

2022 Program Summary

Toronto Water

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Description

Toronto Water manages one of the largest water, wastewater and stormwater systems in North America, 24 hours a day, seven days a week.

Toronto Water's services ensure that over 3.6 million residents and businesses in Toronto, and portions of York and Peel have access to safe drinking water, safely treated wastewater and stormwater management.

Why We Do It

Drinking water is delivered to people (residents, businesses, visitors and the Industrial, Commercial, Institutional sector in Toronto and York Region) in a safe and reliable manner to protect public health.

Wastewater is collected from people (residents, businesses and the Industrial, Commercial, Institutional sector in Toronto and Peel Region) and treated in a safe and environmentally sustainable way to protect public health.

Stormwater (rain and melted snow) is collected or diverted to help prevent the risk of property flooding, control erosion and improve water quality to protect public health and Toronto's waterways.

The City of Toronto aims to deliver these outcomes equitably, efficiently and with excellent customer service to help improve the lives of Torontonians and work to earn their trust and confidence.

What Service We Provide

Water Treatment & Supply

Who We Serve: Water account holders and water consumers.

What We Deliver: Supply +435 billion litres annually of safe potable water. Continuous distribution of potable water through +6,100 km of watermains and City-owned water services.

How Much Resources (gross 2022 operating budget): \$197 million

Wastewater Collection & Treatment

Who We Serve: Wastewater account holders, wastewater producers, public & private landowners

What We Deliver: Return to Lake Ontario +400 billion litres annually of treated wastewater. Continuous conveyance of wastewater through +5,600 km of sewers.

How Much Resources (gross 2022 operating budget): \$231 million

Stormwater Management

Who We Serve: Public and private landowners

What We Deliver: Continuous conveyance of stormwater (rainwater and melted snow) through +4,900km of storm sewers.

How Much Resources (gross 2022 operating budget): \$44 million

Budget at a Glance

2022 OPERATING BUDGET

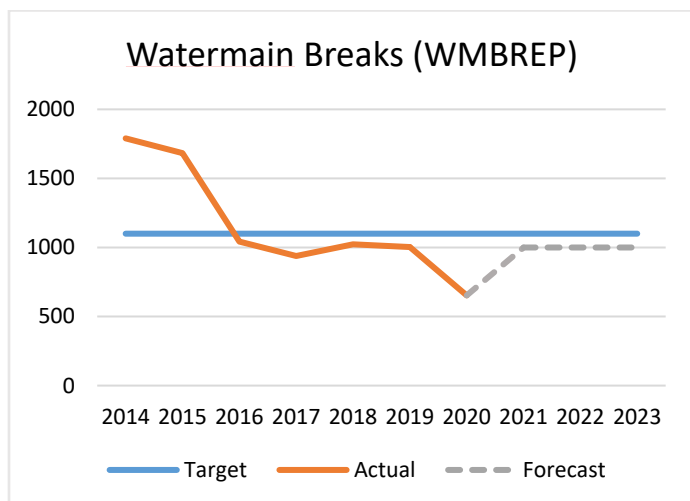
\$Billion	2022	2023	2024
Revenues	\$1.447	\$1.478	\$1.522
Gross Expenditures	\$0.471	\$0.482	\$0.491
Capital Contribution	\$0.976	\$0.996	\$1.031
Approved Positions	1,883.3	1,891.3	1,892.3

2022 - 2031 10-YEAR CAPITAL PLAN

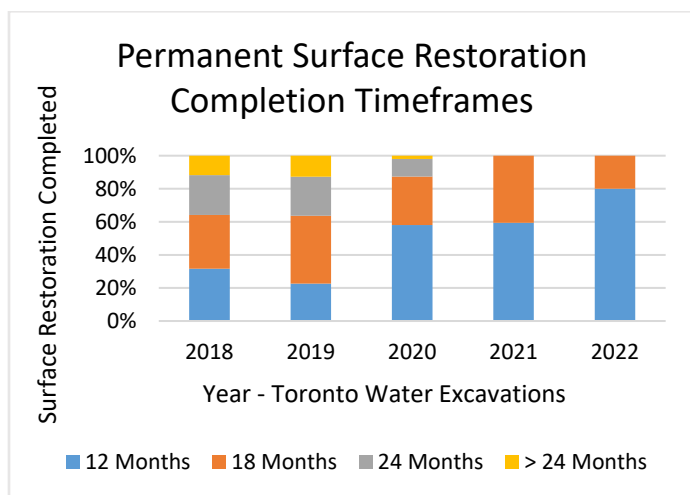
\$Billion	2022	2023-2031	Total
Gross Expenditures	\$1.409	\$13.673	\$15.082
Debt	\$0.000	\$0.000	\$0.000

Note: Includes 2021 carry forward funding

How Well We Are Doing – Behind the Numbers



- Toronto Water currently operates over 5,500km of water distribution pipes that provide safe and reliable drinking water to the residents, businesses and visitors of Toronto and York Region.
- Toronto Water has made significant capital investments in infrastructure renewal projects (i.e. water main replacement, cathodic protection and structural lining) that have contributed to the gradual decline in watermain breaks.
- Inclement weather (extreme cold or temperature fluctuations) continues to be the leading cause of watermain breaks followed by excavation activities, corrosive soils and ground settling.
- Toronto Water is investing \$1.94 billion in the 2022-2031 budget for capital improvements that will contribute towards ensuring an overall good condition of the local water distribution network.



- In July 2018, Toronto Water assumed responsibility for the permanent surface restoration program within the public right-of-way (ROW) (for sewer/water service repairs and upgrades and watermain/sewer breaks) previously managed by Transportation Services.
- Permanent restoration requires the replacement of asphalt and concrete where City construction has occurred.
- Each year, Toronto Water completes an average of 8,500 excavations within the ROW and approximately 5,000 of these locations require permanent surface restoration.
- The goal of the Toronto Water program is to minimize the time between excavation and permanent restoration. In 2020, and trending in 2021, 60% of permanent road restorations are now completed within 12 months. In 2022, the target is to increase this to 80% being completed within 12 months.

