Request for Proposal

For

Marsh Creek Flood Hazard Mapping in Prince Edward County

Requested by Quinte Conservation Authority
Tuesday, April 8th, 2025

RFP Contact:
Mike Smith
msmith@quinteconservation.ca

Closing:
Thursday, May 8th, 2025 @ 1430

Quinte Conservation
RR#2
2061 Old Highway 2
Belleville, ON
K8N 4Z2

Contents

Introduction

Quinte Conservation (QC) is undertaking a study to update the floodplain maps along Marsh and Macaulay Creek with the support from Prince Edward County, and grant funding from the Flood Hazard Identification and Mapping Program (FHIMP).

We are seeking proposals from suitably qualified consulting engineering firms ("consultants") to provide professional engineering services to perform this work.

Purpose

The purpose of this study is to update the floodplain mapping for Marsh and Macaulay Creek. The project will include all required components to generate flood hazard maps: data collection (geospatial data layers, and field surveying of structures), hydrologic analysis (regional flood frequency analysis) and modeling (using HEC-HMS), hydraulic modeling (HEC-RAS), public consultation and flood hazard mapping.

Background

The current floodplain mapping for Marsh Creek and Macaulay Creek was developed in 1981 which is much older than the 10–15-year review and update cycle recommended in the Ontario Technical Bulletin – Flooding Hazards: Data Survey and Mapping Specifications (Version 1.0) published in December 2023. The mapping should be updated to reflect changes in land use, regulatory storm changes (as per O.Reg. 41/24), and use current climate data. The mapping will adhere to the FHIMP technical guidelines and the FHIMP program guide.

The Marsh and Macaulay Creek watersheds total 5.2 square kilometers. The creeks and their tributaries total approximately 9.2km in length. There are five tributaries in the study area. The lower portion of the Marsh Creek watershed is primarily community/infrastructure as it flows through the residential area of lower Picton and is prone to flooding. The headwaters are primarily agricultural/deciduous trees/coniferous trees. The main channel of Macaulay Creek is quite steep through the urban area. Macaulay Creek drains into Marsh Creek.

Scope of Work

The main purpose of the project is to update the 1981 regulatory floodplain mapping for the Marsh and Macaulay Creek Watershed. The approximate study area for this project is illustrated in Figure 1.0.

The requirements for the Floodplain Mapping Project are outlined in the province's Flood Hazard Identification and Mapping Program – Program Guide. It is noted that Quinte Conservation has applied for Flood Hazard Identification and Mapping Program funding for this project, as a result, the Federal Flood Mapping Guideline Series guidance will be followed. The provincial "Technical Guide – River and Stream Systems: Flood Hazard Limits" will be followed. If there is a discrepancy between the guidelines

the most conservative method will be followed, or the most suitable method must be justified and approved by review agencies.

Climate change shall also be considered in this project, as outlined in the provincial FHIMP Program Guide Document. To better inform flood risk assessment and management at a local level, in addition to the regulatory 100-year and Timmins storm event, the 2-year, 5-year, 10-year, 25-year, 50-year, 200-year, 350-year, shall be analyzed and mapped to determine the magnitude of their impact compared to the regulatory 100-year event.

This study will undertake the necessary fieldwork, hydrologic analysis, and hydraulic analysis to generate and map the regulatory flood lines for the Marsh and Macaulay Creek watershed as outlined in the background section. All components of this analysis shall be consistent with the Ministry of Natural Resources procedures and technical standards and the mapping shall meet or exceed relevant Federal Flood Mapping guidelines.

This proposed floodplain mapping project shall specifically include:

