

2017 Watershed Planning Update

UCS2018-0093

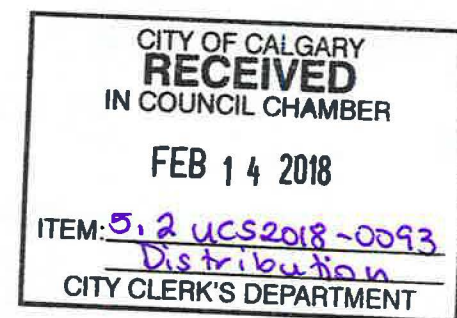
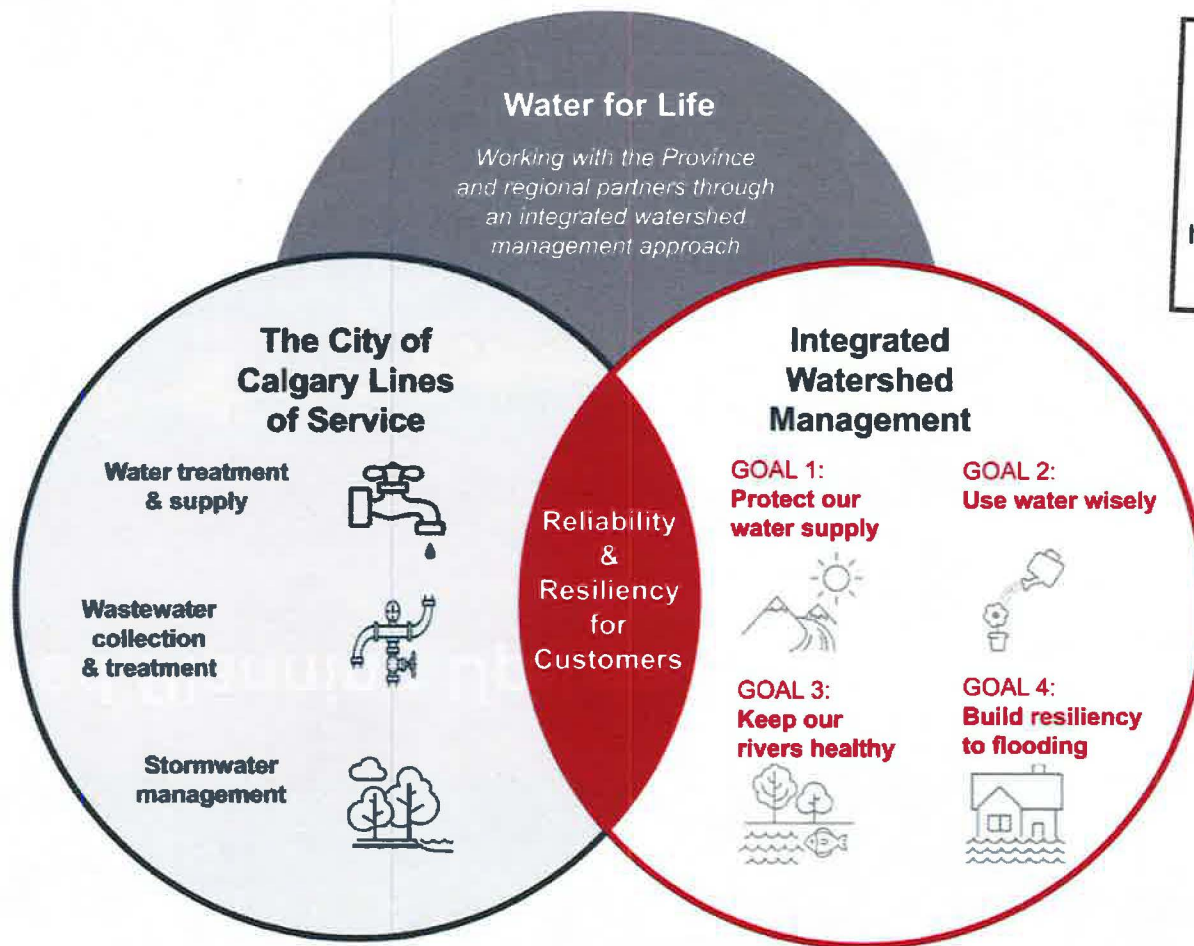
ISC: Unrestricted

