

## Picton Wastewater Treatment Plant



### Case Study Details

H2Flow supplied tertiary filters by Parkson and UV disinfection by Trojan.

Tertiary filter: 8 trains of 3 Parkson Hybrid Dynasand filters with Eco-Wash system.

- Reject amounts returned to the head of the plant are about 1/8th of the original Dynasand
- Alum amounts added in the aeration tank reduced from about 80 mg/l to 50 mg/l
- Effluent numbers: 0.05 to 0.03 mg/l for the TP and less than 2 mg/l for the TSS and down to non detect levels
- The UV disinfection is producing results less than 5 E-Coli counts on a regular basis

Operators can completely adjust and optimize the filtration process, reduce alum consumption and reduce reject return to the head of the plant and meet the range of the flows that the plant is subjected to at all times. Operator's intervention is extremely minimal. No batch cleaning operation are necessary.

Very low CAPEX/OPEX comparison especially on the operation, making the Hybrid Dynasands an excellent alternative to membrane filters.

The Flow is 6,000 m<sup>3</sup>/day 30,000 m<sup>3</sup>/day Peak.

**Operator:** Prince Edward County Utilities

**Engineering Consultant:** Dillon

**Contractor:** Maple