Scope	**Requirement**
Geospatial Reference Systems	Projection system: UTM Zones 15, 16, 17 and 18
	Geometric Reference System: NAD83 (CSRS)
Topographic Analysis	The most relevant and recent topographic information, including but not limited to Digital Elevation Models (DEM) and Digital Terrain Models (DTM), should be applied in all stages of the flood mapping process. Accuracies for these datasets should follow the recommendations set out in the Technical Bulletin - Flooding Hazards: Data Survey and Mapping Specifications (MNR, 2023)
	The elevation profile of the flood control berm along the downstream reach of Marsh Creek shall be surveyed.
Bathymetric Analysis	Bathymetric surveys should be conducted to obtain relevant and required information as outlined in the Federal Hydrologic and Hydraulic Procedures for Flood Hazard Delineation (NRCan, 2023), section 3.41 and appendix 3 of the Technical Bulletin – Flooding Hazards: Data Survey and Mapping Specifications (MNR, 2023). If applicable, professional surveyors and technicians will be employed for the collection of bathymetric data.
	A survey report detailing methods and results of bathymetric survey will be provided, along with the processed bathymetric data.
	Field surveys shall be undertaken with respect to the bathymetry of all channels (including slope, cross-section, vegetated condition, roughness, etc.). All channel elevation shall be referenced to CGVD 2013. Information shall be provided on how to convert the data to CGVD28 since local surveyors continue to use the old datum. Surveys should also be conducted as outlined in the Federal Hydrologic and Hydraulic Procedures for Flood Hazard Delineation.

LIDAR Specifications	DTM Resolution: 0.5m LiDAR Density: ≥8 pls/m² Non-Vegetated Vertical Accuracy: <5 cm RMSE and ≤9.8 cm @ 95% confidence level Vegetation Vertical Accuracy: ≤14.7 cm (95th percentile) The Belleville 2022 LiDAR validation meets the "High" flood risk category as defined in the Federal Airborne LiDAR Data Acquisition Guideline Appendix 2 – Flood Mapping.
Field Investigations	Professional surveyors and technicians will be employed for the collection of field data.
	Field surveys shall be undertaken with respect to all significant channel crossings. QC will not be providing direction regarding the number of crossings that should be completed. Each crossing shall be described on an individual "Crossing Data Sheet". In addition, any beaver dams with large ponds identified during field surveys should be mapped and photographed. All channel crossing elevations shall be referenced to Canadian Geodetic Vertical Datum (CGVD 2013). Information should be provided on how to convert the data to CGVD28 since local surveyors continue to use the old datum. Crossing Data Sheet shall include, but not limited to: a) Name of structure b) Location description and UTM coordinates of structure c) Year of construction and year of most recent repair d) Structure shape and material e) Survey date f) Photos of the upstream and downstream side of the structure g) Key dimensions and elevations including: a. Width b. Length c. Height d. Upstream and downstream invert (for culverts, bridges, and in-line structures with valves) e. Upstream and downstream culverts obverts or bridge lowest chord f. Sill, spillway, sluiceway (winter and summer setting), and deck elevations for dams g. Spillway and sluiceway lengths h. Skew angle h) Grades i) Channel slope j) Plan, and profile drawings with key elevations and dimensions annotated, scale, and direction arrow k) Location of local benchmark, elevation of benchmark in geodetic, and corresponding relative elevation from the previous floodplain mapping and staff gauge (if one is present). This information should be detailed enough to replicate during future field surveys. l) Location and other metadata for nearby brass survey monuments used for vertical elevation control

	o Local benchmarks must be provided for every water crossing (bridge/culvert) o The benchmark must include a precise location described by: UTM coordinates and elevation, detailed description, and photos which would allow surveyors to replicate the survey. Consideration must be given to: the longevity of the benchmark location since the intent is for the benchmark to be used for the next 15-20 years, and The ease of access to replicate the survey. o Survey monuments within the COSINE database should be used where they exist within the study area
	Field investigations should be conducted to obtain relevant and required information as outlined in the Federal Hydrologic and Hydraulic Procedures for Flood Hazard Delineation.
	A survey report detailing methods and results of topographic survey will be provided, along with the processed topographic data and crossing data sheets.
Hydrologic & Hydraulic Analysis	Industry standard practices and hydraulic modelling software should be used to conduct required hydrologic and hydraulic analysis in accordance with Ontario's Technical guides: • Technical Guide – River & Stream Systems: Flooding Hazard Limit (2002) for riverine systems
	Hydrologic and hydraulic models shall be constructed from scratch to ensure any watershed changes have been incorporated. Old model information is available for reference only.
	Characterization of the watershed (including a description of existing land use, soils and topography).
	The selection, rationalization, and utilization of appropriate design storms. Snowmelt (with or without rain) and a rainfall driven event shall both be considered.
	The selection, rationalization, and utilization of an appropriate hydrologic model, sensitivity analysis for model parameters, and verification of hydrologic model using regional flood frequency analysis.
	The selection, rationalization and utilization of an appropriate hydraulic model with the understanding that the hydraulic analysis shall be undertaken utilizing HEC-RAS modeling software. Further, a sensitivity analysis shall be completed within the bounds of realistic model parameter values and boundary conditions.
	Model setup to be included within the report: o Scenarios modelled o Manning's n o Structures information o Schematic of reaches o Boundary conditions
	The following annual exceedance probabilities ("AEP"s) are required for modelling purposes: 50%, 20%, 10%, 4%, 2%, 1%, 0.5%, 0.29% and the Timmins Storm.

