

ENGINEERED WATER



AT A GLANCE

Engineered water assets are infrastructure assets that are designed, built, operated and maintained to reliably provide clean water to our homes.

Assets include:

- 2 reservoirs
- 4 water supply wells
- 38 km of pipe
- 1 pump station
- 170 hydrants
- 1700 metered service connections

Residential water meter installation commenced in 2009 to help distribute the total costs associated with our water infrastructure more fairly.

Meters also help identify leaks, which has had a positive impact on overall consumption. In 2014, the Town commenced an annual rate review to ensure adequate finances were in place to operate and maintain the water system, as well as replace aging infrastructure.

Since implementing these measures, daily water consumption has fallen from an average of 800 litres per person to 350 litres per person (including business use, operations, and system losses.)

Typical residential water use is approximately 200 litres per day per person.

COMMUNITY GOALS

- Be proactive by maintaining and monitoring water quality and system capacity
- Plan for future growth by pursuing upgrades and expansion
- Preserve and conserve water supply through:
 - Education
 - Water restrictions
 - Incentive programs
 - Water metering
- Continue water management relationship with SCRD
- Meet or exceed legislative requirements from Vancouver Coastal Health

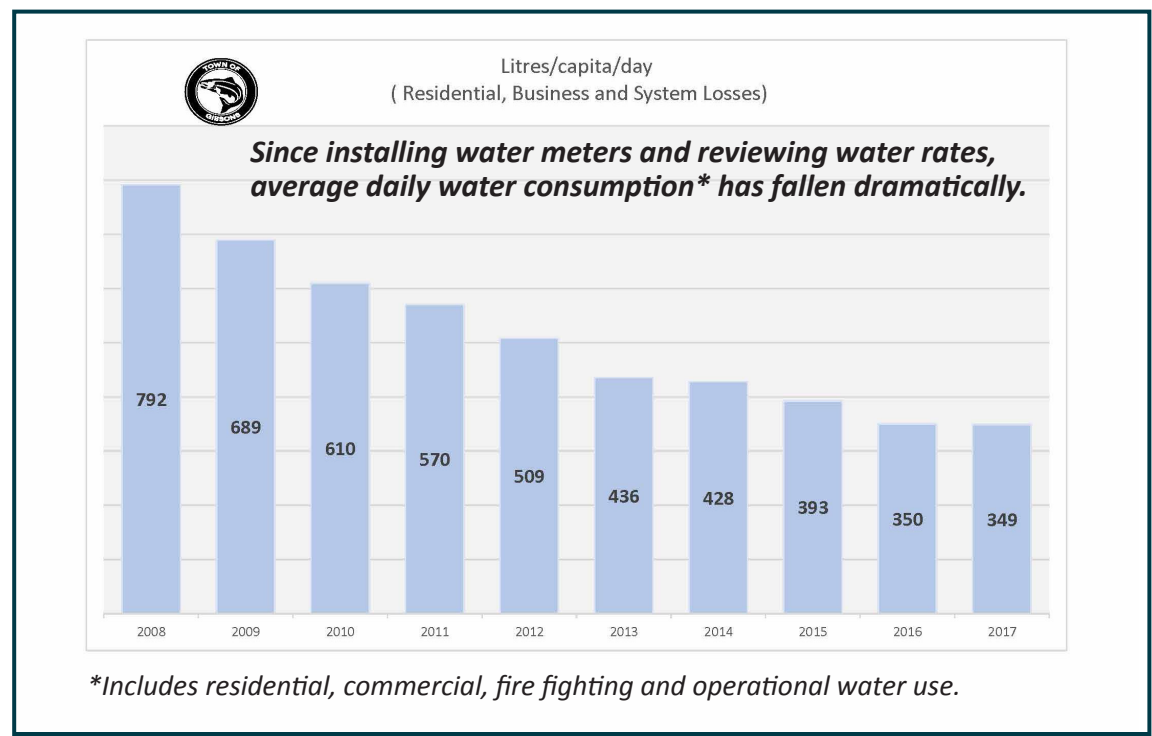
RELIABILITY AND RISKS

Reliable service requires:

- Regular water main replacements
- Water conservation & protection
- Adequate staffing for regular ongoing maintenance

Risks of cutting costs are:

- Costly water main breaks and service disruptions
- Poor water quality



ASSET MANAGEMENT

Replacement Value
\$35.0 million or \$7600 per person

Water rates are reviewed annually to reflect ongoing operations, maintenance and future replacement and capital costs.

Operations & Maintenance
Unidirectional flushing, valve exercising, blow-off valve rehabilitation, consultant flushing program update, hydrant inspections, and chlorination

Long-term Financial Plan

Goal: to achieve a self-sustaining water fund with sufficient reserves to address short and long-term operational and capital requirements.

Reserves Targets:
Operational Reserve with contingency: 30% of annual O&M expenses
Rate Stabilization: 10% of sale of annual parcel taxes and user fees
Capital Reserve: 3% of total asset replacement value

Current & Planned Capital Projects

2018

- Watermain replacement Gibsons Way: \$669,000

2019

- Watermain replacement: \$455,400

2020

- Watermain replacement: \$303,900

2021

- Watermain replacement: \$319,100

2022

- Watermain replacement: \$335,000

