Curve Lake First Nation Leads Sustainable Wastewater Innovation with Miranda Water Technologies

Project deploys Miranda's SmartCell™ platform featuring Miracell® Ultra biological treatment systems to strengthen water security and community growth.



Representatives of Miranda Water Technologies with members of Curve Lake First Nation Council during the announcement of a sustainable wastewater infrastructure project.

PETERBOROUGH, ONTARIO, CANADA, September 9, 2026 /EINPresswire.com/ -- Miranda Water Technologies, a global leader in community-scale water and wastewater treatment solutions, has completed the sale of three Miracell® 100 Ultra biological treatment systems within its SmartCell™ wastewater treatment platform for deployment at Curve Lake First Nation in Ontario, Canada. The project represents a significant advancement in sustainable wastewater infrastructure, supporting long-term environmental protection, water security, and community resilience.

> Curve Lake First Nation's leadership represents a model for sustainable wastewater infrastructure across Canada."
>
> *Michael Skinner, CEO of Miranda Water Technologies*

Last year, the Curve Lake First Nation Council approved a resolution to phase out traditional septic beds, which consume valuable land and provide limited filtration. The community is instead adopting modern, energy-efficient wastewater treatment systems that serve multiple households, protect groundwater, and support long-term water security.

"Curve Lake First Nation's leadership represents a model for sustainable wastewater infrastructure across Canada," said Michael Skinner, Chief Executive Officer of Miranda Water Technologies. "By replacing aging septic systems with an intelligent, modular, community-based wastewater treatment platform, they are strengthening water sovereignty and ensuring the community can protect its land, water, and people for generations to come."

The SmartCell™ platform is Miranda's intelligent wastewater treatment platform, integrating biological treatment, automation, monitoring, and process optimization into a single coordinated solution. Designed to improve operational performance, reliability, and long-term resilience, SmartCell™ supports the full lifecycle of decentralized wastewater infrastructure.

Within the SmartCell™ platform, the Miracell® Ultra serves as Miranda's advanced rotating biological contactor technology, providing energy-efficient biological treatment at the community scale. Built on the proven performance of Miranda's global portfolio of more than 1,200 installations, it meets Ontario's stringent environmental standards while producing high-quality treated effluent suitable for reuse or safe discharge, depending on project requirements. Its compact, modular design delivers consistent performance, minimizes maintenance requirements, and supports community growth without the need for large drain fields.

Supporting Community Goals through Sustainable Design

Curve Lake First Nation faces distinct environmental and land-use challenges that make decentralized wastewater infrastructure a practical long-term solution. With a limited land base, the community required an approach that protects groundwater, supports future housing, and preserves land for residential, recreational, and cultural use.

"Our community needs wastewater infrastructure that can meet today's needs while preparing us for the future," said Sean Conway, Councillor for Curve Lake First Nation. "Miranda is a key partner in modernizing our aging wastewater systems, bringing proven technology and a community-based approach that will help us build more reliable and sustainable infrastructure for Curve Lake."

Many of Curve Lake's existing septic systems are nearing the end of their service life, creating maintenance challenges and increasing the risk of groundwater contamination in an area already vulnerable to flooding and shifting water tables. Within the SmartCell™ platform, Miracell® Ultra biological treatment technology provides compact, energy-efficient treatment, while intelligent process optimization helps protect groundwater quality and maintain consistent performance under changing environmental conditions.

The project provides reliable wastewater treatment for multiple households while creating additional opportunities for future housing and community growth. It also demonstrates how intelligent, decentralized wastewater infrastructure can help Indigenous and remote communities address environmental challenges while strengthening long-term water security.

"This project demonstrates the impact of true collaboration," added Michael Skinner. "We are honoured to work alongside Curve Lake First Nation to deliver an intelligent wastewater treatment platform that supports healthier communities, stronger environmental stewardship,

and lasting infrastructure for future generations."

About Miranda Water Technologies
Miranda Water Technologies is a global provider of community-scale, decentralized water and wastewater treatment solutions that support reuse, purification, and long-term water security. Miranda operates offices in Keene, Ontario, Canada; Ankara, Türkiye; and Providenciales, Turks and Caicos Islands.

At the heart of Miranda's technology portfolio is SmartCell™, an intelligent control and optimization platform that unifies Miranda's treatment technologies, including the Miracell® biological wastewater treatment system and the R/OCell® reverse osmosis water purification system, into a single, continuously monitored and optimized solution.

With over 1,200 systems deployed in more than 40 countries and supported by a global network of distributors and installers, Miranda delivers scalable, modular, and energy-efficient technologies. Its solutions are trusted across a wide range of applications, including municipal infrastructure, residential developments, industrial facilities, remote and island communities, and First Nations and Indigenous communities.
Learn more, explore FAQs, and access product updates at www.mirandawater.com.

About Curve Lake First Nation
Curve Lake First Nation is a Mississauga Ojibway community located in the heart of the Kawartha Lakes region, approximately 25 kilometres northeast of Peterborough, Ontario. Surrounded by lakes and islands, the Nation’s deep connection to land and water guides every aspect of its growth and governance. Home to the Michi Saagiig Nishnaabeg people, Curve Lake First Nation is committed to environmental stewardship, sustainable development, and the preservation of Anishinaabe culture and traditions. Through leadership and collaboration, the community continues to advance initiatives that strengthen infrastructure, protect natural resources, and support a thriving future for generations to come.
Learn more at https://curvelakefirstnation.ca.

Media Contact:

Michael Skinner
Miranda Water Technologies
+1 705-761-1933
mskinner@mirandawater.com
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