	Floodplain maps created to support administration of Section 28 regulations of the *Conservation Authorities Act* must be suitable for use in a regulatory regime.
	Any spills out the floodplain are to be mapped.
	Identification of roads and buildings that are susceptible to flooding, and the depth, velocity, and depth-velocity product.
Climate Change Considerations	An industry standard approach to estimating flood zone variability attributable to climate change must be applied to hydrologic and hydraulic analysis in accordance with: • Provincial Policy Statement (PPS) policy 3.1.3 "Planning authorities shall prepare for the impacts of a changing climate that may increase the risk associated with natural hazards." • the Federal Hydrologic and Hydraulic Procedures for Flood Hazard Delineation, and • the Case Studies on Climate Change in Floodplain Mapping. • FHIMP Program Guide
Minimum Mapped AEPs	FHIMP funding requires a minimum of three flood events with varying magnitude to better inform flood risk assessment and management at the local level. In general, the regulatory flood would be mapped according to the Flood Hazard Criteria Zones of Ontario, as well as a flood event with a magnitude lower than the regulatory flood, and a flood event with a magnitude higher than the regulatory flood. i. Flood Hazard Criteria Zones of Ontario are defined in the Technical Guide – River & Stream Systems: Flooding Hazard Limit (2002): Zone 1: Flood produced by Hurricane Hazel Storm or the 100 Year Flood, whichever is greater ii. Zone 2: The 100 Year Flood iii. Zone 3: Flood produced by the Timmins Storm, or the 100 Year Flood, whichever is greater A flood event of higher magnitude than the flood hazard criteria zone will serve as a proxy scenario for climate change. The higher magnitude event should be equal to or higher than a 200 Year Flood (0.5% AEP). To meet FHIMP and QCs needs, the following map series shall be prepared: • 1:100-year regulatory map (digital and printed) • 1:2-, 1:10-, 1:100-, 1:200, Timmins map (digital and printed)
Geospatial Flood Features	The following features should be provided as georeferenced vectors: • Study area • Flood hazard areas subdivided into: o Direct inundation areas o For two-zone flood plains, floodway and flood fringe sub-polygons
	Furthermore, any geospatial vectors either required for or produced by hydrological or hydraulic modeling should be included. Application or consideration of these attributes produced by hydrologic or hydraulic

	modeling shall be consistent with policies and performance standards outlined in Ontario's Technical Guides. These can include, but are not limited to: • Study domain • Reach lengths • Channel and overbank centre lines • Bank stations and bank lines • Ineffective flow areas, 2D areas, or storage areas • Hydraulic and flood control structures (bridges, culverts, weirs, flood walls, dikes/levees, etc.) • Model cross sections, and/or bathymetry used with all computed flood frequency levels contained as attributes. • Final digital elevation models (DEMs) used in the hydraulic modeling or mapping phase, if applicable
	The following features shall be included as georeferenced raster format: • Water surface elevation • Flood depth • Flood velocity • Depth-velocity product • Other applicable deliverables
Public Information Centre	Arrange, advertise, and participate in one public information centre (PIC) (actual location and date/time to be determined). QC will assist in selecting a venue and advertising using our social media channels. This PIC is to be held once the draft flood lines have been derived. The consultant will lead the open house. Visual aids such as poster boards, and large maps detailing the existing Timmins flood line compared to the updated floodplain mapping results, as well as 1:2, 1:10-year and 1:100-year mapping results shall be used. A table comparing existing and updated 100-year elevations should be prepared. Provisions shall be made to deliver a PowerPoint presentation if an in-person open house cannot be held. Prepare and collect feedback forms made available to the public during the open house and provide an email address or similar means for those who prefer to give feedback electronically. Catalogue verbal and written feedback from the public, address the comments as deemed necessary and include a summary in the final report. The consultation must meet the requirements in Section 4 of O.Reg. 41/24 of the *Conservation Authorities Act*.
Regulatory Flood Hazard Maps & Engineering Report	All drawings submitted under this contract are to be prepared in AutoCAD. The owner will approve the following standards and conventions for drawing size (24"x36"); surround; layering; line weights; line colour; legend; semi-transparent, cloud-free aerial imagery, etc. Drawings shall include: • Title page with drawing number map, • Title block indicating the modelled events, • study limits, • key map, • a scale bar, • scale,

