications for Haudenosaunee Treaty Rights across five proposed snow storage sites: Site 1 (Highway No. 50 Car Pool Lot), Site 3 (West Brampton Reservoir and Pumping), Site 5 (Johnston Sports Park), Site 6 (Tullamore Reservoir), and Site 9 (Alloa Reservoir and Pumping Station).</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot</u></p> <ul style="list-style-type: none"> ■ The site lacks Designated Natural Areas, indicating minimal direct environmental impact. However, snowmelt runoff could affect downstream aquatic ecosystems connected to Treaty lands. ■ The presence of a permanent watercourse outside the property boundary poses a risk of contaminated runoff impacting fish populations. ■ No Species at Risk (SAR) stated, but potential impacts on undiscovered SAR habitats are a concern. ■ Site 1 appears to pose the lowest potential risk to environmental Treaty rights of the sites under consideration <p><u>Site 3 - West Brampton Reservoir and Pumping</u></p> <ul style="list-style-type: none"> ■ Proximity to Huttonville Creek & Area Wetland Complex PSW and Region of Peel's Core Area Woodlands could lead to watercourse contamination and indirect woodland impacts. ■ Contains an intermittent watercourse that may provide seasonal fish habitat. ■ Potential habitat for Bobolink and Eastern Meadowlark, both SAR species. Snowmelt could disrupt their habitats and reduce reproductive success. <p><u>Site 5 - Johnston Sports Park</u></p> <ul style="list-style-type: none"> ■ Within 500 m of Region of Peel Core Area and NAC Woodland, suggesting risk to ecologically significant areas. ■ Contains a permanent watercourse, indicating direct fish habitat and potential impacts on Redside Dace, a SAR species. ■ Confirmed Monarch habitat and presence of Muskrat lodge, both integral to the local ecosystem and Haudenosaunee culture. <p><u>Site 6 - Tullamore Reservoir</u></p>	<p>Thank you for summarizing the highlights of your assessment. We acknowledge your concerns, including water quality, aquatic habitats, SAR species, and interconnected ecosystem and the associated implications for the Haudenosaunee Treaty Rights for these sites. Further below we have included our responses to your critical findings for discussion.</p> <p>Since we have shared the draft documents, there have been two key updates to the Project that will mitigate potential impacts as shown in the figures at the end of this document:</p> <ul style="list-style-type: none"> ■ The potential snow storage area within Site 5 (Johnston Sports Park) has been moved from the agricultural soy field and manicured lawn to the parking lot area within the park. As such, our site analysis of impacts has been re examined and these are reflected in our Site 5 analysis responses. ■ A new Site 10 has been added as another potential snow storage site in our preferred solution. Site 10 is located at 7120 Hurontario Street in Mississauga and is owned by the Region. This site has a surplus parking area and is already currently being used as a temporary snow storage area. The information pertaining to Site 10 will be included in our updated reports that will be shared with HDI. <p>We also wanted to highlight two additional components of the project that will assist to mitigate environmental impacts of the snow storage facilities. First, as described in the Stormwater Management Report, each site will have a bioswale system with filter media that captures the runoff leaving the melt pad, reduces the peak flow and provides water quality treatment. By capturing and slowing down the flow of water leaving the site, bioswales help to reduce erosion in downstream watercourses and help to retain sediment and associated contaminants. Second, another recently developed component is the snow storage facility monitoring plan; the Region will be implementing a monitoring plan that will help to assess the proper functioning of the bioswales over time. The monitoring plan proposes monitoring bioswale water levels, electrical conductivity (indicator of salt presence) and soil chemistry over time. This type of monitoring will provide the information required so that the bioswales can be properly maintained and adaptively managed (adjustments made over time) to mitigate environmental impacts of the snow storage facilities and enhance environmental outcomes.</p> <p>Our proposed monitoring plan and approach to stormwater management, in combination with the mitigation measures for snow melt during operations outlined in Section 5 of the Natural Environment Report and summarized below are intended to minimize environmental impacts to the extent possible during construction and operation. Further site specific mitigation measures will be developed during detailed design, including:</p> <ul style="list-style-type: none"> ■ Follow the Guidelines on Snow Disposal and De-icing Operations in Ontario (MECP, 2011). ■ Locate Snow Storage facility away from environmentally sensitive areas to reduce impacts from melting the contaminated snow. ■ Direct disposal of snow or melt water runoff to watercourses should not be directly deposited into watercourses.

Page	HDI Comments (November 13, 2023)	Responses (April 16-2024)
	<ul style="list-style-type: none"> ■ Near Region of Peel NAC woodland; increased flow rates may lead to ecological disturbance affecting SAR species. ■ A permanent watercourse inside the property boundary, serving as a direct fish habitat, could be impacted by runoff, affecting Redside Dace habitats. ■ Lack of significant wildlife habitats mentioned, but potential impacts on unidentified SAR species and habitats are a concern. <p><u>Site 9 - Alloo Reservoir and Pumping Station</u></p> <ul style="list-style-type: none"> ■ Close to Region of Peel Core Area Woodland, indicating potential indirect impacts on SAR habitats. ■ Contains a permanent watercourse outside the property boundary, serving as a direct fish habitat. ■ No stated SAR, but potential impacts on unidentified SAR species and habitats cannot be discounted. <p>In conclusion, the assessment highlights several environmental concerns across the proposed sites, particularly relating to water quality, aquatic habitats, SAR species, and interconnected ecosystems. These factors have significant implications for the Haudenosaunee Treaty Rights, necessitating the presence of Haudenosaunee Treaty rights monitors to oversee project adherence to treaty obligations and to monitor potential impacts on natural resources and ecosystems vital to the Haudenosaunee.</p>	<ul style="list-style-type: none"> ■ Treat the melt water in compliance with water quality regulations to protect the surface and ground water resources. Where Redside Dace habitat has been identified within the property or downstream, melt water must meet the water quality requirements listed in the Guidance for Development Activities in Redside Dace Protected Habitat (MNR, 2016) document. ■ Locate as close as possible to serviced areas to minimize operational costs and green-house gas emissions from moving the snow. <p>With regards to concerns regarding snowmelt runoff, research cited by the Transportation Association of Canada found much of the salt that is applied to pavement is not retained in the snow that is removed to snow disposal facilities. This is because chlorides tend to leave stockpiled snow soon after it is plowed. Only a small percentage of the salt that is applied to a road may be reaching the snow disposal facility.</p> <p>The following is our response to HDI's critical findings and recommendations for commitments to HDI to be undertaken during subsequent phases of the Project.</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot</u></p> <ul style="list-style-type: none"> ■ The snow melt will run through bioswales with filter media that will help to remove some contaminants. This in combination with the other environmental mitigation measures will help decrease the risk of runoff impacting fish populations at the watercourse outside of the property boundary. ■ Given our proposed approach to snow melt run off, in combination with the mitigation measures in Section 5 in the Natural Environment Report, we do not anticipate that polluted runoff from snow storage will negatively affect downstream aquatic ecosystems, fish or fish habitat. We also note that the mitigation measures are general in nature as to apply to all sites. The site specific mitigation measures will be developed during detailed design based. ■ Site 1 is located within a disturbed cultural meadow (CUM1-1) surrounded by agricultural fields and urban developments and is unlikely to support Species at Risk species, therefore no potential impacts to Species at Risk or their habitat are anticipated. In the event a Species at Risk is discovered during the construction, a Qualified Ecologist and then Ministry of Environment Conservation and Parks will be contacted. ■ We concur and acknowledge that Site 1 has a low potential risk to environmental Treaty rights. ■ We concur with the attendance of Haudenosaunee Treaty rights monitors for Site 1 to monitor implementation of the mitigation measures related to potential impacts to Monarchs. This includes that temporarily disturbed areas will be re-vegetated using non-invasive, preferably native plantings and/ or seed mix appropriate to the site conditions and adjacent vegetation communities. Seed mixes should contain flowering herbaceous plants to support foraging habitat to pollinators, as well as Common Milkweed for Monarchs, wherever feasible. <p><u>Site 3 - West Brampton Reservoir and Pumping</u></p> <ul style="list-style-type: none"> ■ Direct impacts to the Huttonville Creek & Area Wetland Complex PSW and Region of Peel Core Area Woodland are not anticipated as no vegetation removal is anticipated outside of the proposed Snow Storage Area based on the current conceptual design. Sediment and Erosion control measures will be implemented to help prevent sediment from entering the PSW and Region of Peel Core Area Woodland. Indirect impacts to Huttonville Creek & Area Wetland Complex PSW and Region of Peel Core Area Woodland from meltwater are also not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the Snow Storage Area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Mitigation measures will also be discussed in further detail during detailed design. ■ We acknowledge and are in agreement that Site 3 contains an intermittent watercourse that may provide seasonal fish habitat. The snow melt will run through bioswales with filter media that will help to remove some

Page	HDI Comments (November 13, 2023)	Responses (April 16-2024)
		<p>contaminants. We will also be implementing the mitigation measures from Section 5 of the Natural Environment Report with site specific details developed during detailed design.</p> <ul style="list-style-type: none"> ■ The potential habitat for Bobolink and Eastern Meadowlark is located outside of the proposed Snow Storage Area; therefore, direct loss of habitat directly affecting reproductive success is not anticipated as no vegetation removal is proposed outside of the proposed Snow Storage Area. Indirect impacts from snowmelt are also not anticipated to result in adverse effects through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. There are no impacts on the potential Bobolink and Eastern Meadowlark habitat anticipated provided that the mitigation described in Section 5 of the Natural Environment Report are implemented. Mitigation regarding snow melt will also be discussed in further detail during detailed design. ■ We concur with the attendance of Haudenosaunee Treaty rights monitors to monitor implementation of the mitigation measures related to potential impacts on Monarch, SAR and PSW for Site 3. ■ Potential Species at Risk presence/absence surveys following MECP approved protocols and guidelines are noted as potentially being required during detailed design in the Natural Environment Report. HDI will be invited to participate in these surveys, if the surveys are determined to be required during detailed design. At this time we note that the potential habitat for Bobolink and Eastern Meadowlark are located outside of the proposed snow storage area within the property. <p><u>Site 5 - Johnston Sports Park</u></p> <ul style="list-style-type: none"> ■ We note that the proposed snow storage location has been shifted to the parking lot. Direct impacts to Region of Peel Core Area and NAC Woodland are not anticipated as no vegetation removal is anticipated outside of the proposed Snow Storage Area and Sediment and Erosion control measures will be implemented to prevent sediment entering the Core Area and NAC Woodland. Indirect impacts to Region of Peel Core Area and NAC Woodland from meltwater are also not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Mitigation measures will also be discussed in further detail during detailed design. ■ Given that snow melt will run through bioswales with filter media that will help to remove some contaminants in combination with the mitigation measures recommended in Section 5 of the Natural Environment Report, particularly regarding snow melt during operations, runoff from snow storage is being minimized to avoid negatively affecting the downstream Redside Dace habitat. Where Redside Dace habitat has been identified within the property or downstream, melt water must meet the water quality requirements listed in the Guidance for Development Activities in Redside Dace Protected Habitat (MNR, 2016) document. This is noted in our mitigation measures. We also note there is also no in-water work proposed where habitat for Redside Dace has been identified. ■ The Muskrat lodge will not be impacted as it occurs in the stormwater management pond located outside of the proposed Snow Storage Area. Monarch habitat will not be impacted as the proposed Snow Storage Area has since been shifted and occurs outside of meadow vegetation communities in the parking lot. No vegetation removal is anticipated outside of the proposed Snow Storage Area. Sediment and Erosion control measures will be implemented to prevent sediment entering the stormwater management pond as well as Monarch habitat. Indirect impacts from meltwater are also not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as

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		<p>treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Mitigation measures will also be discussed in further detail during detailed design. No vegetation removal is anticipated outside of the proposed Snow Storage Area.</p> <ul style="list-style-type: none"> ■ We concur with the attendance of Haudenosaunee Treaty rights monitors to monitor implementation of the mitigation measures related to potential impacts on potential Redside Dace habitat for Site 5. ■ We also note that the proposed snow storage area for Site 5 has since been moved from the agricultural field to the parking lot, which does not provide habitat for Monarch. <p><u>Site 6 - Tullamore Reservoir</u></p> <ul style="list-style-type: none"> ■ Direct impacts to Region of Peel NAC Woodland and Species at Risk (SAR) habitat are not anticipated as no vegetation removal is anticipated outside of the proposed Snow Storage Area. Sediment and Erosion control measures will be implemented to prevent sediment entering the NAC Woodland and SAR habitat. Indirect impacts to Region of Peel NAC Woodland and SAR habitat from meltwater are also not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Mitigation measures will also be discussed in further detail during detailed design. ■ Given that snow melt will run through bioswales with filter media that will help to remove some contaminants in combination with the mitigation measures recommended in Section 5 of the Natural Environment Report, particularly regarding snow melt during operations, runoff from snow storage is being minimized to avoid negatively affecting the noted Redside Dace habitat. Where Redside Dace habitat has been identified within the property or downstream, melt water must meet the water quality requirements listed in the Guidance for Development Activities in Redside Dace Protected Habitat (MNRF, 2016) document. This is noted in our mitigation measures. Further, a meander belt analysis has been recommended for Salt Creek to confirm the boundaries of this regulated Redside Dace habitat. ■ Site 6 is located entirely within mowed lawn that is at least 120 m away from more sensitive features in the southern half of the site property. This site is unlikely to support SAR species therefore no potential impacts to SAR or their habitat are anticipated. In the event a Species at Risk is discovered during the construction, a Qualified Ecologist and then Ministry of Environment Conservation and Parks will be contacted. ■ We concur with the attendance of Haudenosaunee Treaty rights monitors to monitor implementation of the mitigation measures related to potential impacts on the core woodlands and NAC, including SAR for Site 6. HDI will also be invited to participate in the recommended meander belt analysis for Site 6. <p><u>Site 9 - Alloa Reservoir and Pumping Station</u></p> <ul style="list-style-type: none"> ■ Indirect impacts to Region of Peel Core Area Woodland and SAR habitat from meltwater are also not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. Sediment and Erosion control measures will be implemented to prevent sediment entering the Core Area Woodland and SAR habitat. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Mitigation measures will also be discussed in further detail during detailed design. ■ We acknowledge the site contains a permanent watercourse outside of the property boundary, serving as direct fish habitat. The snow melt will run through bioswales with filter media that will help to remove some contaminants. We will also be implementing the mitigation measures from Section 5 of the Natural Environment Report with site specific details developed during detailed design. ■ The potential snow storage area for Site 9 is located within manicured lawn. This site is unlikely to support SAR species therefore no potential impacts to SAR or their habitat are anticipated. In the event a Species at

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		<p>Risk is discovered during construction, a Qualified Ecologist and then Ministry of Environment Conservation and Parks will be contacted.</p> <ul style="list-style-type: none"> ■ We concur with the attendance of Haudenosaunee Treaty rights monitors to monitor implementation of the mitigation measures related to potential impacts on SAR for Site 9. HDI will also be invited to participate in the recommended fluvial geomorphological assessment for Site 9.
Background		
<p>Pg. 5-6</p>	<p>As part of a Schedule 'B' Municipal Class Environmental Assessment (MCEA) and preliminary design, AECOM Canada Ltd. was retained by the Region of Peel to complete required investigations of identified sites considered as potential near and long-term snow storage solutions for the Region of Peel. The sites being investigated will serve as the destination for accumulated snow from bridges and overpasses, intersections with sightline issues, and roadway areas with narrow boulevards/space restrictions, and Regional facilities. As part of this work, a fluvial geomorphological investigation was completed to assess the existing conditions of the potential sites in order to complete a meander belt assessment and an erosion threshold assessment, where permissible, considering the potential impacts of the snow melt.</p> <p>A total of nine (9) sites were originally included as potential snow storage sites but four (4) were excluded in the initial phase of this study due to conflicting uses, expansion plans or perceived contamination. Out of the five (5) proposed storage sites, four (4) (Sites 3, 5, 6, and 9) have been identified as having watercourses within or adjacent to the properties, which will be the primary focus of the fluvial geomorphic assessment.</p> <ul style="list-style-type: none"> ■ Site 1 – Highway 50 Carpool Lot: Southwest corner of intersection of Highway 50 and Mayfield Road. ■ Site 3 – West Brampton Reservoir: West of Mississauga Road, south of Bovaird Drive West. ■ Site 5 – Johnston Sports Park: Northwest of the intersection of Centreville Creek Road and King Street. ■ Site 6 – Tullamore Reservoir and Pumping Station: Northwest of the intersection of Innis Lake Road and Mayfield Road. ■ Site 9 – Alloa Reservoir: West of the intersection of Creditview Road and Mayfield Road. <p>The objective of the fluvial geomorphic assessment is to characterize fluvial geomorphological processes within the study sites and to define management recommendations that will maintain the current channel processes and limit adverse impacts to channel morphology. At Site 1 - Highway 50 Carpool Lot, historical aerial imagery showed no visible watercourse within the proposed snow storage site and fieldwork confirmed this. Fluvial geomorphological reach characterization was completed at four locations proposed for snow storage. Further assessment occurred at two sites (Site 5 – Johnston Sports Park and Site 6 - Tullamore Reservoir), including Rapid Geomorphic Assessments, quantitative geomorphological data collection, calculation of an erosion threshold, and calculation of the meander belt. The remaining two sites were not further assessed due to watercourse being located on private property. For Site 3 – West Brampton Reservoir a site visit was conducted at Bovaird Drive where the channel was only slightly defined and approximately 1 m wide. At Site 9 – Alloa Reservoir a site visit was conducted at Mississauga Road and Creditview Road where the channel is defined and approximately</p>	<p>Our Project team acknowledges this background information. In addition, we have also completed fluvial geomorphological investigations related to 7120 Hurontario Street (Site 10) as there is a watercourse (Fletcher Creek) adjacent to this study area. Fletcher Creek flows south and drains into the Credit River east of Creditview Road, south of Highway 401.</p> <p>Based on the results of the site visit and the Rapid Geomorphic Assessment (RGA), the investigated reach was found to be “In Regime”, with no significant evidence of instability. It is recommended that care is taken to maintain vegetation cover along and within the watercourses in order to maintain the existing channel stability. To prevent, eliminate or minimize the risks to life and property caused by erosion hazards, it has been further recommended to maintain the meander belt boundary.</p> <p>The detailed findings for this site will be shared in the updated Environmental Assessment documentation.</p>

