Mississauga Reinforcement Project

Information Session #2

September 9 to September 20, 2024

Stantec

ENBRIDGE
Life Takes Energy®

Mississauga Reinforcement Project Information Session #2

Welcome

- Press the next button to navigate to the next slide at any time.
- To return to the previous slide, press the previous button.
- You can mute the audio at any time by pressing the speaker icon.
- The presentation slides, as well as the audio script, are available for download (see the Resources tab in the top right corner).
- Questions and comments can be submitted using the questionnaire found in the Resources tab.
- If you would like to receive future project updates, please complete the “Contact Information" section of the questionnaire.

Stantec

ENBRIDGE
Life Takes Energy

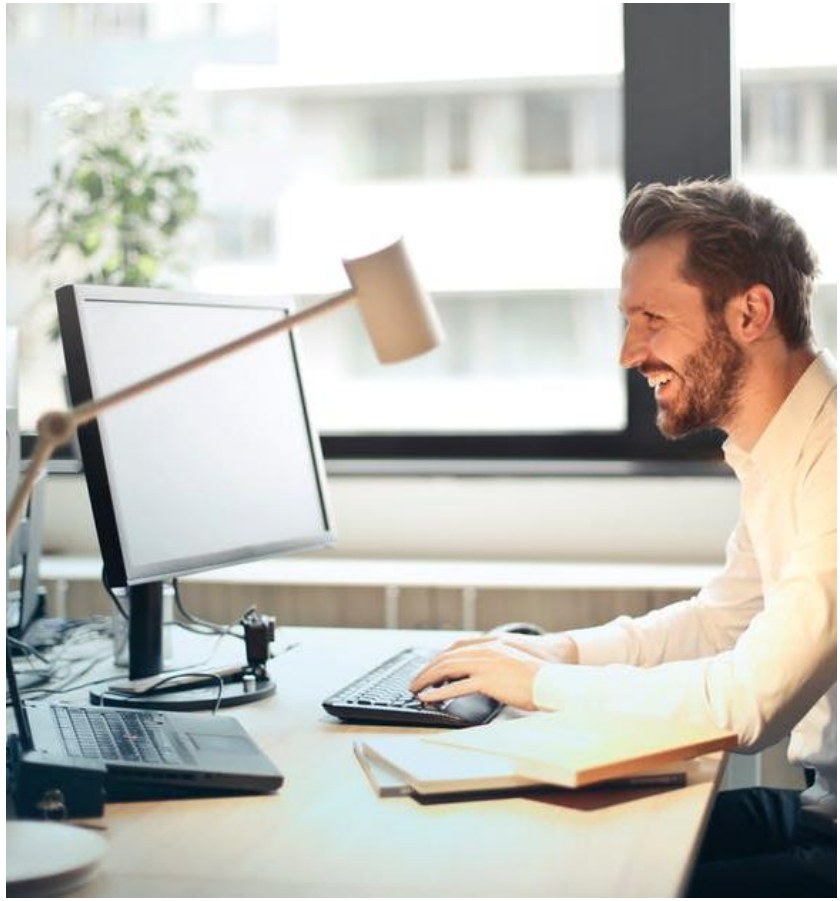
Enbridge Gas' Commitment

Enbridge Gas is dedicated to engaging with Indigenous communities, agencies, interest groups, and community members. They commit to providing up-to-date information in an open, honest, and respectful manner while carefully considering your input. With over 3.9 million residential, commercial, and industrial customers, Enbridge Gas is committed to delivering natural gas safely and reliably. Environmental stewardship is also a top priority for Enbridge Gas, and they conduct their operations in an environmentally responsible manner.

Mississauga Reinforcement Project Information Session #2

Purpose of the Information Sessions

- Consult with Indigenous communities and engage with members of the public and regulatory authorities regarding the proposed preferred pipeline route, potential impacts, and proposed mitigation.
- Provide an opportunity for these individuals and any affected landowners and the public to review the proposed project, and to ask any questions and/or provide comments to representatives from Enbridge Gas and Stantec.



Stantec

ENBRIDGE
Life Takes Energy

Mississauga Reinforcement Project Information Session #2

Enbridge Gas' Engagement with Indigenous Peoples

Enbridge recognizes the diversity of Indigenous peoples who live where we work and operate. We understand that certain laws and policies have had destructive impacts on Indigenous cultures, languages, and the social and economic well-being of Indigenous peoples. We also recognize the importance of reconciliation between Indigenous peoples and broader society. We are committed to building positive and sustainable relationships with Indigenous peoples based on trust and respect and focused on finding common goals through open dialogue.

