

Dawn-Corunna Project Virtual Open House #2



Welcome

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- 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).
- The presentation slides from the first Virtual Open House are available for download from the Resources tab.
- 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.

Our commitment

- Enbridge Gas is committed to involving community members.
- We will provide up-to-date information in an open, honest, and respectful manner, and will carefully consider your input.
- Enbridge Gas provides safe and reliable delivery of natural gas to more than 3.8 million residential, commercial, and industrial customers across Ontario.
- Enbridge Gas is committed to environmental stewardship and conducts all of its operations in an environmentally responsible manner.



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Purpose of the Second Virtual Open House

- Provide an update on the Project, including the route selection process.
- Provide an opportunity for landowners, Indigenous communities, stakeholders, regulatory authorities and the public to comment on the proposed Preliminary Preferred Route, to assist in the selection of a Preferred Route.
- Provide a safe alternative to an in-person information session due to current physical distancing requirements set out by the Province of Ontario and the Government of Canada.
- Provide an opportunity to review the proposed Project, and to ask any questions and/or provide comments to representatives from Enbridge Gas and Stantec.



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Activities Following the First Virtual Open House

After the first Virtual Open House (May 3-17), the following was undertaken:

- Reviewed submitted comments and questions and responded as appropriate
- Reviewed the route options based on comments received
- Evaluated the route options and selected a Preliminary Preferred Route
- Reviewed the Preliminary Preferred Route
- Prepared for the second Virtual Open House



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Project Overview

To maintain safe and reliable operations Enbridge Gas Inc. (Enbridge) has identified the need to replace assets in the County of Lambton.

The proposed Dawn-Corunna Project (the Project) will involve the construction of a new steel pipeline, up to 36-inch diameter, between the Dawn Operations Centre in the Township of Dawn-Euphemia and the Corunna Compressor Station in St. Clair Township. Upgrades to the Dawn Operations Centre and the Corunna Compression Station are required to integrate the two stations. Work will include the decommissioning of compressors and construction of additional piping within the existing vicinity of the stations.

If approved by the Ontario Energy Board (OEB), construction of the proposed project is planned to begin in spring/summer 2023 and be complete by the end of 2023.



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Environmental Study Process

The environmental study and Environmental Report will be completed as per the OEB's "*Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2016)*."

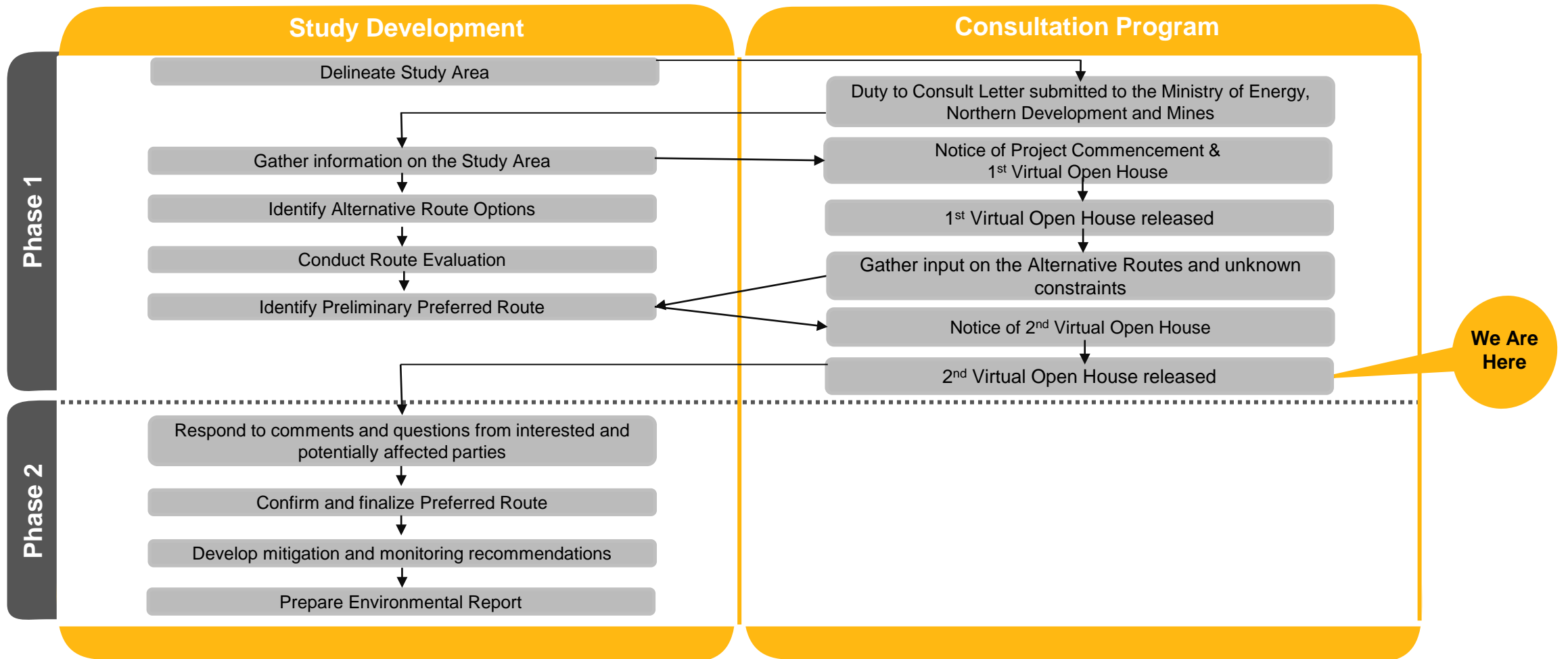
The study will:

