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VOYAGEUR LAKES

"Unique" and "visionary" are terms that have been used to describe the equestrian-oriented development, Voyageur Lakes, outside of Halifax, Nova Scotia. It is termed as mixed-use and includes residential homesites, shops, and, at the heart of the development, an equestrian center.

The wastewater system uses decentralized technology that includes a Quanics, Inc. Recirculating Sand Filter System designed to treat approximately 28,000 gallons per day. The large-scale recirculating sand filter is composed of 6 individual cells that measure 55' x 45'. Each cell is dosed via a duplex alternating pump system housed in custom built filtered pump vaults. Utilizing pre-assembled distribution valve packages allows sequential dosing of the individual lateral zones within each respective cell. Efficient use of a custom built, cast-in-place tank to house all pumps underneath a control room building reduces the overall system footprint.

Quanics provided a pre-cut and partially assembled sand filter kit which included the liners, supply manifolds, laterals and return piping. Because the sand filter kit was essentially built by Quanics then disassembled and shipped to the site, installation by the contractor was simplified and efficient.

The treated effluent is disinfected using a gravity ultraviolet disinfection system and is then pressure dosed to the disposal area. Disposal occurs through a 400'-long open surface trench which diffuses the treated wastewater before it gravity flows along the natural grade into a wetland area and ultimately into surface water.



6 - 55'x45' Sand Filter Cells