The Indigenous engagement program is based on adherence to the OEB's Guidelines and Enbridge Inc.'s company-wide Indigenous Peoples Policy, which Enbridge Gas follows. Enbridge's Indigenous Peoples Policy lays out key principles for establishing relationships with Indigenous groups, including:

- Recognizing the importance of the United Nations Declaration on the Rights of Indigenous Peoples in the context of existing Canadian law
- Recognizing the legal and constitutional rights possessed by Indigenous peoples in Canada and the importance of the relationship between Indigenous peoples and their traditional lands and resources;
- Engaging early to achieve meaningful relationships with Indigenous groups by providing timely exchanges of information, understanding and addressing Indigenous project-specific concerns, and ensuring ongoing dialogue regarding its projects, their potential impacts and benefits.
- Aligning Enbridge's interests with those of Indigenous peoples through meaningful, direct Indigenous economic activity in projects corresponding to community capacity and project needs, where possible.

Stantec

ENBRIDGE
Life Takes Energy

Mississauga Reinforcement Project Information Session #2

Project Overview

Enbridge Gas is proposing to build a new 6-inch steel natural gas pipeline and related customer facilities to meet the requirements of its existing commercial customers. Enbridge Gas will also be rebuilding two existing customer stations on the customers' properties and building a feeder station along Lakeshore Road West.

This proposed pipeline project is designed to meet the needs of existing customers that require additional natural gas to support their growth, and/or are looking to upgrade their current energy source to natural gas.

Enbridge Gas is currently proceeding with the Preliminary Preferred Route presented during the first virtual information session. The Preferred Route would consist of approximately 3.1 kilometers of 6-inch diameter natural gas pipeline. Beginning at Winston Churchill Boulevard and Royal Windsor Drive, the route will travel along Winston Churchill Boulevard towards Lakeshore Road for about 2.2 kilometers. The route then turns northeast and travels along Lakeshore Road West for about 0.9 kilometers.