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	<p>4 m wide.</p> <p>As part of the fluvial assessment, a Rapid Geomorphic Assessment (RGA), an erosion threshold assessment and a meander belt width delineation were completed on Site 5 – Johnston Sports Park and Site 6 – Tullamore Reservoir and Pumping Station.</p> <p>The RGA completed at Site 5 – Johnston Sports Park found that the channel is in a “Transitional or Stressed” condition with aggradation and planimetric form adjustment as the main geomorphological processes taking place. In addition, the erosion threshold assessment calculated the critical discharge value required for bed material entrainment was on average 0.15 m³/s. Lastly, the meander belt width was determined using the empirical approach due to historical alterations of the channel and calculated at 33.5m</p> <p>The RGA Assessment completed at Site 6 – Tullamore Reservoir identify the channel to be in “Regime” with widening and planimetric form adjustment identified as the main geomorphological processes taking place. Minimal evidence of erosion was found within this reach. The erosion threshold identified that the critical discharge value required to entrain or begin to transport bed material is on average 0.13 m³/s. Lastly, the meander belt width was completed using the mapping approach and is 158m.</p> <p>The results of the assessments are further discussed in the in body of the report. Based on the results of the fluvial geomorphic assessment, the following recommendations are made:</p> <ul style="list-style-type: none"> ■ Increases in flow to the watercourses from the snow melt should consider the erosion threshold conditions for Site 5 – Johnston Sports Park and Site 6 - Tullamore Reservoir. The erosion threshold provides targets for the drainage network. Increases in flow have the potential to result in channel instability and lead to morphological adjustment. It should be noted that at Site 5 - Johnston Sports Park, that aggradation of fine sediment was found along the bed of the watercourse and that increases in flow will help to alleviate this. At Site 6 – Tullamore Reservoir, shale bedrock identified along the bed of the watercourse will provide resistance to erosional processes, but no shale was noted along the banks. It is recommended that care is taken to maintain vegetation cover along and within the watercourses in order to maintain the existing channel stability. ■ The meander belt refers to the lateral extent of floodplain occupation by a meandering watercourse both now and into the future. Protecting the meander belt area from encroachment serves the dual purposes of enabling a continuity of natural channel processes and of protecting property and structures from erosion. To prevent, eliminate or minimize the risks to life and property caused by erosion hazards, it is recommended to maintain the meander belt boundary. ■ Due to the location of the watercourses on private property at Site 3 – West Brampton Reservoir and Site 9 – Alloa Reservoir and no permission to enter (PTE), a scoped fluvial geomorphological assessment was completed. Future detailed assessments are recommended when permission to enter granted. <p>The total land use for Sites 1, 3, 5, 6, and 9 is approximately 0.79 acres, 2.84 acres, 7.68 acres, 0.58 acres, and 0.77 acres, respectively.</p>	
<p>Lands - Designated Natural Areas</p>		

Page	HDI Comments (November 13, 2023)	Responses (April 16-2024)
Pg. 7-8	<p>Natural Environment Feature: Designated Natural Areas</p> <p>Site 1 - Highway No. 50 Car Pool Lot: None</p> <p>Site 3 - West Brampton Reservoir and Pumping: None but within 120 m of Huttonville Creek & Area Wetland Complex PSW. None but within 40 m of Region of Peel's Core Area Woodlands and more than 500 m of Region of Peel's NAC Woodlands.</p> <p>Site 5 - Johnston Sports Park: None but within 500 m of Region of Peel Core Area and NAC Woodland.</p> <p>Site 6 - Tullamore Reservoir: None but within 200 m of Region of Peel NAC woodland.</p> <p>Site 9 - Alloo Reservoir and Pumping Station: None but within 330 m of Region of Peel Core Area Woodland.</p> <p>Analysis:</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot:</u></p> <ol style="list-style-type: none"> 1. Absence of Designated Natural Areas suggests minimal direct environmental impact, but the cumulative effects of snowmelt runoff could still affect downstream aquatic ecosystems that may be connected to Treaty lands. 2. Haudenosaunee Treaty rights monitors are required where applicable. <p><u>Site 3 - West Brampton Reservoir and Pumping:</u></p> <ol style="list-style-type: none"> 1. Close proximity (120 m) to Huttonville Creek & Area Wetland Complex PSW poses potential risks of watercourse contamination from snowmelt, affecting fish populations or plants traditionally used by the Haudenosaunee. 2. Being 40 m from Region of Peel's Core Area Woodlands implies that a change in water table or pollution could indirectly impact these sensitive woodlands, some of which might hold cultural or economic significance to the Haudenosaunee. 3. Haudenosaunee Treaty rights monitors are required where applicable. <p><u>Site 5 - Johnston Sports Park:</u></p> <ol style="list-style-type: none"> 1. Being within 500 m of Region of Peel Core Area and NAC Woodland suggests a risk of snowmelt pollutants reaching these ecologically significant areas, affecting local flora and fauna that might be of importance under Treaty rights. 2. Potential increases in flow might lead to a sediment balance disruption, possibly impacting species that the Haudenosaunee have a Treaty right to hunt or gather. 3. Haudenosaunee Treaty rights monitors are required where applicable. <p><u>Site 6 - Tullamore Reservoir:</u></p> <ol style="list-style-type: none"> 1. Proximity (200 m) to Region of Peel NAC woodland poses a risk of ecological disturbance, especially if flow rates are miscalculated, possibly impacting species vital to the Haudenosaunee culture or economy. 2. The shale bedrock may offer limited resistance to erosional processes; however, the absence of shale along the banks is a concern for potential erosion and sediment release, which could impact aquatic habitats related to Treaty rights. 3. Haudenosaunee Treaty rights monitors are required where applicable. <p><u>Site 9 - Alloo Reservoir and Pumping Station:</u></p>	<p>Below is our response to the Designated Natural Areas analysis:</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot</u></p> <ol style="list-style-type: none"> 1. The snow melt will run through bioswales with filter media that will help to remove some contaminants. Given this in combination with the mitigation measures recommended in Section 5 of the Natural Environment Report, particularly regarding snow melt during operations, polluted runoff from snow storage is not anticipated to negatively affect downstream aquatic ecosystems, fish or fish habitat. Mitigation measures to minimize or avoid impacts to downstream aquatic features and habitat have been provided in Section 5 of the Natural Environment Report. Site specific mitigation measures will be provided during detailed design. 2. Mitigation measures are anticipated to address any potential adverse ecological impacts. Refer to the executive summary response for the mitigations measures pertaining to Site 1. <p><u>Site 3 - West Brampton Reservoir and Pumping</u></p> <ol style="list-style-type: none"> 1. The snow melt will run through bioswales with filter media that will help to remove some contaminants. Given the mitigation measures recommended in Section 5 of the Natural Environment Report, particularly regarding snow melt during operations, polluted runoff from snow storage is not anticipated to negatively affect downstream aquatic ecosystems, fish or fish habitat. Mitigation measures to minimize or avoid impacts to downstream aquatic features and habitat have been provided in Section 5 of the Natural Environment Report. Site specific mitigation measures will be provided during detailed design. 2. Indirect impacts to Region of Peel Core Area Woodland from meltwater are not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the Snow Storage Area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Mitigation measures will also be discussed in further detail during detailed design. 3. Mitigation measures are anticipated to address any potential adverse ecological impacts. Refer to the executive summary response for the mitigations measures pertaining to Site 3. <p><u>Site 5 - Johnston Sports Park</u></p> <ol style="list-style-type: none"> 1. We note that the proposed snow storage location has been shifted to the parking lot. Indirect impacts to Region of Peel Core Area and NAC Woodland and local species from meltwater are not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Mitigation measures will also be discussed in further detail during detailed design. 2. Mitigation measures recommended in Section 5 of the Natural Environment Report are anticipated to address any potential sediment balance disruption. Mitigation measures are also anticipated to minimize or avoid impacts to downstream aquatic features and habitat. This includes that mitigation measures must be used for erosion and sediment control to prevent sediment from entering neighbouring properties and natural areas during construction when within 30 m of a watercourse, waterbody or wetland. Further site specific mitigation measures will be developed during detailed design. 3. Mitigation measures are anticipated to address any potential adverse ecological impacts. Refer to the executive summary response for the mitigation measures pertaining to Site 5. <p><u>Site 6 - Tullamore Reservoir</u></p> <ol style="list-style-type: none"> 1. The site is located entirely within mowed lawn that is at least 120 m away from more sensitive features in the southern half of the site property. No vegetation removal is anticipated outside of the proposed Snow Storage Area. This site is unlikely to support Significant Wildlife Habitat Wildlife and Wildlife Habitat mitigation

Page	HDI Comments (November 13, 2023)	Responses (April 16-2024)
	<ol style="list-style-type: none"> Being within 330 m of Region of Peel Core Area Woodland implies potential indirect impacts to these core woodlands, potentially affecting plants and animals that hold cultural or treaty-based significance to the Haudenosaunee. In the absence of a detailed fluvial assessment due to private property limitations, unknown variables could pose risks to the water quality or ecosystems linked to Treaty lands. Haudenosaunee Treaty rights monitors are required where applicable. 	<p>measures outlined in Section 5 of the Natural Environment Report will avoid impacts to migratory birds. Mitigation measures will be detailed further during the detailed design stage.</p> <ol style="list-style-type: none"> A meander belt analysis has been recommended for Salt Creek to confirm the boundaries of regulated Redside Dace habitat and associated mitigation measures during detailed design. Erosion and Sediment Control Measures will also be recommended for the site. Mitigation measures are anticipated to address any potential adverse ecological impacts. Refer to the executive summary response for the mitigation measures pertaining to Site 6. <p><u>Site 9 - Alloa Reservoir and Pumping Station</u></p> <ol style="list-style-type: none"> The site is located entirely within mowed lawn that is at least 120 m away from more sensitive features in the southern half of the site property. No vegetation removal is anticipated outside of the proposed Snow Storage Area. This site is unlikely to support Significant Wildlife Habitat Wildlife and Wildlife Habitat mitigation measures outlined in Section 5 of the Natural Environment Report will avoid impacts to migratory birds. Mitigation measures will be detailed further during the detailed design stage. While a scoped fluvial geomorphological assessment was completed, future detailed assessments are recommended when permission to enter granted. Recommendations will be made during future assessment. Mitigation measures are anticipated to address any potential adverse ecological impacts. Refer to the executive summary response for the mitigation measures pertaining to Site 6.
Lands - Vegetation		
<p>Pg. 8-9</p>	<p>Natural Environment Feature: Vegetation</p> <p>Site 1 - Highway No. 50 Car Pool Lot: 0.321 ha of Dry-Moist Old Field Meadow</p> <p>Site 3 - West Brampton Reservoir and Pumping: 1.15 ha of Dry-Moist Old Field Meadow</p> <p>Site 5 - Johnston Sports Park: 3.108 ha total for all vegetation communities (2.974 ha of agricultural soy, 0.029 ha of sports field, 0.061 ha of common reed, 0.044 ha of Dry-Moist Old Field Meadow</p> <p>Site 6 - Tullamore Reservoir: 0.236 ha of manicured lawn</p> <p>Site 9 - Alloa Reservoir and Pumping Station: 0.31 ha of manicured lawn</p> <p>Analysis:</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot</u></p> <ol style="list-style-type: none"> The presence of 0.321 ha of Dry-Moist Old Field Meadow could serve as a habitat for certain flora and fauna species, potentially including those of cultural or medicinal importance to the Haudenosaunee. Snow storage could disrupt this habitat, which may infringe upon treaty rights related to traditional ecological knowledge and use. Haudenosaunee Treaty rights monitors are required where applicable. <p><u>Site 3 - West Brampton Reservoir and Pumping</u></p> <ol style="list-style-type: none"> Given its proximity to Huttonville Creek & Area Wetland Complex PSW and Core Area Woodlands, the 1.15 ha of Dry-Moist Old Field Meadow could be part of an interconnected ecosystem. Disturbance could have downstream effects that potentially implicate water quality and aquatic life, which are essential for Haudenosaunee subsistence and cultural practices. 	<p>Below is our response to the vegetation analysis:</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot</u></p> <ol style="list-style-type: none"> It is acknowledged that the Dry-Moist Field Meadow could serve as a habitat for certain flora and fauna species, potentially including those of cultural or medicinal importance to the Haudenosaunee; however, please note that the cultural meadow was disturbed as it was surrounded by agricultural fields and urban developments. Refer to the executive summary response for the mitigation measures pertaining to Site 1. <p><u>Site 3 - West Brampton Reservoir and Pumping¹</u></p> <ol style="list-style-type: none"> It is acknowledged that potential snow storage site is located in proximity to the Huttonville Creek & Area Wetland Complex PSW and Core Area Woodlands). Please note that the potential snow storage site has changed in size and will remove 1.04 ha of Dry-moist Old Field Meadow. Indirect impacts to Huttonville Creek & Area Wetland Complex PSW and Region of Peel Core Area Woodland from meltwater are also not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the Snow Storage Area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Mitigation measures will also be discussed in further detail during detailed design. Refer to the executive summary response for the mitigation measures pertaining to Site 3. <p><u>Site 5 - Johnston Sports Park</u></p> <ol style="list-style-type: none"> HDI's concerns are acknowledged; however, the proposed snow storage area has since been shifted to the parking lot away from the agricultural soy. Indirect impacts from meltwater are not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will

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	<p>2. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 5 - Johnston Sports Park</u></p> <ol style="list-style-type: none"> The diverse vegetation, including 2.974 ha of agricultural soy, could be at risk for contamination from snowmelt, particularly if that snow contains road salt or other pollutants. Such contamination could indirectly affect the Haudenosaunee if these crops are integral to the food supply chain or local biodiversity. The invasive common reed presence may indicate that the area has already been subject to some level of disturbance or pollution, raising questions about cumulative impacts of additional stressors like snow storage. Haudenosaunee Treaty rights monitors are required where applicable. <p><u>Site 6 - Tullamore Reservoir</u></p> <ol style="list-style-type: none"> The 0.236 ha of manicured lawn may seem benign, but any potential application of pesticides or fertilizers on this lawn, combined with snowmelt, could lead to runoff that negatively impacts surrounding water systems and thus Haudenosaunee treaty rights. Haudenosaunee Treaty rights monitors are required where applicable. <p><u>Site 9 - Alloo Reservoir and Pumping Station</u></p> <ol style="list-style-type: none"> Similar to Site 6, the 0.31 ha of manicured lawn raises concerns about potential contamination of nearby water sources from runoff, especially given its proximity to the Core Area Woodland. Haudenosaunee Treaty rights monitors are required where applicable. 	<p>be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources.</p> <ol style="list-style-type: none"> HDI's concerns are acknowledged. Refer to the executive summary response for the mitigation measures pertaining to Site 5. <p><u>Site 6 - Tullamore Reservoir</u></p> <ol style="list-style-type: none"> HDI's concerns are acknowledged; however, indirect impacts from meltwater are not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Refer to the executive summary response for the mitigations measures pertaining to Site 5. <p><u>Site 9 - Alloo Reservoir and Pumping Station</u></p> <ol style="list-style-type: none"> HDI's concerns are acknowledged; however, indirect impacts from meltwater are not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Refer to the executive summary response for the mitigation measures pertaining to Site 9.
<p>Lands - General Wildlife, including Significant Wildlife Habitat</p>		
<p>Pg. 9-10</p>	<p><u>Natural Environment Feature: General Wildlife, including Significant Wildlife Habitat</u></p> <p>Site 1 - Highway No. 50 Car Pool Lot: Candidate habitat for Monarch</p> <p>Site 3 - West Brampton Reservoir and Pumping: Candidate habitat for Monarch. One (1) Animal Movement Corridors - Amphibians may travel through the Potential Snow Storage Area</p> <p>Site 5 - Johnston Sports Park: Confirmed habitat for Monarch. Presence of Muskrat lodge</p> <p>Site 6 - Tullamore Reservoir: None stated</p> <p>Site 9 - Alloo Reservoir and Pumping Station: None stated</p> <p>Analysis:</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot</u></p> <ol style="list-style-type: none"> The area is a candidate habitat for Monarch butterflies. Monarchs are important pollinators, and their habitat destruction could affect plant species vital for traditional Haudenosaunee practices. This stands to impact the biodiversity which the Haudenosaunee rely upon for medicinal, cultural, and sustenance purposes. Haudenosaunee Treaty rights monitors are required where applicable. <p><u>Site 3 - West Brampton Reservoir and Pumping</u></p>	<p>Below is our response to the General Wildlife, including Significant Wildlife Habitat analysis:</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot</u></p> <ol style="list-style-type: none"> We acknowledge that Monarch are important pollinators and vital for traditional Haudenosaunee practices. Temporarily disturbed areas will be re-vegetated using non-invasive, preferably native plantings and/ or seed mix appropriate to the site conditions and adjacent vegetation communities. Seed mixes should contain flowering herbaceous plants to support foraging habitat to pollinators, as well as Common Milkweed for Monarchs, wherever feasible. Refer above and to the executive summary response for the mitigation measures pertaining to Site 1. <p><u>Site 3 - West Brampton Reservoir and Pumping</u></p> <ol style="list-style-type: none"> We acknowledge that Monarch are important pollinators and vital for traditional Haudenosaunee practices. Temporarily disturbed areas will be re-vegetated using non-invasive, preferably native plantings and / or seed mix appropriate to the site conditions and adjacent vegetation communities. Seed mixes should contain flowering herbaceous plants to support foraging habitat to pollinators, as well as Common Milkweed for Monarchs, wherever feasible. Indirect impacts from meltwater are not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Refer to the executive summary response for mitigation measures pertaining to Site 3. <p><u>Site 5 - Johnston Sports Park</u></p>

