

ENBRIDGE'S COMMITMENT TO THE ENVIRONMENT

ROBUST PROTECTION MEASURES ARE IN PLACE

Transporting energy to meet the country's needs requires that our system cross various environments. We take our responsibility to protect the environments our pipelines cross very seriously. When a new project is undertaken, careful assessment of the biological, cultural and community conditions, protection and maintenance measures are established. We are confident, after restoration, our long-term impact to land along our pipeline routes is minimized.

Enbridge has a comprehensive safety program designed to protect the public, employees and the environment, as well as to support reliable and secure delivery of North American petroleum to our customers. In addition to our own strict standards, federal, provincial and local regulatory agencies provide additional monitoring and require permitting and oversight during construction activities.

Regulatory oversight is extensive. Federal pipeline regulations administered by the National Energy Board (NEB) have evolved over the decades and currently include design, operation, construction and maintenance of pipelines. Enbridge also complies fully with the applicable provincial regulations.

PIPELINES SAFELY CROSS MANY DIFFERENT ENVIRONMENTS

Enbridge has been operating pipelines for more than 60 years. In fact, we operate the world's longest liquid petroleum pipeline system, and it safely crosses many different environments. We strive for continuous improvement and are pleased that our environmental best-management construction practices have helped establish Enbridge as a leader in the pipeline industry.

Pipelines, by their nature, intersect and cross a variety of landforms and environments. It is not feasible to avoid all potentially sensitive locations, such as rivers, wetlands, farmland, aquifers, or even densely populated areas. So, Enbridge has implemented comprehensive safety measures to protect all areas along our pipeline route.

These measures begin with:

- Pipeline design and construction.
- Using quality materials.
- Adhering to strict product requirements to ensure high standards for oil and liquid petroleum transportation.
- Adhering to a comprehensive maintenance, inspection and operating program that includes periodic internal inspection.
- 24-hour monitoring and leak detection capabilities.

If a release is detected or reported, we can promptly shut down, isolate the pipeline section and rapidly dispatch a trained response team, including environmental crews who have an understanding of the products we transport. Under the oversight of federal and provincial government agencies, Enbridge's commitment to clean and restore the area avoids long-term impact to landowners and the environment.



ENVIRONMENTAL BEST PRACTICES ARE USED

In addition to regulatory agencies, Enbridge also consults with landowners, aboriginal groups and other stakeholders prior to construction and maintenance projects, and we maintain communications as part of normal operations. Our pipeline awareness programs remind people who live and work along our rights-of-way (ROW) about digging safely and what to do if they observe abnormal conditions. Our safety representatives meet with local first responders to maintain relationships and awareness of our pipelines.

Before, during and after construction Enbridge employs environmental practices including:

- Consulting with regulatory agencies and other key stakeholders, including aboriginal groups.
- Evaluating sensitive areas using environmental field survey crews.
- Incorporating analysis and environmental evaluations into construction planning.
- Complying with all environmental regulations and permits with oversight from trained, experienced environmental inspectors and resource specialists.
- Administering environmental monitoring programs following construction.
- Consulting with landowners on restoration requirements and expectations following landowner agreements.
- Implementing mitigation plans to support the replacement of environments impacted such as required tree removal along right of way corridors.

Enbridge also collaborates with, and supports, organizations whose missions are to protect sensitive areas.

WE UNDERSTAND THE PRODUCTS WE TRANSPORT

All of the crude oil we transport must meet certain quality specifications as filed with the NEB. We can only carry products that meet these specifications. Enbridge lab technicians test the petroleum products to ensure they meet these quality standards.

Enbridge is regulated as a “common carrier” pipeline. We do not own the products we transport, but we understand their makeup. As we strive for zero pipeline incidents, we continuously study the results of our past incidents to learn how petroleum products impact the environment, and we are able to evaluate the technologies most effective to contain, remove, remediate and monitor petroleum in the environment. Operating the longest crude oil and liquids pipeline system in Canada, we know that releases from a pipeline, should they occur, are shallow and usually on or near the land surface. Enbridge pipelines are generally placed 0.6 - 0.9 metres below ground surface, protecting the pipe from normal ground level activity. If land practices cause erosion, Enbridge works with landowners to avoid risks such as farming activities.

Crude oil, its components and refined products such as gasoline and diesel have been widely dealt with and researched in terms of how they behave in the environment when released. From initial containment and response measures through final cleanup, there are a range of proven and effective approaches and measures to use. Any impacts to groundwater are typically quite localized.

Enbridge is fully committed to the protection of the environments along our pipeline ROWs as well as being a good neighbor in the communities in which we operate, and where our employees live.