- Undertake consultation to understand the views of interested and potentially affected parties.
- Engage with Indigenous communities to understand interests and potential impacts.
- Be conducted during the earliest phase of the Project
- Identify and mitigate potential impacts of the Project, where possible.
- Develop environmental mitigation and protective measures to avoid or reduce potential impacts, where possible.
- Develop an appropriate environmental inspection, monitoring and follow-up program.



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Environmental Study Process



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Ontario Energy Board (OEB) Review and Approval Process

The application to the OEB will include information on the Project, including:

- The need for the Project
- Environmental Report and mitigation measures
- Facility alternatives
- Project costs and economics
- Pipeline design and construction
- Land requirements
- Consultation with Indigenous Communities

Additional information about the
OEB process can be found at:
www.ontarioenergyboard.ca

The OEB will then hold a public hearing to review the Project. If the OEB determines that the Project is in the public interest it will approve construction of the Project.



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Preferred Route Selection Process

The Preferred Route for the proposed pipeline will be selected through a five-step process.

Step 1

Develop Routing Parameters

- a. Establish a study area – the study area constraints include natural heritage features, slope, topography and socio-economic features and landscapes. Opportunities include the ability to follow linear infrastructure such as existing pipelines and property back-lot lines.
- b. Establish routing objectives.
 - i. Follow a reasonably direct path between start and end points.
 - ii. Avoid sensitive environmental and socio-economic features.
 - iii. Use existing linear features.
 - iv. Follow existing lot and property lines where possible.
- c. Create an inventory of environmental and socio-economic features.

Step 2

Identify Alternative Routes in the Study Area

Identify reasonable and feasible routes within the study area in consideration of the routing objectives and environmental and socio-economic opportunities and constraints.

Step 3

Presentation of Alternative Routes and Route Evaluation

- An evaluation of the Alternative Routes will be conducted based on:
- a. A quantitative comparative evaluation of impacts to environmental and socio-economic features.
 - b. A qualitative comparative evaluation.
 - c. During the first Virtual Open House Alternative Routes will be presented
 - d. Input from landowners, Indigenous communities and stakeholders.
- Once this step is complete, a Preliminary Preferred Route will be determined.

Step 4

Presentation of the Preliminary Preferred Route

- a. During the second Virtual Open House, the Preliminary Preferred Route will be presented.
- b. Input will be gathered on the Preliminary Preferred Route.

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Step 5

Confirmation of the Preferred Route

A Preferred Route will be confirmed following consultation. The location of the Preferred Route may be refined as the Project moves forward based on pre-construction field investigations, landowner requests, and/or engineering and construction considerations.

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Route Evaluation – Objectives

The overarching objective in the route selection process is that the selected route presents the least potential for adverse environmental and socio-economic impacts. The following principles support that objective:

- Routes shall follow a reasonably direct path between end-points to reduce length;
- Routes should avoid sensitive environmental and socio-economic features wherever practicable;
- Existing linear infrastructure should be used or paralleled to the greatest extent feasible; and,
- Where new easements are required, existing lot and property lines should be followed to the extent feasible.



