

# 002 Case Study:

## Multi-unit Residential Toilet Replacement Program

Conversion from 13-litre toilets to six-litre models lower water bills

### Actual water savings:

- Annual water savings: 17,926 cubic metres
- Project cost: \$35,844
- Project cost after rebate: \$27,604
- Annual cost savings: \$21,511
- Payback period: 14.6 months
- Cash incentive: \$8,240

### Description:

- A medium-sized 8-story residential apartment building with 138 units (347 residents).
- A 46 year old building, built in 1958.
- A privately-owned multi-residential building.

### Building Improvements:

- Ultra-low-flush toilet retrofit-conversion from 13-litre toilets to 206 Ceralux/Vitra-Atlantis six-litre toilets.
- Each unit received a water-saving spa showerhead, tamper-proof lavatory aerator and a tamper-proof kitchen aerator.



### Greenwin Property Management Inc. 640 Roselawn Avenue

*"Greenwin Property Inc. replaced 13,000 toilets and saved \$1.2 million annually. The City of Toronto's toilet replacement program helped me to convince my clients (Greenwin) that water efficiency is a worthwhile investment."*

Michael Lithgow, Energy Manager, Greenwin Property Management Inc.

### Project Scope

The building's owners installed 206 ultra-low-flush Ceralux/Vitra Atlantis toilets. Once the toilet installations were completed, the WESCO's provided an installation summary report, a leak identification report and analysis, and monthly reports on water and energy savings performance. kitchen aerator.

### Economic Benefits

Prior to installing six-litre toilets and other water efficiency retrofits, the tenants used 850 litres per suite per day. After the old toilets were replaced, **water consumption was reduced by 42 per cent a day** (to 494 litres per suite per day). The reduction in water use resulted in a cost savings of \$21,511 per year. The building owner recovered the project cost in 14.6 months.

Replacing your building's toilets makes cents!

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