	• CGVD 2013 datum, • date of production, • benchmarks, • north arrow, • contours (5 metre major contours, 1 metre minor contours) • direction of flow arrow, • lot, concession, and ward • drawing match lines (indicating the adjoining drawing page numbers upstream and downstream), • aerial imagery and elevation data information, • cross-sections (lines delineating the cross-section, cross-section number, and associated return period elevations), • table of cross-sections and return period elevations, • table indicating flow change stations, • inline structures denoted on the maps, and bridge and culvert tables (denoting crossing name/number, bridge type/culvert material and shape, invert elevation, the lowest chord elevation/obvert, and the location of measurement). All maps, drawings and reports are to be provided in PDF format. All map/drawing project files can be submitted in .MXD, .APRX, or .DWG file format. QGIS is not a preferred project file format.
Final Report & Deliverables	Prepare and present the project and results to municipal Council, Quinte Conservation Executive Board, or the project technical team as determined by the project technical team.
	General recommendations to mitigate the impacts of the flood hazard on the identified roads, buildings, and structures.
	The associated high-level preliminary costs to implement the recommended flood mitigation measures.
	The provision of digital mapping and one 24” x 36” paper copy map package of the 100-year storm event flood elevations.
	The provision of digital mapping comparing the existing floodplain mapping with the new floodlines.
	The provision of digital mapping and one 24” x 36” paper copy map package of the 2-year, 10-year 100-year, 200-year and Timmins storm event flood elevations.
	Final engineering reports and maps signed and stamped by Project Engineer.

Study Deliverables

The project schedule and invoices shall be broken down into the milestones below. Specific dates can be found in the Project Schedule section.

Project Start Up & Project Methodology – Memo Detailing scope, objectives of study, risk analysis, engagement plan, timeline and expected outputs.

Data Collection Memo & Draft Hydrologic Model – An interim memo detailing project progress, a risk analysis update and schedule update. Memo is to include a detailed scope and methodology to be implemented for data collection, including technical resources, expected location, equipment, collection and processing methods, QA/QC assumptions and expected accuracy. A hydrologic model shall be submitted that is developed for the production of detailed engineering flood hazard maps (including model files, inputs and outputs). The memo shall include pertinent information related to the modeling activities.

Data Collection Report, Interim Report & Draft Hydraulic Model – Report of field surveys or other types of data collection or production, describing the methodology, results and accuracy standards, accompanied by final processed data. Hydraulic model developed for the production of detailed engineering flood hazard maps (including model files, inputs and outputs). Model files delivered should be accompanied by an engineering report or memo pertaining to the modeling activities.

Draft Flood Hazard Maps, Report and Associated Data and Public & Stakeholder engagement – Detailed engineering flood hazard maps that display the results of hydrologic and hydraulic investigation showing areas that could be flooded under a variety of scenarios and conditions, as well as associated engineering reports and data. Geospatial flood features much be provided as a distinct package. Summary of engagement activities and feedback on flood mapping activity products.

Final Products and Invoices – All products shall be submitted and approved by Quinte Conservation and the FHIMP project team. A final invoice showing 100% completion of the project shall be submitted.

Reports, charts, tables and other documents are to be provided in Microsoft Office format and in Adobe Acrobat portable document file format (PDF). Specifically, a PDF version of the complete report and a PDF version of the Executive Summary are required. Spreadsheets shall be provided in Microsoft Excel format.