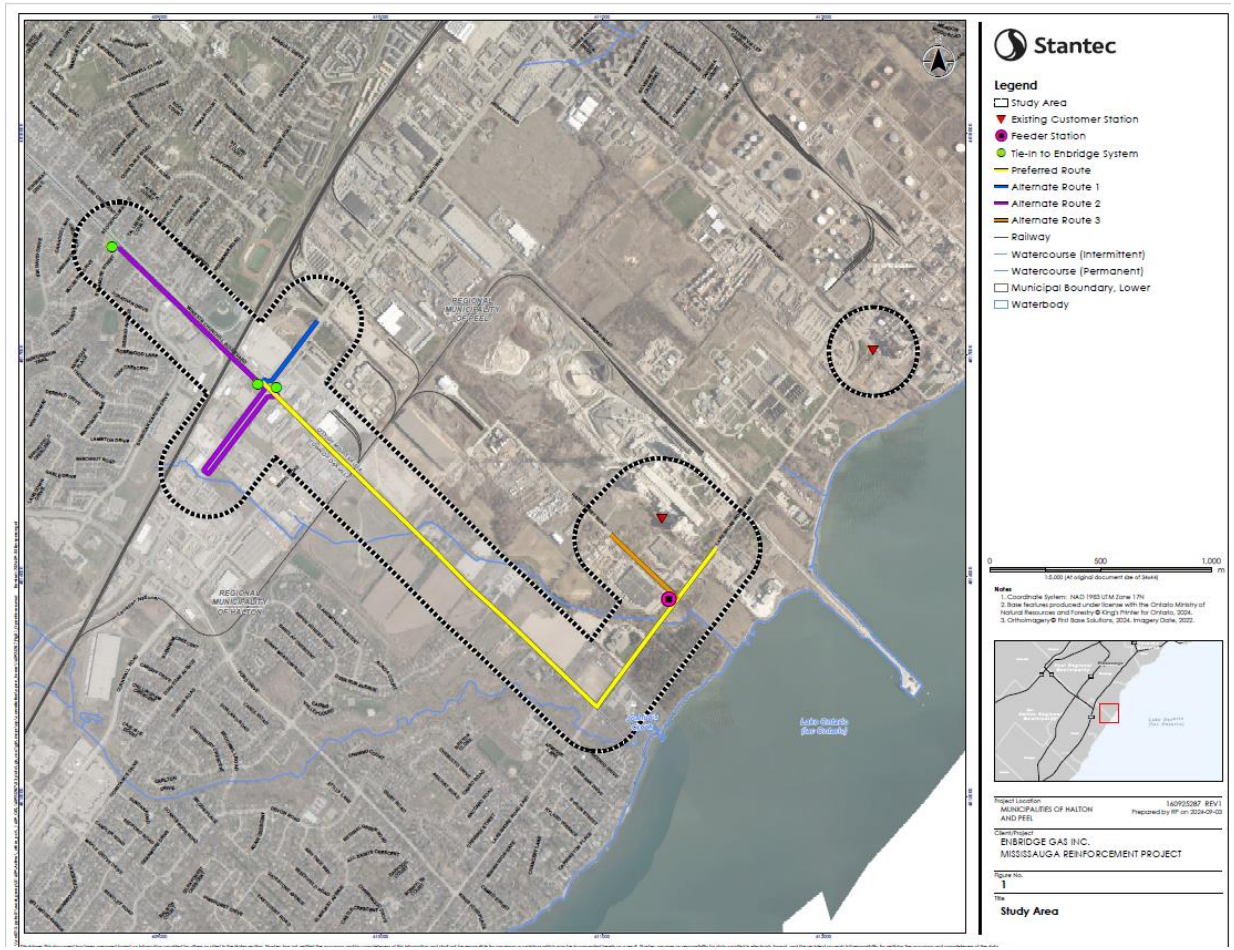
Stantec

ENBRIDGE
Life Takes Energy

Mississauga Reinforcement Project Information Session #2

Project Overview

- The Preferred Route has been developed for the purpose of an assessment of potential environmental and socio-economic impacts.
  - An additional pipeline located on Hazelhurst Road has been added as Alternative Route 3.
  - A feeder station will be built near Lakeshore Road West northeast of Winston Churchill Boulevard.
- Two existing customer facilities will be rebuilt on the customers' properties



Stantec

ENBRIDGE
Life Takes Energy®

Mississauga Reinforcement Project Information Session #2

Route Alternatives

All Alternatives would require the following:

- Rebuilding two existing Enbridge Gas customer stations, located entirely on existing customer properties.
- A new natural gas service pipeline may need to be constructed on the customer's property to connect to the future new customer station (to be determined).
- A feeder station to be built near Lakeshore Road West to the east of Winston Churchill Boulevard.

Preferred Route

- Consists of approximately 3.1 km of 6-inch diameter natural gas pipeline.
- Starts at Winston Churchill Boulevard and Royal Windsor Drive, will travel along Winston Churchill Boulevard to Lakeshore Road for about 2.2 km.
- Ends south of one existing Enbridge Gas customer property.

Alternate Route 1

- Consists of approximately 0.35 km of 8-inch diameter natural gas pipeline.
- Starts at Winston Churchill Boulevard and Royal Windsor Drive, will travel northeast for about 0.35 km along Royal Windsor Drive.
- Ends at a tentative location where a new natural gas distribution station would be constructed.

Also required for this route:

- Purchase of private land (at least 40m x 40m footprint) for construction of a new natural gas distribution station.
- Decommissioning an existing natural gas distribution station near the intersection of Winston Churchill Boulevard and Royal Windsor Drive.

Stantec

ENBRIDGE
Life Takes Energy

Mississauga Reinforcement Project Information Session #2

Route Alternatives

Alternate Route 2

- Consists of approximately 2.20 km of a 12-inch natural gas distribution pipeline. Approximately 2.2 km of 12-inch diameter natural gas pipeline.
- Starts on west side of Winston Churchill Boulevard near Stockholm Road and travels south for approximately 1.35 km to Royal Windsor Drive.
- Continues west along north side of Royal Windsor Drive for approximately 0.42 km to a tentative location where a new natural gas distribution station would be constructed.
- Approximately 0.48 km of 12-inch diameter natural gas pipeline would also be constructed, starting at the new distribution station and traveling east to the southeast corner of the intersection of Winston Churchill Boulevard and Royal Windsor Drive.

Also required for this route:

- Purchase of private land (at least 40m x 40m footprint) for construction of a new natural gas distribution station
- Decommissioning an existing natural gas distribution station near the intersection of Winston Churchill Boulevard and Royal Windsor Drive

Alternate Route 3

- Consists of approximately 420 m of a 6-inch diameter natural gas pipeline.
- The pipeline would begin at the Preferred Route pipeline on Lakeshore Road West and would travel northwest on Hazelhurst Road
- If Alternate Route 3 is selected, the portion of the Preferred Route that is located northeast of Hazelhurst Road would not be needed

Stantec

ENBRIDGE
Life Takes Energy

Mississauga Reinforcement Project Information Session #2

Route Selection Process

- Pipeline routing constraints include natural environmental features, topography, socio-economic features and landscapes and land availability.
- Opportunities to reduce potential impacts include the ability to follow existing linear infrastructure such as road allowances and utility corridors.
- The Preferred Routes and Alternate Routes follow existing linear infrastructure, such as existing municipal road allowances and avoid, to the extent possible, existing environmental and socio-economic features.
- An interactive map that shows these routing alternatives can be accessed at: www.solutions.ca/MississaugaReinforcementEA

Stantec

ENBRIDGE
Life Takes Energy

Environmental Study Process

As part of the planning process, Enbridge Gas has retained Stantec to undertake an Environmental Study for the project. The Environmental Study will fulfill the requirements of the Ontario Energy Board's (OEB) "*Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Projects and Facilities in Ontario, 8th Edition (2023)*".

The study will:

- Undertake engagement to understand the views of interested and potentially affected parties.
- Consult with Indigenous community to understand interests and potential impacts.
- Be conducted during the earliest phase of the project.
- Identify potential impacts of the project.
- Develop environmental mitigation and protective measures to avoid or reduce potential impacts.
- Develop an appropriate environmental inspection, monitoring, and follow-up program.