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Route Evaluation - Methodology

During the first Virtual Open House four Alternative Routes were presented: three that paralleled existing Enbridge Gas natural gas pipelines, and one that paralleled lot fabric, a hydroelectric corridor and several roads. These four Alternative Routes were made subject to both quantitative and qualitative comparative evaluations.

Quantitative

A Geographic Information System (GIS), a computer-base mapping system, was used to determine the impacts of the four Alternative Routes on a number of different categories, including: agricultural, aquatic, route characteristic, socio-economic, and terrestrial features.

Qualitative

The qualitative evaluation of the Alternative Routes involved a review of comments received to-date from interested and potentially affected parties, and the experience of the Project Team in routing linear infrastructure.



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Route Evaluation – Quantitative Results

Features	Route 1	Route 2	Route 3	Route 4
Agricultural				
Prime Agricultural Land (ha)	Green			
Systematic Tile Drainage (ha)		Green		
Random Tile Drainage (ha)			Green	
Aquatic				
Conservation Authority Regulated Lands (ha)				Green
Watercourse / Drain Crossings			Green	
Watercourses with Identified SAR (#)	Green	Green		
Waterwells (#)				Green
Wetlands – Provincial Evaluation	Green	Green		
Wetlands – Other	Black	Black	Black	Black
Route Characteristics				
Length (km)	Green			
Slope ≥5° (ha within 100m)			Green	
Socio-Economic				
Archaeological Sites (# within 100m)	Green	Green		
Cultural Heritage Features (# within 100m)				
Road Crossings (#)	Green	Green		Green
Petroleum Wells (# within 100m)			Green	
Socio-economic features (schools, churches, and community centres [# within 100m])	Black	Black	Black	Black
Terrestrial				
ANSIs (ha)	Black	Black	Black	Black
Wooded Areas (ha)	Green			
Green	Alternative Route with least impact on feature (multiple green boxes indicates tie in feature value)			
Black	Feature not present within any of the Alternative Routes			

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Route Evaluation – Qualitative Results

To date, no comments have been received from residents, developers, agencies, interested groups and/or municipal staff regarding the Alternative Routes.

All four alternative routes were deemed to be environmentally acceptable, with Routes 1 and 2 preferred over Routes 3 and 4 from an impact perspective. While Route 1 and Route 2 were found to be very comparable, Route 1 has been selected as the environmentally preferred option due to the shorter overall length, and the potential limited extent of impact to prime agricultural land and woodlots.