Standing Policy Committee on
Utilities and Corporate Services

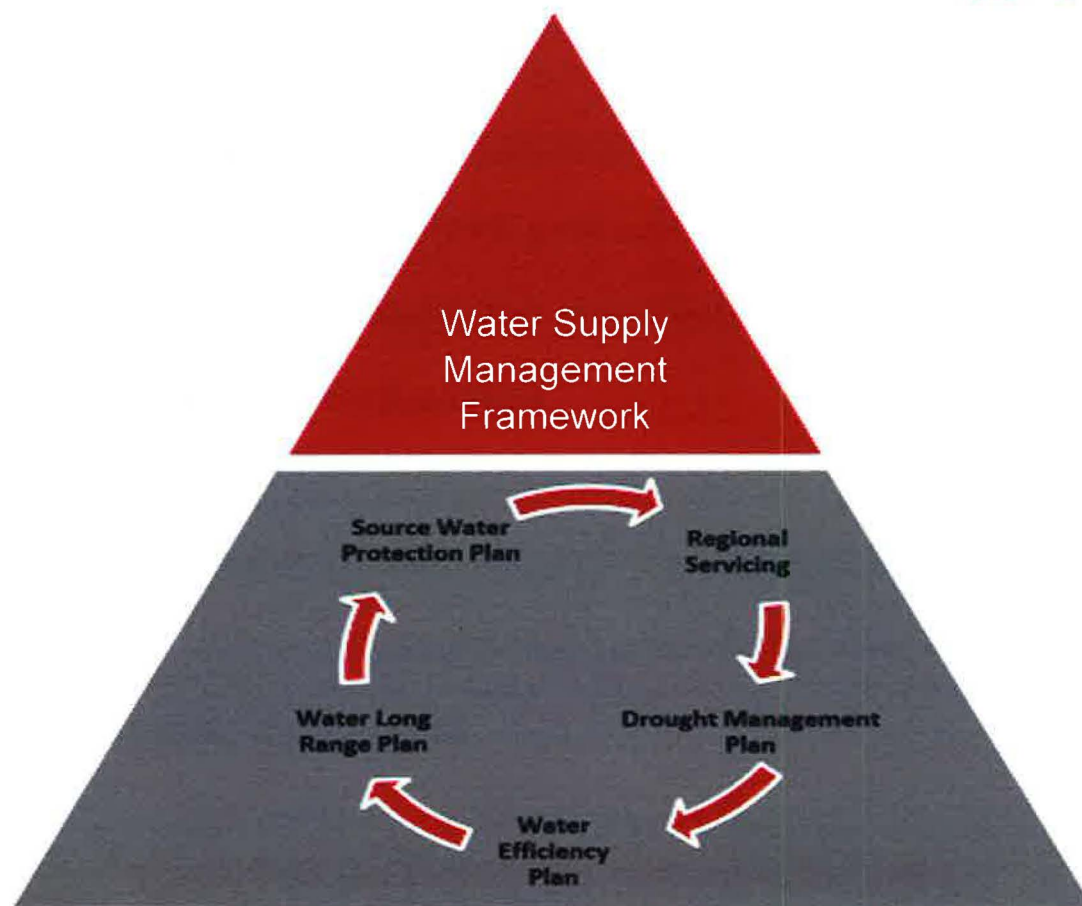
February 14, 2018



Integrated Watershed Management

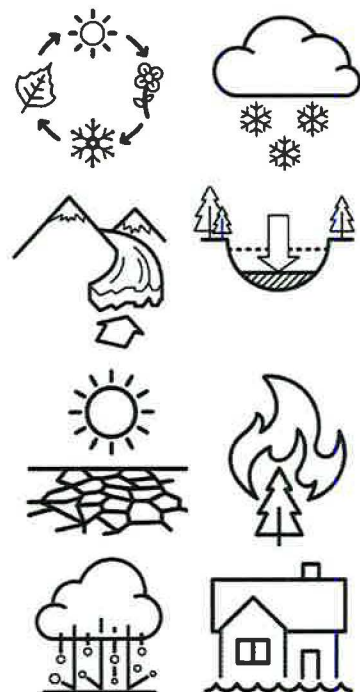


Goal # 1: Protect Our Water Supply



Goal #1 Protect our Water Supply

Climate Impacts to the Watershed



Water availability

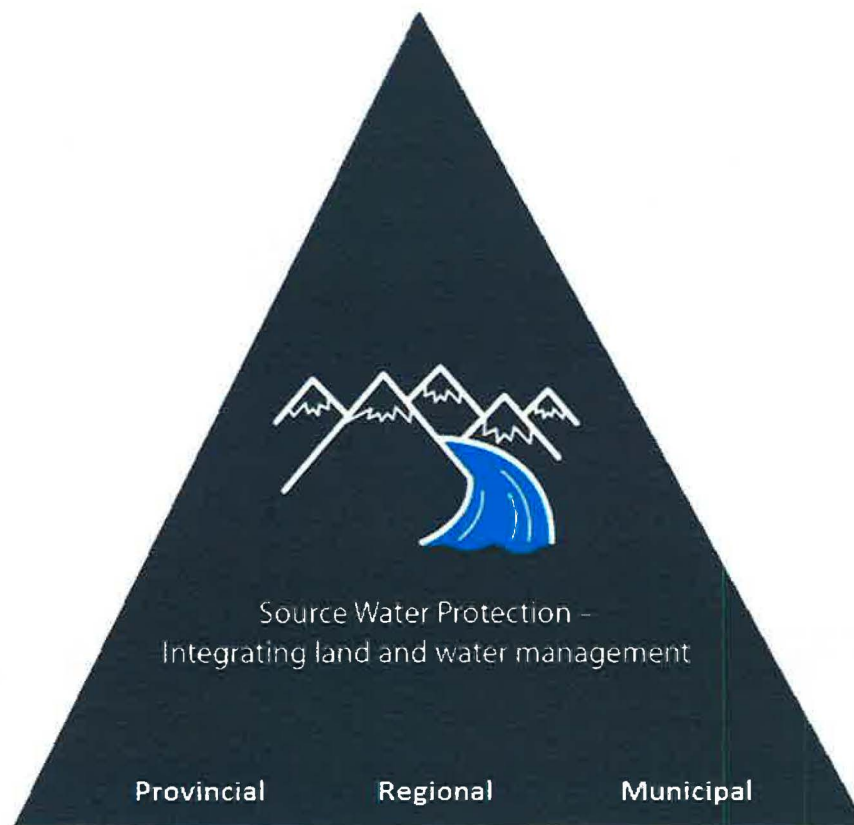
- *How and when* we receive precipitation will change
- Decreased river flow from glacier melt and an earlier spring

More extreme events

- Summers will be drier with higher risk of drought
- Heat waves elevate forest fire risk, impacting water quality
- High intensity precipitation - increased flooding and water quality concerns