How Well We Are Doing ● 80% - 100%; ● 64 - 79%; ● 63% and under)

Service	Measure	2019 Actual	2020 Actual	2021 Target	2021 Projection	*Status	2022 Target	2023 Target
Outcome Measures								
Water Treatment & Supply	Watermain Breaks per 100 km of Water Distribution Pipe	16.5 per 100km	10.7 per 100km	22 per 100km	22 per 100km	●	22 per 100km	22 per 100km
Water Treatment & Supply	Drinking Water Non-Compliance	0	1	0	0	●	0	0
Water Treatment & Supply	Percent Time Operating Within 276 kPA to 793 kPA Requirements	97.0%	99.1%	99.5 %	99.1%	●	99.5%	99.5%
Wastewater Collection & Treatment	Non-Compliance Events Wastewater Treatment)	1	0	0	0	●	0	0
Wastewater Collection & Treatment	Mainline Backups per 100 KM of Pipe	3.6	3.4	4.0	4.0	●	4.0	4.0
Stormwater Management	ML of Dedicated (designed) Stormwater Storage Capacity	1,248 ML	1,248 ML	1,248 ML	1,248 ML	●	1,248 ML	1,248 ML
Service Level Measures								
Water Treatment & Supply	Water Treatment Non-Compliance Events	0	1	0	0	●	0	0
Water Treatment & Supply	Target Pressure Limits (Pressure Maintenance)	97.0%	99.1%	99.5 %	99.1%	●	99.5%	99.5%
Wastewater Collection & Treatment	Pumping Station Outages	0	0	0	0	●	0	0

Service	Measure	2019 Actual	2020 Actual	2021 Target	2021 Projection	*Status	2022 Target	2023 Target
Wastewater Collection & Treatment	Wastewater Treatment Non-Compliance Events	1	0	0	0	●	0	0
Stormwater Management	Number stormwater ponds inspected/maintained	1,069	1,080	990	1,116	●	990	1,080
Other Measures								
Water Treatment & Supply	Electrical kWh per ML of Water Pumped	344 kWh per ML	309 kWh per ML	330 kWh per ML	309 kWh per ML	●	330 kWh per ML	330 kWh per ML
Wastewater Collection & Treatment	Percent Biosolids Beneficially Used (ABTB)	100%	100%	100%	100%	●	100%	100%
Stormwater Management	Water Course Inlet/Outlet Inspections	4,025	6,175	3,000	3,000	●	3,000	3,000

COVID-19 IMPACT AND RECOVERY

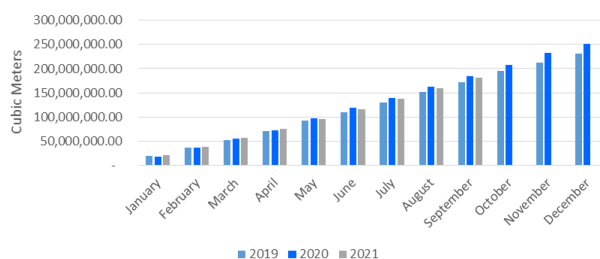
2022 Impact and Recovery

Operating Budget Impact

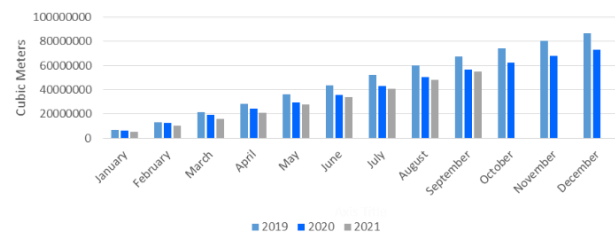
- A projected \$13.690 million loss in sale of water and private water agreements in 2021 due to lower consumption impacted by weather and stay at home orders and closures/slowdowns in Industrial, Commercial and Institutional sector (ICI). Year-end results can vary significantly due to the uncertainty of consumption levels impacted by weather, a change in consumer habits and/or a change in government orders for closures. The savings from hiring delays and other underspending will be used to offset COVID-19 related revenue losses. The loss in sale of water are not considered to be permanent losses and are not anticipated to continue in 2022.
- Continued costs for health and safety supplies and protocols are included in the 2022 Operating Budget

Estimated (not billed) Water Consumption Comparisons

Residential Consumption Comparison
(2021, 2020, 2019 Cumulative)



ICI Consumption Comparison
(2021, 2020, 2019 Cumulative)



Service Level Changes

- Toronto Water continues to provide safe drinking water; safe collection and treatment of wastewater; and, stormwater management during the global pandemic. There are no impacts to service levels as a result of COVID-19.

