

Welcome

Six Mile Creek Flooding
Municipal Class Environmental
Assessment

Public Information Centre No. 1

Crystal Ridge Library
December 14, 2023
5:00 p.m. to 7:00 p.m.

Please sign in and take a comment sheet.



Public Information Center No. 1

We want to hear from you!

- This PIC provides the first opportunity for the public to provide input on the project.



Why are we holding this PIC?

- We need to compile a comprehensive database of flooding issues and concerns in the Six Mile Creek area based on local resident insight.
- The public input we receive at this PIC and through the comment sheets will become a cornerstone of the project. It will inform and direct:
 - Coastal and riverine flood modelling
 - Coastal flooding is caused by high water levels in Lake Ontario
 - Riverine flooding is caused by high flows in Six Mile Creek
 - Development and assessment of alternatives
 - Development of the implementation strategy



Six Mile Creek Flooding Municipal Class EA

The specific objectives of the Study are to:

- Determine the cause of flooding within the Six Mile Creek watershed
- Review the performance of existing drainage infrastructure servicing the study area
- Identify drainage and infrastructure improvements to reduce the potential for flooding
- Suggest a preferred financing strategy for the preferred solution



Study Background



The Six Mile Creek encompasses a significant portion of the community of Thunder Bay.

Residents of the area have identified chronic flooding, and the Town of Fort Erie has initiated this study to investigate the cause and recommend improvement works.

For decades, the area has experienced several major storms leading to localized flooding along Shirley Road. Related concerns persist, with nuisance yard/street flooding occurring as recently as December 2022.

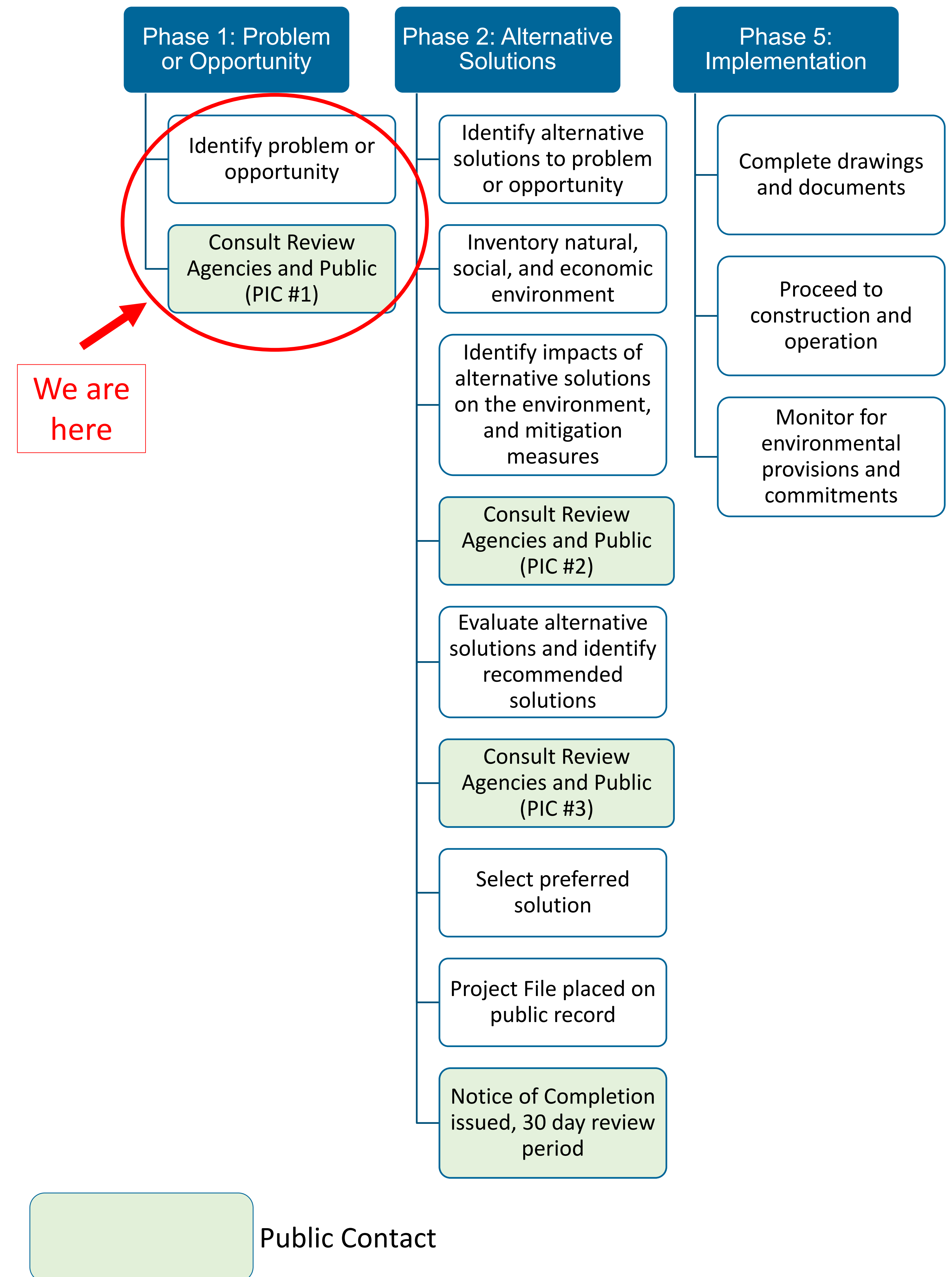
The Municipal Class Environmental Assessment (EA) provides a comprehensive decision-making framework to ensure that all relevant engineering, environmental and cultural heritage features are considered when developing improvement alternatives. The process requires public and agency involvement throughout.

