Drinking Water Case History:
Surface to Potable

a Purifics' Cuf (Continuous Ultra Filtration) system has been installed for surface water to potable in the Village of Granisle BC, a remote village located on the shores of Babine Lake in the Northern Interior of British Columbia. The year-round population is approximately 303 people, with fluctuations during tourist season. The Cuf system purifies lake water of pathogens, TOC, colour and metals. Weekly DIT is performed as per regulatory requirements using Purifics' particulate marker method.

Purifics' process has been designed for 25-year life with high durability, reliability and redundancy for continuous 24/7 duty. The purification train has fully automated 0 to 100% turndown capability and other unique features to minimize OPEX. There is no need for direct operator involvement; the process is audited by the operator locally or remotely. The service interval, outside of instrument calibration, is 20,000 hours.

Surface Water Purification Solution

Purifics' Cuf dual M36 platform is shown on the next page. The capacity is 2 MLD (1 MGD) with 100% redundancy.

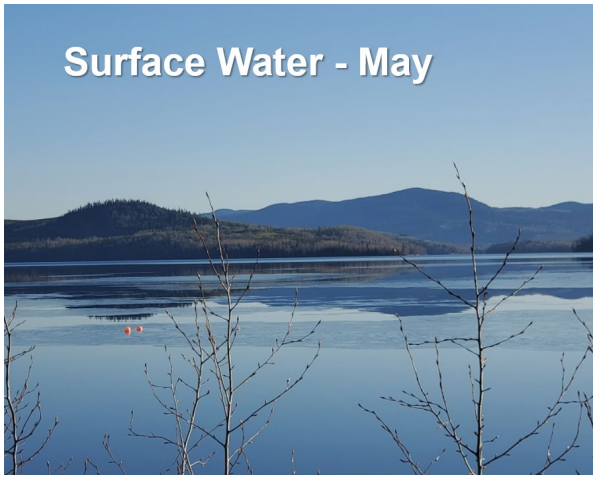
Performance

The ANSI 61 certified Cuf system eliminates all pre-treatment requirements. It produces consistent, low NTU filtrate (0.025), independent of influent turbidity, weather events or water temperature. Cuf eliminates permanganate, polymer & ammonia for chloramination. Enhanced TOC/DOC removal allows the use of Free Chlorine for secondary disinfection.

UL CERTIFIED
HEALTH EFFECTS
US-CA
MH62035

Influent water temperature reaches as low as 1.4°C in the winter months, without affecting Cuf flux or performance. Extreme low water temperatures shrink the pores of polymeric membrane drastically reducing flux.

Installed Solution



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