EXPERIENCES, CHALLENGES AND PRIORITIES

Our Experience and Success

- Long-term \$2.6 billion Don River and Central Waterfront projects now actively underway. Phase 1, the Coxwell Bypass Tunnel, at 10.5km long and 6.3m in diameter, will intercept combined sewer overflows and stormwater discharges from 23 sewer outfalls improving beach, river and lake water quality.
- Replaced/rehabilitated approximately 90km of watermains to help reduce watermain breaks and ensure customers have reliable safe drinking water.
- Invested \$16.181 million in upgrades to aging water reservoirs/water pumping stations to ensure safe, reliable storage and distribution of drinking water.
- Replaced/rehabilitated approximately 140km of aging sewers to address state-of-good-repair (SOGR) needs.
- Invested \$231.733 million in critical upgrades to the Ashbridges Bay Wastewater Treatment Plant the second largest treatment plant in Canada serving more than 1.5 million people.
- The Toronto Water Customer Care Centre (CCC) was initiated in 2017 resulting in \$0.747 million in savings due the reduction of 8 positions. From January 1, 2021 to October 1, 2021, there were approximately 194,220 interactions including: incoming/outbound calls, emails and outbound calls for COVID-19 pre-screening for customer service required for homes/businesses. The CCC allows for the management of a surge in call volumes including the ability to make outbound calls during complex and lengthy severe weather incidents or emergencies.
- Historical Asset Valuation: Toronto Water's core assets were valued at \$28 billion for water, wastewater and stormwater infrastructure based on historical cost of constructed assets inflated to estimate its replacement as well as appraisal valuations. Introduced in 2006, this approach was utilized in response to guidance from the Public Sector Account Board for tangible capital assets.
 - Regulation: In 2017, Province of Ontario enacted Ontario Regulation 588/17 Asset Management Planning (AMP) for Municipal Infrastructure to support improvements in municipal asset management:
 - The legislation aims to standardize how Ontario municipalities plan their infrastructure, share best practices and enable the collection of comparable data for long-term planning and budgeting. City of Toronto to complete asset management plans as of July 1, 2022 for the City's Core Infrastructure Assets (water, wastewater, stormwater, roads, bridges and culverts asset groups).
 - Updated Asset Valuation: The Toronto Water AMP has been completed and the updated replacement cost of Toronto Water's infrastructure is \$83 billion. The asset replacement valuation takes into consideration recent appraisal reports for facilities and average unit rates for pipe installation based on bid pricing. The replacement costs will continue to be evaluated as costs can vary significantly based on site constraints and conditions, project delivery approach, project bundling, market conditions and material price fluctuations.
 - Toronto City Council adopted the Toronto Water AMP on November 9, 2021.

Key Challenges and Risks

- **Capital construction costs:** Staff have observed some increases in tender costs for certain work types. Explanations for cost escalations are speculative at this time (may be partly due to supply chain reliability and COVID-19). Current tenders are being closely monitored. In the event of high pricing, some projects may be deferred until prices are stable.
- **Adequate reserve balances to fund state-of-good-repair program:** Capital delivery programming that focuses on short and long-term forecasting and critical outcomes.
- **Investment in technology that puts customer service, security and efficiency first:** Resources and long-term planning are critical to ensure replacement and sustainment of outdated technology. For example, the Enterprise Work Management System (EWMS), the new 311 Enterprise Customer Relationship Management System (ECRM) and new Cyber Security Threat protection software and procedures.
- **Asset readiness/critical response processes:** Ensure operational resilience and minimize risk to assets during extreme weather occurrences.

Priority Actions

- **Customer Service:** Ensure efficient and effective response times for customer service demands including improved customer service culture, technology and infrastructure.
- **Workforce Strategies:** Ongoing development of hiring strategies during the hiring slow down period for critical, vulnerable and hard to fill positions including on-the-job training programs and planning for demographic changes.
- **State-of-Good-Repair:** Continued long-term investment in SOGR projects and reducing the backlog to \$359.0 million by 2031.
- **Growth:** Development of strategy to manage pressure on linear infrastructure in growth areas.
- **Resiliency:** Long-term significant investment in Council approved Wet Weather Flow Master Plan projects to protect the environment and lake, river and stream water quality including \$2.27 billion for the Basement Flooding Protection Program, completion of Environmental Assessments for all Basement Flooding Studies Areas by 2023 and investing \$1.32 billion over the 10-years to implement the Don River and Central Waterfront project, with all project phases forecasted for completion in 2038.
- **Modernization:** Planning for resources to implement, support and maintain new technologies including cybersecurity

RECOMMENDATIONS

City Council approved the following recommendations:

1. City Council approve the 2022 Operating Budget for Toronto Water of \$471.228 million gross, \$1,447.021 million revenue and \$975.793 million net for the following services:

Service:

	Gross Expenditures (\$000s)	Revenue (\$000s)	Capital from Current Contribution (\$000s)
Water Treatment & Supply	196,749.6	632,947.6	436,198.0
Wastewater Collection & Treatment	230,918.1	803,249.1	572,331.0
Stormwater Management	43,560.4	10,824.2	-32,736.2
Total Program Budget	471,228.1	1,447,020.9	975,792.8

2. City Council approve the 2022 staff complement for Toronto Water of 1,883.3 positions comprised of 130 capital position and 1,753.3 operating positions.
3. City Council approve 2022 Capital Budget for Toronto Water with cash flows and future year commitments totaling \$8,001.172 million as detailed by project in [Appendix 6a](#).
4. City Council approve the 2023-2031 Capital Plan for Toronto Water totalling \$7,081.173 million in project estimates as detailed by project in [Appendix 6b](#).
5. City Council request that all sub-projects with third party financing be approved conditionally, subject to the receipt of such financing in 2022 and if such funding is not forthcoming, their priority and funding be reassessed by City Council relative to other City-financed priorities and needs.
6. That City Council include a Toronto Water Capital contribution towards the following project, identified as a priority restoration project by the Toronto and Region Conservation Authority, as part of the 2022 Toronto Water Capital Budget, with funds from the Toronto Water Capital Reserve and administered by Transportation Services, and Parks, Forestry and Recreation as follows:
 - a. \$2,912,000 for Scarborough Bluffs West Project Environmental Assessment with a total project cost of \$2,912,000 cash flow in 2022 (\$728,000); 2023 (\$1,456,000); and 2024 (\$728,000).
7. City Council request the Toronto and Region Conservation Authority to include in their 2022 Budget submission a request for the Scarborough Bluffs West Project Environmental Assessment as part of the 2022 Budget process.
8. City Council direct the City Manager to enter into an agreement with the Toronto and Region Conservation Authority to complete the Scarborough Bluffs West Environmental Assessment Project.
9. City Council direct the City Manager, in consultation with the Toronto and Region Conservation Authority, to continue to seek senior government support for advancing the phased detailed design and implementation Scarborough Waterfront Project.