Six Mile Creek Study Area



Municipal Class EA Process

- This project is being completed following Schedule B of the Municipal Class Environmental Assessment Process.
- Schedule B projects include Phases 1 and 2 of the Environmental Assessment process. Once these phases of the process are complete the study recommendations can proceed to Implementation (Phase 5).
- The Six Mile Creek Flooding EA Study is facilitating additional consultation (this PIC) to help identify problems and opportunities and refine the study area before undertaking the necessary background studies to support the development of improvement alternatives.
- Phase 5 will be implemented at the discretion of Town council.



Proposed Study Area Investigations

Hydrologic analysis of study area

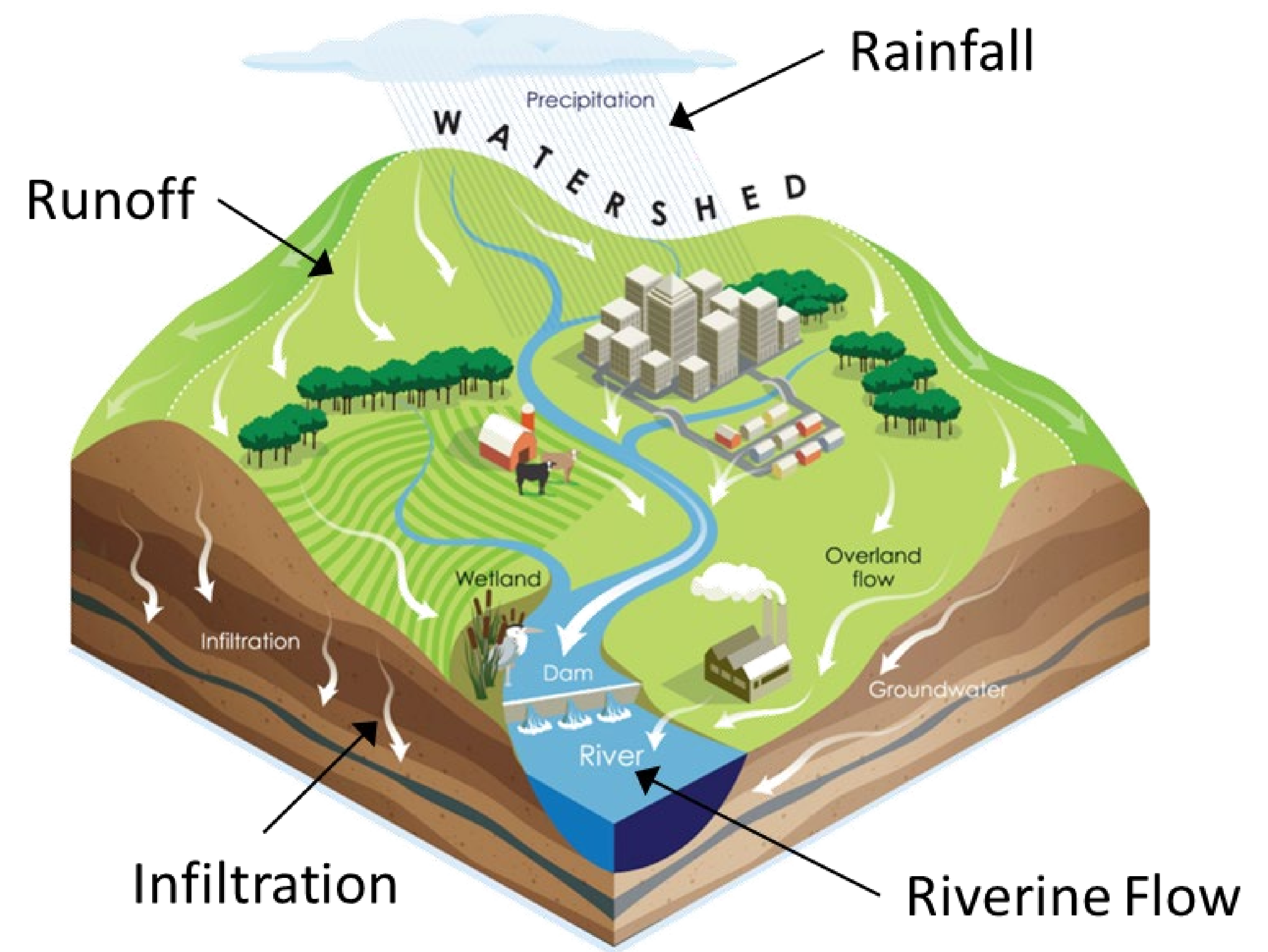
Hydraulic analysis of existing drainage and surface water management infrastructure, including considerations of coastal and riverine flooding interactions