OEB Review and Approval Process

It is anticipated that the Environmental Report (ER) for the study is scheduled to be completed in **Q4 2024.** Once complete, Enbridge Gas plans to file a Leave-to-Construct application for the project with the Ontario Energy Board (OEB). The application to the OEB will include the following information on the project:

- The need for the project
- Environmental report and mitigation measures
- Project costs and economics
- Pipeline design and construction
- Land requirements
- Consultation with Indigenous community

The OEB's review and approval are required before the proposed project can proceed. If approved, construction could begin in **Q2 2026.**

Additional information about the OEB process can be found online at: https://www.oeb.ca/

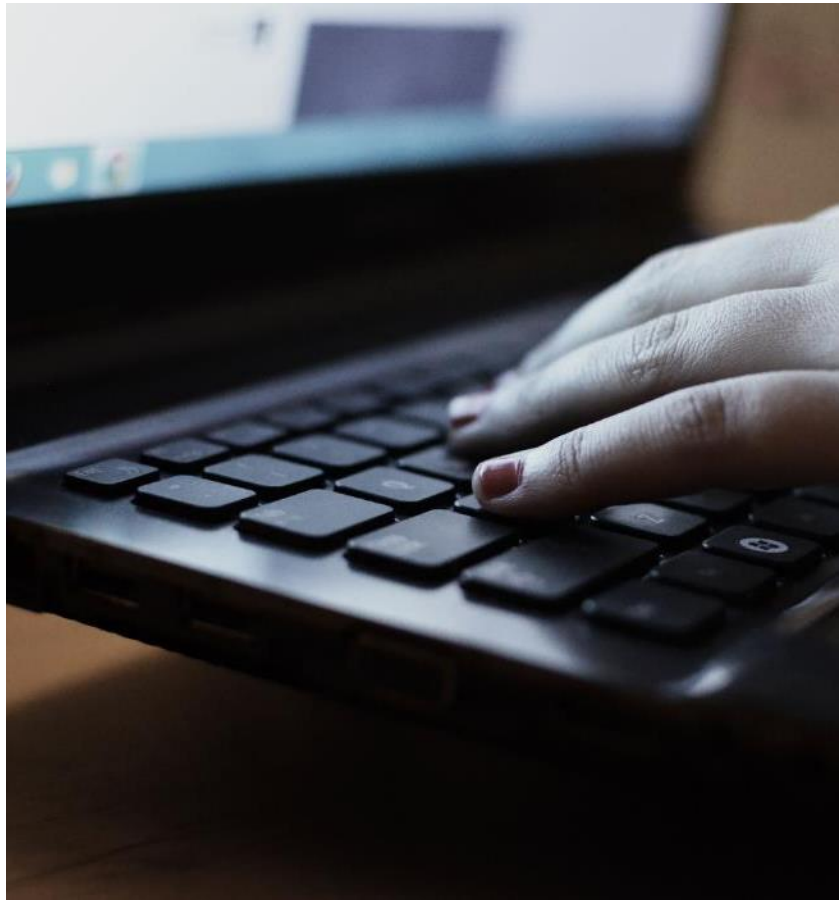
Stantec

ENBRIDGE
Life Takes Energy

Mississauga Reinforcement Project Information Session #2

Consultation and Engagement

- Consultation and engagement are key components of the ER.
- At the outset of the project, Enbridge Gas submits a Project Description to the Ministry of Energy and Electrification. Upon review, the Ministry of Energy and Electrification determines potential impacts on Aboriginal or treaty rights and identifies Indigenous communities that Enbridge Gas will consult with during the entirety of the project.
- The consultation and engagement program helps identify and address Indigenous community and stakeholder concerns and issues, provides information about the project to the stakeholders and allows for participation in the project review and development process.
- Input during engagement and consultation will be used to help finalize the pipeline route and mitigation plans for the project.
- Once the Leave-to-Construct application is made to the OEB, any party with an interest in the project, including members of the public, can participate in the process.