Page	HDI Comments (November 13, 2023)	Responses (April 16-2024)
	<p>1. In addition to being a candidate habitat for Monarchs, this site also contains an animal movement corridor for amphibians. Any alteration or contamination due to snowmelt laden with road salts and pollutants can disrupt these corridors, affecting the local ecosystem's health. This can infringe upon Haudenosaunee Treaty rights by negatively impacting species used in traditional activities and ceremonies.</p> <p>2. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 5 - Johnston Sports Park</u></p> <p>1. The presence of a confirmed Monarch habitat and a muskrat lodge indicates a diverse ecosystem. Muskrats are important in Haudenosaunee cosmology and serve practical uses such as trapping. Snow storage could disturb this habitat through increased human activity and potential runoff, thereby affecting species crucial to Haudenosaunee cultural and economic activities.</p> <p>2. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 6 - Tullamore Reservoir</u></p> <p>1. While none are specifically stated, the lack of listed significant wildlife habitats does not entirely exclude their potential presence. The area might contain as-yet-identified habitats or serve as a migratory route for various species important to Haudenosaunee culture and subsistence.</p> <p>2. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 9 - Alloa Reservoir and Pumping Station</u></p> <p>1. Similar to Site 6, the lack of stated habitats should not be taken as conclusive evidence of their absence. As with the previous site, impacts on unidentified wildlife could still infringe upon Haudenosaunee Treaty rights.</p> <p>2. Haudenosaunee Treaty rights monitors are required where applicable.</p>	<p>1. The potential snow storage site has been shifted to a manicured sports field and parking lot which does not provide habitat for Monarch. The Muskrat lodge is located in the stormwater manager pond outside of the potential snow storage site and will not be removed. It is already adapted to human activity and disturbance and it is not anticipated that it will be disturbed during construction activities. Construction personnel will be trained in ways to prevent wildlife encounter from occurring, including the following: no personal shall approach, feed or harass wildlife, food waste will be properly stored and disposed of and vehicles will yield to wildlife. Indirect impacts from meltwater are not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources</p> <p>2. Refer to the executive summary response for mitigation measures pertaining to Site 5.</p> <p><u>Site 6 - Tullamore Reservoir</u></p> <p>1. We are in agreement that there should be no assumption that there will be zero potential effects on SAR; however, this snow storage site is located entirely within a manicured lawn and is unlikely to support significant wildlife habitat so we do not anticipate impacts to significant wildlife habitat with the appropriate mitigation measures in place.</p> <p>2. Refer to the executive summary response for mitigation measures pertaining to Site 6.</p> <p><u>Site 9 - Alloa Reservoir and Pumping Station</u></p> <p>1. We are in agreement that there should be no assumption that there will be zero potential effects on SAR; however, this snow storage site is located entirely within a manicured lawn and is unlikely to support significant wildlife habitat so we do not anticipate impacts to SWH.</p> <p>2. Refer to the executive summary response for the mitigation measures pertaining to Site 9.</p>
Waters		
<p>Pg. 11-12</p>	<p>Natural Environment Feature: Aquatic Habitat</p> <p>Site 1 - Highway No. 50 Car Pool Lot: (1) permanent watercourse outside property boundary. Direct fish habitat</p> <p>Site 3 - West Brampton Reservoir and Pumping: One (1) intermittent watercourse inside property boundary. May provide seasonal fish habitat</p> <p>Site 5 - Johnston Sports Park: One (1) permanent watercourse inside property boundary. Direct fish habitat</p> <p>Site 6 - Tullamore Reservoir: One (1) permanent watercourse inside property boundary. Direct fish habitat</p> <p>Site 9 - Alloa Reservoir and Pumping Station: One (1) permanent watercourse outside property boundary. Direct fish habitat</p> <p>Analysis:</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot</u></p> <p>1. Given the presence of a permanent watercourse outside the property boundary that serves as direct fish habitat, the quality and sustainability of this water system should</p>	<p>Below is our response to the aquatic habitat analysis:</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot</u></p> <p>1. The snow melt will run through bioswales with filter media that will help to remove some contaminants. Further, given the mitigation measures recommended in Section 5 of the Natural Environment Report, particularly regarding snow melt during operations, polluted runoff from snow storage is not anticipated to negatively affect downstream aquatic ecosystems, fish or fish habitat. Mitigation measures to minimize or avoid impacts to downstream aquatic features and habitat have been provided in Section 5. Site specific mitigation measures will be provided during detailed design.</p> <p>2. Refer to the executive summary response for the mitigation measures pertaining to Site 1.</p> <p><u>Site 3 - West Brampton Reservoir and Pumping</u></p> <p>1. The snow melt will run through bioswales with filter media that will help to remove some contaminants. Further, given the mitigation measures recommended in Section 5, particularly regarding snow melt during operations, polluted runoff from snow storage is not anticipated to negatively affect downstream aquatic ecosystems, fish or fish habitat. Mitigation measures to minimize or avoid impacts to downstream aquatic features and habitat have been provided in Section 5. Site specific mitigation measures will be provided during detailed design.</p> <p>2. Refer to the executive summary response for the mitigation measures pertaining to Site 3.</p> <p><u>Site 5 - Johnston Sports Park</u></p> <p>1. We note that we have shifted the proposed snow storage location to the parking lot. The snow melt will run through bioswales with filter media that will help to remove some contaminants. Further, given the mitigation</p>

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	<p>be closely monitored. Any polluted runoff from snow storage could affect fish populations and subsequently impact the Haudenosaunee's fishing rights, subsistence, and cultural practices.</p> <p>2. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 3 - West Brampton Reservoir and Pumping</u></p> <p>1. The intermittent watercourse inside the property boundary could serve as a seasonal fish habitat. Snow storage could cause changes in water flow, quality, and temperature, potentially affecting the Haudenosaunee's access to and quality of seasonal fishing.</p> <p>2. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 5 - Johnston Sports Park</u></p> <p>1. The presence of a permanent watercourse inside the property boundary implies that this site is a direct fish habitat. Any snowmelt runoff containing pollutants such as road salt could lead to water quality deterioration, possibly affecting fish species vital to the Haudenosaunee.</p> <p>2. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 6 - Tullamore Reservoir</u></p> <p>1. With a permanent watercourse inside the property boundary that serves as a direct fish habitat, similar concerns arise as in Sites 1 and 5. The potential for contaminated runoff directly affecting water quality and fish habitats raises significant concerns for the Haudenosaunee's treaty rights related to fishing.</p> <p>2. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 9 - Alloa Reservoir and Pumping Station</u></p> <p>1. A permanent watercourse outside the property boundary provides direct fish habitat. As with Site 1, any pollution in the snowmelt runoff could adversely impact the water quality and the health of fish populations, affecting the Haudenosaunee's fishing rights and cultural practices.</p> <p>2. Haudenosaunee Treaty rights monitors are required where applicable.</p>	<p>measures recommended in Section 5 of the Natural Environment Report, increase in flow resulting in a sediment balance disruption is not anticipated. Mitigation measures to minimize or avoid impacts to downstream aquatic features and habitat have been provided in Section 5. Site specific mitigation measures will be provided during detailed design.</p> <p>2. Refer to the executive summary response for mitigation measures pertaining to Site 5.</p> <p><u>Site 6 - Tullamore Reservoir</u></p> <p>1. The snow melt will run through bioswales with filter media that will help to remove some contaminants. Further, given the mitigation measures recommended in Section 5 of the Natural Environment Report, particularly regarding snow melt during operations, runoff from snow storage is not anticipated to negatively affect the permanent watercourse.</p> <p>2. Refer to the executive summary response for mitigation measures pertaining to Site 6.</p> <p><u>Site 9 - Alloa Reservoir and Pumping Station</u></p> <p>1. The snow melt will run through bioswales with filter media that will help to remove some contaminants. Further, given the mitigation measures recommended in Section 5 of the Natural Environment Report, particularly regarding snow melt during operations, polluted runoff from snow storage is not anticipated to negatively affect the water quality and the health of fish populations. Mitigation measures to minimize or avoid impacts to downstream aquatic features and habitat have been provided in Section 5. Site specific mitigation measures will be provided during detailed design.</p> <p>2. Refer to the executive summary response for mitigation measures pertaining to Site 9.</p>
Species at Risk		
Pg. 13-14	<p>Natural Environment Feature: Species at Risk</p> <p>Site 1 - Highway No. 50 Car Pool Lot: None stated</p> <p>Site 3 - West Brampton Reservoir and Pumping: Potential habitat for Bobolink and Eastern meadowlark</p> <p>Site 5 - Johnston Sports Park: Redside Dace</p> <p>Site 6 - Tullamore Reservoir: Redside Dace</p> <p>Site 9 - Alloa Reservoir and Pumping Station: None stated</p> <p>Analysis:</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot</u></p>	<p>Below is our response to the Species at Risk (SAR) Analysis:</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot</u></p> <p>1. We are in agreement that there should be no assumption that there will be zero potential effects on SAR; however, this snow storage site is located within a disturbed cultural meadow (CUM1-1) surrounded by agricultural fields and urban developments and is unlikely to support SAR species so we do not anticipate impacts to SAR or their habitat. Indirect impacts from meltwater are also not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the Snow Storage Area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. In the event a Species at Risk is discovered during the construction phase, a Qualified Ecologist and then Ministry of Environment Conservation and Parks will be contacted and the appropriate mitigation measures implemented.</p> <p>2. All meltwater from the site will first pass through a bioswale with filter media to treat the water before it infiltrates below ground. This will help to improve the quality of the water leaving the sites.</p>

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	<p>1. While no species at risk are stated, the potential for their presence or the presence of their habitats cannot be entirely discounted. The report's findings should not lead to the assumption that there will be no absolutely zero effects on species at risk. The increase in salinity and potential contaminants from road runoff and stored snow could create conditions that are harmful to unidentified species at risk or alter critical passage routes for migratory species.</p> <p>2. The meltwater from the snow storage may affect subterranean aquifers or unrecorded hydrological features that are crucial to the survival of nearby species at risk, potentially affecting their food sources or nesting grounds covered under the Nanfan Treaty.</p> <p>3. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 3 - West Brampton Reservoir and Pumping</u></p> <p>1. The presence of potential habitat for the Bobolink and Eastern meadowlark, both of which are species at risk, could be negatively impacted by changes in water flow and quality due to snowmelt. This includes alterations to the meadow-like habitats these birds require, which could become fragmented or degraded by increased water or sediment flow.</p> <p>2. The construction and operation phases for snow storage could lead to noise and human activity that disturbs these ground-nesting birds, reducing reproductive success and potentially leading to a decline in local populations.</p> <p>3. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 5 - Johnston Sports Park</u></p> <p>1. The presence of Redside Dace, a species at risk known for its sensitivity to water quality changes, suggests that alterations in sediment load and water temperature due to snowmelt could negatively impact its habitat, spawning activities, and food availability.</p> <p>2. Changes to the meander belt and erosion threshold could alter the physical characteristics of the stream, potentially impacting the microhabitats essential for the Redside Dace lifecycle, such as riffle areas for spawning.</p> <p>3. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 6 - Tullamore Reservoir</u></p> <p>1. Similar to Site 5, the presence of Redside Dace indicates a risk to their sensitive habitat. The shale bedrock may provide some resistance to erosion, but the lack of shale along the banks suggests that increased flow could still significantly alter bank structure and stream morphology, affecting Redside Dace habitat.</p> <p>2. The vegetation cover that is crucial for maintaining bank stability and water quality for the Redside Dace may be threatened by increased runoff and snow storage activities, especially during snowmelt when the risk of erosion and sedimentation is highest.</p> <p>3. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 9 - Alloo Reservoir and Pumping Station</u></p> <p>1. Aquatic Habitat While no species at risk are stated, the potential for their presence or the presence of their habitats cannot be entirely discounted. The report's findings should not lead to the assumption that there will be no absolutely zero effects on species at risk.</p>	<p>3. Mitigation measures are anticipated to address any potential adverse ecological impacts. Refer to the executive summary response for mitigation measures pertaining to Site 1.</p> <p><u>Site 3 - West Brampton Reservoir and Pumping</u></p> <p>1. The potential habitat for Bobolink and Eastern Meadowlark is located outside of the proposed Snow Storage Area; therefore, direct loss of habitat directly affecting reproductive success is not anticipated as no vegetation removal is proposed outside of the proposed Snow Storage Area. Indirect impacts from snowmelt are also not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the NER. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. There are no impacts on the potential Bobolink and Eastern Meadowlark habitat anticipated provided that the mitigation described in Section 5 of the NER are implemented. Mitigation regarding snow melt will also be discussed in further detail during detailed design.</p> <p>2. Noise from construction and snow storage operations are not anticipated to cause any more disturbance than baseline conditions as the surrounding area is located in an urban area and subject to anthropogenic noise sources. The Site is surrounded by a sports park that is unlikely to provide habitat to species sensitive to human disturbance. Mitigation measures such as restricting construction to certain times of the day as well as avoiding work during sensitive times for wildlife, such as the breeding bird nesting period will avoid disturbing wildlife in the area.</p> <p>3. Mitigation measures are anticipated to address any potential adverse ecological impacts. Refer to the executive summary response for mitigation measures pertaining to Site 3.</p> <p><u>Site 5 - Johnston Sports Park</u></p> <p>1. We have noted and agree with the concern for Redside Dace. The snow melt will run through bioswales with filter media that will help to remove some contaminants. Further, given the mitigation measures recommended in Section 5, particularly regarding snow melt during operations, runoff from snow storage is not anticipated to negatively affect potentially contributing Redside Dace habitat, as mitigation measures from the Guidance for Development Activities in Redside Dace Protected Habitat (MNRF 2016) were recommended in Section 5 of the Natural Environment Report. Additional site specific mitigation measures will be provided during detailed design.</p> <p>2. Lindsay Creek (Reach HU_WH_LC_01), a tributary of the West Humber River branch was identified within Site 5. The RGA indicated that the feature is in the lower index of "Stressed to Transitional" conditions, for this reason it is recommended that the current conditions of the watercourse, and the predicted meander belt width, be maintained as the watercourse achieves equilibrium (see Section 9.1 and 9.2 of the Fluvial Report). Furthermore, given that the proposed snow storage location within Site 5 has been updated in size and relocated away from the watercourse, it is expected that impacts from the snow melt, if any, are minimized. Lastly, the mitigation measures under Section 5 of the NER should prevent negative impacts stemming from increased sediment and flow inputs to the watercourse.</p> <p>3. Mitigation measures are anticipated to address any potential adverse ecological impacts. Refer to the executive summary response for the mitigation measures pertaining to Site 5.</p> <p><u>Site 6 - Tullamore Reservoir</u></p> <p>1. Given the mitigation measures recommended in Section 5, particularly regarding snow melt during operations, runoff from snow storage is not anticipated to negatively affect downstream Redside Dace habitat, given the mitigation measures from the Guidance for Development Activities in Redside Dace Protected Habitat (MNRF 2016) in Section 5 of the NER.</p> <p>2. A meander belt analysis has been recommended to confirm the boundaries of regulated Redside Dace habitat. Additional site specific mitigation measures will be provided during detailed design.</p> <p>3. Mitigation measures are anticipated to address any potential , adverse ecological impacts. Refer to the executive summary response for mitigation measures pertaining to Site 6.</p>

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	<p>2. Possible changes to groundwater and surface water regimes due to the snow storage could affect nearby natural environments that may be critical to unidentified species at risk.</p> <p>3. Haudenosaunee Treaty rights monitors are required where applicable.</p>	<p><u>Site 9 - Alloa Reservoir and Pumping Station</u></p> <ol style="list-style-type: none"> 1. We are in agreement that SAR cannot be completed discounted; however, the site is located entirely within mowed lawn that is at least 120 m away from more sensitive features and is unlikely to support SAR species therefore no potential impacts to SAR or their habitat are noted to be anticipated. In the event a Species at Risk is discovered during the construction phase, a Qualified Ecologist and then Ministry of Environment Conservation and Parks will be contacted and the appropriate mitigation measures implemented. 2. All meltwater from the site will first pass through a bioswale with filter media to treat the water before it infiltrates below ground or flows downstream. This will help to improve the quality of the water leaving the sites. The bioswales also provide peak flow attenuation, to mitigate the effect on the downstream receiving watercourse. 3. Mitigation measures are anticipated to address any potential , adverse ecological impacts. Refer to the executive summary response for the mitigation measures pertaining to Site 9.
Comparative Assessment of Site Impacts		
<p>Pg. 15- 16</p>	<p>Natural Environment Feature: Comparative Assessment of Site Impacts to Natural Environment</p> <p>Site 1 - Highway No. 50 Car Pool Lot: Least potential effect given that the cultural meadow is disturbed, and there are no sensitive features adjacent to this site that will be affected by increased water inputs from snow melt.</p> <p>Site 3 - West Brampton Reservoir and Pumping: Moderate impact potential given the meadow has potential to support SOCC and SAR species. The proposed storage area is adjacent to a PSW that may be impacted from increased water inputs from snow melt.</p> <p>Site 5 - Johnston Sports Park: Moderate impact given the majority of the area is agricultural soy row crop that does not provide habitat for SAR and SOCC. A small portion of the CUM1-1 is within the proposed Snow Storage Area, which was identified as confirmed monarch habitat. Potential for contributing Redside Dace habitat to be identified by MECP within Lindsay Creek as occupied reaches are confirmed approximately 2 km downstream. This habitat may be impacted from melt water entering the watercourse.</p> <p>Site 6 - Tullamore Reservoir: Moderate impact given the proposed Snow Storage Area consist of manicured lawn and there is low potential for SAR habitat of SWH. There are core woodlands and NACs in the vicinity that may be impacted from increased water inputs from snow melt. Salt Creek was identified as providing habitat for Redside Dace. This habitat may be impacted from melt water entering the watercourse.</p> <p>Site 9 - Alloa Reservoir and Pumping Station: Low to moderate impact given the proposed Snow Storage Area consist of manicured lawn and there is low potential for SAR habitat of SWH. There are core woodlands in the vicinity but are unlikely to be impacted from increased water inputs from snow melt as they are more than 300m away.</p> <p>Analysis:</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot:</u></p> <ol style="list-style-type: none"> 1. Site 1 appears to have the lowest potential for adverse impacts to environmental Treaty rights of the sites under consideration 	<p>Below is our response to the comparative analysis:</p> <p><u>Site 1 - Highway No. 50 Car Pool Lot</u></p> <ol style="list-style-type: none"> 1. We acknowledge and are in agreement Site 1 has low potential adverse impacts to the environment or Treaty rights. 2. Indirect impacts to SAR habitat from meltwater are not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the NER. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Mitigation measures will also be discussed in further detail during detailed design. 3. Mitigation measures are anticipated to address ,any potential adverse ecological impacts. Refer to the executive summary response for the mitigation measures pertaining to Site 1. <p><u>Site 3 - West Brampton Reservoir and Pumping</u></p> <ol style="list-style-type: none"> 1. Indirect impacts to the PSW and SAR habitat from meltwater are not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Mitigation measures will also be discussed in further detail during detailed design. 2. Mitigation measures are anticipated to address any potential adverse ecological impacts. Refer to the executive summary response for the mitigation measures pertaining to Site 3. <p><u>Site 5 - Johnston Sports Park</u></p> <ol style="list-style-type: none"> 1. Given the proposed snow storage within the site has shifted further away from the creek to the parking lot and mitigation measures set out in in Section 5, particularly regarding snow melt during operations, runoff from snow storage is not anticipated to negatively affect potentially contributing Redside Dace habitat. Mitigation measures from the Guidance for Development Activities in Redside Dace Protected Habitat (MNR 2016) were recommended in Section 5 of the NER. Additional site specific mitigation measures will be provided during detailed design. 2. Indirect impacts to monarch habitat through hydrology are not anticipated. Mitigation measures will ensure hydrology remains unchanged from baseline conditions. Impacts from meltwater are not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario