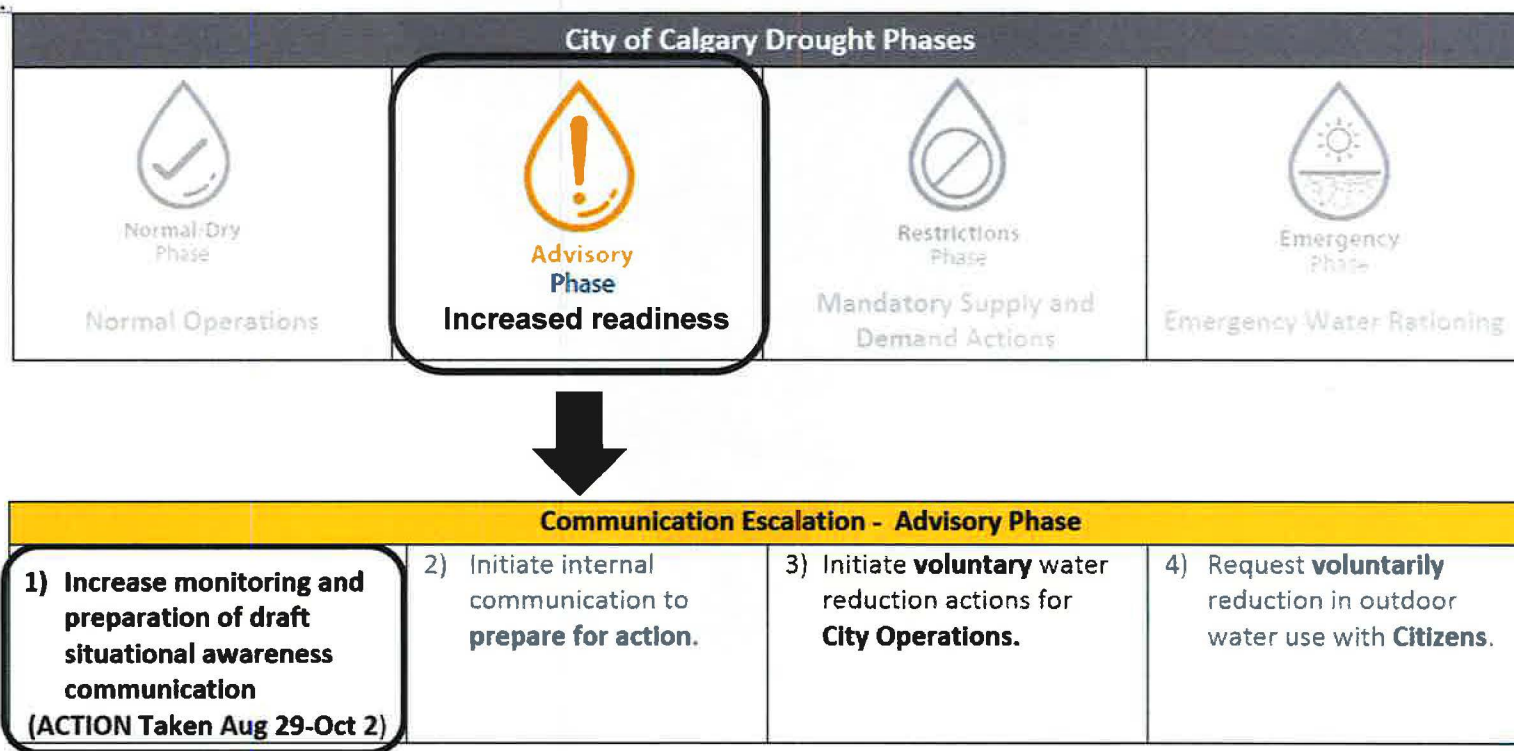
Goal #1 Protect our Water Supply

Source Water Protection

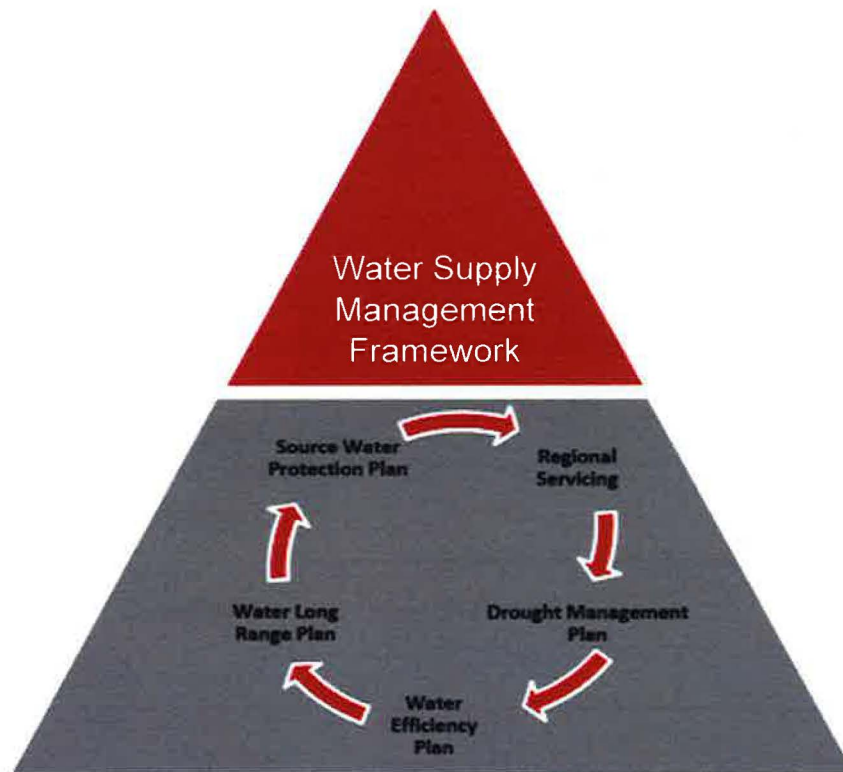