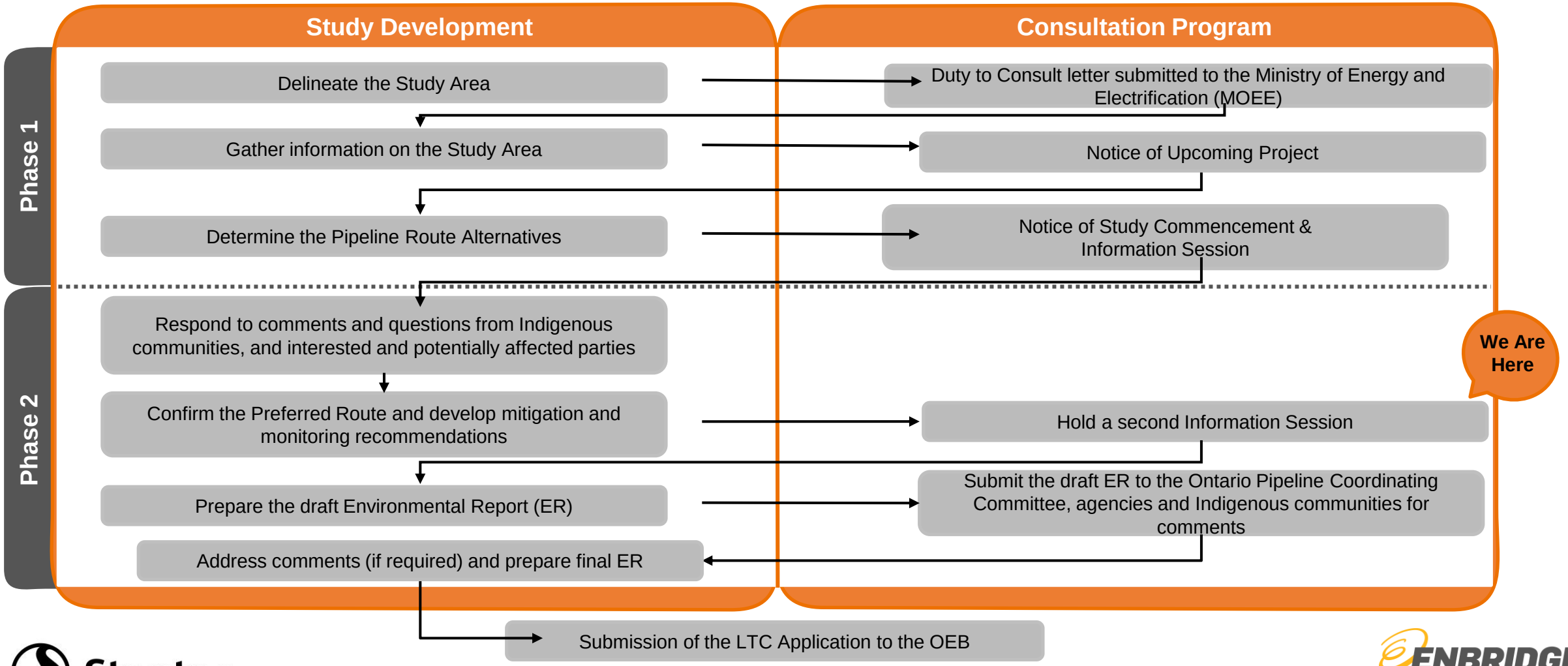


Stantec

ENBRIDGE
Life Takes Energy

Mississauga Reinforcement Project Information Session #2

Environmental Study Process



Stantec

ENBRIDGE
Life Takes Energy

Environment, Health and Safety Policy

Our Commitment

- Enbridge Gas is committed to protecting the health and safety of all individuals affected by our activities.
- Enbridge Gas will provide a safe and healthy working environment and will not compromise the health and safety of any individual.
- Our goal is to have no incidents and mitigate impacts on the environment by working with our stakeholders, peers, and others to promote responsible environmental practices and continuous improvement.
- Enbridge Gas is committed to environmental protection and stewardship and recognizes that pollution prevention, biodiversity, and resource conservation are key to a sustainable environment.
- All employees are responsible and accountable for contributing to a safe working environment, for fostering safe working attitudes, and for operating in an environmentally responsible manner.

Access and Land Requirements

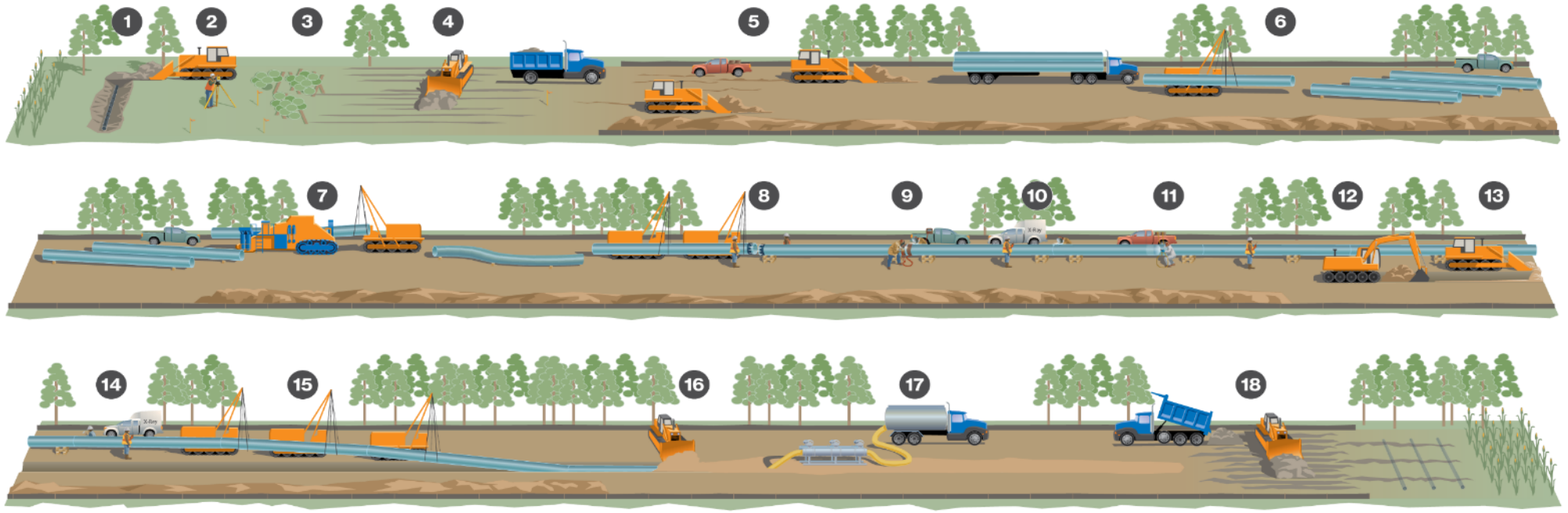
While most of the pipeline route will be constructed within the municipal road allowance, some circumstances requiring access agreements, permanent easement or temporary working space during construction could result in the need for additional land outside of the road allowance.