2022 OPERATING BUDGET

2022 OPERATING BUDGET OVERVIEW

Table 1: 2022 Operating Budget by Service

(In \$000s)	2020 Actual	2021 Budget	2021 Projection*	2022 Budget	Change v. 2021 Projection	
By Service	\$	\$	\$	\$	\$	%
Revenues						
Water Treatment & Supply	629,265.6	619,109.7	616,307.0	632,947.6	16,640.6	2.7%
Wastewater Collection & Treatment	799,401.6	785,617.5	776,704.7	803,249.1	26,544.4	3.4%
Stormwater Management	7,958.1	10,609.2	9,526.7	10,824.2	1,297.5	13.6%
Total Revenues	1,436,625.4	1,415,336.3	1,402,538.4	1,447,020.9	44,482.5	3.2%
Expenditures						
Water Treatment & Supply	199,478.0	195,791.0	186,333.1	196,749.6	10,416.5	5.6%
Wastewater Collection & Treatment	214,464.9	229,905.6	216,285.8	230,918.1	14,632.3	6.8%
Stormwater Management	33,295.9	43,127.5	40,840.1	43,560.4	2,720.3	6.7%
Sub-Total - Gross Expenditures	447,238.8	468,824.0	443,459.0	471,228.1	27,769.1	6.3%
Capital Contribution	989,386.6	946,512.3	946,512.3	975,792.8	29,280.5	3.1%
Surplus (2021 Projection)			12,567.1		(12,567.1)	(100.0%)
Sub-Total - Capital Contribution	989,386.6	946,512.3	959,079.4	975,792.8	16,713.4	1.7%
Total Gross Expenditures	1,436,625.4	1,415,336.3	1,402,538.4	1,447,020.9	44,482.5	3.2%
Approved Positions**	1,841.3	1,841.3	N/A	1,883.3	N/A	N/A

*2021 Projection based on Q2 Variance Report

**YoY comparison based on approved positions

Table 1 above details the 2022 Operating Budget of \$471.228 million in gross expenditures and \$975.793 million in capital contributions and provides a comparison to 2021 projected year-end actuals. Given the financial impacts of COVID-19 on 2021 actuals, a further comparison of the 2022 Base Budget to the 2021 Council approved Budget is provided below:

- 2022 Base Expenditure Budget of \$471.228 million reflects a \$2.404 million net increase from the 2021 Council approved Budget.
- 2022 Base Revenue Budget of \$1,447.021 million reflects a \$31.685 million net increase from the 2021 Council approved Budget.

COSTS TO MAINTAIN EXISTING SERVICES

Total 2022 Base Budget expenditures of \$471.228 million gross reflect an increase of \$27.769 million in spending above 2021 projected year-end actuals, predominantly arising from:

- Salaries and benefits increases due to cost of living adjustments and filled vacancies in 2022 as Toronto Water continues to implement its hiring strategy that had been in place prior to COVID-19 hiring slow down.
- Slow-down in spending related to production costs, including hydro impacted by lower consumption of water sold in 2021 is not anticipated to continue in 2022, resulting in higher costs more reflective of pre-pandemic levels.
- Inflationary increases for utilities, chemicals and contract services.
- Operating costs for salaries and benefits from completed capital projects, including 32 positions to operate new facilities and infrastructure, and deliver capital projects.
- Annualised costs from the transfer of the Utility Cut Program from Transportation Services, requiring the addition of 8 positions to sustain the program's success and continue the improved service levels.

- Above pressures are partially offset by base expenditure savings arising from a line by line review, other operational efficiency savings, and higher revenues from sale of water to Region of York, new water service connections, and other revenue.

The 2022 Operating Budget includes a 3 per cent rate increase. Approximately 67 per cent of Toronto Water's 2022 Operating Budget or 3 per cent above the 2021 approved capital contribution (prior to the 2021 projected surplus) will go towards the annual capital reserve contribution to fund the 10 year Capital Plan.

EQUITY IMPACTS OF BUDGET CHANGES

No significant equity impacts: The changes in Toronto Water's 2022 Operating Budget do not have any significant equity impacts.

2022 OPERATING BUDGET KEY DRIVERS

The 2022 Operating Base Budget for Toronto Water is \$471.228 million gross or 6.3% higher than the 2021 Projected Actuals. Table 2 below summarizes the key cost drivers for the base budget.

Table 2: 2022 Operating Budget by Revenue / Expenditure Category

Category (In \$000s)	2019 Actual \$	2020 Actual \$	2021 Budget \$	2021 Projection* \$	2022 Budget \$	2022 Change from 2021 Projection	
						\$	%
Sale of Water and Other Revenues	1,263,595.9	1,349,418.9	1,336,943.1	1,320,726.9	1,368,825.9	48,099.0	3.6%
User Fees	70,696.6	70,623.8	61,899.9	65,404.6	63,075.2	(2,329.3)	(3.6%)
Transfers From Capital	7,296.6	9,084.5	9,364.3	9,278.0	10,432.2	1,154.3	12.4%
Contribution From Reserves/Reserve Funds	4,278.6	7,182.0	6,814.3	6,814.3	4,351.0	(2,463.3)	(36.1%)
Inter-Divisional Recoveries	133.8	316.3	314.7	314.7	336.5	21.8	6.9%
Total Revenues	1,346,001.5	1,436,625.4	1,415,336.3	1,402,538.4	1,447,020.9	44,482.5	3.2%
Salaries and Benefits	176,938.9	180,819.3	187,541.6	180,341.6	190,819.7	10,478.1	5.8%
Materials & Supplies	94,819.6	96,504.4	106,902.2	96,699.9	105,281.9	8,582.0	8.9%
Equipment	3,151.7	2,199.2	2,835.3	2,184.2	2,687.5	503.3	23.0%
Service and Rent	66,552.4	66,747.4	75,474.6	69,340.8	75,197.4	5,856.7	8.4%
Contribution To Reserves/Reserve Funds	10,674.8	10,706.3	10,690.2	10,690.2	12,397.8	1,707.6	16.0%
Other Expenditures	15,753.8	24,917.7	16,816.0	17,687.6	18,179.3	491.7	2.8%
Inter-Divisional Charges	66,389.4	65,344.6	68,564.1	66,514.7	66,664.4	149.8	0.2%
Total Gross Expenditures	434,280.6	447,238.8	468,824.0	443,459.0	471,228.1	27,769.1	6.3%
Capital Contribution	911,720.9	989,386.6	946,512.3	946,512.3	975,792.8	29,280.5	3.1%
Surplus (2021 Projection)				12,567.1		(12,567.1)	(100.0%)
Capital Contribution	911,720.9	989,386.6	946,512.3	959,079.4	975,792.8	16,713.4	1.7%