Goal #1 Protect our Water Supply

Drought Management

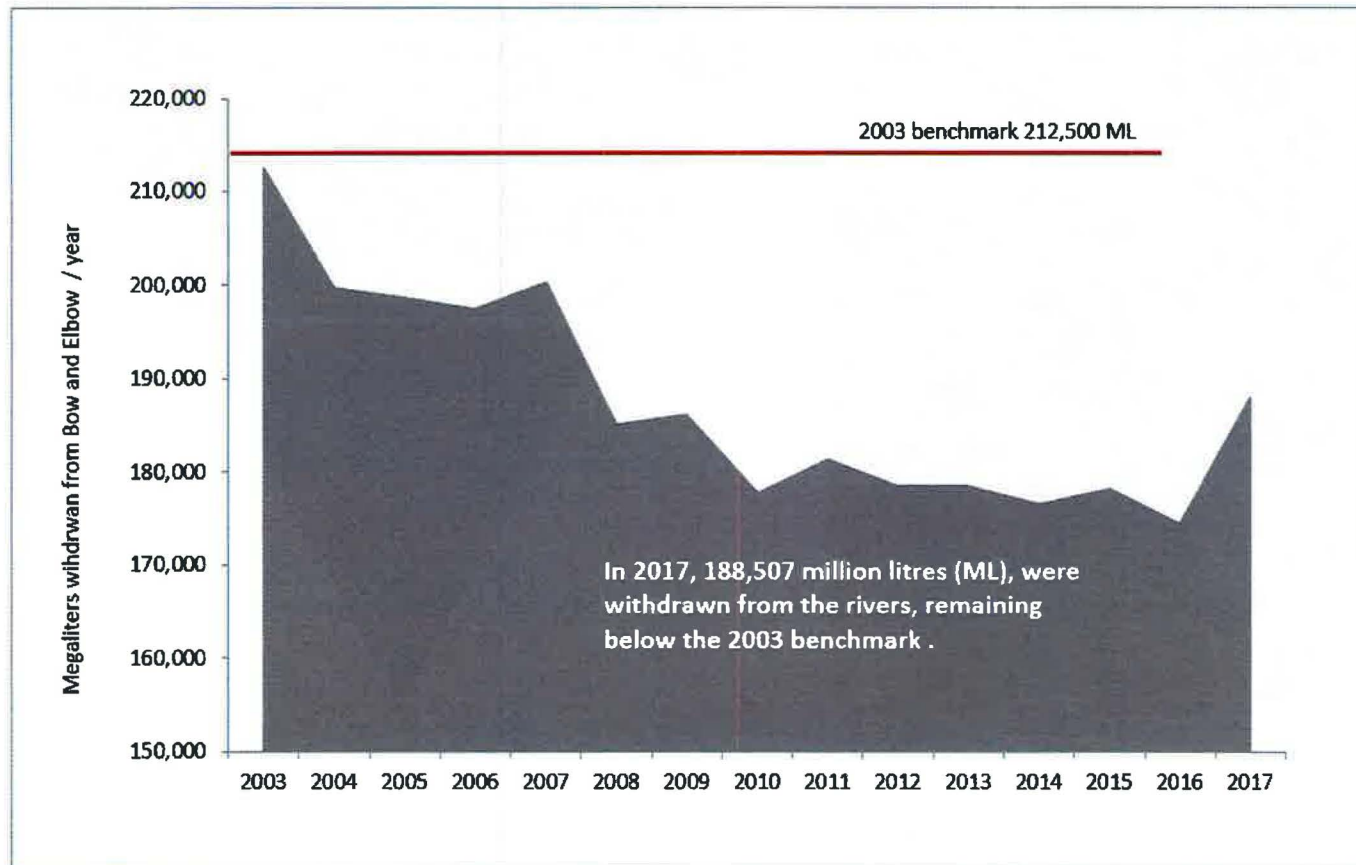


