



FilterBoxx™

An Ovivo Company

WATER SOLUTIONS

PROJECT PROFILE

NUNAVUT COMMUNITY

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THE CLIENT

A 450-resident community of in Nunavut. Located on the western shore of Hudson Bay, approximately 72km South of Rankin Inlet and 160 km North of Arviat.

THE SITUATION

The communities' seasonal water treatment plant is a surface pond which experiences excessive coliforms. The water also contained THM and HOA which exceeded Government of Canada Drinking Water Quality (GCDWQ) standards. These contaminants made the water undrinkable during certain periods of the year. The water plant demand had to meet 100 Lpm for the population and, in the event of an emergency, have capacity to store and pump water to the fire truck at a rate of 1,000 Lpm within a 30-minute period.

THE SOLUTION

The FilterBoxx system includes media filtration, activated carbon, different micron filtrations systems, UV disinfection along with continuously circulating treated water loop with chlorine disinfection and storage. The system requires minimal power and water connections. Built within an ISO container, the unit was easy to ship to the far north with conventional shipping methods.





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HOW WE MADE A DIFFERENCE

FilterBoxx was able to meet the critical timeline of 8 weeks to build a fully functional water treatment plant. The system successfully treated the water, removing all contaminants to meet the GCDWQ guidelines. FilterBoxx offers full lifecycle service. We return to the site each year to commission the seasonal water supply plant and shutter it in preparation for the long winter months when the surface water supply is frozen.



WATER INFLUENT/EFFLUENT TREATMENT STANDARDS

PARAMETERS	UNITS	INFLUENT	EFFLUENT
THM	mg/L	0.12	0.1
Total HAC5	mg/L	0.131	0.08
Total Dissolved Carbon	mg/L	14	
Total Coliforms	MPN/100ml	> 200	0
True Colour	CU	10.5	< 1

PROCESS FLOW DIAGRAM

