

# Multi-Residential Condominium Reduces Outdoor Water Waste by 43% with Smart Irrigation

<b>CLIENT</b> Dickenson Management	<b>SERVICES</b> Irrigation System Retrofit & IMS Upgrade
<b>TYPES OF BUILDINGS</b> Multi-Residential Condominium	<b>RESULTS</b> 43% reduction in total water use

## THE CHALLENGE

Traditional irrigation systems often suffer from inefficiencies that lead to excessive water use, increased costs, and poor landscape health. At 627 Wharncliffe Road South, the irrigation system was outdated and poorly maintained, leading to issues such as over-pressurization, improper head placement, overwatering, inefficient scheduling, and system leaks. These challenges resulted in significant water waste and higher utility bills, prompting the property board to partner with Smart Watering Systems.

## THE SOLUTION

Smart Watering Systems (SWS) conducted a comprehensive Irrigation Assessment Report, identifying inefficiencies and recommending targeted Retrofit and IMS (Irrigation Management System) Upgrades to optimize water usage. Key upgrades included:

**Zone-Specific System Upgrades** – Redesigning each irrigation zone to improve efficiency and eliminate overwatering.

**Smart Pressure Regulation** – Implementing pressure regulation to reduce excessive water pressure, preventing misting and water loss.



**Head & Sprinkler Optimization** – Replacing or adjusting sprinkler heads to ensure uniform coverage and minimize runoff.

**Automated Scheduling Adjustments** – Modifying watering durations based on landscape needs and environmental factors.

**IMS Implementation** – Integrating real-time monitoring to detect leaks and optimize irrigation schedules.

## THE RESULTS

- ✓ Water usage reduction of 43% across the site, surpassing the projected 37% savings.
- ✓ Eliminated leaks and inefficiencies that had previously gone unnoticed.
- ✓ Long-term cost savings through reduced water bills and improved system longevity.
- ✓ Enhanced landscape health with optimized irrigation distribution.

The Irrigation Management System (IMS) further ensures ongoing savings by eliminating leaks, preventing overwatering, and allowing for remote monitoring. While the initial water usage reduction projection for IMS was 30%, continuous monitoring by SWS is expected to yield even greater savings over time.

Upgrading outdated irrigation systems with smart water management solutions leads to substantial savings and environmental benefits. With pressure regulation and precision irrigation, properties can achieve sustainable water use while maintaining vibrant landscapes.





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