Page	HDI Comments (November 13, 2023)	Responses (April 16-2024)
	<p>2. Although no Species at Risk (SAR) are stated for this location, the introduction of meltwater may still affect underground water flows and potentially undiscovered SAR habitats, as not all species may have been accounted for during assessments.</p> <p>3. Haudenosaunee Treaty rights monitors are required where applicable.</p> <p><u>Site 3 - West Brampton Reservoir and Pumping:</u></p> <p>1. Increased meltwater could lead to changes in water chemistry and flow regimes, potentially disrupting the habitat of SAR like Bobolink and Eastern Meadowlark, and any other sensitive species relying on the adjacent Provincially Significant Wetland (PSW).</p> <p>2. Haudenosaunee Treaty rights monitors required to oversee adherence to treaty obligations and to monitor potential impacts on SAR and PSW.</p> <p><u>Site 5 - Johnston Sports Park:</u></p> <p>1. If Lindsay Creek is found to be part of the Redside Dace habitat, snowmelt could introduce pollutants or alter the thermal regime of the creek, affecting the Redside Dace population.</p> <p>2. The confirmed presence of Monarch habitat within the Cumulative Effect Monitoring Unit (CUM1-1) suggests that snow storage activities could disrupt the lifecycle of this species, particularly through changes in vegetation patterns due to altered hydrology.</p> <p>3. Haudenosaunee Treaty rights monitors required for protection of confirmed Monarch habitat and any potential Redside Dace habitats.</p> <p><u>Site 6 - Tullamore Reservoir:</u></p> <p>1. The presence of manicured lawns suggests regular human activity, which may already be suppressing SAR; however, increased water inputs from snowmelt can lead to additional pressures on the Salt Creek and its habitats, including the Redside Dace.</p> <p>2. The vicinity of core woodlands and Natural Areas Conservation (NAC) could see indirect effects from snowmelt runoff, such as invasive species proliferation due to disturbed soil or altered water availability.</p> <p>3. Haudenosaunee Treaty rights monitors required to ensure that the core woodlands and NAC are protected and that any changes do not impair SAR, particularly the Redside Dace.</p> <p><u>Site 9 - Alloa Reservoir and Pumping Station:</u></p> <p>1. While immediate impacts may be low due to distance from core woodlands, over time, cumulative effects of altered hydrology and potential chemical runoff from stored snow could affect soil and water quality, thereby impacting SAR habitats indirectly.</p> <p>2. Monitoring is recommended to determine long-term effects of snowmelt on hydrology and SAR, with Haudenosaunee Treaty rights monitors involved to ensure that any unforeseen impacts are addressed.</p>	<p>(2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Mitigation measures will also be discussed in further detail during detailed design.</p> <p>3. Mitigation measures are anticipated to address any potential adverse ecological impacts. Refer to the executive summary response for the mitigation measures pertaining to Site 5.</p> <p><u>Site 6 - Tullamore Reservoir 1.</u></p> <p>1. Given the mitigation measures recommended in Section 5, particularly regarding snow melt during operations, runoff from snow storage is not anticipated to negatively affect downstream Redside Dace habitat. Mitigation measures from the Guidance for Development Activities in Redside Dace Protected Habitat (MNR 2016) were recommended in Section 5 of the Natural Environment Report.</p> <p>2. Mitigation measures will be required to avoid impacts from snowmelt runoff. Impacts to Core Woodlands and NAC are not anticipated provided site-specific mitigation measures are adhered to.</p> <p>3. Mitigation measures are anticipated to address any potential adverse ecological impacts. Refer to the executive summary response for the mitigation measures pertaining to Site 6.</p> <p><u>Site 9 - Alloa Reservoir and Pumping Station</u></p> <p>1. Changes to hydrology are not anticipated provided mitigation measures are implemented properly. Long-term effects in hydrology are not anticipated and will not affect Core Woodlands. Impacts from meltwater are not anticipated through the proper implementation of stormwater management strategies and implementation of the mitigation measures during the construction and operation of the snow storage area as described in Section 5 of the Natural Environment Report. During operation, MECP's Snow Disposal and De-icing Operations in Ontario (2011) will be followed as well as treating the melt water in compliance with water quality regulations to protect the surface and groundwater resources. Mitigation measures will also be discussed in further detail during detailed design.</p> <p>2. Mitigation measures are anticipated to address any potential adverse ecological impacts. Refer to the executive summary response for the mitigation measures pertaining to Site 9.</p>

Figures

Figure 1: Site 5 - Johnston Sports Park (Caledon)

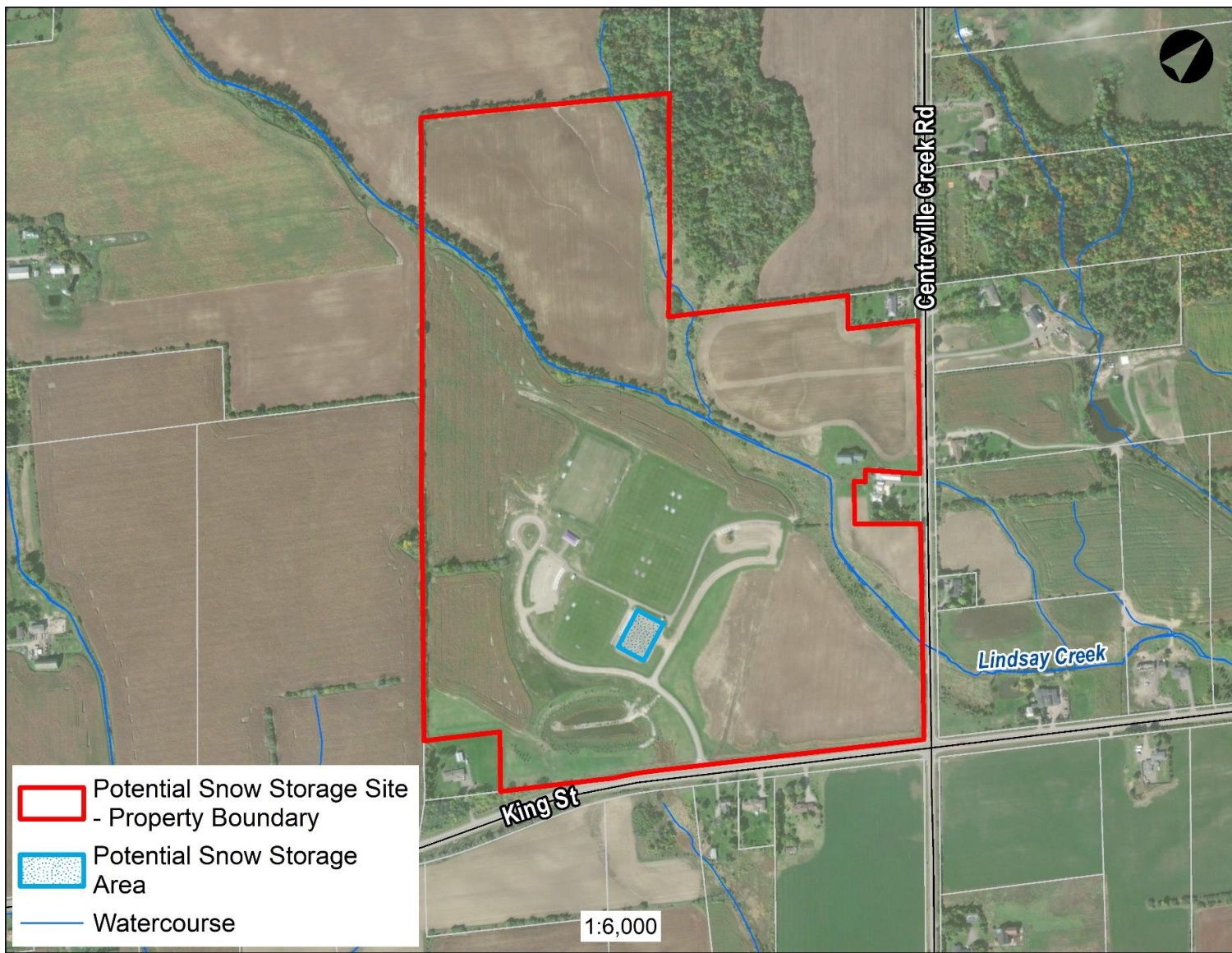
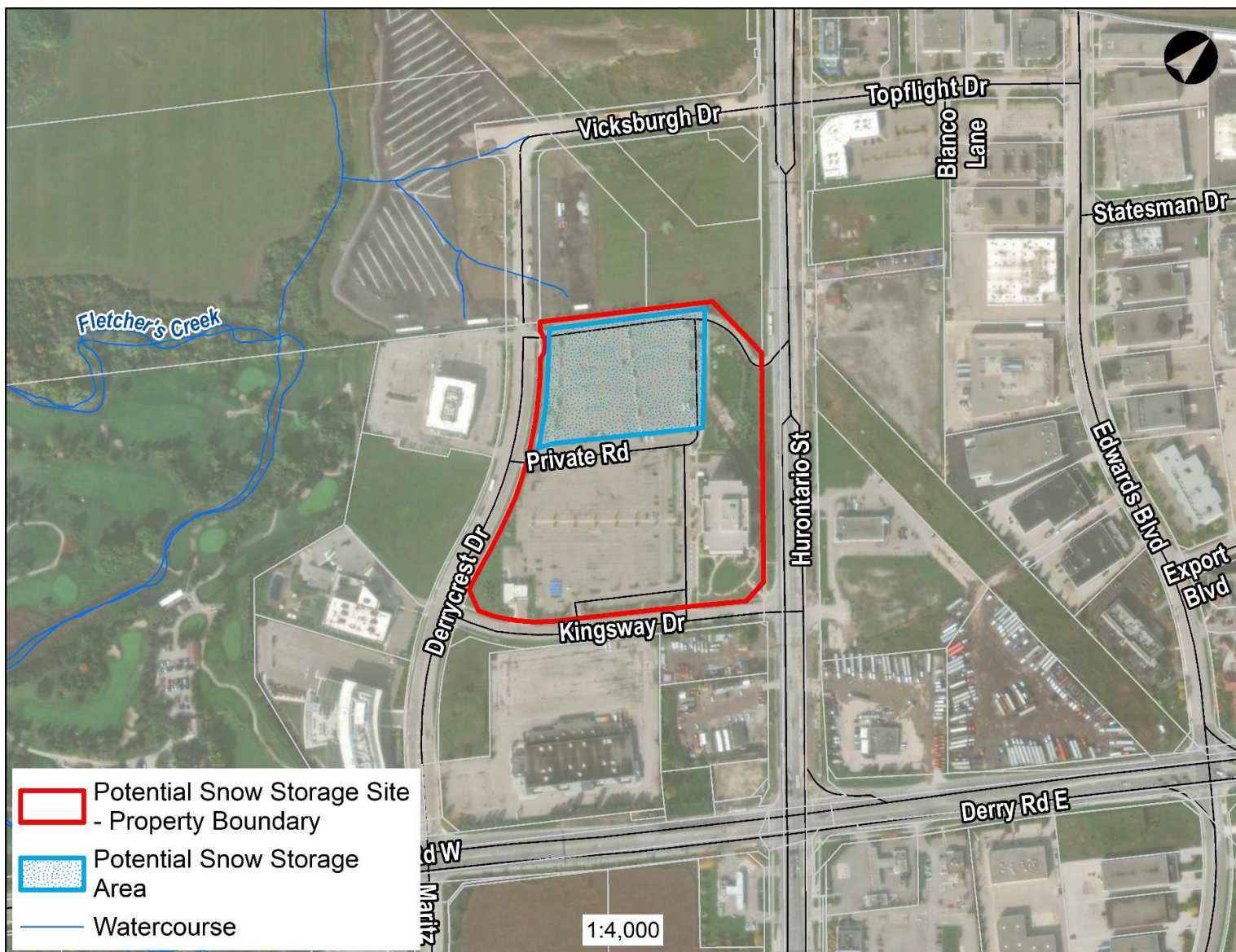


Figure 2: Site 10 - 7120 Hurontario Street (Mississauga)



1391-5222-2987, v. 1

**Snow Storage Sites Analysis and Conceptual Design Natural Environment
Report – Mitigation Engagement Strategy Plan**

Prepared for: Haudenosaunee Development Institute (HDI)

Date: Q1 2024

[Draft]

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Executive Summary

The Snow Storage Sites Analysis and Conceptual Design Natural Environment Report – Mitigation Engagement Strategy Plan (MESP) is a comprehensive document prepared for the Haudenosaunee Development Institute (HDI) to address the environmental and Treaty rights considerations inherent in the Region of Peel's project on snow storage site development. This plan is a result of meticulous analysis and collaborative efforts aimed at identifying viable strategies that minimize environmental impacts while respecting the Treaty rights of the Haudenosaunee. Through careful consideration of site selection, cumulative impacts on Treaty lands, and proactive mitigation measures, the MESP outlines a path forward that balances the Region of Peel's operational needs with the preservation of ecological integrity and Haudenosaunee sovereignty. The executive summary encapsulates the key findings and recommendations of the MESP, providing stakeholders with a clear understanding of the proposed actions to ensure the project's success in a manner that is respectful and inclusive of Haudenosaunee rights and environmental stewardship.

1. **Site Selection:** Choose Site 1 (Highway No. 50 Car Pool Lot) for the snow storage facility, as it poses the lowest risk to environmental treaty rights.
2. **Treaty Land Cumulative Impacts:** For the 0.79 acres of Site 1 used for the project, provide 1.58 acres (2X the project area) of land reserved for the Haudenosaunee and a compensation of \$40,000/year for the 0.79 acres occupied for the project's full lifespan.
3. **Haudenosaunee Treaty Rights Monitors:** Ensure the continuous presence of monitors from the Haudenosaunee Development Institute on-site to oversee project adherence to treaty obligations and to monitor potential impacts on natural resources and ecosystems vital to the Haudenosaunee.
4. **Digital Information System:** Develop a digital platform where Haudenosaunee nation members can view real-time land-use and water use metrics for projects like the Snow Storage Sites Analysis and Conceptual Design impacting Haudenosaunee Treaty rights.
5. **Buffer Zone for Aquatic Habitats:** Establish a buffer zone of at least 50 meters around the permanent watercourse outside the boundary of Site 1. This buffer zone should be maintained as a natural area, free from snow storage activities, to protect aquatic habitats from potential contamination due to snowmelt runoff.
6. **Erosion Control Measures:** Install specific erosion control measures, such as riprap or vegetated swales, along the banks of the watercourse at Site 1. These measures should be

designed to minimize erosion and sedimentation into the watercourse, particularly during snowmelt periods.

7. Native Vegetation Restoration: Initiate a program to plant and nurture native vegetation around Site 1. This would help mitigate habitat disruption caused by the snow storage facility.

In conclusion, the Mitigation Engagement Strategy Plan offers a holistic and forward-thinking approach to the challenges posed by the Snow Storage Sites Analysis and Conceptual Design project. It exemplifies a commitment to environmental preservation and respect for Haudenosaunee Treaty rights through its strategic recommendations and innovative mitigation measures. The plan is a testament to the potential of collaborative governance and integrated environmental management, setting a benchmark for future projects within Treaty lands. By adopting the strategies outlined in this executive summary, the Region of Peel and the Haudenosaunee Development Institute can embark on a path that leads to sustainable development, mutual respect, and shared stewardship of the natural environment. This plan not only addresses immediate project needs but also fosters a lasting partnership that can navigate the complexities of environmental conservation and Treaty rights in the spirit of reconciliation and respect.

Rationale

This Mitigation Engagement Strategy Plan (MESP) addresses the critical need for comprehensive environmental protection and adherence to Treaty obligations in the context of the Region of Peel's Snow Storage Sites Analysis and Conceptual Design project. This project, while aimed at addressing urban snow management needs, intersects significantly with Haudenosaunee Treaty land, necessitating a thoughtful approach to mitigate potential environmental impacts. The proposed mitigation measures—ranging from site selection to the restoration of native vegetation—are not arbitrary but are a cohesive set of strategies designed to protect the ecological integrity and Treaty rights of the Haudenosaunee.

The rationale for these measures is deeply rooted in the understanding that the proposed snow storage facilities could have multifaceted impacts on the natural environment and the Treaty rights of the Haudenosaunee. The selection of Site 1, for instance, as recommended in the MESP, is based on its comparatively lower risk profile to environmental Treaty rights, acknowledging that even the least impactful option requires careful management to prevent any potential harm to the land and water systems. This strategic choice exemplifies how these measures build upon the Natural Environment Report's findings, which identified Site 1 as posing the lowest potential risk among the options assessed.

The implementation of Treaty Land Cumulative Impacts measures further ensures that any use of land for the project goes beyond mere compliance with legal minimums, embodying a respect for the deeper spiritual and cultural connections the Haudenosaunee have with the land. By offering land compensation that is double the project area and a financial restitution, this approach recognizes the need for a tangible acknowledgment of the impact on Treaty lands, thereby fostering a sense of justice and partnership.

The introduction of Haudenosaunee Treaty Rights Monitors as a mitigation measure is pivotal. It ensures that the Haudenosaunee have a direct role in overseeing the project's adherence to Treaty obligations, environmental protections, and potentially mitigating unforeseen impacts. This measure builds upon the report's recommendations for environmental monitoring, by integrating Haudenosaunee traditional ecological knowledge and vested interest in the land's wellbeing, thus bridging the gap between contemporary environmental management practices and Indigenous stewardship.

The proposal for a Digital Information System underscores a commitment to transparency and inclusive decision-making, offering real-time access to land and water use metrics. This innovative approach enables the Haudenosaunee to monitor project impacts directly, ensuring that any deviations from agreed-upon environmental standards are promptly addressed. It

represents an evolution from the traditional consultation processes, moving towards a model of ongoing engagement and co-management.

The establishment of a Buffer Zone for Aquatic Habitats and the implementation of Erosion Control Measures directly respond to the potential risks of snowmelt runoff identified in the Natural Environment Report. By setting aside protected areas and employing specific interventions to minimize erosion, these measures aim to safeguard water quality and aquatic ecosystems, crucial for the preservation of fish habitats and water-dependent species that hold significance for the Haudenosaunee.

Furthermore, the Native Vegetation Restoration initiative not only aims to counteract habitat disruption caused by the project but also serves as a means to reinforce the cultural, medicinal, and ecological values intrinsic to the Haudenosaunee way of life. This measure, grounded in the principle of ecological compensation, seeks to restore and enhance local biodiversity, thereby ensuring that the project leaves a positive environmental legacy.

The Mitigation Engagement Strategy Plan (MESP) devised for the Haudenosaunee Development Institute incorporates a suite of mitigation measures that, when examined collectively, reveal a synergistic approach to environmental management and Treaty rights protection. This interaction is critical, as it amplifies the effectiveness of individual measures through their integrated application, showcasing a model of holistic environmental stewardship that is deeply aligned with Haudenosaunee values and Treaty rights.

The strategic selection of Site 1 for the snow storage facility forms the foundation upon which other mitigation measures are built. By choosing a site with the lowest environmental and Treaty rights risk, the MESP minimizes potential negative impacts from the outset. This decision is further enhanced by the implementation of specific measures such as the establishment of a Buffer Zone for Aquatic Habitats and Erosion Control Measures. Together, these strategies work to protect nearby water bodies from contamination and erosion, effectively addressing one of the primary concerns associated with snow storage sites—water quality degradation and sedimentation.

The inclusion of Haudenosaunee Treaty Rights Monitors is a pivotal measure that ensures the integrity and effectiveness of all other mitigation strategies. These monitors serve as the eyes and ears on the ground, ensuring that the site selection criteria are upheld, buffer zones are maintained, erosion controls are effective, and native vegetation restoration efforts are progressing as planned. Their continuous presence and oversight facilitate an adaptive management approach, where real-time observations can lead to immediate adjustments in mitigation practices, thus ensuring that the synergistic effects of these measures are fully realized.

The Digital Information System acts as a central hub, connecting various mitigation measures through real-time data sharing and transparency. This platform not only allows for the monitoring of land and water use metrics but also serves as a communication tool between the Haudenosaunee, project managers, and environmental monitors. By providing access to up-to-date information, this system ensures that the implementation of buffer zones, erosion control, and vegetation restoration measures can be evaluated and adjusted in real-time, enhancing their collective effectiveness.