All photographs documenting any field investigations shall be geolocated and taken using a high-resolution digital camera. All photographs are to be provided both in an original unedited form and annotated with the photo description. The reports shall contain colour copies of the annotated photographs. Copies shall be printed with no more than four (4) photographs per page.

Hydraulic and hydrologic models used in the study are to be provided digitally, including executable code, input data and output clearly annotating the scenario that is modeled. Model summary inputs, runs, and outputs should be provided in the report appendix. User manuals for the models are to be provided in electronic form.

The data and electronic version of the report are to be organized into appropriate directories and subdirectories, and a "README" file(s) included to assist the reader in locating and using the data.

All maps, drawings and reports are to be provided in PDF format. All map/drawing project files can be submitted in .MXD, .APRX, or .DWG file format. QGIS is not a preferred project file format.

Available Data

Quinte Conservation will provide available documentation pertinent to the study. To this end we have completed a preliminary review of the documents and find the reports listed below may be of some assistance. Some data may require the establishment of a data sharing agreement for the duration of the project.

Known Reports or Data

- Floodplain Mapping of Marsh Creek (Cumming Cockburn and Associates Ltd., 1981)
- Marsh Creek – Watershed Management Study (Cumming Cockburn and Associates Ltd., 1983)
- Baseflow field sheets
- GIS Data:
    - Watercourse
    - Waterbodies/Wetlands
    - Imagery
        - SCOOP 2013 – 20 cm resolution; Ministry of Natural Resources
        - SCOOP 2018 – 16 cm resolution; Ministry of Natural Resources
        - DRAPE 2014 – 20 cm resolution; Ministry of Natural Resources
        - DRAPE 2019 – 16 cm resolution; Ministry of Natural Resources
        - SCOOP 2023 – 16 cm resolution; Ministry of Natural Resources
    - Provincial Soil Survey Complex using the Canadian System of Soil Classification
    - Flood Polygon (1:100 year)
    - Elevation Data
        - LEAP 2009 – 1m resolution DEM; 1 metre contour intervals; derived from LiDAR point cloud; Ministry of Natural Resources and Forestry
        - East Ontario - Belleville/Prince Edward 2022 - NRCan/MNRF – meets the "High" flood risk category as defined in the Federal Airborne LiDAR Data Acquisition Guideline Appendix 2 – Flood Mapping; Ministry of Natural Resources and Forestry and or NRCan
    - Buildings (Point & Poly) approximate.
    - Ontario Land Cover Compilation / SOLRIS
- Macaulay Dam Safety Review (KGS Group, 2025)

All non-public data can be found at this link: ON24-026 - Marsh FHM

Project Schedule

As stipulated in agreements with the Government of Canada (Flood Hazard Identification Mapping Program – FHIMP), the project must be fully completed no later than December 31, 2025. An estimated

schedule and work plan must be provided in the proposal with estimated completion dates for the various project milestones and deliverables.

The dates in this RFP are set as a minimum threshold. Any proposal that shows a realistic increased scheduled will be scored accordingly.

The Schedule Milestones are set as a minimum requirement:

Project Start-up, Project Methodology & Data Collection Memo	June 20, 2025
Interim Report & Draft Hydrologic Model	September 1, 2025
Data Collection Report, Draft Hydraulic Model, Draft Maps	October 31, 2025
Final Floodplain Maps & Reports, Public & Stakeholder Engagement	December 1, 2025
Final Products	December 31, 2025

* Allocate 3 weeks of time for external review of draft submissions.

Proposal Submission Requirements

The proposal shall be submitted **no later than the date and time noted below.** Copies of the proposal must be submitted electronically to:

Attention: Mike Smith

Email: msmith@quinteconservation.ca

The proposal shall be limited to 15 pages, not including staff and corporate experience records which may be appended. The proposal shall include:

- Reference QC Project **"Marsh Creek Flood Hazard Mapping"**
- study approach, methodology and modelling software,
- contact person and phone number and people involved in the preparation of the proposal.
- Gantt chart schedule showing activities, meetings, report submissions, etc.
- a list of key staff, their related experience in Ontario and role in this project
- corporate experience on similar projects in Ontario and elsewhere
- sub-consultants to be used, their role, corporate experience in Ontario, key personnel, hourly rates and the mark-up rate to be used.
- estimated project cost for each study component described in the scope of work in the RFP

Any questions regarding the RFP should be emailed to msmith@quinteconservation.ca with the subject **"Marsh Creek Flood Hazard Mapping"**

by the below noted date. An addendum synthesizing all questions and posting the responses will be available on the Quinte Conservation website no later than the date noted below.