*2021 Projection based on Q2 Variance Report

Key Base Drivers:

Salaries and Benefits: Include increases due to cost of living adjustments and anticipated positions to be filled. In addition, the increase include 16 positions to operate new facilities and infrastructure, 16 positions to deliver capital projects, 8 positions linked to the transfer of the Utility Cut Program from Transportation Services, and 4 positions to support the increasing volume and complexity of development applications, wholly funded by development application review fees. Above increases are partially offset by a reduction of 2 dedicated transit positions linked to decreasing work volume on the Eglinton Crosstown, funded by third party revenue.

Materials and Supplies: Include natural gas and chemical inflationary increases higher than Consumer Price Index (CPI) and CPI increases on existing material contracts, partially offset by ongoing hydro efficiencies. The 2022 budget also include provisions for contingencies and estimates based on fluctuating weather conditions.

Services and Rents: Include CPI inflationary increases on existing service contracts. The 2022 budget also include provisions for contingencies and estimates based on fluctuating weather conditions.

Contributions to Reserves: Include increases in contribution to insurance reserves to better align with a full cost recovery model.

Contribution to Capital: Approximately 67 per cent of the 2022 Operating Budget will go towards the capital reserve contribution to fund the 10-year Capital Plan, representing a 3 per cent increase over 2021 projected capital reserve contribution (prior to the 2021 projected surplus).

Revenue Changes: Include rate increase of 3 per cent on sale of water that will go towards the annual capital reserve contribution. Water consumption and other revenues from private water agreements are expected to rebound as restrictions ease and non-essential businesses return to operations. Above increases are partially offset by a reduction in contributions from reserves linked to Utility Cut Backlog delivered by Transportation Services to match projected interdivisional charges from Transportation Services.

Offsets and Efficiencies:

The 2022 Operating Budget includes \$5.599 million in gross expenditure and \$6.689 million in net expenditures reductions attributed to:

Line-by-Line: A reduction in base expenditures in materials and supplies and other non-salary costs contributes to Toronto Water's efforts to manage continuous cost increases from internal and external sources.

Efficiencies: Ongoing hydro savings and efficiencies that Toronto Water has been able to achieve through implementation of various utility conservation oriented initiatives. These initiatives contribute to climate resiliency and reduced Greenhouse Gas emissions. Toronto Water has also utilized technology to improve on efficiency in contract administration and estimates, contributing to savings in contracted service costs

Revenue Increase: Various user fee revenue increased to align to projected actual volume and inflationary rate increases.

Note:

For additional information on 2022 key cost drivers refer to [Appendix 2](#) for a summary of balancing actions.

2023 & 2024 OUTLOOKS**Table 3: 2023 and 2024 Outlooks**

(\$000s)	2021 Projection	2022 Budget	2023 Outlook	2024 Outlook
Revenues	1,402,538.4	1,447,020.9	1,477,956.0	1,522,104.4
Gross Expenditures	443,459.0	471,228.1	481,900.3	490,740.3
Capital Contribution	946,512.3	975,792.8	996,055.7	1,031,364.0
Surplus (2021 Projection)	12,567.1			
Total Capital Contribution	959,079.4	975,792.8	996,055.7	1,031,364.0
Approved Positions	N/A	1,883.3	1,891.3	1,892.3

Key drivers

The 2023 Outlook with total gross expenditures of \$481.900 million reflects an anticipated \$10.672 million or 2.3 per cent increase in gross expenditures above the 2022 Operating Budget. The 2024 Outlook expects a further increase of \$8.840 million or 1.8 per cent above 2023 gross expenditures.

These changes arise from the following:

- Inflationary increases for salaries and benefits and annualized impact of 2022 added positions.
- Anticipated inflationary increases for utilities, chemicals, other materials and supplies, contracted services, contributions to Toronto and Region Conservation Authority and payment in lieu of taxes.
- Operating impacts of completed capital projects, including an anticipated 8 **(2023)** and 1 **(2024)** additional positions required to operate new facilities and infrastructure and deliver capital projects.