Enbridge Gas has a comprehensive Landowner Relations Program that uses a dedicated Lands Advisor who would:

- Provide direct contact and liaison between landowners and Enbridge Gas.
- Be available to the landowner during the length of the project and throughout construction activities.
- Act as a singular point of contact for all landowners, and address concerns and questions.
- Address any legal matters relating to the temporary use of property, access agreements, permanent easements, and impacts or remedies to property.

Mississauga Reinforcement Project Information Session #2

Constructing an Enbridge Gas Pipeline



1. Pre-construction tiling
2. Surveying and staking
3. Clearing
4. Right-of-way topsoil stripping
5. Front-end grading
6. Stringing pipe
7. Field bending pipe
8. Lining-up pipe
9. Welding process
10. X-ray or ultrasonic inspection, weld repair
11. Field coating
12. Digging the trench
13. Padding trench bottom
14. Final inspection and coating repair
15. Lowering pipe
16. Backfilling
17. Hydrostatic testing
18. Site restoration and post-construction tiling

Stantec

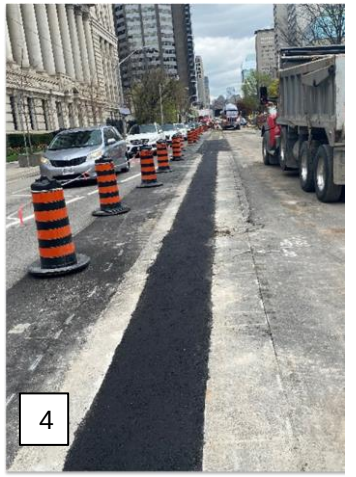
Note: The construction infographic is specifically for open-cut steel pipe installation and is for reference purposes only.