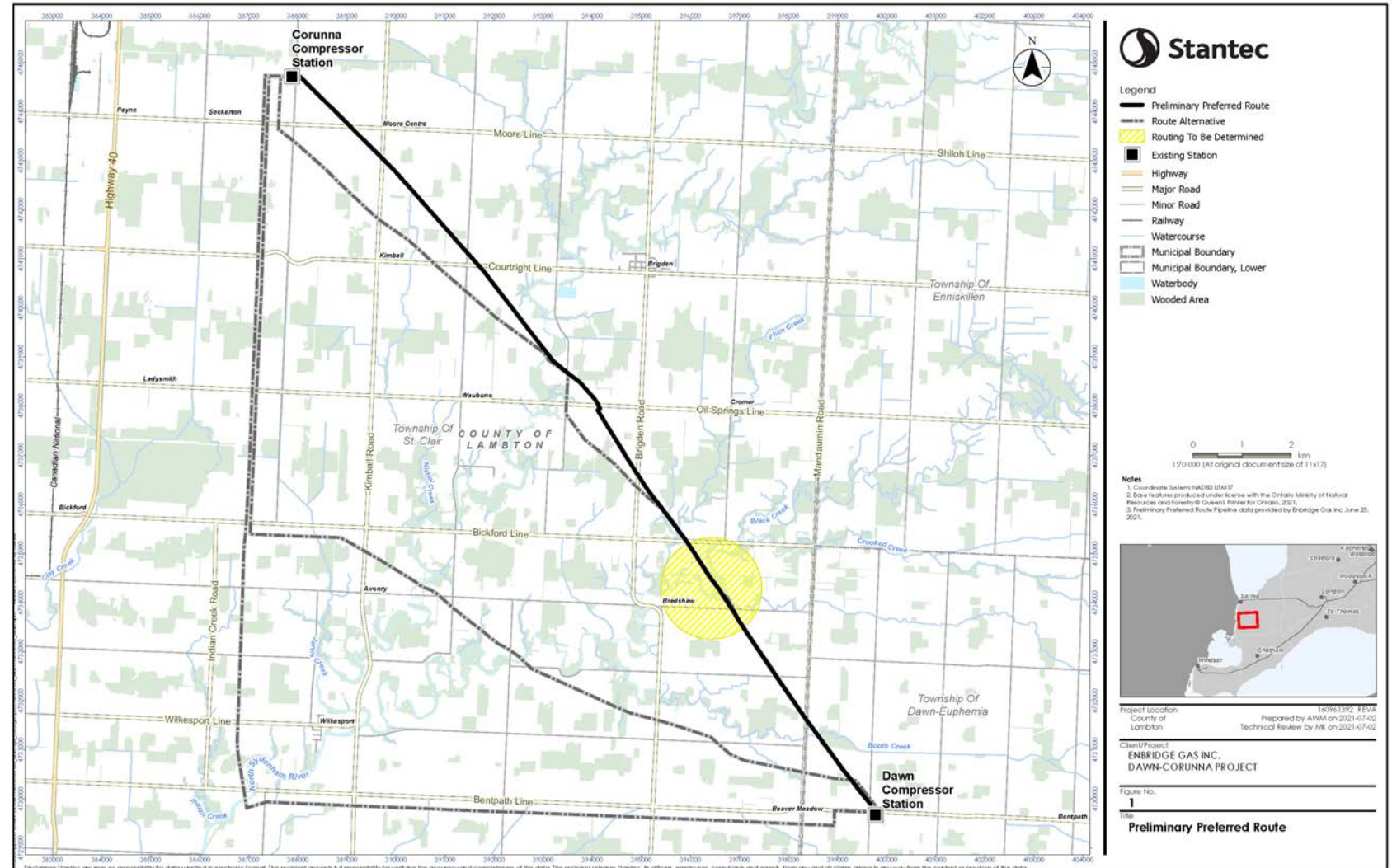


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Route Evaluation – Preliminary Preferred Route

An interactive map that shows the Study Area, the Preliminary Preferred Route and the three Alternative Routes that were not carried forward can be accessed at:

