

Lake Pump Station (1st Ave.)

Raw lake water is pumped from this station to the Treatment Plant. Online turbidity and ultraviolet transmittance meters monitor the incoming raw water quality.

Water Treatment Plant (McKay Rd.)

At the plant the raw water undergoes ultraviolet light (UV) treatment to neutralize waterborne pathogens including chlorine resistant organisms such as Cryptosporidium and Giardia. As a second level of disinfection and protection within the distribution system, the water is then chlorinated using sodium hypochlorite. Treated water is then pumped into the distribution system and to elevated storage reservoirs. There are three UV reactors each with a capacity to treat 15 Million Litres Per Day (MLD). Two reactors can operate simultaneously for a total plant capacity of 30 MLD.

Sodium Hypochlorite Generator

As a safe alternative to the gaseous form, chlorine is produced on-site in the form of sodium hypochlorite (bleach). This stable 0.8% solution is generated using water, salt and electricity.

Juniper Booster Pump Station

Booster pumps move water from the Juniper Balancing Tank to the Arawana and Stonebrook storage reservoirs at higher elevations.

Arawana Re-chlorination Station

As treated water moves through the distribution system the residual chlorine dissipates over time. The re-chlorination station adds sodium hypochlorite to maintain the residual chlorine level.

Daily Treated Water Volumes:

During the winter months the daily treated water volumes average:

830 m³/d = 0.83 MLD = 219,000 gpd (US)

gpd - gallons (US) per day

During the irrigation season the daily treated water volumes peak during July and August averaging:

13,300 m³/d = 13.3 MLD = 3.5 Million gpd (US)

Misc Facts:

Okanagan Lake Intake Depth - 17m / 55ft

Lake Water Pumps - (x3) 300HP

Treated Water Pumps South - (x3) 250HP

Treated Water Pumps North - (x2) 125 HP

UV Reactors - (x3)

(x32) 350watt lamps per reactor

Treatment Plant Heating/Cooling - Geothermal using raw lake water.

Need More Information?

Water Quality

Call: 250.490.4106

Water System Connections

Call: 250.490-4135

Email: info@rdos.bc.ca

After Hours Water Emergencies

Call: 250.490.2305

Public Works

Naramata Ultraviolet Water Treatment Plant



Ultraviolet Light Reactors at the Treatment Plant

NARAMATA WATER TREATMENT AND DISTRIBUTION OVERVIEW