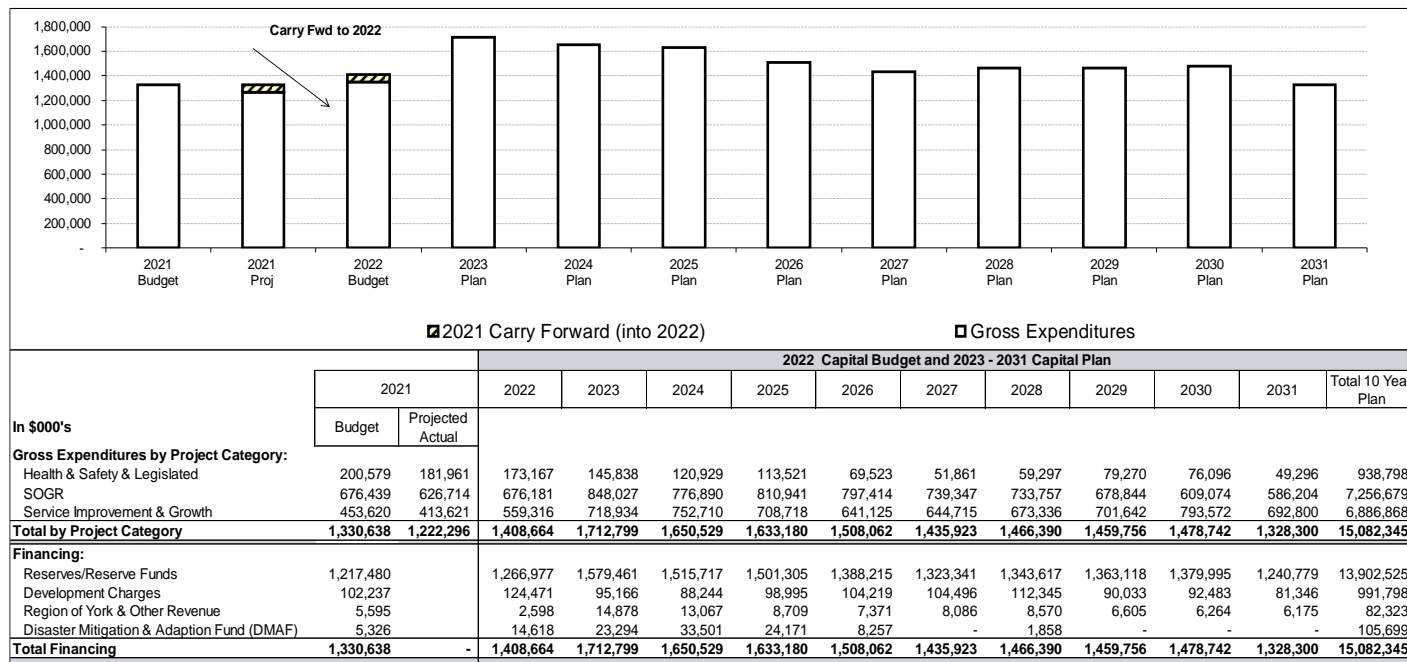
Revenues are expected to increase as a result of an anticipated 3 per cent water rate increase in 2023 and a further 3 per cent increase in 2024.

2022 – 2031 CAPITAL BUDGET AND PLAN

2022 – 2031 CAPITAL BUDGET & PLAN OVERVIEW

Chart 1: 10-Year Capital Plan Overview (\$000)

10-Year Capital Plan Overview



Changes to Existing Projects

- The 2022-2031 Capital Budget and Plan reflects an increase of \$310.579 million as compared to the 2021-2030 Capital Budget and Plan. Key Changes include:
- Increased funding of \$349.307 million to support linear infrastructure renewal and upgrades.
- Increased funding of \$75.789 million to support the implementation of the Basement Flooding Protection Program.
- Readjusted funding for ten-year plan - 2022 revision of \$280.276 million for the Wet Weather Flow program, based on revised project schedules and priorities.
- Increased funding of \$172.542 million to support the infrastructure at the Wastewater Treatment Plants.

New Projects

- The 2022-2031 Capital Budget and Plan does not include new programs. Some of the key investments are as follows:
- \$7.257 billion for SOGR projects to ensure the replacement or rehabilitation of aging watermain and sewers and investment in the aging water and wastewater facilities.
- \$5.156 billion for Service Improvement projects including \$2.270 billion in Basement Flooding Protection projects, and \$1.323 billion to support the Don River and Central Waterfront project.
- \$0.939 billion for Legislative and Health & Safety projects
- \$1.731 billion for Growth Projects.











Capital Needs Constraints

- Toronto Water does not have any unmet needs over the 10-year planning horizon.

Note:

For additional information, refer to [Appendix 6](#) for a more detailed listing of the 2022 and 2023-2031 Capital Budget & Plan by project; [Appendix 7](#) for Reporting on Major Capital Projects – Status Update; and [Appendix 8](#) for Capital Needs Constraints, respectively

2022 – 2031 CAPITAL BUDGET AND PLAN**\$15.1 Billion 10-Year Gross Capital Program**

				
Plant & Facilities	Underground Infrastructure	Stormwater Management	Basement Flooding Protection Program	Engineering, Yard & Network Improvements
\$4.315B 29%	\$5.710B 38%	\$1.828B 12%	\$2.270B 15%	\$0.959B 6%
Water Filtration Plants; Wastewater Treatment Plants; Pumping Stations; and Storage & Reservoirs 	Watermain and Sewer Replacement/ Rehabilitation; Water Service Replacement; and New Connections 	Wet Weather Flow Projects (end of pipe, infrastructure erosion protection); Don River & Central Waterfront 	Engineering Studies; Implementation Basement Flooding Protection; Subsidy Program 	Engineering Support; Business & Technology; Yards & buildings; Water Efficiency & Metering 

 - Project supports Climate Resiliency and / or Greenhouse Gas (GHG) Reduction*

*Information above includes full project / sub-project 2022-2031 Budget and Plan cash flows. Does not break out the climate component costs separately

How the Capital Program is Funded

City of Toronto		Provincial Funding	Federal Funding	
\$ 14,976.6M 99.3%		\$0.0M 0%	\$ 105.7M 0.7%	
Reserve Draws	\$ 13,902.5M		Disaster Mitigation and Adaptation Fund	\$ 105.7M
Development Charges	\$991.8M			
Region of York and Other*	\$ 82.3M			