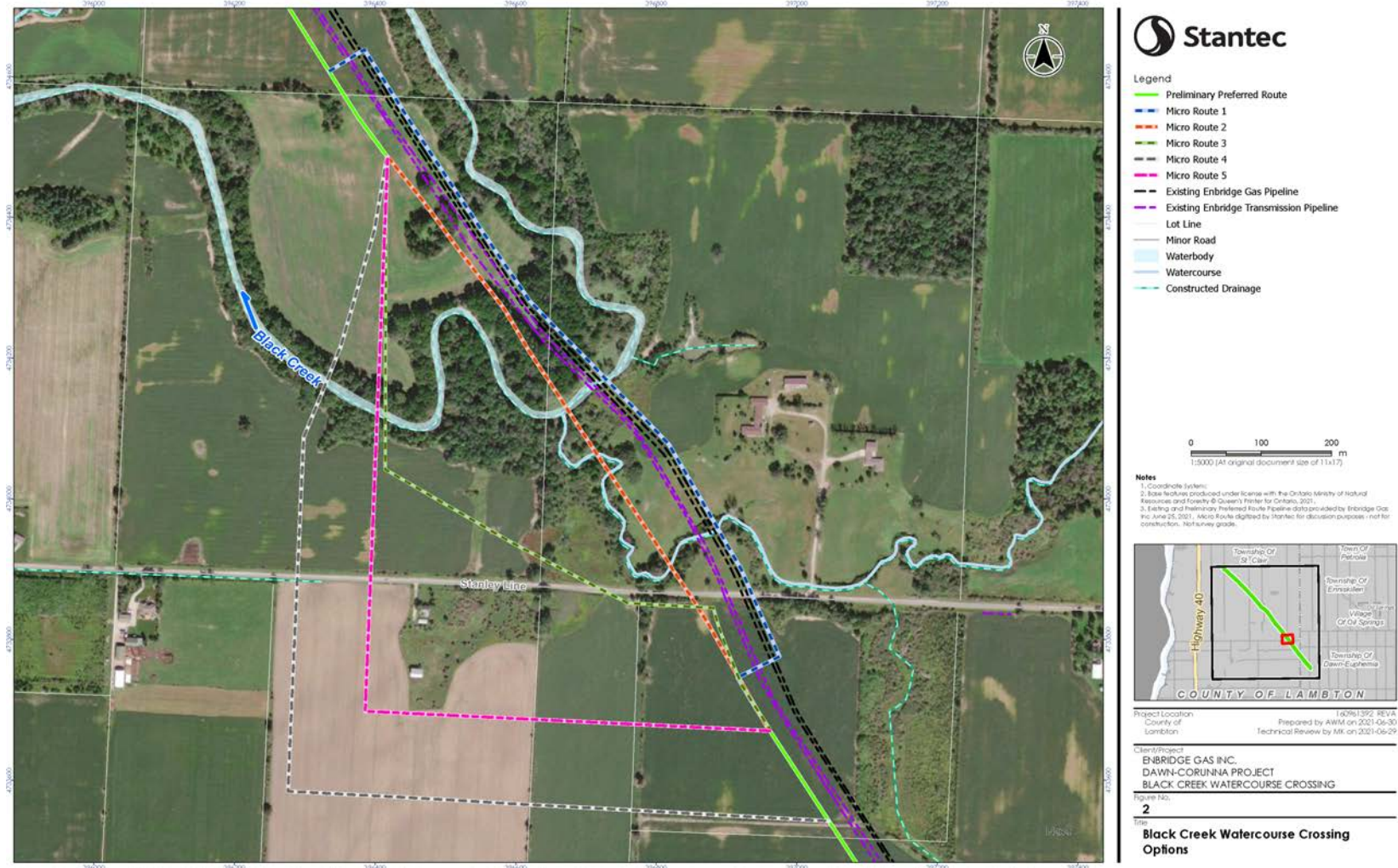
www.solutions.ca/DawnCorunna



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Route Evaluation – Stanley Line Area

The Preliminary Preferred Route will involve crossing Black Creek and potentially a tributary to Black Creek and two other intermittent watercourses. Five proposed pipeline route alternatives, Micro Route 1, Micro Route 2, Micro Route 3, Micro Route 4, and Micro Route 5, are currently under review.



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Route Evaluation – Stanley Line Area

The selection of the preferred Micro Route through the Stanley Line and Black Creek area will be based on a variety of environmental and socio-economic constraints and opportunities. These factors may include:

- Environmental impacts
- Design and construction consideration
- Agricultural land and tiling
- Landowner and public consultation
- Existing infrastructure
- Topography and side slopes
- Costs



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Socio-economic Features

The project may be constructed through road right of way, business areas, agricultural and residential land, along with land maintained by Hydro One, and regulated by the St. Clair Region Conservation Authority.

Potential Effects

- Temporary increases in noise, dust, and air emissions.
- Increased construction traffic volumes.
- Temporary traffic restrictions and lane closures.
- Temporary impairment of the use and enjoyment of property.
- Vegetation clearing along the pipeline easement.

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 a water well monitoring program.
- Provide contact information for designated Enbridge Gas landowner and non-landowner representatives prior to and throughout construction.
- Dust control measures.
- Re-vegetation of cleared areas (seeding/planting).





Aquatic Resources

Enbridge Gas understands the importance of protecting 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

- Conduct surveys of waterbodies.
- Obtain all agency permits and approvals.
- Limit in-channel construction, where possible, and conform to fish timing window guidelines.
- For in-channel construction, protect aquatic species and manage sedimentation and turbidity.
- Restore and seed areas to establish habitat and reduce erosion.
- Replant vegetation along waterways.



Terrestrial Resources

During the course of construction, natural heritage features such as wildlife habitat and vegetated/wooded areas will need to be crossed.

Potential Effects

- Damage or removal of vegetation and wildlife habitat adjacent to the construction area.
- Disturbance, nuisance, 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.
- Clearly mark the construction area to avoid accidental damage.
- Restore and seed areas to establish habitat and reduce erosion.
- Secure any necessary permits and follow any conditions of approval.