ENBRIDGE
Life Takes Energy

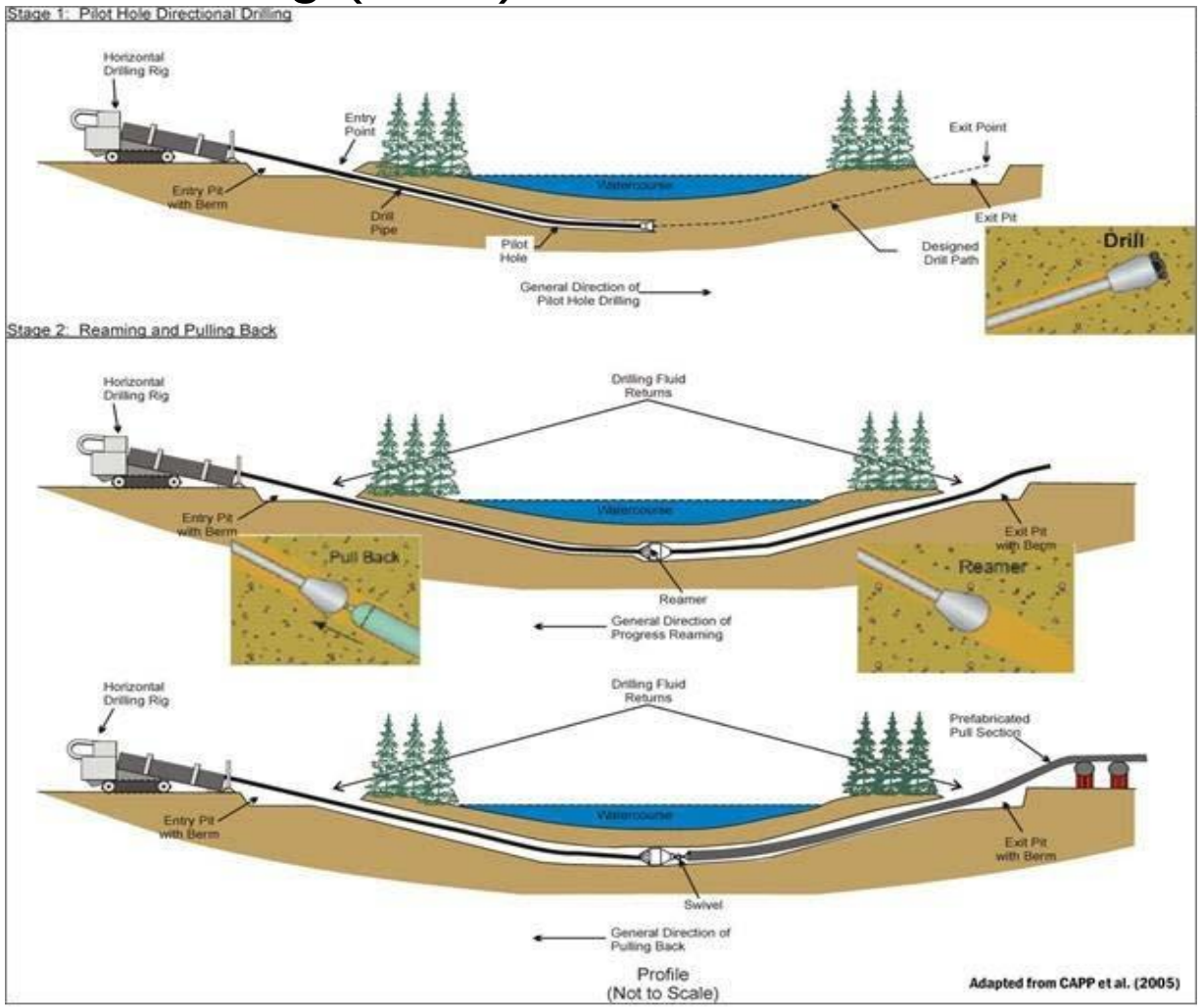
Constructing an Enbridge Gas Pipeline (continued)

The pipeline construction process includes various procedures, as described in the previous slide.

- **Photo 1:** Shows a typical Enbridge Gas natural gas pipeline.
- **Photo 2:** Represents pipe stringing and preparation.
- **Photo 3:** Represents a typical trench that is created during the pipeline installation process.
- **Photo 4:** Represents the process of backfilling a trench and repaving once construction is complete.



Horizontal Directional Drilling (HDD) Procedure



Note: The construction infographic is specifically for horizontal directional drilling (HDD) steel pipe installation and is for reference purposes only.

Mississauga Reinforcement Project Information Session #2

Horizontal Directional Drill Procedure (HDD)

HDD is the planned method of construction for the crossing of some watercourses, roads, and railways.

- A geotechnical assessment and enhanced designs will be completed by a qualified consulting service with expertise in HDD drilling technology and practices, to mitigate potential disruption to the waterbody by identifying favourable ground conditions and determining an appropriate HDD depth under watercourses.
- Permits will be obtained from the required regulatory authorities; required permits will be determined and documented in the ER.

Enbridge Gas has completed many significant watercourse crossings by HDD.

- In 2014, Enbridge installed a pipeline crossing under the Trent Severn Waterway for a project in Campbellford.
- In 2016, Enbridge installed a pipeline crossing under the Snye River for the Walpole Island Project.
- In 2018-2019, Enbridge installed a natural gas pipeline under the Fenelon River (i.e., Trent Severn Waterway) during the Fenelon Falls Community Expansion Project.
- For the Bobcaygeon Community Expansion Project Enbridge Gas is currently planning the design of the Big Bob and Little Bob Channels, which are part of the Trent Severn Waterway and regulated by Parks Canada.

Mitigation measures for watercourse crossings typically include:

- Obtaining and abiding by all required permits and approvals and their associated conditions
- Limiting in-water works, where possible, and conforming to fishery timing windows
- Preparing and following an HDD contingency plan
- Conducting regular monitoring of the watercourse during drilling activities

Stantec

ENBRIDGE
Life Takes Energy

Pipeline design

The steel and polyethylene (plastic) pipeline is designed to meet and/or exceed the regulations of the Canadian Standards Association (Z662 Oil and Gas Pipeline Systems) and the applicable regulations of the Technical Standards and Safety Association (TSSA).

Pipeline safety and integrity

Enbridge Gas takes many steps to ensure the safe, reliable operation of our network of natural gas pipelines, including:

- Design, construct, and test our pipelines to meet or exceed requirements set by industry standards and regulatory authorities.
- Continuously monitor the entire network.
- Perform regular field surveys to detect leaks and confirm that corrosion prevention methods are working as intended.

Socio-economic Features

The project will mainly be constructed on the existing municipal road allowances adjacent to institutional, commercial and residential lands.

Potential effects

- Temporary increases in noise, dust and air emissions.
- Increased construction traffic volumes.
- Temporary impairment of the use of residential and/or commercial property.
- Ornamental vegetation clearing along the pipeline route.