Goal # 2: Use water wisely



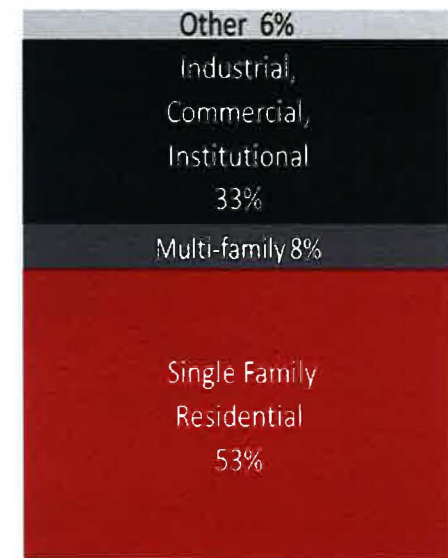
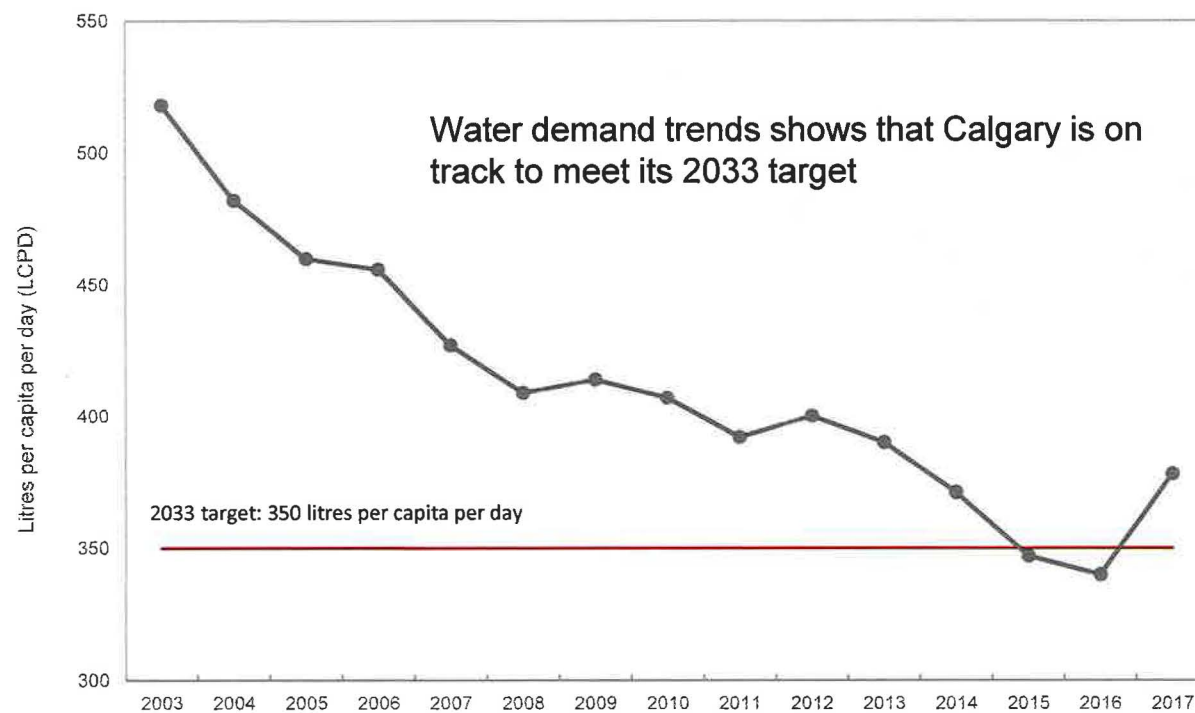
Goal #2 Use Water Wisely