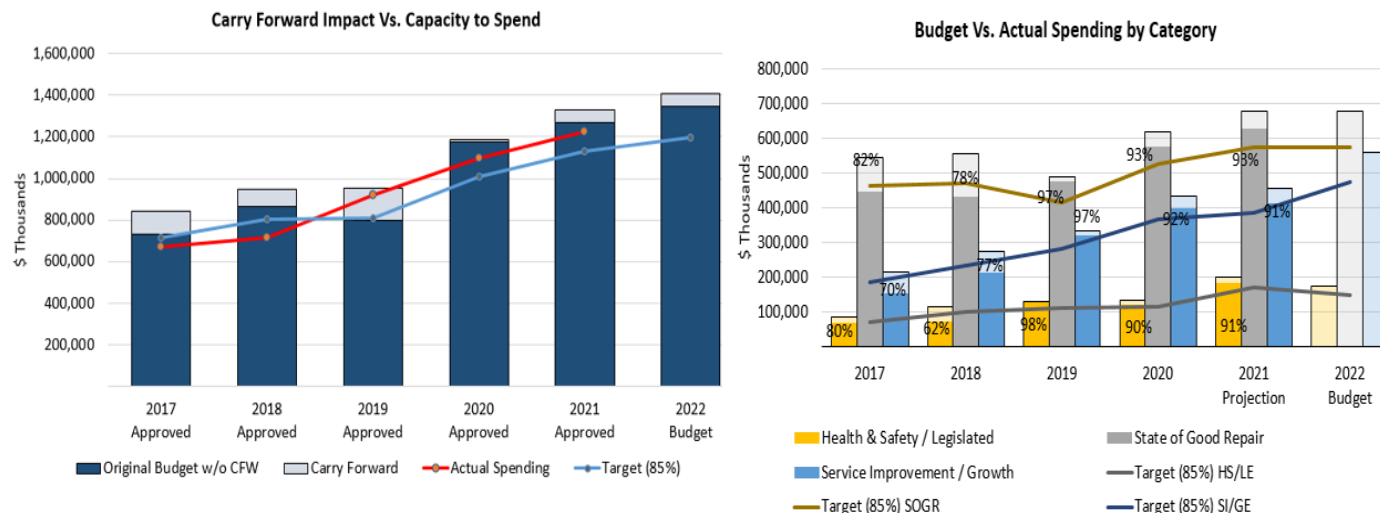
* Toronto Water's 10-Year Capital Plan includes forecasted funding of \$80 million for the expected Toronto Region & Conservation Authority (TRCA) Watercourse Erosion Control project, to be spent between 2023 and 2031. It is assumed that approximately 67% (\$53 million) will be funded by other orders of government. The funding has yet to be secured.

CAPACITY TO SPEND REVIEW

The 10-Year Capital Plan has been developed with consideration of historical demonstrated ability to spend within any given year of the ten year capital plan. A review was undertaken to ensure budgets align with Toronto Water's ability to spend and the market's capacity to deliver.

A key component in determining an appropriate level of annual cash flows includes historical capacity to spend reviews by project categories (Chart 2 below) as well as the level of projected 2021 underspending that will be carried forward into 2022 to complete capital work.

Chart 2 – Capacity to Spend



Capacity to Spend Review Impact on the 10-Year Plan

The 2022-2031 Capital Budget and Plan represents Toronto Water's largest investment in infrastructure renewal totalling \$15.082 billion over 10 years. The 2022 Capital Budget of \$1.409 billion (including carry forward funding of \$62.202 million) is higher than the historic 5-year average budget.

Toronto Water's actual spending over the previous five years, from 2016 to 2020, has averaged \$816 million per year, with capital spending exceeding \$1.096 billion in 2020. In 2021, Toronto Water is forecasting to spend \$1.222 billion or 91.9 per cent of the Approved 2021 Capital Budget.

In recent years, Toronto Water has awarded a series of large scale multi-year projects, with approximately \$2.3 billion committed for already awarded works (as of October 2021). In addition to regularly scheduled annual construction programs, the 2022 cashflow will support the continued delivery of on-going multi-year contracts. Additionally, in the remainder of 2021 or in 2022 Toronto Water will be issuing an additional approximately \$723 million in works supporting the following 6 large projects:

- Ashbridges Bay Wastewater Treatment Plant (ABTP) D Building and Polymer Upgrade construction projects (\$60 million and \$112 million respectively);
- Fairbanks Silverthorn Tunnel Local Sewers Contracts 3 and 4 (\$142 million);
- Highland Creek Wastewater Treatment Plant (HCTP) Firm Capacity and Fluidized Bed Incineration construction projects (\$230 million and \$118 million respectively);
- Clark Water Treatment Plant Stand-by Power (\$62 million).

The 2022 Capital Budget of \$1.409 billion supports the delivery of current on-going large scale multi-year projects, as well as new projects forecasted for award in 2022.

Based on the review of historical capital spending constraints and a capacity to spend review, \$245.703 million in capital spending originally cash flowed in 2022 has been adjusted to reflect updated cost estimates and to align with current delivery forecasts, including deferrals to 2023 and future years. Key adjustments to the Capital Plan are noted below:

- The *Ashbridges Bay Wastewater Treatment Plant* 2022 cashflow has been reduced by \$57.118 million to reflect updated project cost estimates and delivery schedules for several projects including the Polymer Upgrade, Waste Activated Sludge Upgrade Construction, Heating and Air Systems and Integrated Pumping Station Construction projects.
- The *Watermain Replacement* 2022 cashflow has been reduced by \$19.837 million to reflect updated project costs, delivery timelines and project completions.
- The *Sewer Replacement* 2022 cashflow has been reduced by \$17.168 million to reflect updated project costs, scope and delivery timelines.
- The *Basement Flooding Protection Program* 2022 cashflow has been reduced by \$37.309 million to reflect updated project delivery schedules. Although the 2022 cashflow has been reduced, the overall 10-year Basement Flooding Protection Program will increase by \$75.789 million (2022-2031). Realignments occurred as a result of a project by project review to identify individual project readiness to tender in 2022 and 2023, as well as updated delivery timelines for on-going works.
- The *Trunk Sewers Program* 2022 cashflow has been reduced by \$36.310 million to reflect updated to reflect updated project costs, scope, project completions and to incorporate updated delivery schedules.