The establishment of Buffer Zones for Aquatic Habitats and Erosion Control Measures operates in tandem to protect water quality. Buffer zones serve as natural filters for snowmelt runoff, trapping sediments and pollutants before they reach watercourses. Erosion control measures, such as vegetated swales or riprap, complement this by stabilizing soil and reducing runoff velocity, further mitigating the risk of sedimentation. Together, these measures form a comprehensive defense against the primary environmental concern associated with snow storage—the contamination and erosion of aquatic habitats.

Furthermore, the Native Vegetation Restoration measure not only directly contributes to habitat improvement and biodiversity enhancement but also supports the efficacy of buffer zones and erosion control measures. Native plants, with their deep root systems, enhance soil stability and water infiltration, reducing the need for engineered erosion controls and improving the effectiveness of buffer zones. This restoration effort, therefore, not only mitigates habitat disruption but also reinforces the natural infrastructure that supports water quality protection.

The proposed mitigation measures within the MESP do not operate in isolation; rather, they interact synergistically to create a comprehensive and integrated approach to environmental management on Haudenosaunee Treaty land. This strategic interplay not only maximizes the effectiveness of each measure but also embodies a holistic respect for the land, water, and cultural rights of the Haudenosaunee, setting a precedent for future projects and partnerships.

In essence, these mitigation measures are interlinked, designed to protect and restore the natural environment in a manner that respects Haudenosaunee sovereignty and Treaty rights. They demonstrate a holistic approach to environmental planning, one that acknowledges the need for proactive measures to prevent harm, ensure accountability, and foster a respectful partnership between the Haudenosaunee and the Region of Peel. This comprehensive strategy not only addresses the immediate impacts of the snow storage project but also sets a precedent for future developments on Treaty lands, emphasizing the importance of Indigenous knowledge, rights, and environmental stewardship.

Mitigation Measures

Mitigation Measure: Site Selection

Objective: To minimize environmental and Treaty rights impacts related to the Region of Peel's Snow Storage Sites Analysis project by strategically selecting Site 1 (Highway No. 50 Car Pool Lot) for the snow storage facility, due to its comparatively lower risk profile.

Strategy: 1. Assessment of Environmental Suitability: Conduct a thorough, final environmental assessment of Site 1 to confirm its suitability. This should include a detailed analysis of potential risks to water quality, local flora and fauna, and any previously unidentified environmental factors. The assessment should be focused on ensuring the site's current state aligns with the low-risk profile previously identified.

2. Monitoring and Reporting Plan: Establish a comprehensive monitoring plan for Site 1, which includes regular reporting on environmental indicators such as water quality, soil health, and biodiversity status. This plan should be designed to quickly identify and mitigate any unforeseen environmental impacts.

3. Infrastructure Design Considerations: Design the snow storage facility at Site 1 with advanced environmental safeguards, ensuring that the infrastructure minimizes runoff, prevents soil erosion, and has minimal impact on the surrounding natural areas. This may include the use of green infrastructure and sustainable design principles.

4. Emergency Response Plan: Develop an emergency response plan specifically for Site 1, outlining procedures for dealing with accidental spills or other environmental emergencies. This plan should be coordinated with local environmental agencies and the Haudenosaunee Development Institute.

5. Treaty Compliance Audits: Schedule periodic audits to ensure ongoing compliance with Treaty obligations. These audits should assess the project's adherence to established environmental standards and Haudenosaunee Treaty rights, with findings reported transparently to both the HDI and project stakeholders.

6. Documentation and Legal Review: Prepare comprehensive documentation outlining the rationale for selecting Site 1, including environmental, legal, and Treaty-based considerations. This documentation should be reviewed by legal experts to ensure all aspects of the selection process align with Treaty obligations and environmental regulations.

Mitigation Measure: Treaty Land Cumulative Impacts

Objective: To compensate for the use of 0.79 acres of Site 1 for the snow storage facility by providing double the area in reserved land for the Haudenosaunee and financial compensation, recognizing the cumulative impact on Treaty lands and ensuring fair reparation for the usage of these lands.

Strategy:

1. Land Identification and Allocation: Identify and secure 1.58 acres of land proximate to Site 1 or in a location agreed upon with the Haudenosaunee. This land should be ecologically equivalent or superior to the land being used for the project, ensuring that the replacement land holds similar or greater environmental and cultural value.
2. Legal Transfer and Protection: Facilitate the legal transfer of the 1.58 acres of land to the Haudenosaunee, ensuring that it is designated for their exclusive use. This process should include legal safeguards to protect the land from future development or encroachment.
3. Annual Compensation Agreement: Establish a formal agreement for annual compensation of \$40,000 (\$40,000/acre per year, rounded to a minimum of 1 acre) to the Haudenosaunee for the duration of the project's lifespan. This compensation recognizes the ongoing impact of the project on the 0.79 acres of Treaty land.
4. Transparent Financial Management: Set up a transparent and accountable financial mechanism for the annual compensation. This could involve the establishment of a trust or fund managed jointly by representatives of the Haudenosaunee and the project developers, ensuring the funds are used in a manner that benefits the Haudenosaunee community.
5. Involvement in Land Management: Involve the Haudenosaunee in the management and stewardship of the reserved land. This could include traditional ecological knowledge in land management practices, cultural activities, or ecological restoration projects.
6. Review and Reporting: Implement a process for periodic review and reporting on the status of both the land allocation and the compensation agreement. This ensures ongoing transparency and allows for adjustments or renegotiations if circumstances change or if the impact of the project on Treaty rights is found to be greater than anticipated.

Mitigation Measure: Haudenosaunee Treaty Rights Monitors

Objective: To effectively implement the continuous presence of Haudenosaunee Treaty Rights Monitors from the Haudenosaunee Development Institute at Site 1, ensuring diligent oversight of the project's adherence to treaty obligations and vigilant monitoring of potential impacts on natural resources and ecosystems significant to the Haudenosaunee.

Strategy:

1. **Recruitment and Training of Monitors:** Select qualified individuals from the Haudenosaunee community to serve as Treaty Rights Monitors. Provide comprehensive training that includes ecological monitoring techniques, legal aspects of treaty rights, and communication skills for effective reporting and collaboration with project teams.
2. **Monitor Roles and Responsibilities:** Establish a mandate for the monitors, outlining their specific roles and responsibilities. This should include on-site monitoring activities, data collection, regular reporting, and liaising between the Haudenosaunee Development Institute and the project management team.
3. **Establishment of Monitoring Protocols:** Develop standardized protocols for environmental and treaty rights monitoring. These protocols should include guidelines on data collection, analysis, and reporting, ensuring consistency and accuracy in monitoring activities.
4. **Access and Mobility on Site:** Ensure that monitors have unrestricted access to all areas of Site 1, along with necessary resources such as transportation, safety equipment, and communication tools to facilitate effective monitoring.
5. **Regular Reporting Mechanisms:** Set up a system for regular reporting by the monitors to the Haudenosaunee Development Institute and relevant stakeholders. Reports should include observations, data analyses, and recommendations, ensuring timely communication of any potential or observed treaty rights violations or environmental impacts.
6. **Feedback and Response System:** Implement a mechanism for the project team to respond to the monitors' reports, addressing any concerns raised. This system should facilitate prompt action to mitigate any identified risks or impacts.
7. **Training in Conflict Resolution and Advocacy:** Equip the monitors with skills in conflict resolution and advocacy to enable effective dialogue and negotiation with the project team, particularly in instances where potential treaty rights infringements or environmental concerns are identified.

8. Funding for Haudenosaunee Monitoring: Make available funds for the Haudenosaunee Development Institute to conduct monitoring and research, ensuring a comprehensive layer of oversight and expertise.

Mitigation Measure: Digital Information System

Objective: To develop a comprehensive, user-friendly digital platform that allows Haudenosaunee nation members to access real-time land-use and water use metrics for the Snow Storage Sites Analysis and Conceptual Design project, thereby facilitating transparency, informed decision-making, and effective oversight of activities impacting their Treaty rights.

Strategy:

1. Platform Development and Design: Collaborate with a technology firm specializing in environmental data platforms to design and develop the digital system. The platform should be intuitive, easy to navigate, and accessible on various devices, including smartphones and computers.
2. Real-Time Data Integration: Ensure the platform integrates real-time data feeds for land-use (measured in acres) and water use (measured in liters per second) from the project site. This could involve setting up sensors and automatic data logging systems at key points in the project area.
3. User Access and Security: Implement a secure login system to ensure that the platform is accessible to Haudenosaunee nation members. The system should protect sensitive data while allowing easy access for authorized users.
5. Regular Data Verification and Updates: Establish a protocol for regular verification and updating of the data presented on the platform to ensure accuracy and reliability. This could involve periodic checks and calibration of monitoring equipment.
6. Feedback and Communication Features: Incorporate features into the platform that allow users to provide feedback, ask questions, and communicate with project managers or environmental monitors. This could include a forum, direct messaging, or comment sections.
7. Maintenance and Technical Support: Set up a technical support team to assist with any issues related to the use of the platform and ensure its continuous maintenance and smooth functioning.

8 Periodic Review and Updates: Regularly review the platform s performance and user feedback to make necessary updates and improvements, ensuring that it continues to meet the needs of the Haudenosaunee Confederacy effectively.

Mitigation Measure: Buffer Zone for Aquatic Habitats

Objective: To establish and maintain a buffer zone of at least 50 meters around the permanent watercourse outside the boundary of Site 1, ensuring the protection of aquatic habitats from potential contamination due to snowmelt runoff associated with the snow storage facility.

Strategy:

1. Demarcation of Buffer Zone: Clearly demarcate a buffer zone with a minimum width of 50 meters around the entire perimeter of the permanent watercourse outside the boundary of Site 1. Use visible and durable markers to outline this zone.
2. Legal Protection Measures: Implement legal measures to protect the buffer zone. This could involve designating the area as a protected environmental zone in local regulations, ensuring its preservation from any form of development or disturbance.
3. Vegetation Assessment and Enhancement: Conduct an initial assessment of existing vegetation within the buffer zone. Based on the assessment, enhance the buffer zone with additional native plant species that are known to stabilize soil and filter runoff, thus providing better protection to the aquatic habitat.
4. Regular Monitoring and Maintenance: Establish a schedule for regular monitoring and maintenance of the buffer zone. This includes checking the integrity of the demarcation, the health of the vegetation, and signs of erosion or unauthorized activities.
5. Public Awareness and Signage: Install educational signage around the buffer zone to inform the public about its importance for protecting aquatic habitats. The signage should also include prohibitions against activities that could harm the buffer zone.
6. Runoff Management Plan: Develop a runoff management plan specifically for the snow storage facility to prevent contaminated snowmelt from entering the buffer zone. This plan should include the construction of physical barriers or diversion structures as needed.
7. Emergency Response Plan: Develop an emergency response plan for the buffer zone to quickly address any incidents of contamination or environmental damage, ensuring immediate remedial action can be taken.

Mitigation Measure: Erosion Control Measures

Objective: To effectively implement erosion control measures along the banks of the watercourse at Site 1, minimizing erosion and sedimentation, especially during snowmelt periods, and thus protecting the integrity of the watercourse and adjacent land, in alignment with environmental protection and Haudenosaunee Treaty rights.

Strategy:

1. Site Assessment and Planning: Conduct a detailed assessment of the watercourse at Site 1 to identify specific areas most vulnerable to erosion. Based on this assessment, develop a comprehensive plan outlining the type, location, and extent of erosion control measures required.
2. Selection of Erosion Control Methods: Choose appropriate erosion control methods such as riprap (rock or other material used to armor shorelines), vegetated swales (shallow, vegetated channels that manage water runoff), and other bioengineering techniques that align with the local ecosystem and are effective in minimizing erosion.
3. Sourcing and Preparation of Materials: Source locally available, environmentally friendly materials for the erosion control measures. Ensure that materials like rocks for riprap or native plants for vegetated swales are of appropriate size, type, and quality.
4. Installation of Erosion Control Measures: Carefully install the selected erosion control measures. For riprap, ensure proper placement and layering of rocks. For vegetated swales, ensure correct planting and establishment of vegetation, considering factors like root depth and water flow.
5. Integration with Natural Landscape: Design and implement the erosion control measures in a manner that integrates seamlessly with the natural landscape, preserving the natural aesthetics and ecological functions of the site.
6. Monitoring and Maintenance: Establish a regular monitoring schedule to inspect the erosion control measures, especially after significant rainfall or snowmelt events. Conduct maintenance as needed to ensure continued effectiveness of the measures.
7. Documentation and Reporting: Keep detailed records of the planning, implementation, and monitoring activities. Regularly report to the Haudenosaunee Development Institute and other stakeholders about the status and effectiveness of the erosion control measures.

8. Adaptive Management Approach: Be prepared to adapt and modify the erosion control strategies based on the effectiveness observed during monitoring and in response to changing environmental conditions.

Mitigation Measure: Native Vegetation Restoration

Objective: To implement a native vegetation restoration program around Site 1, aimed at rehabilitating and enhancing the local ecosystem, thereby mitigating habitat disruption caused by the snow storage facility and reinforcing the commitment to environmental stewardship as per Haudenosaunee Treaty rights.

Strategy:

1. Identification of Native Plant Species: Identify a diverse range of native plant species that are suited to the local climate and soil conditions. Prioritize species that are significant to the Haudenosaunee for their cultural, medicinal, or ecological value.
2. Site Assessment for Planting: Conduct a thorough assessment of Site 1 to determine suitable locations for planting. Areas with the most habitat disruption from the snow storage facility should be prioritized.
3. Soil Preparation and Enhancement: Prepare the soil in the identified planting areas by clearing any debris or pollutants and enhancing soil quality with organic matter if necessary, ensuring a healthy foundation for plant growth.
4. Sourcing of Plant Materials: Obtain plant materials, such as seeds and saplings, from reputable nurseries or conservation groups that specialize in native species. Ensure the genetic integrity of the plants to maintain local biodiversity.
5. Integration with Erosion Control Measures: Coordinate with erosion control initiatives at Site 1 to ensure that the vegetation restoration efforts complement and reinforce these measures, particularly along the watercourse.
6. Monitoring and Maintenance Program: Set up a long-term monitoring and maintenance program to track the growth and health of the newly planted vegetation. This program should include regular weeding, replacement of unsuccessful plantings, and adjustments based on environmental changes.

7. Documentation and Reporting: Maintain detailed records of the restoration efforts, including species planted, areas covered, and growth progress. Periodically report these findings to the Haudenosaunee Development Institute.

8. Expansion and Replication: Evaluate the success of the restoration program with the potential to expand it to other areas affected by the project or to replicate it in future projects on Haudenosaunee Treaty land.

Appendix 1: Native Vegetation

In what is now called the Peel Region of Ontario, several native plant species are integral to local ecosystems and could be beneficial for planting. These species are adapted to the local climate and soil conditions and support local wildlife, including pollinators. Here are some native species suitable for the area:

1. Trees:

- Sugar Maple (*Acer saccharum*): Known for its vibrant fall colors and important for wildlife.
- Eastern White Pine (*Pinus strobus*): A large pine that provides habitat for birds and other wildlife.
- Red Oak (*Quercus rubra*): A large tree with valuable wood and acorns that support wildlife.

2. Shrubs:

- Serviceberry (*Amelanchier spp.*): Produces edible berries and offers beautiful spring blossoms.
- Red Osier Dogwood (*Cornus sericea*): Known for its red bark and is a valuable habitat for wildlife.
- Witch Hazel (*Hamamelis virginiana*): A unique shrub that blooms in late fall.

3. Wildflowers and Grasses:

- Black-eyed Susan (*Rudbeckia hirta*): A hardy, sun-loving wildflower that attracts pollinators.
- Big Bluestem (*Andropogon gerardii*): A tallgrass prairie native, excellent for soil conservation.
- Butterfly Milkweed (*Asclepias tuberosa*): Crucial for monarch butterflies and other pollinators.

4. Wetland Plants:

- Blue Flag Iris (*Iris versicolor*): A beautiful and hardy plant for wet areas.
- Cattail (*Typha spp.*): Common in wetlands and provides habitat and food for wildlife.
- Joe-Pye Weed (*Eutrochium purpureum*): Attracts butterflies and bees, and thrives in moist conditions.

5. Groundcovers:

- Wild Strawberry (*Fragaria virginiana*): Provides ground cover and produces small, edible fruits.
- Canada Anemone (*Anemone canadensis*): A fast-spreading plant ideal for covering large areas.
- Bearberry (*Arctostaphylos uva-ursi*): A low-growing evergreen that's good for erosion control.

When selecting plants for restoration or landscaping projects, it's important to consider the specific conditions of the site, such as soil type, sunlight, and moisture levels. Additionally, using native plants can help maintain the ecological integrity of the area, support native wildlife, and reduce the need for fertilizers and pesticides.

From: Emma Kameka <emma@hdito.com>
Sent: Friday, August 2, 2024 3:35 PM
To: Kearsley, Glenn
Cc: Rae Lumsdon; Aaron Detlor; Aaron Detlor; Adam Zachariah
Subject: HDITO engagement - Snow Storage Sites Analysis, Stage 1 AA & Sutherland Wesleyan Methodist Church Cemetery and Rogers Cemetery
Attachments: 2024 Monitor Agreement Template (edited) - HDITO.docx

Be Careful With This Message

Report Suspicious

The sender's email domain has been active for a short period of time and could be unsafe.

Good afternoon Mr. Kearsley,

I hope this message finds you well.

I am reaching out on behalf of the Haudenosaunee Development Institute - Toronto regarding 4 projects that you are listed as the archeologist for:

- Snow Storage Sites Analysis, Stage 1 AA, Additional - 7120 Hurontario St. PIF ID: 125667
- Stage 1 Archaeological Assessment of the Sutherland Wesleyan Methodist Church Cemetery and Rogers Cemetery, 3606 Line 8, Bradford West Gwillimbury. PIF ID: 126794

HDITO is interested in participating in all stages of these projects. Attached, you will find a standard monitoring agreement that we kindly request to be signed prior to the commencement of the work. For your convenience I have included the two separate projects to cover in this email, however I would like to clarify that I will need separate monitor agreements signed by the project's respective proponents as well as the project information below for each individual project.

Could you please provide the following information at your earliest convenience for each project?

- Project Name:
- Project Address:
- Project Contact Details:
- Billing Contact:
- Billing Contact Details:
- Proponent Name:
- Proponent Contact Details:

Let me know if you have any questions or would prefer me to send this out to you for each individual project rather than amalgamating everything into one email.

Thank you for your attention to this matter. I look forward to your prompt response.