River Withdrawals



Goal #2 Use Water Wisely

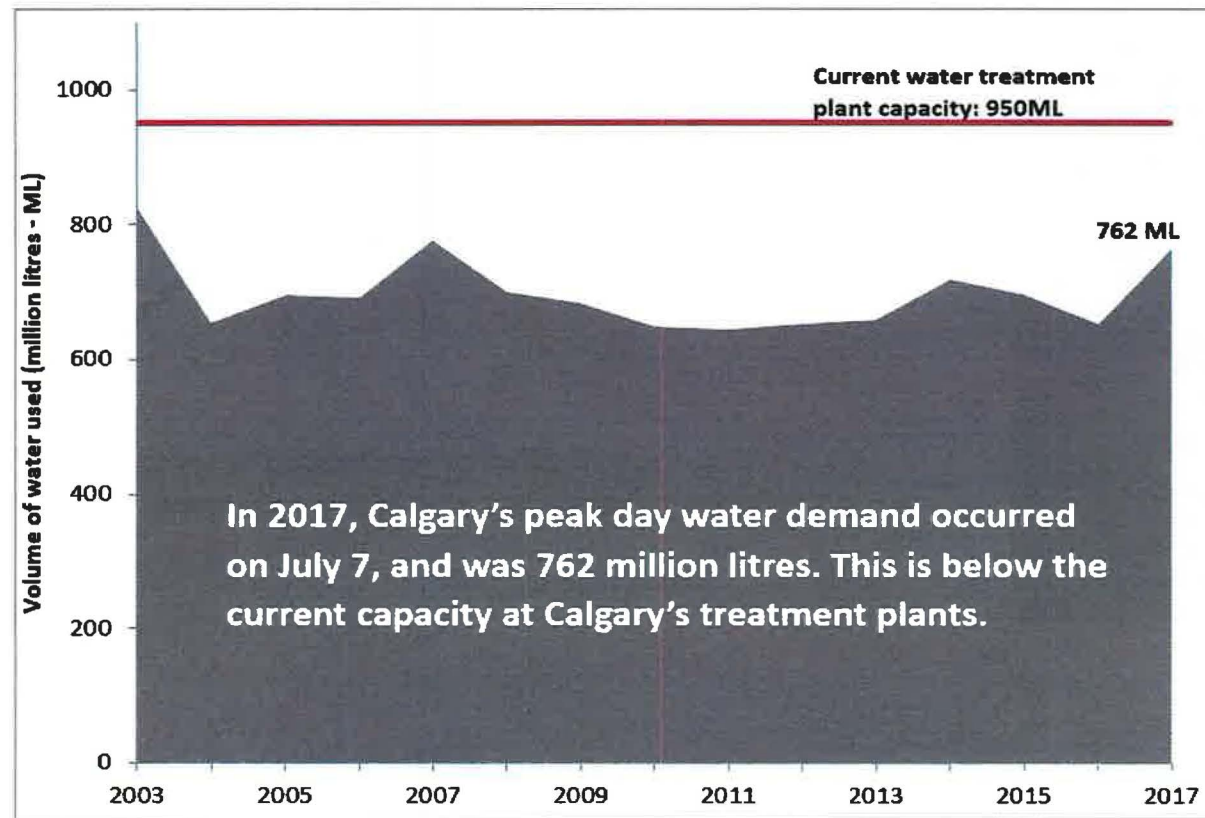
Per capita water demand



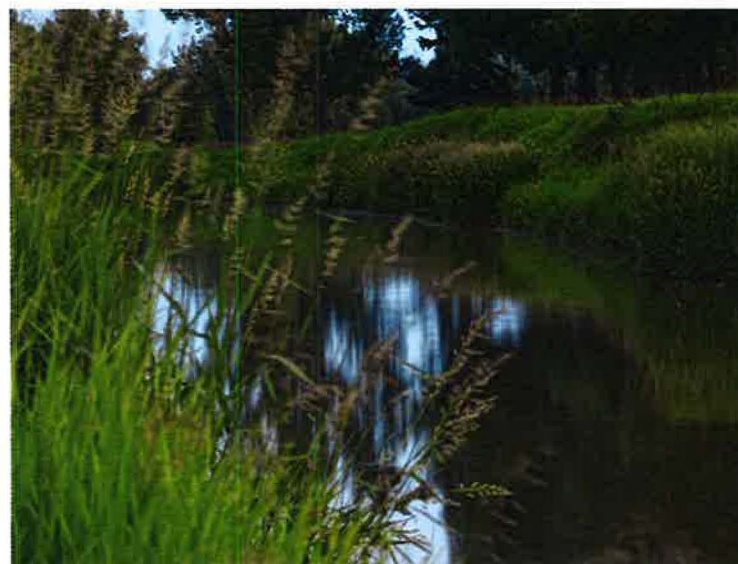
Water demand by customer type

Goal #2 Use Water Wisely

Peak Day Demand



Goal # 3: Keep our rivers healthy



Goal #3 Keep our Rivers Healthy

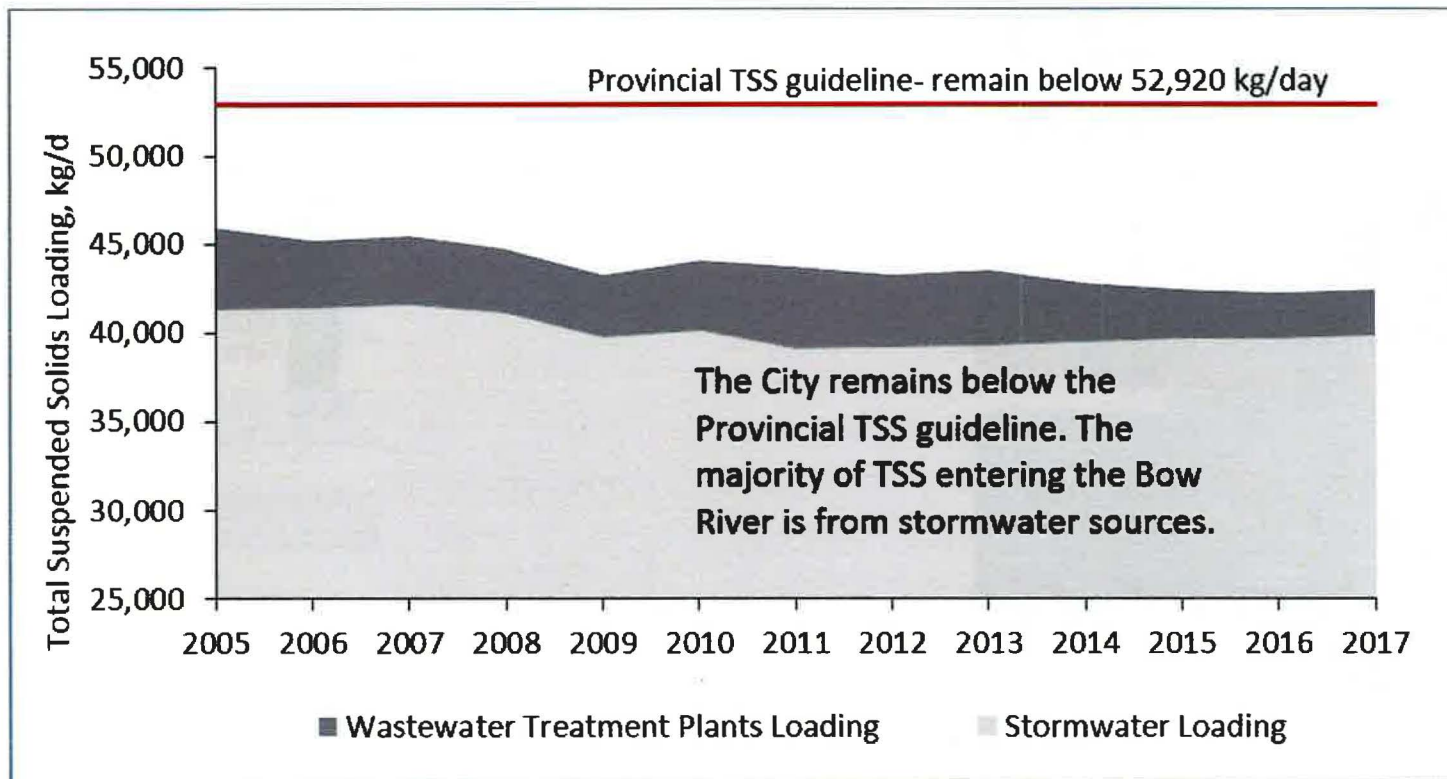
Wastewater Treatment



Major upgrades at the Bonnybrook Wastewater Treatment Plant

