



## **Saltspring Island, BC Canada August, 2009**

BI Pure Water (Canada) Inc. has installed two new Hanovia Ultraviolet disinfection systems in the Rainbow Road Recreation Center, located on Saltspring Island.



The Rainbow Road Pool first opened May 17, 2008 to swimmers. The complex has a six lane multi-purpose pool and a 14 person swirl pool. Designed by Architect Alan Roy, the new facility cost \$6.6 million and was funded in part by a \$2 million grant from the BC Ministry of Community Development as well as significant contributions from suppliers, local residents and businesses.

NSF 50 certified for pools and spas, the Hanovia medium pressure UV units are compact and easily fit into available space. These UV have gained acceptance in many swimming pools across Canada and the world. Hanovia SP systems feature an automatic wiper on the UV arc tube quartz sleeve, ensuring optimum performance at all times. Maintenance requirements are minimal, the tube needing replacement twice a year at most - a simple, quick operation carried out by centre staff. Chlorine was previously used as the primary and sole disinfection in many pools. The problem is it reacts with perspiration, oils and urine from swimmers to form chloramines. Chloramines are unhealthy to breath and can cause a foul odour.

UV works in several ways. Its primary action is to kill bacteria, viruses, and moulds/spores, drastically reducing the risk of infection to bathers. UV also has an important secondary action; it initiates photochemical and photo-oxidation reactions which destroy chloramines, the compounds responsible for unpleasant smells in pools. UV also releases Chlorine from previously formed Chloramines allowing the free Chlorine to oxidize organics and pathogens in the pool water.

“The installation and startup was speedy and we are already noticing many positive benefits,” said facility manager Jim Raddysh. “The Chloramine level is low. The typical pool smell is gone, swimmers are happy and Chlorine use has significantly dropped. BI Pure Water also worked with us to train the operator and fine tune the UV equipment.”

The design, tendering and project management of the UV system installation was handled by Ray Riddell of the Capital Regional District in Victoria, BC. Ray commented, “The local organizers are to be congratulated for taking this step of providing first class pools for the Saltspring community.”



The Hanovia medium pressure UV unit can be installed in existing equipment rooms

BI Pure Water specializes in reviewing design information and prescribing the most cost-effective solution. BIPW Engineers and Technicians pilot, design, manufacture, install, start-up and commission package water treatment equipment and plants.

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