Best regards,
Emma Kameka



Haudenosaunee Development Institute
Our Land, Our Law, Our People, Our Future

Subject: FW: Peel Transportation EA Projects - HDI Responses and draft Agreements
Attachments: HDI-Peel Agreement - Snow Storage Sites - 20-09- 2024.docx.pdf; HDI-Peel Agreement - SW Servicing MP - 20-09- 2024.docx.pdf; Peel Snow Storage_HDI_Mitigation Comment Responses_2024-09-20 - Final.pdf; Winston Churchill Blvd. EA HDI-Peel Final Agreement - September 2024.docx.pdf; R2. Winston Churchill Blvd. EA Study - Response to HDI - Mitigation Engagement Strategy Plan_ Sept 2024.pdf

From: Banuri, Syeda
Sent: Friday, September 20, 2024 1:13 PM
To: Rae Lumsdon <rae@lumsdon.ca>; Rae Lumsdon <rae@hdito.com>
Cc: Emma Kameka <emma@hdito.com>; Aaron Detlor <aaron@detlorlaw.com>; Mahmood, Tareq <Tareq.Mahmood@peelregion.ca>; Rook, Sally <Sally.Rook@peelregion.ca>; Godley, Rachel <Rachel.Godley@peelregion.ca>
Subject: Peel Transportation EA Projects - HDI Responses and draft Agreements

Hello Rae,

Following up on our earlier discussion this month, please find attached the promised documents.

- Peel responses to HDI's Mitigation comments for Winston Churchill Blvd EA and Snow Storage Sites Analysis EA (also uploaded to the dropbox site)
- Draft agreements for Stormwater Servicing Master Plan, Winston Churchill Blvd EA and Snow Storage Sites Analysis EA

Please, note that the agreements are not signed and dated yet as they will need to be routed through DocuSign process. Currently, I am sharing the drafts with you just to ensure that there are no further comments from HDI before routing them for signatures.

In terms of the item related to HDI's moving forward engagement with the complete corridor studies (EA Exempt projects), we are awaiting your response. Please, advise.

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: Banuri, Syeda

Sent: Tuesday, September 3, 2024 3:39 PM

To: Rae Lumsdon <rae@lumsdon.ca>; Rae Lumsdon <rae@hdito.com>

Subject: RE: Queen St (Hwy 50) Bolton - Stage 1 Archaeological Assessment and other Peel Transportation EA Projects

Hi Rae,

It was nice talking to you this morning. Please, see the following for a quick summary of our discussion and next steps with regards to Peel's transportation studies:

- Transportation Infrastructure Programming (IP) team is working on finalizing the responses to HDI's Mitigation comments for Winston Churchill Blvd EA and Snow Storage Sites Analysis EA which will be shared with HDI via drop box site this week or early next week
- Transportation IP team is working on the agreements for Stormwater Servicing Master Plan, Winston Churchill Blvd EA and Snow Storage Sites Analysis EA and will send it to HDI in a couple of weeks
- We would like to file Winston Churchill Blvd EA and Snow Storage Sites Analysis EA this fall
- SW Servicing Master Plan – it was our understanding that HDI will withdraw its Section 16 Order Request as we complete the agreement. I will send the draft agreement to you soon. Please, advise.
- I am sharing a list of existing and upcoming Complete Corridor (CC) Studies (EA Exempt projects) as attached. It is my understanding based on our previous meetings/discussions with HDI staff that you would like to send us one set of comments which could be applicable to all CC studies. Our PM had previously shared with HDI the Stage 1 Archaeological Assessment and other information regarding Queen St (Hwy 50) Complete Corridor Study from Queensgate Blvd to Columbia Way. Please, let us know how would you like to move forward.

Please, let me know if I have missed anything. We can touch base again in a couple of weeks to follow-up.

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

Looking forward,

Syeda Basira Banuri, M.Eng., P.Eng. (*she/her*)
Program Manager, Infrastructure Programming
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10 Peel Centre Drive, Suite B – 4th Floor
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From: Rae Lumsdon <rae@lumsdon.ca>

Sent: Friday, July 19, 2024 1:32 PM

To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Rae Lumsdon <rae@hdito.com>
Subject: Re: Queen St (Hwy 50) Bolton - Stage 1 Archaeological Assessment

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Hi Syeda,

Thanks so much for your email. My apologies for the delay. I have been off dealing with a family emergency.

Can you please confirm what you mean by our preferred strategy? I understood that we have a process in place with Peel and would like to have it be consistent across all of our files with you.

Feel free to call me on my number below if that's easier!

Rae Lumsdon
VP, Business Development and Client Relationships
416.839.5307
rae@hdito.com



Haudenosaunee Development Institute
Our Land, Our Law, Our People, Our Future

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Wednesday, July 10, 2024 4:17 PM
To: Rae Lumsdon <rae@lumsdon.ca>
Subject: RE: Queen St (Hwy 50) Bolton - Stage 1 Archaeological Assessment

Hi Rae,

I hope this email finds you well. I would like to follow up on my request below. Can we please, discuss and confirm HDI's preferred strategy to provide input during our complete corridor projects?

We are also working on the Monitoring Agreements for the 3 projects as discussed at our last meeting with you and will send you our filled in copies for your review and signatures.

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
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10 Peel Centre Drive, Suite B – 4th Floor
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Syeda.Banuri@peelregion.ca

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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, June 20, 2024 4:06 PM
To: Rae Lumsdon <rae@lumsdon.ca>
Subject: RE: Queen St (Hwy 50) Bolton - Stage 1 Archaeological Assessment

Hi Rae,
Hope all is well at your end. I would like to have a quick call if possible, with you regarding our future review strategy for Complete Corridor (EA Exempt) studies. I am attaching the previously provided list of all current and upcoming 2024 Complete Corridor studies. Aaron had mentioned at a meeting that HDI would like to provide one set of comments for all upcoming Complete Corridor studies. I would like to further confirm if this would be HDI's approach moving forward. We have now completed Stage 1 Archaeological Assessment for another project, i.e, Dixie Road Complete Corridor Study from Rometown to Lakeshore and are ready to share with HDI if needed. Please, advise.

Also, just a kind reminder to please, send us the Agreement Template for the other 3 projects as discussed at our meeting last week.

If you would like to chat further, please give me a call at your 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
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: Rae Lumsdon <rae@lumsdon.ca>
Sent: Tuesday, June 18, 2024 12:16 PM
To: Bubas, Sonya <sonya.bubas@peelregion.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Godley, Rachel <rachel.godley@peelregion.ca>; Julie Abouchar <jabouchar@willmsshier.com>; Emma Kameka <emma@hdito.com>; arondetlor@gmail.com
Subject: Re: Queen St (Hwy 50) Bolton - Stage 1 Archaeological Assessment

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Hi Sonya,

Thanks so much for getting back to me.

We are not available at this time on Thursday. However, I may be able to work something out for Friday with Mr. Detlor.

Can you please confirm if you are free on Friday and the times that work for you? Alternatively, we can look into the week you get back.

Thanks so much in advance.

All the best,

Rae Lumsdon
416.839.5307

From: Bubas, Sonya <sonya.bubas@peelregion.ca>

Sent: Monday, June 17, 2024 11:36 AM

To: Rae Lumsdon <rae@lumsdon.ca>

Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Godley, Rachel <rachel.godley@peelregion.ca>; Julie Abouchar <jabouchar@willmsshier.com>; Emma Kameka <emma@hdito.com>; aarondetlor@gmail.com <aarondetlor@gmail.com>

Subject: RE: Queen St (Hwy 50) Bolton - Stage 1 Archaeological Assessment

Hi Rae,

Would you be available for a meeting this Thursday, June 20, 11am to noon? Would you prefer virtual or in-person?

I will be away from the office next week and can look into early July if Thursday does not work for you.

Regards,

Sonya Bubas, MCIP, RPP
Project Manager, Infrastructure Programming
Transportation Division, Public Works
Region of Peel
10 Peel Centre Dr., Suite B, 4th Floor
Brampton, ON L6T 4B9
905-791-7800 ext. 7801

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working with you



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From: Bubas, Sonya
Sent: Tuesday, June 11, 2024 11:55 AM
To: Rae Lumsdon <rae@lumsdon.ca>
Cc: Banuri, Syeda <Syeda.Banuri@peelregion.ca>; Godley, Rachel <Rachel.Godley@peelregion.ca>; Julie Abouchar <jabouchar@willmsshier.com>; Emma Kameka <emma@hdito.com>; aarondetlor@gmail.com
Subject: RE: Queen St (Hwy 50) Bolton - Stage 1 Archaeological Assessment

Hi Rae,

Thank you for the suggested days. I will reach out to our Consultant for the EA / Archaeological Assessment to confirm their availability and will get back to you soon.

Regards,

Sonya Bubas, MCIP, RPP
Project Manager, Infrastructure Programming
Transportation Division, Public Works
Region of Peel
10 Peel Centre Dr., Suite B, 4th Floor
Brampton, ON L6T 4B9
905-791-7800 ext. 7801



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From: Rae Lumsdon <rae@lumsdon.ca>
Sent: Tuesday, June 11, 2024 11:49 AM
To: aarondetlor@gmail.com; Bubas, Sonya <sonya.bubas@peelregion.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Godley, Rachel <rachel.godley@peelregion.ca>; Julie Abouchar <jabouchar@willmsshier.com>; Emma Kameka <emma@hdito.com>
Subject: Re: Queen St (Hwy 50) Bolton - Stage 1 Archaeological Assessment

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Hi Sonya,

Please let me know some dates and times that work for you and your team.

From our end, Monday, Tuesday and Thursday's are the best days to catch Mr. Detlor.

I look forward to hearing from you.

Thank you.

Rae Lumsdon
416.839.5307

From: Aaron Detlor <aarondetlor@gmail.com>
Sent: Wednesday, May 29, 2024 3:20 PM
To: Bubas, Sonya <sonya.bubas@peelregion.ca>; Rae Lumsdon <rae@lumsdon.ca>
Cc: Aaron Detlor <aarondetlor@gmail.com>; Syeda Banuri <syeda.banuri@peelregion.ca>; Rachel Godley <rachel.godley@peelregion.ca>; Juli Abouchar <jabouchar@willmsshier.com>
Subject: Re: Queen St (Hwy 50) Bolton - Stage 1 Archaeological Assessment

Thanks for your email

I have asked Ms. Lumsdon to set up a meeting internally for us on this project and we will be in touch on next steps.

Aaron

On Apr 18, 2024, at 3:40 PM, Bubas, Sonya <sonya.bubas@peelregion.ca> wrote:

Good afternoon Aaron,

I hope you are doing well.

I am reconnecting to share the Stage 1 Archaeological Assessment report for the Queen St (Hwy 50) Complete Corridor Study in Bolton. The report and appendices are available for your review through the Dropbox that you have access to. Please let me know if you have any trouble accessing the files.

We will continue to keep HDI informed of the project and look forward to your comments throughout this Study. Our next step is to plan for a public meeting (tentatively in June) to review the design options for the Queen St corridor.

Feel free to contact me if you have any questions. Note that I will be away from the office tomorrow and Monday. You are welcome to contact Syeda.Banuri@peelregion.ca who will be happy to help in my absence.

I reached out to Jake earlier and his email returned. I will try again when I am back in the office.

Thank you and I look forward to your reply,

Sonya Bubas, MCIP, RPP
Project Manager, Infrastructure Programming
Transportation Division, Public Works
Region of Peel
10 Peel Centre Dr., Suite B, 4th Floor
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Mitigation and Accommodation Request - Response Matrix

Project Name: Peel Snow Storage

Project Number: 13-4007

Date of HDI comments: Q1 2024

Date of Peel Region response: September 20, 2024

No.	HDI Comment	Peel Response
1	<p><u>Mitigation Measure: Site Selection</u> Choose Site 1 (Highway No. 50 Car Pool Lot) for the snow storage facility, as it poses the lowest risk to environmental treaty rights.</p> <p>Objective: To minimize environmental and Treaty rights impacts related to the Region of Peel's Snow Storage Sites Analysis project by strategically selecting Site 1 (Highway No. 50 Car Pool Lot) for the snow storage facility, due to its comparatively lower risk profile.</p> <p>Strategy: 1. Assessment of Environmental Suitability: Conduct a thorough, final environmental assessment of Site 1 to confirm its suitability. This should include a detailed analysis of potential risks to water quality, local flora and fauna, and any previously unidentified environmental factors. The assessment should be focused on ensuring the site's current state aligns with the low-risk profile previously identified.</p> <p>2. Monitoring and Reporting Plan: Establish a comprehensive monitoring plan for Site 1, which includes regular reporting on environmental indicators such as water quality, soil health, and</p>	<p>A long list of potential snow storage sites have been qualitatively evaluated and a short list of sites have been recommended as part of this project to be carried forward to the design phase, which includes:</p> <ul style="list-style-type: none"> – Site 1: Highway No. 50 Car Pool Lot) – Site 3: West Brampton Reservoir and Pumping Station) – Site 5 (Johnston Sports Park) – Site 6: Tullamore Reservoir and Pumping Station – Site 9: Alloa Reservoir and Pumping Station – Site 10: 7120 Hurontario Street <p>The evaluation considered various factor groups, including land use, technical, natural environment, socio-cultural and cost. The planning process has been summarized in the Draft Project File and supporting studies and has been shared with review agencies and key stakeholders, including HDI. The final Project File will document HDI's comments and how the Region has considered them to date and plans to engage HDI during the design phase, where applicable.</p>

<p>biodiversity status. This plan should be designed to quickly identify and mitigate any unforeseen environmental impacts.</p> <p>3. Infrastructure Design Considerations: Design the snow storage facility at Site 1 with advanced environmental safeguards, ensuring that the infrastructure minimizes runoff, prevents soil erosion, and has minimal impact on the surrounding natural areas. This may include the use of green infrastructure and sustainable design principles.</p> <p>4. Emergency Response Plan: Develop an emergency response plan specifically for Site 1, outlining procedures for dealing with accidental spills or other environmental emergencies. This plan should be coordinated with local environmental agencies and the Haudenosaunee Development Institute.</p> <p>5. Treaty Compliance Audits: Schedule periodic audits to ensure ongoing compliance with Treaty obligations. These audits should assess the project's adherence to established environmental standards and Haudenosaunee Treaty rights, with findings reported transparently to both the HDI and project stakeholders.</p> <p>6. Documentation and Legal Review: Prepare comprehensive documentation outlining the rationale for selecting Site 1, including environmental, legal, and Treaty-based considerations. This documentation should be reviewed by legal experts to ensure all aspects of the</p>	<p>As described in the Stormwater Management Report, conceptual design for the selected sites proposes a bioswale system with filter media that captures the runoff leaving the melt pad, reduces the peak flow and provides water quality treatment. By capturing, slowing down the flow of water leaving the site and filtering it through filter media, bioswales help to reduce erosion in downstream watercourses and help to retain sediment and associated contaminants.</p> <p>The Region will be implementing a monitoring plan for the selected sites. The monitoring plan proposes monitoring bioswale water levels, electrical conductivity (indicator of salt presence) and soil chemistry over time. This type of monitoring will provide the information required so that the bioswales can be properly maintained and adaptively managed (adjustments made over time) to mitigate environmental impacts of the snow storage facilities and enhance environmental outcomes.</p> <p>A Spill Prevention and Contingency Plan will also be developed and adhered to during operation, as required. Spills will be immediately contained and cleaned up in accordance with provincial regulatory requirements and the contingency plan.</p>
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	<p>selection process align with Treaty obligations and environmental regulations.</p>	
2	<p><u>Mitigation Measure: Treaty Land Cumulative Impacts</u> For the 0.79 acres of Site 1 used for the project, provide 1.58 acres (2X the project area) of land reserved for the Haudenosaunee and a compensation of \$40,000/year for the 0.79 acres occupied for the project's full lifespan.</p> <p>Objective: To compensate for the use of 0.79 acres of Site 1 for the snow storage facility by providing double the area in reserved land for the Haudenosaunee and financial compensation, recognizing the cumulative impact on Treaty lands and ensuring fair reparation for the usage of these lands.</p> <p>Strategy:</p> <ol style="list-style-type: none"> 1. Land Identification and Allocation: Identify and secure 1.58 acres of land proximate to Site 1 or in a location agreed upon with the Haudenosaunee. This land should be ecologically equivalent or superior to the land being used for the project, ensuring that the replacement land holds similar or greater environmental and cultural value. 2. Legal Transfer and Protection: Facilitate the legal transfer of the 1.58 acres of land to the Haudenosaunee, ensuring that it is designated for their exclusive use. This process should include legal safeguards to protect the land from future development or encroachment. 	<p>Treaty infringement and compensation would be a Crown obligation. Any compensation for land and resource use is the responsibility of the Province.</p>

	<p>3. Annual Compensation Agreement: Establish a formal agreement for annual compensation of \$40,000 (\$40,000/acre per year, rounded to a minimum of 1 acre) to the Haudenosaunee for the duration of the project’s lifespan. This compensation recognizes the ongoing impact of the project on the 0.79 acres of Treaty land.</p> <p>4. Transparent Financial Management: Set up a transparent and accountable financial mechanism for the annual compensation. This could involve the establishment of a trust or fund managed jointly by representatives of the Haudenosaunee and the project developers, ensuring the funds are used in a manner that benefits the Haudenosaunee community.</p> <p>5. Involvement in Land Management: Involve the Haudenosaunee in the management and stewardship of the reserved land. This could include traditional ecological knowledge in land management practices, cultural activities, or ecological restoration projects.</p> <p>6. Review and Reporting: Implement a process for periodic review and reporting on the status of both the land allocation and the compensation agreement. This ensures ongoing transparency and allows for adjustments or renegotiations if circumstances change or if the impact of the project on Treaty rights is found to be greater than anticipated.</p>	
3	<p><u>Mitigation Measure: Haudenosaunee Treaty Rights Monitors</u></p>	<p>Peel is open to more discussion and agrees in principle in allowing HDI monitors and Field Liaison</p>

<p>Ensure the continuous presence of monitors from the Haudenosaunee Development Institute on-site to oversee project adherence to treaty obligations and to monitor potential impacts on natural resources and ecosystems vital to the Haudenosaunee.</p> <p>Objective: To effectively implement the continuous presence of Haudenosaunee Treaty Rights Monitors from the Haudenosaunee Development Institute at Site 1, ensuring diligent oversight of the project's adherence to treaty obligations and vigilant monitoring of potential impacts on natural resources and ecosystems significant to the Haudenosaunee.</p> <p>Strategy:</p> <ol style="list-style-type: none">1. Recruitment and Training of Monitors: Select qualified individuals from the Haudenosaunee community to serve as Treaty Rights Monitors. Provide comprehensive training that includes ecological monitoring techniques, legal aspects of treaty rights, and communication skills for effective reporting and collaboration with project teams.2. Monitor Roles and Responsibilities: Establish a mandate for the monitors, outlining their specific roles and responsibilities. This should include on-site monitoring activities, data collection, regular reporting, and liaising between the Haudenosaunee Development Institute and the project management team.	<p>Representatives (FLRs) to be present during any further environmental and archaeological field work done during the detailed design stage as per the Agreement carried out between Peel and HDI for that work.</p>
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	<p>3. Establishment of Monitoring Protocols: Develop standardized protocols for environmental and treaty rights monitoring. These protocols should include guidelines on data collection, analysis, and reporting, ensuring consistency and accuracy in monitoring activities.</p> <p>4. Access and Mobility on Site: Ensure that monitors have unrestricted access to all areas of Site 1, along with necessary resources such as transportation, safety equipment, and communication tools to facilitate effective monitoring.</p> <p>5. Regular Reporting Mechanisms: Set up a system for regular reporting by the monitors to the Haudenosaunee Development Institute and relevant stakeholders. Reports should include observations, data analyses, and recommendations, ensuring timely communication of any potential or observed treaty rights violations or environmental impacts.</p> <p>6. Feedback and Response System: Implement a mechanism for the project team to respond to the monitors' reports, addressing any concerns raised. This system should facilitate prompt action to mitigate any identified risks or impacts.</p> <p>7. Training in Conflict Resolution and Advocacy: Equip the monitors with skills in conflict resolution and advocacy to enable effective dialogue and negotiation with the project team, particularly in instances where potential treaty rights infringements or environmental concerns are identified.</p>	
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	<p>8. Funding for Haudenosaunee Monitoring: Make available funds for the Haudenosaunee Development Institute to conduct monitoring and research, ensuring a comprehensive layer of oversight and expertise.</p>	
4	<p><u>Mitigation Measure: Digital Information System</u> Develop a digital platform where Haudenosaunee nation members can view real-time land-use and water use metrics for projects like the Snow Storage Sites Analysis and Conceptual Design impacting Haudenosaunee Treaty rights.</p> <p>Objective: To develop a comprehensive, user-friendly digital platform that allows Haudenosaunee nation members to access real-time land-use and water use metrics for the Snow Storage Sites Analysis and Conceptual Design project, thereby facilitating transparency, informed decision-making, and effective oversight of activities impacting their Treaty rights.</p> <p>Strategy:</p> <ol style="list-style-type: none"> 1. Platform Development and Design: Collaborate with a technology firm specializing in environmental data platforms to design and develop the digital system. The platform should be intuitive, easy to navigate, and accessible on various devices, including smartphones and computers. 2. Real-Time Data Integration: Ensure the platform integrates real-time data feeds for land-use (measured in acres) and water use (measured in 	<p>It is not applicable to this project. A separate discussion regarding the Digital Information System/Platform should be carried out with Peel's relevant staff led by Legal team.</p>

liters per second) from the project site. This could involve setting up sensors and automatic data logging systems at key points in the project area.

