



Kemptville Water Pollution Control Plant Expansion – Phase A



Ongoing (Target 2026)

ABOUT THIS PROJECT:

Market Segment:
Water Treatment & Distribution

Owner / Developer:
Municipality of North Grenville

Products Used:
Xypex Admix C-500

Location:
Kemptville, Ontario, Canada

General Contractor:
NAC – North America Construction (1993) Ltd.

Engineer:
J.L Richards – Timmins

As part of a major infrastructure upgrade in Kemptville, Ontario, the Municipality of North Grenville commissioned the construction of new primary clarifiers, aeration tanks, and equalization tanks to expand the capacity of its water treatment and distribution system, which has been approaching its hydraulic limits due to ongoing development pressures.

Non-toxic and fully compatible with potable water applications, Xypex Admix C-500 enhances long-term durability while supporting environmental responsibility. By eliminating the need for external membranes or coatings, it reduces maintenance costs and boosts the operational efficiency of critical infrastructure. Its integration into this expansion strengthens essential wastewater services, supports future development, and enhances the region's water treatment infrastructure's efficiency, sustainability, and resilience.



Engineered by J.L. Richards, this project prioritized long-term performance and structural resilience. Xypex Admix C-500 was added to the concrete mix during batching to achieve this. The admixture's advanced crystalline technology initiates a catalytic reaction with moisture and cement hydration by-products. Forming a non-soluble crystalline structure that permanently seals the concrete against water ingress. This integral waterproofing system enables the concrete to resist extreme hydrostatic pressure, endure chemically aggressive environments, and self-heal static hairline cracks up to 0.5 mm.

