

Toronto Water

Safe Drinking Water Act
Standard of Care Training for
Members of Council



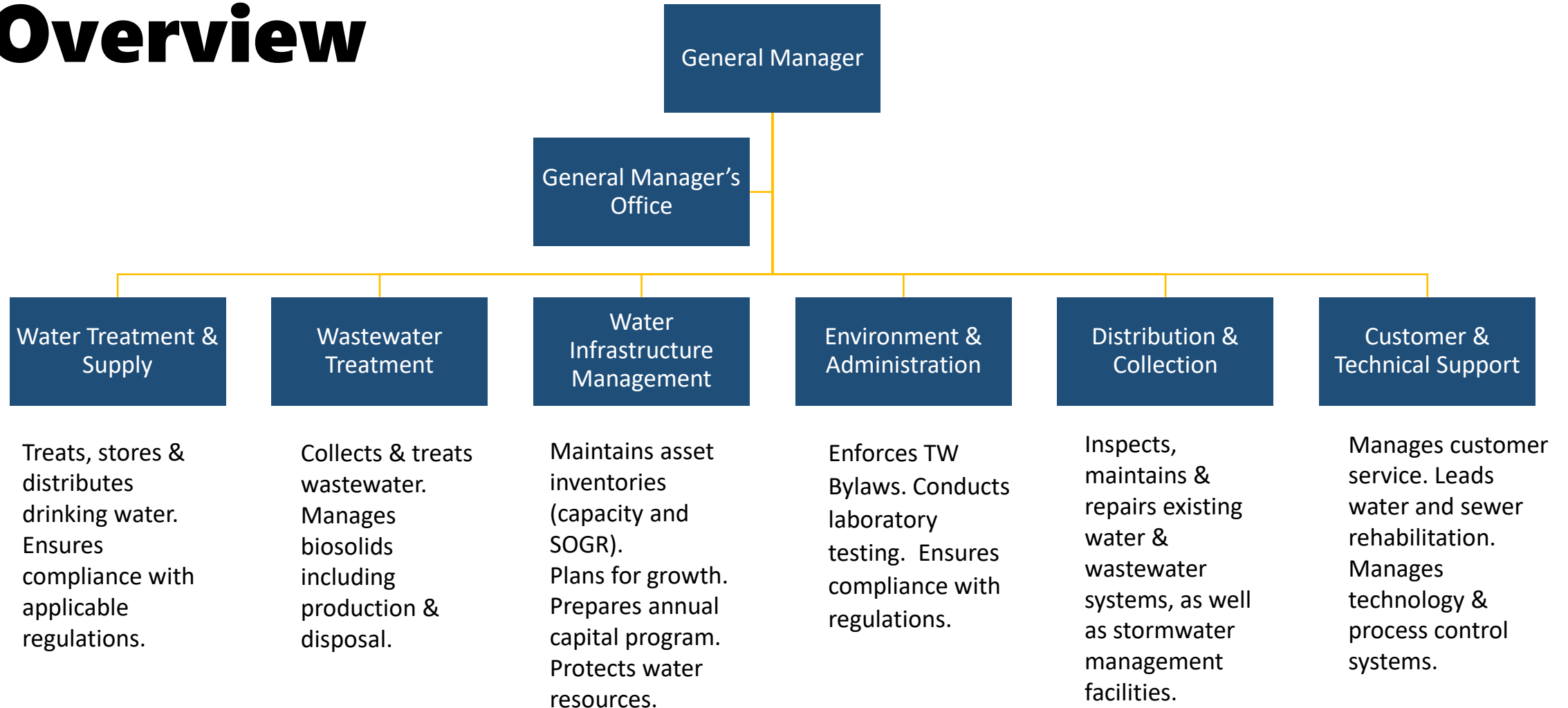


Toronto Water

Toronto Water is responsible for all aspects of drinking water treatment and supply, wastewater collection and treatment, and stormwater management.

- one of the largest municipal water, wastewater utilities in North America
- \$83 billion worth of public infrastructure
- over 1,900 staff, and
- operates in a highly regulated environment.

Organizational Overview



Toronto's Drinking Water

4 water filtration plants

11 reservoirs

4 elevated storage tanks

5,583 km of distribution watermain

525 km of trunk watermain

517,688 water service connections

18 water pumping stations

Annual reporting

- Sewers and Water Supply By-laws Compliance and Enforcement Annual Report
- Lead in Drinking Water Mitigation Strategy
- Drinking Water Quality Annual Analysis Summary
- Drinking Water System
- Drinking Water System Summary

Licensing and Accreditation

- Environmental Compliance Approval
- Drinking Water Licensing Renewal (every 5 years)
- Accreditation Process (third-party audit) (every 3 years)