The proposal schedule is:

Request for Proposal Posted	Tuesday, April 8, 2025
Questions Due	Thursday, April 24, 2025 @ 10am
Addenda Posted if Required	Tuesday, April 29, 2025
Project Request for Proposal Closes	Thursday, May 8th, 2025 @ 1430

Evaluation Criteria

QC will review the proposals as expressions of interest based on a consistent evaluation criterion.

Criterion	Weighting
Understanding and meeting project requirements	40%
Project team experience related to project	30%
Project cost	30%

General Terms and Conditions

Acceptance of Proposals

This RFP is not an offer to enter into any contract or Project Agreement of any kind whatsoever. This RFP is not intended to create a binding contract. This RFP process shall be governed by and construed in accordance with the laws of the Province of Ontario and the federal laws of Canada applicable therein.

This RFP document or addenda to the RFP document contains the entire requirements related to the RFP. Other information and/or documentation provided to the Proponent or obtained by the Proponent prior to the release of the RFP shall not have any force or effect.

Rejection of Proposals

The selection committee reserves the right to reject any or all proposals for failure to fully satisfy the specifications and requirements of the RFP.

Any award resulting from this RFP is subject to the successful completion of a contract between the consultant and QC.

Right to Amend

QC reserves the right to amend or supplement the RFP, giving equal opportunities to all consultants who have bid, by way of an issued addendum.

Acceptance or Non-Acceptance of Proposal

Neither the lowest priced nor any proposal shall necessarily be accepted, and the decision of the selection committee is final. If the selection committee decides to accept a proposal, then this acceptance and the making of an award will be in writing. Unless and until such written notification has been given, there is no successful consultant and no award has been made.

Associated Costs

There will be no payment to consultants for the work related to and material supplied in the preparation of responses to this RFP.

Confidentiality & Ownership of Documents

The consultant is advised that confidentiality issues may arise with respect to this project and will need to be cognizant of these issues.

The IP "Intellectual Property" contained in this RFP is confidential and proprietary. This RFP and any supplemental IP made available by QC to facilitate the proposal scoping is provided for the exclusive use of the Respondent (potential "Contractor") and copies shall not be made available to any other party, without written consent from QC. No other distribution of submissions or proposals is to be made by the Respondent. All proposals and supporting documentation shall become the property of QC and will not be returned.

It is acknowledged and agreed by the Respondent that QC owns and retains all right, title, and interest in and to all IP rights therein, including, without limitation, all copyright, patent, trade-mark and trade secret rights. This RFP does not constitute a sale of the IP provided during the course of the RFP process. The Respondent acquires no right in or to the IP except the right to use the IP in accordance with the RFP guidelines.

IP arising as a result of a successful RFP and a subsequent contract, including reports and drawings, will be the property of QC.

The Respondent shall indemnify and save QC and Licensor partners harmless from and against any and all liabilities, damages, costs, or expenses awarded against, or incurred, or suffered by the Consultant, arising out of any action or proceeding commenced or maintained by any customer, or any other person, firm, corporation, or other entity, in respect of the use of the IP by the Respondent, or a third party, to whom the Respondent has been permitted by QC to disclose the IP, pursuant to the provisions hereof.

Information Ownership

"All information collected and produced in report or digital form by the respondent shall become the property of Quinte Conservation and subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act. All public reports approved by the Full Authority Board will become public information."

Insurance

The successful bidder shall carry and maintain insurance written by an insurance company licensed to do business in Ontario for the term of the contract and must provide for the following:

1. Workplace Safety & Insurance Board (WSIB) clearance certificate
2. General Liability Insurance – minimum $2 million coverage with Quinte Conservation Authority as an additional insured
3. Automobile Liability – minimum $2 million coverage

4. Professional Liability - minimum $2 million coverage

All policies and certificates shall provide for 30 days notification to Quinte Conservation Authority in the event of cancellation, reduction in limits or changes in coverage.