Example mitigation measures

- Provide access across the construction area.
- Restrict construction to daylight hours and adhere to applicable noise by-laws.
- Develop and implement a Traffic Control Plan.
- Place fencing at appropriate locations for safety.
- Implement dust control measures.
- Re-vegetation of disturbed areas as needed (including seeding/planting).

Cultural Heritage Resources

During construction, cultural heritage features such as archaeological finds, and heritage buildings, fences, and landscapes may be encountered.

Detailed field surveys will be conducted by independent, third-party archaeologists and cultural heritage professionals prior to construction, if required.

Potential effects

- Damage or destruction of archaeological, historical or cultural resources.

Example mitigation measures

- Archaeological assessment of the construction footprint, with review and acceptance from the Ministry of Citizenship and Multiculturism (MCM).
- Cultural heritage assessment (for built heritage features and cultural heritage landscapes) of the construction right-of-way, with review and comment from the MCM.
- Reporting of any previously unknown archaeological or historical resources uncovered or suspected of being uncovered during excavation.

Mississauga Reinforcement Project Information Session #2

Aquatic resources

Enbridge Gas understands the importance of protecting watercourses, wetlands, and associated wildlife during construction and therefore will implement recognized mitigation measures to reduce possible environmental effects.

Potential effects

- Disruption and alteration to aquatic species and habitat and/or nuisance effects.
- Increased erosion, sedimentation, and turbidity resulting from removal of vegetation.

Example mitigation measures

- Implement measures to avoid harmful alteration, disruption and destruction to fish and fish habitat, as required by the Fisheries and Oceans Canada (DFO).
- Install erosion and sediment control measures.
- Obtain and abide by all agency permits and approvals.
- Conform to fish timing window guidelines.
- Trenchless drill within or near environmentally sensitive features (i.e., watercourses, wetlands etc.).
- For in-channel construction, protect aquatic species through methods such as flow diversion/dewatering, fish rescue planning etc., and manage sedimentation and turbidity.
- Restore and seed disturbed areas to establish habitat and reduce erosion; and
- Replant vegetation along waterways.

Stantec

ENBRIDGE
Life Takes Energy

Terrestrial resources

During construction, natural environment features such as wildlife habitat and vegetated/wooded areas may need to be crossed.

Potential effects

- Damage or removal of vegetation and wildlife habitat in the construction area.
- Disturbance and/or mortality to local wildlife.

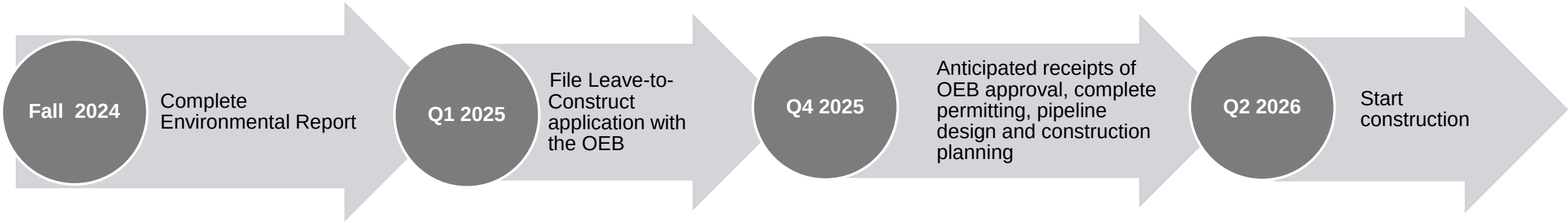
Example mitigation measures

- Conduct surveys (including Species at Risk surveys) in advance of construction to determine opportunities for wildlife habitat to exist.
- Complete tree removal outside of migratory bird windows (typically from April 1 – August 31), to the extent possible.
- Clearly mark the construction area to avoid accidental damage.
- Restore and seed disturbed areas to establish habitat and reduce erosion, if required.
- Secure any necessary permits and follow any conditions of approval.

Mississauga Reinforcement Project Information Session #2

Next steps

After this Information Session, Enbridge Gas intends to pursue the following schedule of activities:



Stantec

ENBRIDGE
Life Takes Energy

Mississauga Reinforcement Project Information Session #2

Thank you!

On behalf of the project team, thank you for listening to the presentation. Please complete a Questionnaire (located in the Resources Tab) by **October 9, 2024** for your comments to be considered as part of the Environmental Report.

Laura Hill
Project Manager
Assessment & Permitting
Stantec Consulting Ltd.
Email: MississaugaReinforcement@stantec.com
Phone: (613) 784-2256

Kristin Kimpinski
Environmental Advisor
Lands, Permitting & Environment
Enbridge Gas Inc.

For more information about the proposed project, please visit the Enbridge Gas project website at https://www.enbridgegas.com/about-enbridge-gas/projects/mississauga-reinforcement-project

Stantec

ENBRIDGE
Life Takes Energy