Regulatory Oversight

- Ministry of the Environment, Conservation and Parks
 - Safe Drinking Water Act
 - Clean Water Act
 - Environmental Protection Act
 - Environmental Assessment Act
 - Water Resources Act
 - Sustainable Water and Sewage Systems Act
- Health Canada
- Ministry of Health (MOH)
- Toronto Public Health



Significant Work is Underway

To improve water quality at the source:

- Wet Weather Flow Master Plan
- Stormwater Management Program

To improve water treatment processes:

- Process and Plant upgrades

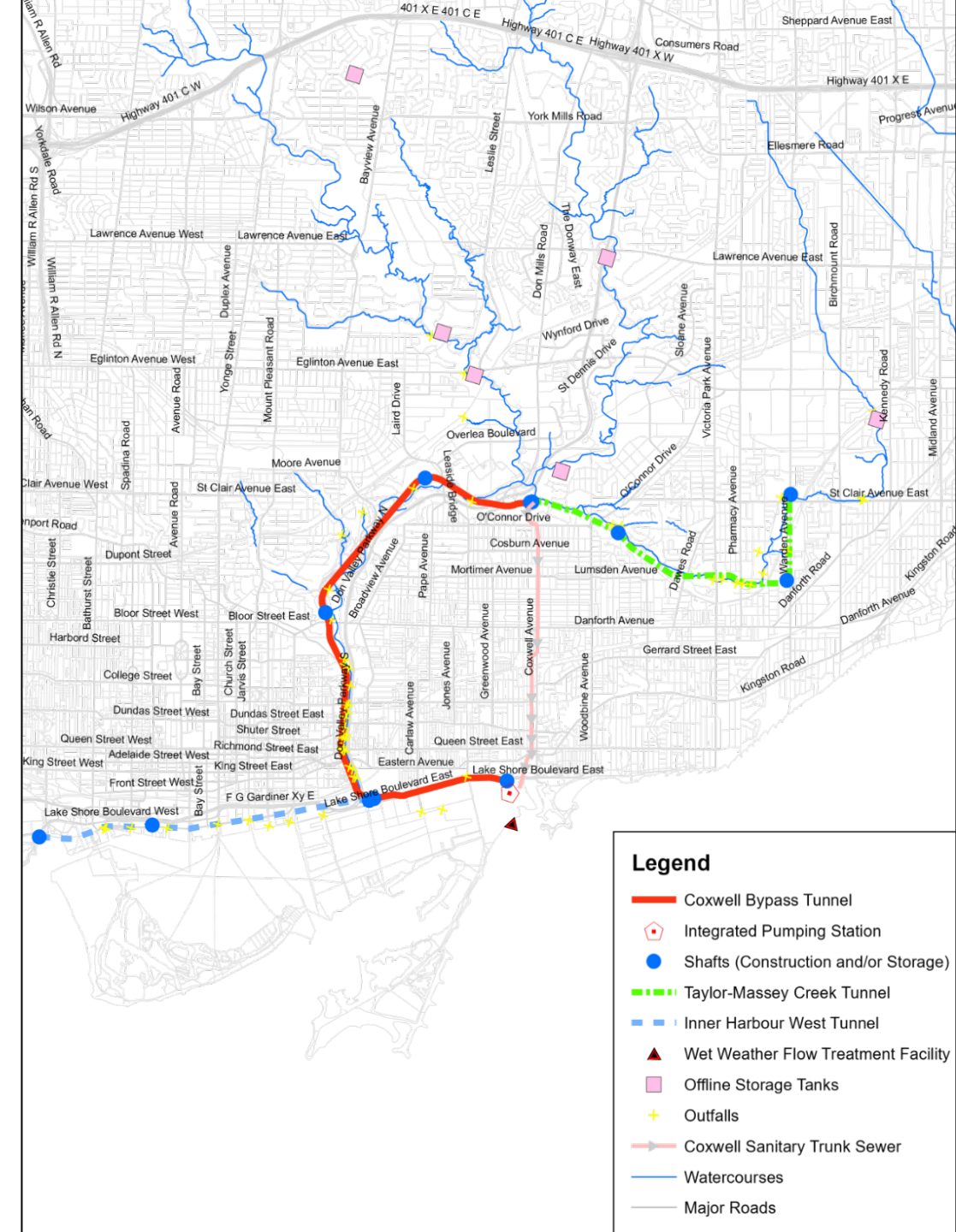
To improve water distribution:

