

# CONDOMINIUM WATER TREATMENT

## PROJECT OVERVIEW

**Property type: Condominium**

**Location: 10 Queens Quay, Toronto, ON**

**Pipe size: 4" DN100 / 6" DN150**



### Condition

The current conditions of the condominium featured hard water scale buildup in their water systems, decreased flow rates, low equipment efficiency, and excessive consumption caused by hard water for both cooling and heating purposes.



### Solution

A D-SCALE System DN100 has been installed on the primary domestic water line for pre-filtering, treatment, and to inhibit scale formation and buildup. Additionally, an ultrasonic meter has been integrated to provide precise measurements of water usage.

The D-SCALE Treatment DN150 has also been applied to the York Chiller line to reduce chemical treatment, enhance chiller performance and lower energy consumption.



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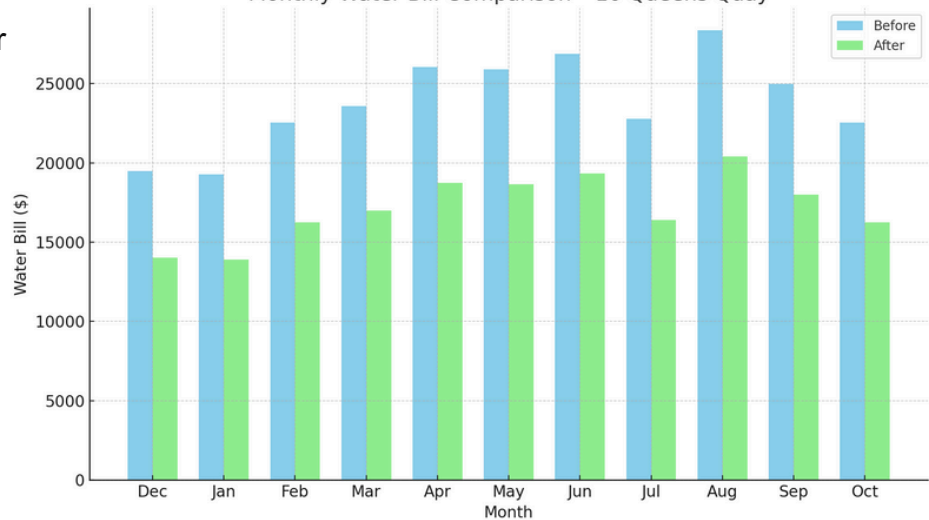


## Measured Results

Achieved a 35% increase in water flow velocity, delivering optimal water quality with significantly reduced scale buildup. The system also enhanced energy efficiency and operational performance.

Water consumption was reduced by 28%, resulting in measurable cost savings and more sustainable operations.

Monthly Water Bill Comparison - 10 Queens Quay



## Conclusion

The D-SCALE system enhanced water flow and equipment efficiency while minimizing maintenance requirements. It led to lower operational costs, real-time monitoring of the domestic line with leak detection, 100-micron pre-filtration and treatment, decreased chemical usage for HVAC systems, and reduced wear and tear on the water system. This resulted in optimal water quality and operational savings.

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