

KUGLUKTUK WATER STORAGE TANKS REPLACEMENT

Project	Kugluktuk Water Storage Tanks Replacement
Location	Kugluktuk, Nunavut, Canada
Service	Full A/E Services
Process	Design/Construction Management
Value	\$245K
Status	Completed 2004

FSC Architects & Engineers was hired by the Government of Nunavut to evaluate the condition of the community of Kugluktuk’s water storage tanks in June of 2003. FSC was familiar with the tanks in question as we had been involved in various water supply improvements projects in this Nunavut hamlet.

These tanks had been in service for over twenty years and had been exposed to saltwater, which accelerated the decay of the metal walls. FSC’s preliminary investigations revealed that the tanks were in danger of collapsing and that a temporary reinforcing solution needed to be devised.

Failure of the tanks would have crippled the community’s ability to provide potable water. FSC devised a temporary solution to reinforce the tanks until they could be replaced. FSC developed a design that involved strapping the tanks with metal bands on the exterior perimeter to provide additional wall strength.

FSC recommended the replacement of the two existing 182,000 Liter tanks with a prefabricated, bolted-panel steel tank. FSC researched existing off the shelf products and developed a complete set of design documents to allow the GN to select a general contractor to complete the work.

FSC provided inspection services to the client and worked with the Contractor to ensure that the project progressed smoothly. The overall project was completed on schedule and under budget.

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