

HDPE factory insulated pipe with heat trace system

Clean drinking water reaches remote northern Manitoba

Tataskweyak Cree Nation, Northern Manitoba, Canada

Upgrading water supply infrastructure to improve drinking quality for over 4,000 residents

Tataskweyak Cree Nation Water Supply

Northern Manitoba, Canada

The Tataskweyak Cree Nation community undertook a project to improve its drinking water system. The goal was to provide over 4,000 residents with clean drinking water. The project involved installing more than 25,000 feet of 16-inch HDPE factory-insulated pipe designed to carry raw water to the new water treatment facility. The harsh northern climate posed unique challenges, with winter temperatures often plunging to as low as -45 degrees celsius, making the risk of freezing a serious concern. Additionally, the remote location meant logistical challenges and the need for reliable, long-term infrastructure solutions.

Project background

GF Urecon's factory-insulated HDPE pipe system, combined with a complex long line series heat trace cable, provided the ideal solution to ensure the raw water line remained functional even in the most extreme temperatures. The factory insulated pipe & the heat trace system protect the pipe from freezing & ensure continuous flow of water to the treatment plant, regardless of the outside temperature.

Selected technical solution

The installation of the GF Urecon factory-insulated HDPE pipe system with integrated heat trace technology has enabled Tataskweyak Cree Nation to provide a reliable supply of clean drinking water to its residents year-round. The insulated piping system, coupled with the heat trace solution, has successfully mitigated the risks posed by freezing temperatures, ensuring the water treatment plant operates smoothly even during the harshest winters.

Industrial Market Manager comment

"GF Urecon offers a complete delivered package, including factory insulated pipe and complex heat trace systems. All designed manufactured by GF Urecon. We meet that design criteria and make sure the installation is done properly by providing tech support on-site to the installing contractors. GF Urecon is heavily committed to being part of the solution to provide clean drinking water to all residents in remote northern communities."

Ron Gravel

Industrial Market Manager, GF Piping Systems



The Tataskweyak Cree Nation enhanced its drinking water system with GF Urecon's solution, installing over 25,000 feet of insulated HDPE pipe to deliver raw water to a new treatment facility.



Heat tracing systems prevent freezing and maintain pipe temperatures, ensuring reliable operation in harsh conditions. Easily installed and controlled, they offer customizable solutions to reduce downtime and protect critical infrastructure..

Customer benefits

- Ensures a consistent supply of clean drinking water for over 4,000 residents year-round.
- Prevents freezing with pre-insulated pipes and a heat trace system, ensuring uninterrupted water flow.
- Provides a long-term, low-maintenance solution for reliable water access in remote areas.

Where next?



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an expert



Learn more about
Pre-insulated and
Heat Trace

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