3. User Access and Security: Implement a secure login system to ensure that the platform is accessible to Haudenosaunee nation members. The system should protect sensitive data while allowing easy access for authorized users.

5. Regular Data Verification and Updates: Establish a protocol for regular verification and updating of the data presented on the platform to ensure accuracy and reliability. This could involve periodic checks and calibration of monitoring equipment.

6. Feedback and Communication Features: Incorporate features into the platform that allow users to provide feedback, ask questions, and communicate with project managers or environmental monitors. This could include a forum, direct messaging, or comment sections.

7. Maintenance and Technical Support: Set up a technical support team to assist with any issues related to the use of the platform and ensure its continuous maintenance and smooth functioning.

8. Periodic Review and Updates: Regularly review the platform's performance and user feedback to make necessary updates and improvements, ensuring that it continues to meet the needs of the Haudenosaunee Confederacy effectively.

5	<p>Mitigation Measure: Buffer Zone for Aquatic Habitats Establish a buffer zone of at least 50 meters around the permanent watercourse outside the boundary of Site 1. This buffer zone should be maintained as a natural area, free from snow storage activities, to protect aquatic habitats from potential contamination due to snowmelt runoff.</p> <p>Objective: To establish and maintain a buffer zone of at least 50 meters around the permanent watercourse outside the boundary of Site 1, ensuring the protection of aquatic habitats from potential contamination due to snowmelt runoff associated with the snow storage facility.</p> <p>Strategy:</p> <ol style="list-style-type: none"> 1. Demarcation of Buffer Zone: Clearly demarcate a buffer zone with a minimum width of 50 meters around the entire perimeter of the permanent watercourse outside the boundary of Site 1. Use visible and durable markers to outline this zone. 2. Legal Protection Measures: Implement legal measures to protect the buffer zone. This could involve designating the area as a protected environmental zone in local regulations, ensuring its preservation from any form of development or disturbance. 3. Vegetation Assessment and Enhancement: Conduct an initial assessment of existing vegetation within the buffer zone. Based on the assessment, enhance the buffer zone with additional native plant 	<p>The following proposed snow storage sites have a watercourse:</p> <ul style="list-style-type: none"> - Site 1: the proposed snow storage area is located approximately 50 m from the watercourse and across from an existing access road. A 50 m natural area buffer zone around the drainage watercourse cannot be accommodated because of existing development associated with Highway 50, Mayfield Road, an access road and, a parking lot. Mitigation measures to protect fish and fish habitat are recommended in Section 5 of the Natural Environment Report, including, but not limited to, implementation of an erosion and sediment control plan, implementation of a spill prevention and contingency plan, and re-fueling stations to be located at least 30 m from watercourses. Additional mitigation measures to protect aquatic features from potential contamination due to snowmelt runoff including the incorporation of bioswale systems, and a monitoring plan are outlined further below. Site specific mitigation measures will be provided during detailed design. - Site 3: the proposed snow storage area is located within approximately 30 m of the watercourse. Mitigation measures to protect fish and fish habitat are recommended in Section 5 of the Natural Environment Report, including, but not limited to, implementation of an erosion and sediment control plan, implementation of a spill prevention and contingency plan, and re-fueling stations to be located at least 30 m from watercourses. Additional mitigation measures to protect aquatic features from potential
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<p>species that are known to stabilize soil and filter runoff, thus providing better protection to the aquatic habitat.</p> <p>4. Regular Monitoring and Maintenance: Establish a schedule for regular monitoring and maintenance of the buffer zone. This includes checking the integrity of the demarcation, the health of the vegetation, and signs of erosion or unauthorized activities.</p> <p>5. Public Awareness and Signage: Install educational signage around the buffer zone to inform the public about its importance for protecting aquatic habitats. The signage should also include prohibitions against activities that could harm the buffer zone.</p> <p>6. Runoff Management Plan: Develop a runoff management plan specifically for the snow storage facility to prevent contaminated snowmelt from entering the buffer zone. This plan should include the construction of physical barriers or diversion structures as needed.</p> <p>7. Emergency Response Plan: Develop an emergency response plan for the buffer zone to quickly address any incidents of contamination or environmental damage, ensuring immediate remedial action can be taken.</p>	<p>contamination due to snowmelt runoff including the incorporation of bioswale systems, and a monitoring plan are outlined further below. Site specific mitigation measures will be provided during detailed design.</p> <ul style="list-style-type: none"> - Site 5: the proposed snow storage area is located at least 250 m away from Lindsay Creek and at least 150 m from the watercourse south of King Street. Mitigation measures to protect fish and fish habitat are recommended in Section 5 of the Natural Environment Report, including, but not limited to, implementation of an erosion and sediment control plan, implementation of a spill prevention and contingency plan, and re-fueling stations to be located at least 30 m from watercourses. In addition to the existing 150 m – 250 m buffers between the proposed snow storage area and adjacent watercourses, mitigation measures to protect aquatic features from potential contamination due to snowmelt runoff including the incorporation of bioswale systems, and a monitoring plan are outlined further below. Site specific mitigation measures will be provided during detailed design. - Site 6: the proposed snow storage area is located at least 250 m from Salt Creek. Salt Creek was identified as providing permanent warmwater fish habitat and habitat for Redside Dace. Mitigation measures to protect fish and fish habitat are recommended in Section 5 of the Natural Environment Report, including, but not limited to, implementation of an erosion and sediment control plan, implementation of a spill prevention and contingency plan, and re-fueling
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		<p>stations to be located at least 30 m from watercourses. ...In addition to the existing 250+ m buffer between the proposed snow storage area and Salt Creek, mitigation measures to protect the watercourse from potential contamination due to snowmelt runoff including the incorporation of bioswale systems, and a monitoring plan are outlined further below. Site specific mitigation measures will be provided during detailed design.</p> <ul style="list-style-type: none">- Site 9: the proposed snow storage area is located at least 300 m away from the Alloa Municipal Drain, which is located outside of the property boundary. Mitigation measures to protect fish and fish habitat are recommended in Section 5 of the Natural Environment Report, including, but not limited to, implementation of an erosion and sediment control plan, implementation of a spill prevention and contingency plan, and re-fueling stations to be located at least 30 m from watercourses. In addition to the existing 300+ m buffer between the proposed snow storage area and the Alloa Municipal Drain, mitigation measures to protect the drainage feature from potential contamination due to snowmelt runoff including the incorporation of bioswale systems and monitoring plan are outlined further below. Site specific mitigation measures will be provided during detailed design. <p>As described in the Stormwater Management Report, conceptual designs for each site will have a bioswale system with filter media that captures the runoff leaving the melt pad, reduces the peak flow and</p>
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		<p>provides water quality treatment. By capturing and slowing down the flow of water leaving the site, bioswales help to reduce erosion in downstream watercourses and help to retain sediment and associated contaminants. Furthermore, another recently developed component is the snow storage facility monitoring plan; the Region will be implementing a monitoring plan that will help to assess the proper functioning of the bioswales over time. The monitoring plan proposes monitoring bioswale water levels, electrical conductivity (indicator of salt presence) and soil chemistry over time. This type of monitoring will provide the information required so that the bioswales can be properly maintained and adaptively managed (adjustments made over time) to mitigate environmental impacts of the snow storage facilities and enhance environmental outcomes.</p>
6	<p><u>Mitigation Measure: Erosion Control Measures</u> Install specific erosion control measures, such as riprap or vegetated swales, along the banks of the watercourse at Site 1. These measures should be designed to minimize erosion and sedimentation into the watercourse, particularly during snowmelt periods.</p> <p>Objective: To effectively implement erosion control measures along the banks of the watercourse at Site 1, minimizing erosion and sedimentation, especially during snowmelt periods, and thus protecting the integrity of the watercourse and adjacent land, in</p>	<p>As documented in the Natural Environment Report, we are in agreement with HDI that mitigation measures must be used for erosion and sediment control. This will help prevent sediment from entering neighbouring properties and natural areas during construction when within 30 m of a watercourse, waterbody or wetland. The primary principles associated with sedimentation and erosion protection measures are to:</p> <ul style="list-style-type: none"> - Minimize the duration of soil exposure, - Retain existing vegetation, where feasible, - Encourage re-vegetation, - Divert runoff away from exposed soils, - Keep runoff velocities low, and

<p>alignment with environmental protection and Haudenosaunee Treaty rights.</p> <p>Strategy:</p> <ol style="list-style-type: none"> 1. Site Assessment and Planning: Conduct a detailed assessment of the watercourse at Site 1 to identify specific areas most vulnerable to erosion. Based on this assessment, develop a comprehensive plan outlining the type, location, and extent of erosion control measures required. 2. Selection of Erosion Control Methods: Choose appropriate erosion control methods such as riprap (rock or other material used to armor shorelines), vegetated swales (shallow, vegetated channels that manage water runoff), and other bioengineering techniques that align with the local ecosystem and are effective in minimizing erosion. 3. Sourcing and Preparation of Materials: Source locally available, environmentally friendly materials for the erosion control measures. Ensure that materials like rocks for riprap or native plants for vegetated swales are of appropriate size, type, and quality. 4. Installation of Erosion Control Measures: Carefully install the selected erosion control measures. For riprap, ensure proper placement and layering of rocks. For vegetated swales, ensure correct planting and establishment of vegetation, considering factors like root depth and water flow. 	<ul style="list-style-type: none"> - Trap sediment as close to the source as possible. <p>Details of the type and placement of sediment and erosion control to be used will be outlined in an Erosion and Sediment Control Plan that will be drafted prior to construction as detail design progresses. The Region can share the erosion control measures as detail design progresses.</p> <p>In terms of monitoring during construction, we are recommending that all erosion and sediment control measures should be inspected weekly, after every rainfall and significant snow melt event, and daily during periods of extended rain or snow melt. In addition, all damaged erosion and sediment control measures will be repaired and/or replaced within 48 hours of the inspection.</p> <p>The Region can share the erosion control measures as detail design progresses.</p>
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	<p>5. Integration with Natural Landscape: Design and implement the erosion control measures in a manner that integrates seamlessly with the natural landscape, preserving the natural aesthetics and ecological functions of the site.</p> <p>6. Monitoring and Maintenance: Establish a regular monitoring schedule to inspect the erosion control measures, especially after significant rainfall or snowmelt events. Conduct maintenance as needed to ensure continued effectiveness of the measures.</p> <p>7. Documentation and Reporting: Keep detailed records of the planning, implementation, and monitoring activities. Regularly report to the Haudenosaunee Development Institute and other stakeholders about the status and effectiveness of the erosion control measures.</p> <p>8. Adaptive Management Approach: Be prepared to adapt and modify the erosion control strategies based on the effectiveness observed during monitoring and in response to changing environmental conditions.</p>	
7	<p><u>Mitigation Measure: Native Vegetation Restoration</u> Native Vegetation Restoration: Initiate a program to plant and nurture native vegetation around Site 1. This would help mitigate habitat disruption caused by the snow storage facility.</p> <p>Objective: To implement a native vegetation restoration program around Site 1, aimed at rehabilitating and enhancing the local ecosystem, thereby mitigating habitat disruption caused by the</p>	<p>Vegetation communities were limited due to the fragmented landscape resulting from human disturbance. Where accessible, AECOM staff delineated vegetation communities. Vegetation community descriptions are presented in Table 3-5 of the Natural Environment Report. AECOM ecologists were unable to record vegetation lists for some communities due to accessibility limitations as indicated in Table 3-5. The flora lists are provided in Appendix C of the Natural Environment Report.</p>

<p>snow storage facility and reinforcing the commitment to environmental stewardship as per Haudenosaunee Treaty rights.</p> <p>Strategy:</p> <ol style="list-style-type: none"> 1. Identification of Native Plant Species: Identify a diverse range of native plant species that are suited to the local climate and soil conditions. Prioritize species that are significant to the Haudenosaunee for their cultural, medicinal, or ecological value. 2. Site Assessment for Planting: Conduct a thorough assessment of Site 1 to determine suitable locations for planting. Areas with the most habitat disruption from the snow storage facility should be prioritized. 3. Soil Preparation and Enhancement: Prepare the soil in the identified planting areas by clearing any debris or pollutants and enhancing soil quality with organic matter if necessary, ensuring a healthy foundation for plant growth. 4. Sourcing of Plant Materials: Obtain plant materials, such as seeds and saplings, from reputable nurseries or conservation groups that specialize in native species. Ensure the genetic integrity of the plants to maintain local biodiversity. 5. Integration with Erosion Control Measures: Coordinate with erosion control initiatives at Site 1 to ensure that the vegetation restoration efforts complement and reinforce these measures, particularly along the watercourse. 	<p>In terms of a restoration strategy, the Natural Environment Report mitigations for vegetation removal, among others, includes that temporarily disturbed areas will be re-vegetated using non-invasive, preferably native plantings and / or seed mix appropriate to the site conditions and adjacent vegetation communities. Seed mixes should contain flowering herbaceous plants to support foraging habitat to pollinators, as well as Common Milkweed for Monarchs, wherever feasible.</p> <p>Further, native plants adapted to the local area will be used as part of the landscape plan, where applicable, to be created as part of detail design. Thank you for providing Appendix 1. The species identified therein but not limited to will be incorporated into the landscape plan to the extent possible at the discretion of the Region.</p> <p>The Region can share the plans for areas that need to be re-vegetated that are temporarily disturbed as detail design progresses, where applicable and requested. This will not apply to snow storage sites that have no anticipated vegetation or tree removals. Tree and/or vegetation removals will be determined during detailed design.</p> <p>In terms of monitoring during construction, there will be onsite inspection undertaken to confirm the implementation of the mitigation measures and identify corrective actions, if required. Corrective actions may include additional site maintenance and alteration of activities to minimize impacts.</p>
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<p>6. Monitoring and Maintenance Program: Set up a long-term monitoring and maintenance program to track the growth and health of the newly planted vegetation. This program should include regular weeding, replacement of unsuccessful plantings, and adjustments based on environmental changes.</p> <p>7. Documentation and Reporting: Maintain detailed records of the restoration efforts, including species planted, areas covered, and growth progress. Periodically report these findings to the Haudenosaunee Development Institute.</p> <p>8. Expansion and Replication: Evaluate the success of the restoration program with the potential to expand it to other areas affected by the project or to replicate it in future projects on Haudenosaunee Treaty land.</p>	<p>We also suggest landscape design incorporates native plants that are more tolerant to salt.</p> <p>We recommend that the landscape design incorporates native plants that are more tolerant to salt where possible.</p> <p>The Region can share the plans for areas re-vegetated that are temporarily disturbed and any landscape plans as detail design progresses.</p>
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Haudenosaunee Development Institute
Our Land, Our Law, Our People, Our Future

TORONTO OFFICE
38 Howard Park Avenue
Unit 154
Toronto, Ontario
M6R 0A7

Proponent Name: Regional Municipality of Peel

Project Name: 13-4007 - Snow Storage Sites Design

This agreement (this "Agreement") is entered into by the Regional Municipality of Peel ("**Peel Region**") and Haudenosaunee Development Institute, Toronto Office ("**HDITO**") (collectively, the "Parties" and each a "Party") as of the ^{27.00} day of September 2024. The purpose of this Agreement is for the Peel Region to provide HDITO with capacity funding for monitors to attend Project site (the "**Monitor(s)**") to monitor environmental and/or archaeological field work ("**Fieldwork**") for the Project and for the review of documents by HDITO in connection with the environmental and archaeological field work required for the Project being coordinated, or undertaken, by Peel Region in accordance with the Rates set out at **Schedule A** attached hereto and subject to **Schedule C** attached hereto.

Note: This Agreement does not in and of itself constitute consultation, engagement, and/or consent for the subject Project(s).

This Agreement is to enable HDITO to provide timely and meaningful comment with respect to upholding commitments and responsibilities arising from the Project. It is understood and acknowledged that all work on the Project will be undertaken in accordance with applicable industry standard requirements, protocols, thresholds, and practices. The terms contained in this Agreement are binding only to this Agreement.

Subject to the below terms and conditions, Peel Region and HDITO hereby agree that Peel Region will provide capacity funding, at the sole expense of Peel Region, to HDITO for the services on the terms set forth herein.

In addition, the Parties agree that the Monitors will be reimbursed for mileage and meals. Amounts invoiced by HDITO in accordance with **Schedule A** shall be payable to **the Haudenosaunee Development Institute, Toronto Office** at the following:

Bank # - 001

Transit # - 37522

Bank Account Number # - 1100-241

Email address for remittance – rae@hdito.com, aaron@detlorlaw.com

1. The Monitors selected by HDITO shall have appropriate qualifications for the work required including training in monitoring, as set forth in **Schedule A**. Upon request by Peel Region, HDITO or the applicable Monitors shall provide written evidence of such Monitors' qualifications to Peel Region. **Schedule B** is provided by HDITO to **Peel Region** and serves as the geographic and legal assertions the Haudenosaunee Confederacy Chiefs Council (HCCC) have over the territory that the Project operates within.

