H2FLOW EQUIPMENT INC.

Quinte's Isle Campark

Prince Edward County, Ontario

Start up Report:

Coated Cerapure™ media solves Manganese issue

Case Study Details

Quinte's Isle Campark is one of Ontario's biggest recreational campgrounds, with seasonal guests, residents, campsites, cottages, and RVs. There are many amenities, including beaches, hiking trails, swimming pools, tennis courts and more, encompassing its 1000+ acres.

The entire site runs off well water. Therefore, a treatment system including media filtration, cartridge filtration, UV disinfection, and post chlorination was installed to produce high-quality drinking water.

Due to higher water quality requirements and Manganese and Iron presence in the feed water, H2Flow provided an upgrade to the two existing media filters, the addition of a third vessel and Cerapure™ media, supplied by Wateropolis. WTindustrial provided the installation. The Cerapure™ media has a uniquely engineered face structure to yield a higher surface area per unit volume and dramatically improves performance. The media is coated from factory with technical grade MnO_2, activated carbon, and a bacteriostatic metal alloy to ensure efficient removal of Manganese and Iron, as well as to prevent biological overgrowth. The influent water is chlorinated to aid in the metals removal and continuously regenerate the media's coating, ensuring a very long lifespan.

Table 1: Startup results

Flow Rate	100 GPM	
	Inlfluent	Effluent
Iron	<0.3ppm	ND
Manganese	0.5-1ppm	<0.02ppm

Start up date: April 2021

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