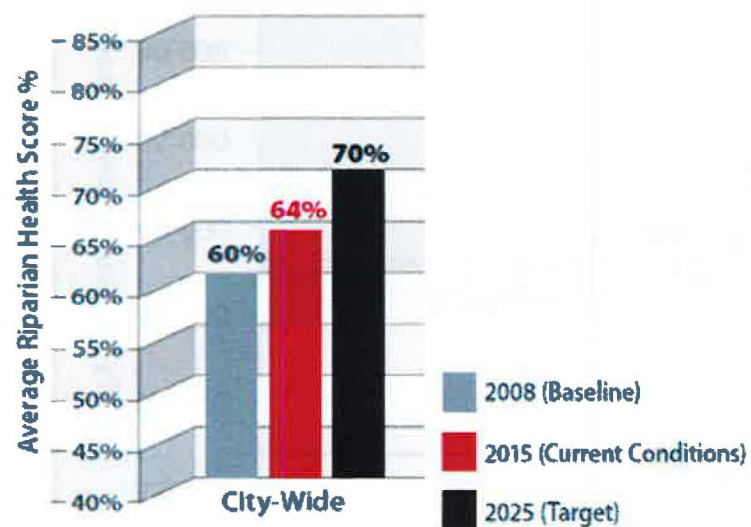
Goal #3 Keep our Rivers Healthy

Total Loading Management



Goal #3 Keep our Rivers Healthy

Riparian Action Program



City-wide riparian health scores



Goal # 4: Build resiliency to flooding



ADMINISTRATION RECOMMENDATION

That the SPC on Utilities and Corporate Services recommends that Council receive this report for information.