2. The amount billed by HDITO in respect of the Monitoring work shall not exceed the amounts indicated in **Schedule A** and Schedule C attached hereto, with the exception of section 17 of this Agreement.
3. Any issues arising from this Agreement shall be brought to an Issues Management Committee (the "**Committee**"). The Committee shall be struck within five (5) business days, and consensus will be sought. The members of the Committee are as follows and can be delegated to other members of their respective organization:
Name: Aaron Detlor
Title: Director HDITO
Contact Email: aaron@detlorlaw.com
4. Proponent Contact Name: Jagwinder Dhensa
Title: Supervisor, Road Maintenance
Phone (905) 866-9266
Email: jagwinder.dhensa@peelregion.ca
5. The Parties agree that the Monitors are not employees, contractors, or sub-contractors of Peel Region or any of Peel Region's affiliates, or their consultant(s) and that the Monitors will be responsible for their own personal protective equipment, such as hard hats, safety boots, and safety vests, unless specific or otherwise unique personal protective equipment is required, in which case will be provided or reimbursed by Peel Region. All Monitors shall comply with the personal protective equipment requirements on the Project site, including adhering to Peel Region Personal Protective Equipment Standards. Monitors shall follow the reasonable instructions of Peel Region and their consultant(s) conducting the construction work concerning safety practices, and the Monitors will attend "tailgate" safety meetings if requested.
6. Any costs associated with required special or additional training of HDITO Monitors (as determined by Peel Region) shall be borne by Peel Region at the hourly rates specified in the Agreement.
7. Peel Region shall provide payment for the cost of overnight accommodation for Monitors participating in monitoring at locations that would otherwise require more than 90 minutes of travel time at both the beginning and end of the workday, as determined using the Haudenosaunee communities as the place of departure.
8. Peel Region will pay the Monitor a minimum of three (3) hours, plus travel time and mileage, in accordance with **Schedule A** when fieldwork has been cancelled by Peel Region while Monitors are travelling to site or upon arrival.

8. Peel Region or its consultant will coordinate site meeting locations and times directly with HDITO's Monitor Manager and Supervisor. The contact information for the HDITO Toronto Office field supervisor is:

Archaeology

Adam Zachariah

647-526-4704

Email: adam@hdito.com

Environmental

Rae Lumsdon

416-839-5037

rae@hdito.com

9. Peel Region will provide payment by cheque or bank transfer within thirty (30) days upon receipt of invoices. Invoices shall explain in reasonable detail each Monitors time, fees, mileage, and meal expenses, and the nature and date of work performed.

All invoices should be addressed directly to Peel Region and the relevant project name and purchase order number should be noted in the text of each invoice. Invoices to be submitted to the following:

Peel Region email: Jagwinder.Dhensa@peelregion.ca

10. This Agreement shall remain in place for the duration of the Project(s).
11. **This Agreement may be terminated by HDITO upon thirty (30) days written notice to the other Party. Electronic communications constitute written notice.**

Rae Lumsdon

rae@hdito.com

12. HDITO pays Workplace Safety and Insurance Board (“**WSIB**”) contributions in respect of the Monitors and will, at its own expense, maintain for the term of this Agreement (as defined in Schedule “C”) a comprehensive general liability (“**CGL**”) policy or policies with a limit of at least \$1 million and shall provide Peel Region with evidence of such insurance within 30 days of the signing of this Agreement.
13. The Parties agree that this Agreement and any amendments thereto, if any, constitute the entire Agreement between the Parties as to the matters governed hereby and supersede and replaces all prior arrangements, agreements, or understandings with respect to such matters.
14. Each Party represents and warrants to the other that its undersigned signatories are authorized to execute this Agreement on behalf of the respective Party.
15. Both Parties will comply with the *Occupational Health and Safety Act*, R.S.O. 1990, C. 0.1, the *Ontario Human Rights Code*, R. S. O. 1990, c. H.19, and maintain a safe, harassment-free work environment. Nothing in this Agreement subjugates HDITO to this legislation.
16. In the event that artifacts are discovered, Peel Region agrees to work with HDITO to facilitate site visits to allow for the assessment of the heritage value by HDITO, and acknowledges that at times, additional delegates may need to be brought to the site for their relevant expertise from the regions where HDITO currently conducts their day- to-day business operations. Peel Region further acknowledges that it is HDITO's preference that all work ceases on an affected area within a site until HDITO are able to conduct its heritage value assessment.
17. If HDITO is of the view, that designated HDITO staff are unable to complete a comprehensive technical review of Project materials, Peel Region agrees, subject to **Schedule C**, to pay costs

incurred by HDITO to retain an external expert in the appropriate field to be chosen at HDITO's sole discretion. The Parties agree that a review by an external expert will only commence following mutual acceptance by both Parties of an estimate of work and budget provided by the expert. The Issues Management Committee will determine this funding request and will be accepted if reasonable in order to fulfill Peel Region's obligations.

18. It is a condition of this Agreement that Peel Region has the right to release information about this Agreement and the Project.
19. HDITO acknowledges that Peel Region is an institution to which the *Freedom of Information and Protection of Privacy Act* (Ontario) (hereinafter, "**FIPPA**") applies and may have to disclose information relating to this Agreement in the event of an access request made under FIPPA, with the exception of the protection of Indigenous knowledge as laid out in s. 15.1 of the same *Act*.
20. The Parties agree that the Terms and Conditions in Schedule "A" apply to the Parties.
21. This Agreement may be executed in counterparts in either original or electronic form), each of which will be deemed to be an original and all of which when taken together will constitute the same agreement.

**{Signature Page
Follows}**

Signed by:

Haron Dettlor

0E81361309CF470...

Signed on behalf of:

Haudenosaunee Development Institute, Toronto Office

The foregoing accurately reflects the terms of the arrangement which we hereby agree to enter into, and the undersigned agrees to be legally bound hereby.

Accepted at Picton this 2024-09-27 day of _____, 2024.

Signed by:

Lauren Crawford

0ED1C7517AE148B...

Signed on behalf of:

Peel Region

The foregoing accurately reflects the terms of the arrangement which we hereby agree to enter into, and the undersigned agrees to be legally bound hereby.

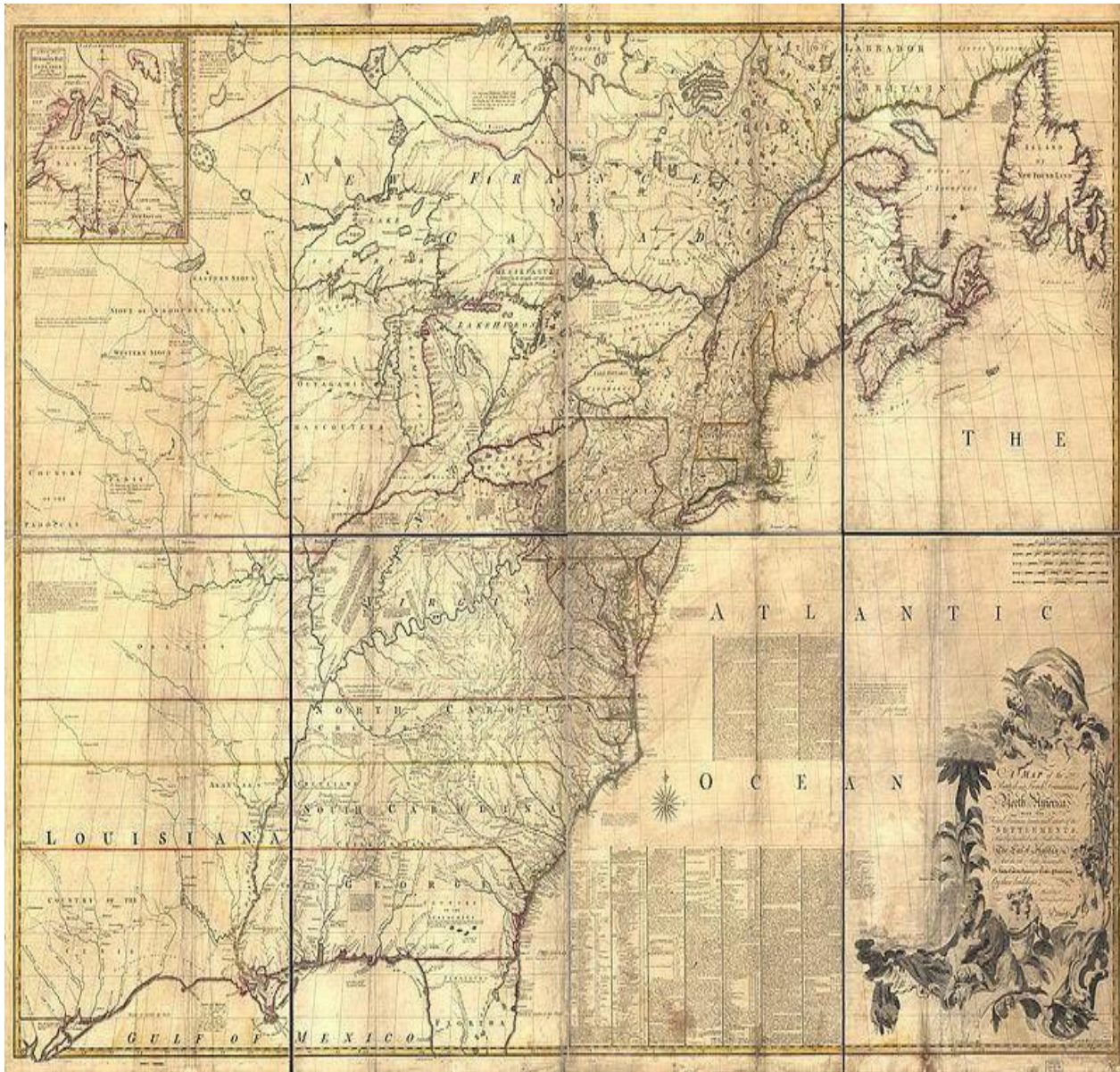
Name: Lauren Crawford
Title: Director of Transportation
Address: 10 Peel Centre Drive, Suite B, 4th Floor
Brampton, ON
L6T 4B9
Contact information: Lauren.Crawford@peelregion.ca

Accepted at Brampton this 2024-10-08 day of _____, 2024.

SCHEDULE A –HDITO MONITOR RATES

<u>Title</u>	<u>Type</u>	<u>Rate</u>	<u>Travel Allowance</u>
Archaeology Consultant	Archaeology Consultant	\$210.00/hr	\$0.59/km
Monitor Manager & Supervisor	Monitor Manager & Supervisor	\$195.00/hr	\$0.59/km
Construction Monitors	Construction Monitor	\$175.00/hr	\$0.59/km
Archaeology Monitors	Archaeology Monitor	\$175.00/hr	\$0.59/km
Environmental Monitors	Environmental Monitor	\$175.00/hr	\$0.59/km
Environmental Consultant	Environmental Consultant	\$210.00/hr	\$0.59/km
Cultural Impact Assessment Team	Cultural Practitioners	\$500.00/day	\$0.59/km
	Cultural Advisors	\$450.00/day	
Technical Level 1	Cumulative Impact Coordinator	\$265.00/hr	\$0.59/km
Technical Level 2	Cumulative Impact Analyst	\$375.00/hr	\$0.59/km
Technical Level 3	Cumulative Impact Expert Report Generation	\$500.00/hr	\$0.59/km

SCHEDULE B – Mitchell Map (1755)



1394-0756-4300, v. 1

SCHEDULE C: TERMS AND CONDITIONS

1. **HDITO's Monitoring of the Project.** Peel Region and HDITO agree that the Monitor(s) will attend at the Project site to monitor the Field Work subject to the following terms and conditions, which terms and conditions, where applicable, shall form part of any employment contract between a Monitor and HDITO:
 - a) A Monitor shall attend at the Project site to observe the Field Work whenever archaeological or other field assessment work is taking place as determined by Peel Region in its sole discretion and based on the schedule of the Project;
 - b) while at the Project site, a Monitor shall follow the reasonable instructions of Peel Region and its agents where such instructions relate to safety and security of the Project, the Field Work or any of Peel Region or its contractors, staff or employees at the site;
 - c) a Monitor when monitoring or observing the Field Work shall comply with all safety practices and site access constraints in place at the Project site. For greater certainty, a Monitor's failure to comply with the health and safety requirements applicable to workers at the Project site may result in the expulsion of the Monitor from the Project site;
 - d) a Monitor shall participate in any site-specific safety training and will use or wear the equipment, protective devices, or clothing that Peel Region requires to be used or worn at the site and the Monitor will be subject to the same provisions as "workers" under the *Occupational Health and Safety Act* (Ontario);
 - e) a Monitor shall, where requested by Peel Region, sign an acknowledgment that they are not an employee of Peel Region;
 - f) a Monitor shall contact a designated designated Peel Region field contact twenty-four (24) hours before each visit to confirm attendance and details of the Project site access, and
 - g) a Monitor shall check in with the designated Peel Region field contact on the day of the Project site visit prior to observing Field Work.
2. **Maximum Funding Amount.** During the Term, the maximum funding amount Peel Region will provide to HDITO for all work under this agreement will be limited to the time spent participating on fieldwork (including travel) with an additional two hours per day per person for report preparation, review of documents and reporting to HCCC entities. It is understood and acknowledged by Peel Region that the two hours per work per day per person of field monitoring may be undertaken by any of the individuals, and their associated rates, as are listed in Schedule "A". If HDITO is of the opinion that the Maximum Funding Amount is insufficient given the unique nature and complexity of the Project, HDITO may provide a workplan and budget for Peel Region's approval. Peel Region would not refuse any reasonable requests for additional funding, but is not obliged to fund any work beyond the Maximum Funding Amount unless pre-approved by Peel Region.

HDITO's Review of the Report(s):

3. **Review Period.** Peel Region will provide HDITO a reasonable time period to conduct its review (the "**HDITO Review**" and the "**Review Period**"). When making a determination of what is reasonable Peel Region will take into account the complexity of the report and supplementary material, Project timelines and any other relevant factors brought to its attention by HDITO. The Parties agree that any initial review by HDITO will not be less than [5] days.
4. **HDITO Reviewers' Qualifications.** HDITO agrees that its review of the reports will be

conducted by persons with appropriate qualifications for the work required as solely determined by HDITO— for example, education in the Haudenosaunee laws, customs, traditions and jurisdiction as they relate to archaeological assessments, environmental sciences. (“**HDITO Reviewers**”).

5. **No Duplication of Payments:** In the event that HDITO has entered into another agreement with Peel Region under which funding is provided for the review of any report(s), the review of those report(s) will not be payable under this Agreement.

General Terms and Conditions:

6. **Form of Invoice.** All invoices shall be in a form satisfactory to Peel Region. Invoices shall explain in reasonable detail a Monitor’s time, fees, reasonable mileage, meal allowance, and nature of work performed.
7. **HDITO Indemnification of Peel Region.** HDITO agrees that it shall indemnify the Peel Region and its directors, officers, employees, agents, contractors, subsidiaries and affiliates (collectively the “**Indemnitees**” and each an “**Indemnitee**”) from and against any and all claims, actions, liabilities, damages, losses, costs and expenses (including reasonable legal fees) (collectively, the “**Losses**”) arising out of:
 - a) the negligent or wilful misconduct of any Monitor, while at the Project site or participating in the Field Work (this indemnification is limited to aggregate Losses of two million dollars);
 - b) any claims by any Monitor that the Monitor was or is an employee of Peel Region; and
 - c) any and all claims or demands under the *Income Tax Act* (Canada), the *Income Tax Act* (Ontario), the Canada Pension Plan, the *Employment Insurance Act* (Canada), including any regulations made under the *Employment Insurance Act* (Canada), and any other statute or regulations for or in respect of any claim or demands under which Peel Region is found liable for failing to withhold income tax, Canada Pension Plan premiums, employment insurance premiums or any other tax premium, payment of levy from all or any part of any amounts paid to the Monitor.
8. **Representations and Warranties of HDITO.** HDITO acknowledges that the Peel Region is relying upon the representations and warranties set out in this Agreement and in connection with its entering into this Agreement HDITO represents and warrants as follows:
 - a) HDITO is responsible for the retention and employment of the services of any Monitor, including with respect to fulfilling all responsibilities as the employer for any Workplace Safety and Insurance Board (“**WSIB**”) contributions, tax and pension or other employment related obligations under any applicable legislation or regions, and the Parties agree and confirm that any Monitor is not and shall not be an employee of Peel Region, or Peel Region’s contractor or its sub-contractors.
 - b) HDITO shall at all times during the Term maintain in place insurance in a form and amount satisfactory to the Region of Peel Region acting reasonably and WSIB coverage with respect to any Monitor.
 - c) HDITO shall at all times during the Term maintain in place all relevant and necessary insurance policy or policies that a person, acting reasonably and carrying on the monitoring work contemplated under this Agreement would maintain, including any insurance expressly noted or required under this Agreement.

9. **Term.** This Agreement shall commence on the Effective Date and continue until the earlier of (a) thirty (30) days after the provision by either Party of a notice of termination; or (b) notification from Peel Region to HDITO that the Field Work has concluded, (the “**Term**”).

10. **Notices.** Any notice, demand or other communication (a “**Notice**”) required or permitted to be given or made under this Agreement must be in writing and is sufficiently given or made if:

- a) delivered in person or by prepaid courier service and left with a receptionist or other responsible employee of the relevant Party at the applicable address set forth below;
- b) sent by mail (except in the case of actual or apprehended disruption of postal service); or
- c) sent by facsimile, email or other form of electronic communication. In the case of a notice to:

Peel Region, addressed to it as follows:

Attention: Jagwinder Dhensa
Telephone No. (905) 866-9266
Email: jagwinder.dhensa@peelregion.ca

HDITO, addressed to it as follows:

Attention: Aaron Detlor
Telephone No.: 647 228 1454
Email: aaron@detlorlaw.com

- d) Any Notice sent in accordance with this Article shall be deemed to have been received:
 - i. if delivered in person or by prepaid courier service during normal business hours (9:00am - 4:30pm) on the date of delivery;
 - ii. if sent by mail, on the fifth (5th) business day after mailing, or, in the case of disruption of postal service, on the fifth (5th) such business day after cessation of that disruption; or
 - iii. if sent by facsimile, email or other form of electronic communication, during normal business hours (9:00am - 4:30pm) on confirmation of transmission,

except that any Notice delivered in person, by prepaid courier service or sent by facsimile, or email or other form of electronic communication not on a business day or after normal business hours (9:00am - 4:30pm) on a business day, in each case in the place where the Notice is received, shall be deemed to have been received on the next succeeding business day in the place where the notice is received. Any Party may change its address for Notice by giving Notice to the other Party. For the purposes of this Agreement, “Business Day” means any working day, Monday to Friday inclusive, but excluding statutory and any other day on which the Region of Peel Region or HDITO has elected to be closed for business.