Flooding survey investigation and discussions with residents

Cultural heritage and archeological screening

Geotechnical and hydrogeologic desktop characterization studies

Drainage and surface water management infrastructure
Level of Service assessment



- Hydrology is the study of water movement both on and under the Earth's surface.
- Hydrologic modelling is used to estimate runoff and flows for use in flood risk assessments
- Hydraulic analysis is the study of flow paths and water depths for specified runoff and flow amounts.

Next Steps

Six Mile Creek Flooding Study

- complete background investigations
- use input to develop study “Problem and Opportunity Statement”
- develop Alternative Solutions
- present the Alternative Solutions and recommendations at a future PIC
- finalize recommended solution and flooding mitigation strategy
- seek necessary agency approval and finalize the EA project report

Future Work

- complete an Enhanced Conceptual Design of mitigation strategies
- following Council approval of the EA and once funding has been secured, the Town may commence with the implementation of the EA recommendations



Project Schedule

Project Initiation and Initial Consultation Process (PIC No. 1)	Fall 2023
Study Area Investigations	Winter 2024 into Spring 2024
Development of Mitigation Alternatives and Public Information Centre (PIC No. 2)	Spring 2024
Evaluation of Alternatives and Public Information Centre (PIC No. 3)	Summer 2024
Completion of EA Process and Enhanced Conceptual Design	Summer 2024 into Fall 2024
Implementation of the EA Recommendation	Stay tuned for the recommendations of the study!

Tell Us About Your Flooding Concerns and Observations!

Help us understand the location, source and frequency of flooding events that have impacted your residence and property.

Your input is **ESSENTIAL** to help develop a database of flooding locations and concerns!

Please use the note pads and markers to illustrate where you have observed flooding within the Six Mile Creek area.

Please take a copy of the flooding survey and fill it out to the best of your knowledge. Or fill out the online version at <https://letstalk.forterie.ca>

Our project team is here to answer any questions you might have!

Further study information is available at:
<https://letstalk.forterie.ca/>.

Comments from this evening's PIC will be received until January 31, 2024.

For additional information, please contact:

Lisa Vespi, P.Eng., PMP
Project Manager, Town of Fort Erie
LVespi@forterie.ca
Phone: 905-518-4770

Nicholas Krygsman, P.Eng.
Project Manager, Matrix Solutions Inc.
NKrygsman@matrix-solutions.com
Phone: 226-812-0479

Thank you for attending!

