

TrojanUVFit™ Reactors 70 L/s

Image Courtesy of Waterfront Toronto

Case Study Details

Sherbourne Common waterfront park was developed by the City of Toronto to provide the public with green recreational space. The park includes large water sculptures, the water from which flows into an artificial stream accessible to the public before being discharged into Lake Ontario. The water for these sculptures is sourced from stormwater collected at the park, and UV disinfection was selected to treat the stormwater before it is reused by the water sculptures.

H2FLOW EQUIPMENT INC. supplied two Trojan Technologies TrojanUVFit™ reactors for treatment of the stormwater, one duty and one standby, installed in the basement of the park's pavilion. An automatic wiping system was supplied with each reactor to minimize quartz sleeve fouling and this helps to reduce power consumption, together with the automatic dimming capability of the UV lamps.

The closed-vessel system disinfects the collected stormwater without significant headloss during the treatment process. The system has consistently achieved the required design limit of 10 CFU/100 mL, even during periods of intense rainfall when the area is susceptible to combined sewer overflows.

Engineering Consultant: TMIG
Installation Contractor: W.A. Stephenson
Start-Up: 2011