Previous Communications

This RFP document and attachments and any addenda contain the entire requirements relating to this RFP. Other information and/or documentation provided to a prospective consultant or obtained by a prospective consultant prior to the release of this RFP or any other time shall not have any force or effect.

Conflict of Interest

Each Proponent representative, on behalf of the team members must declare and continue to be under an obligation to declare all Conflicts of Interests or any situation that may be reasonably perceived as a Conflict of Interest that exists now or may exist in the future.
In connection with its RFP Submission, each Proponent shall:

i avoid any Conflict of Interest in relation to the Project;

ii disclose to QC without delay any actual or potential Conflict of Interest that arises during the RFP process; and

iii comply with any requirements prescribed by QC to resolve a Conflict of Interest.

In addition to all contractual or other rights or rights available at law or in equity or legislation, QC may immediately exclude a Proponent from further consideration or remove the Proponent from the RFP process if:

i the Proponent fails to disclose an actual or potential Conflict of Interest;

ii the Proponent, or any Team member fails to comply with any requirements prescribed by QC to resolve a Conflict of Interest; or

iii the Proponent's Conflict of Interest issue cannot be resolved.

Upon receipt of the Proponent's submission, QC shall, in its discretion, decide as to whether they consider there to be a real, perceived or potential Conflict of Interest and whether such a Conflict of Interest can be mitigated. The proponent shall be notified of QC's decision.

Cancellation of RFP

Due to unanticipated expenditure constraints, this RFP may be cancelled at any time without liability by QC to prospective consultants or to any other entity.

Authorization

To be considered a valid response, a consultant's submission must be completed and signed by an authorized company official.

Irrevocable

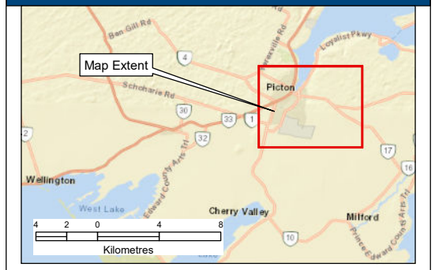
Bid submissions will be irrevocable for a period of sixty days from the closing date.

Accessibility

The supplier covenants and agrees to ensure that the Deliverables provided hereunder are consistent with the Ontario Human Rights Code ("OHRC"), the Ontarians Disabilities Act, 2001 ("ODA") and the Accessibility for Ontarians with Disabilities Act, 2005 ("AODA") and their

respective regulations in order to achieve accessibility for Ontarians with disabilities. Without limiting the generality of the foregoing, the Supplier covenants and agrees to comply with QC's and the Township's accessibility standards, policies, practices and procedures, as same may be in effect during the term of the Agreement and apply to the Deliverables to be provided hereunder by the Supplier.

KEY MAP



LEGEND / NOTES

Marsh/Macaulay Creeks - Floodplain Mapping Requirements

- Required Reach
- Study Area
- Lower and Single Tier Municipality
- Single Tier - PEC Ward

NORTH

400 200 0 400 800
Metres

01	Release for RFP	06/03/25
No.	REVISION	DD/MM/YY

Quinte CONSERVATION

DEPARTMENT:
Water Resources

TITLE:
- Figure 1 -
Required floodplain mapping reaches, Marsh/Macaulay Creeks

SCALE:	1:20,000
SHEET:	1 of 1
DRAWING:	C.V.
CHECK:	M.S.

Moira River, Napanee Region and Prince Edward Region Watersheds.
RR # 2, 2061 Old Highway # 2, Belleville, Ontario, K8N 4Z2.
www.quinteconservation.ca, 613-968-3434
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Digital Mapping Sources:
Base Map - Ontario Ministry of Natural Resources
Imagery - 2008 Copyright © of Aero-Photo (1961) Inc.
- All Rights Reserved
Imagery - DRAPE 2019 Ontario Ministry of Natural Resources
Imagery - SCOOP 2018 Ontario Ministry of Natural Resources
Imagery - SCOOP 2023 Ontario Ministry of Natural Resources
Key Map - ArcGIS Online Services

Original Document: 11 x 17 in

Path: E:\Projects\WR-FH\MP\2024\Applications\Figure1_RFP_ Marsh-MacaulayCreek_Rev01_20250306.mxd