Cultural Heritage Resources

During the course of construction, cultural heritage features such as archaeological finds, buildings, fences, and landscapes may be encountered. Detailed field surveys will be conducted by independent, third-party archaeologists and cultural heritage professionals.

Potential Effects

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

Example Mitigation Measures

- Archaeological assessment of the construction right-of-way, with review and comment from the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI).
- Cultural heritage assessment (for built heritage features and cultural heritage landscapes) of the construction right-of-way, with review and comment from MHSTCI.
- Reporting of any previously unknown archaeological, paleontological or historical resources uncovered, or suspected of being uncovered, during excavation.

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Agricultural Soils

Enbridge Gas has established and tested measures to preserve the integrity of agricultural soils throughout the construction phase:

- A third-party soils specialist will determine topsoil depth prior to stripping and supervise activities so the proper depth of topsoil is removed and replaced.
- Topsoil will be stripped from the right-of-way and other work areas and stockpiled along the right-of-way. A separation will be maintained between topsoil and subsoil.
- Enbridge Gas will implement a wet soil shutdown protocol on agricultural lands to minimize soil structure damage.
- The subsoil on the stripped portion of the right-of-way will be chisel ploughed or sub-soiled during cleanup activities to alleviate compaction.
- Enbridge Gas will develop and implement a sampling program on agricultural easements along the pipeline route for potential pests and/or diseases that are known to the area, where appropriate.
- The entire outside boundaries of the workspace necessary for construction of the project will be staked at regular intervals.



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Maintaining Agricultural Drainage Systems

- Landowners will be contacted prior to construction to confirm the location and type of existing drains. Any future drainage plans will also be discussed with the landowner.
- Field tile will be temporarily re-routed during pre-construction activities where required for proper drainage during construction.
- Damaged and severed drains will be repaired following construction. After repair and prior to backfilling, landowners will be invited to inspect and approve the repair. Any on-going field tile issues resulting from pipeline construction will be addressed by Enbridge Gas as required.



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Access and Land Requirements

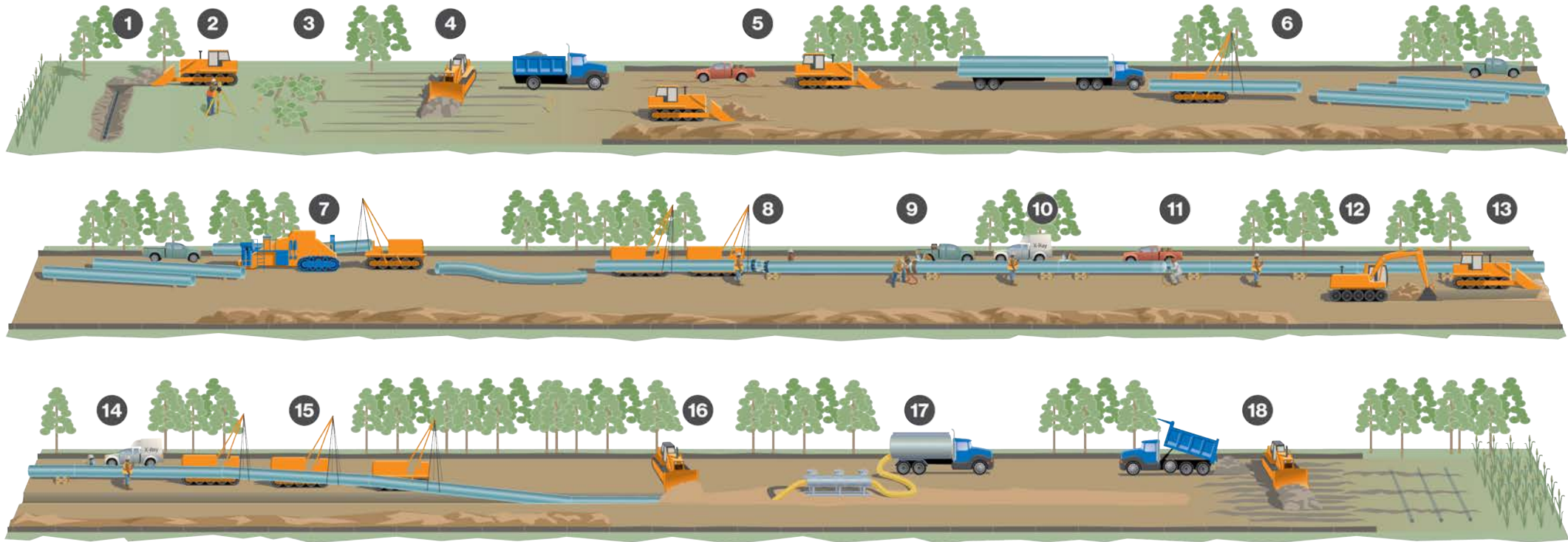
- Once the Preferred Route is selected, an Enbridge Gas Land Agent will begin discussions with landowners for the appropriate land rights necessary for the construction of the pipeline.
- Enbridge Gas is committed to working with all directly affected landowners in anticipation of acquiring early access agreements, where necessary, in order to gather essential information, including but not limited to, land survey data, environmental, archaeological and property site features, along with negotiating the necessary land rights.
- These land rights will consist of permanent easements and/or temporary land rights. The temporary land rights are only required during project construction activities.
- Enbridge Gas will have a Land Agent available to each landowner during all pipeline construction activities.
- The Land Agent will keep all landowners informed of the progress of the project and assist with any concerns that may arise as a result of the construction activities.