- Watermain rehabilitation and replacement projects



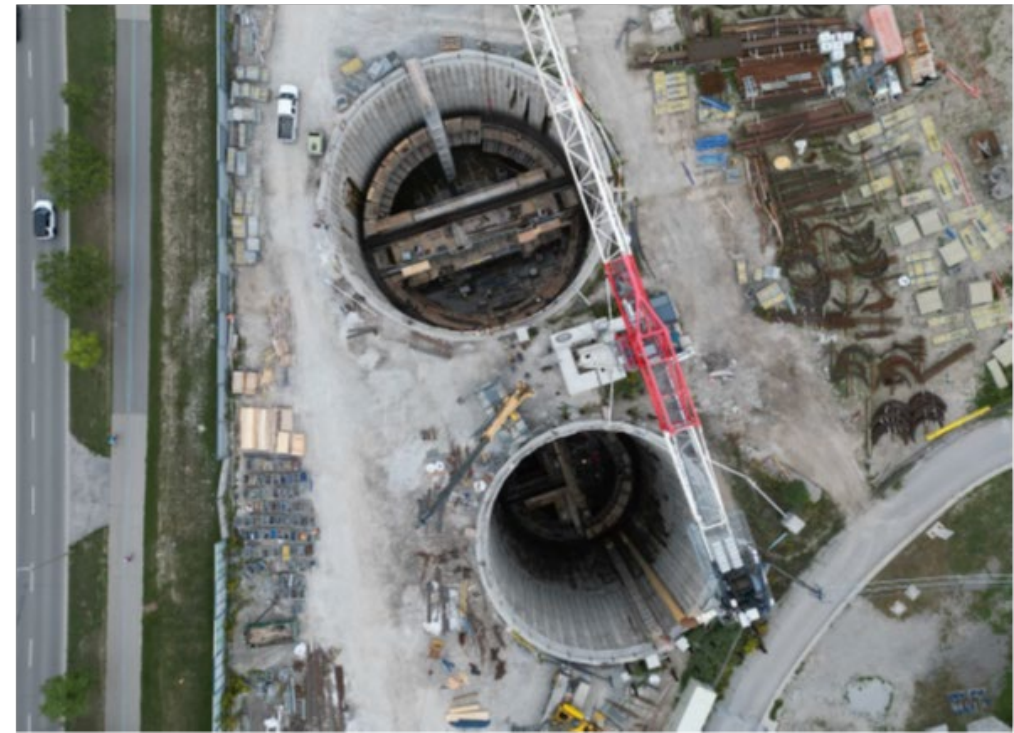
Project Highlight: Don River & Central Waterfront Project

- Toronto's most significant water quality improvement initiative and one of the largest infrastructure projects of its kind in Canada.
- The project is recognized in the **2020 Canada Ontario Agreement Respecting Great Lakes Water Quality and Ecosystem Health** as a key action to de-list Toronto's waterfront as a polluted Area of Concern in the Great Lakes Basin.
- The project aims to eliminate combined sewer overflow discharged from outfalls along the Lower Don River, Taylor-Massey Creek and Toronto's Inner Harbour. This will significantly improve water quality in these areas.



Project Highlight: Integrated Pump Station

- A critical component to the Don River and Central Waterfront Project is the Integrated Pumping Station (IPS) at the Ashbridges Bay Treatment Plant.
- The IPS will convey flows from the tunnel system to a new High Rate Treatment Facility.
- The IPS will serve to replace the two existing wastewater pump stations and capture flows from four CSOs that currently discharge into the Coatsworth Cut.
- The High Rate Treatment Facility is to be constructed on the Landform adjacent to the Ashbridges Bay Treatment Plant and will discharge to the new Ashbridges Bay Treatment plant outfall.





Project Highlight: Fairbank-Silverthorn Storm Trunk Sewer

- One of the City's largest Basement Flooding Protection Projects, the Fairbank-Silverthorn Storm Trunk Sewer Project involves construction of approximately 17 km of new storm sewers, a new storm trunk sewer/tunnel, and a new outfall.
- These works will reduce pressure on the existing combined sewer system and will reduce basement flooding risk in the project area.





Project Highlight: Island Water Treatment Plant

\$160 million capital upgrade project at the Toronto Island Water Treatment Plant to improve operations, increase efficiency of the plant, and meet Ministry of Environment, Conservation and Parks regulatory requirements.

Upgrades include:

- 6 story Residuals Management Facility to house new process equipment (environmental regulation);
- vault facility to house UV disinfection that will provide additional public health protection against pathogens and reduce the use of chemicals in the disinfection process;
- solar panels with battery storage generating 3.6 megawatts that can power the entire Island WTP (TransformTO and Council GHG emissions objectives).



Project Highlight: **Watermain Rehabilitation**

- The City replaces and rehabilitates more than 130 kms of watermain each year to extend the life and improve performance of the water distribution system.
- Results of this continuous investment include fewer watermain breaks and mitigating water quality potential risks associated with breaks and leaks.

The background features a collage of images related to water treatment, including water being poured from a tap and laboratory glassware like test tubes and beakers. These images are overlaid on a grid of white-outlined hexagons. The colors of the hexagons vary, with some being a light beige and others a teal or light blue.

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