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Constructing an Enbridge Gas Pipeline



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

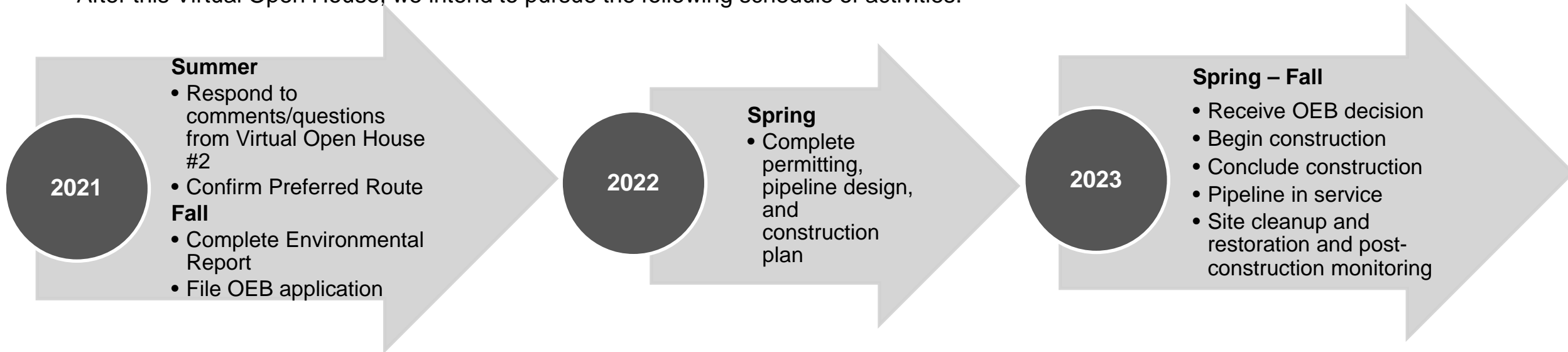


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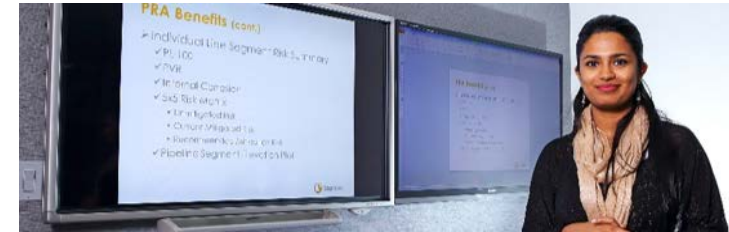


Next Steps

After this Virtual Open House, we intend to pursue the following schedule of activities:



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Thank-you!

On behalf of the Project team, thank-you for taking the time to participate in the first Virtual Open House. Please submit your comments by **August 30, 2021**, to ensure they are incorporated into the Environmental Assessment.

Comments can be submitted via the questionnaire, available in the Resources tab, or by contacting the project team using the information below.

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