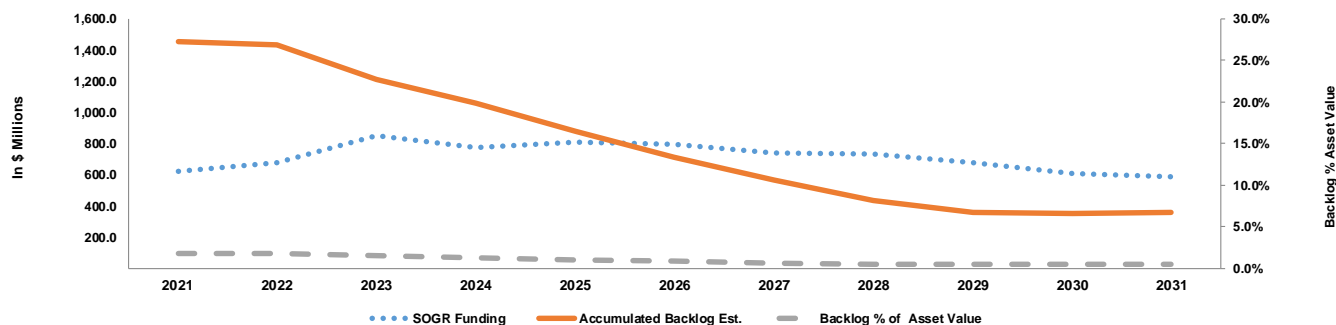
The 2022 Financial Model assumes that 85 per cent of the net Capital Budget and Plan will be drawn from Toronto Water's Capital Reserve and Water, Sanitary and Stormwater Management Development Charge Reserves based on historical capital completion levels, so as not to overstate actual projected funding requirements.

STATE OF GOOD REPAIR (SOGR) FUNDING & BACKLOG

The chart below depicts the SOGR funding and accumulated backlog estimates for key asset classes in Toronto Water: linear infrastructure and facilities.

Chart 3: Total SOGR Funding & Backlog

State of Good Repair (SOGR) Funding & Backlog



\$ Millions	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
SOGR Funding	623.3	676.2	848.0	776.9	810.9	797.4	739.3	733.8	678.8	609.1	586.2
Accumulated Backlog Est.	1,456.3	1,433.6	1,212.3	1,059.1	875.3	710.8	563.4	434.6	360.2	354.1	359.0
Backlog % of Asset Value	1.8%	1.7%	1.5%	1.3%	1.0%	0.8%	0.7%	0.5%	0.4%	0.4%	0.4%
Total Asset Value	83,167.1	83,314.2	83,513.0	84,342.9	85,206.6	85,968.1	86,472.8	86,811.1	87,141.2	87,445.7	88,186.2

* 2021 SOGR funding is based on recent estimates

- Toronto Water's infrastructure is aging with an accumulated SOGR backlog estimated at \$1.456 billion by the end of 2021, which includes both linear (watermains and sewers) and facility/plant infrastructure (water treatment plants, wastewater treatment plants, pumping stations). This represents 1.8 per cent of the total replacement value of Toronto Water's assets, which at the end of 2021 are estimated to be \$83.167 billion.
- The 2022-2031 Budget and Capital Plan allocates a total of \$7.257 billion over 10 years, including \$676.181 million in 2022 (or 48.0 per cent of the 2022 Capital Budget) to address the renewal needs of Toronto Water's aging infrastructure. This significant investment into Toronto Water infrastructure will ensure continued and reliable service to residents, businesses and visitors, reducing the SOGR backlog to \$359.0 million in 2031, reducing the backlog to less than 0.5 percent of Toronto Water's overall asset value.
- Approximately 56.5 per cent or \$823.035 million of Toronto Water's infrastructure backlog is associated with aging linear watermain and sewer infrastructure. The 2022-2031 Budget and Capital Plan allocates a total of \$4.677 billion to address deteriorated linear infrastructure.
- Approximately 43.5 per cent or \$633.217 million of Toronto Water's infrastructure backlog is associated with the facilities backlog. The 2022-2031 Capital Budget and Plan allocates a further \$2.580 billion for infrastructure renewal projects at water and wastewater treatment facilities. SOGR works at the water and wastewater facilities may include renewal of existing buildings, and process equipment and machinery, etc.

Stormwater management facilities (stormwater ponds and underground storage tanks) are not included in the SOGR backlog analysis as they are relatively new assets, as well as stream restoration from erosion. Restoration of watercourses is planned on a priority basis to protect existing infrastructure and in coordination with the Toronto Region Conservation Authority based on site conditions resulting from extreme weather events.

OPERATING IMPACT OF COMPLETED CAPITAL PROJECTS

The 10-Year Capital Plan will impact future year Operating Budgets by \$8.923 million net over the 2022-2031 period and an increase of 28 positions for planned completion of new equipment and facilities.

Table 4: Net Operating Impact Summary
(In \$000's)

Projects	2022 Budget		2023 Plan		2024 Plan		2025 Plan		2026 Plan		2022-2026		2022-2031	
	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions
Previously Approved														
D BUILDING PHASE 2					350.0						350.0		350.0	
DISINFECTION SYSTEM CONSTRUCTION			789.1	2.0	218.4						1,007.5	2.0	1,007.5	2.0
INTEGRATED PUMPING STATION (IPS) - CONSTRUCTION	17.8	0.3	13.3								31.1	0.3	1,731.1	0.3
AERATION TANK 12 & 13	17.8	0.3	13.3								31.1	0.3	31.1	0.3
WASTE ACTIVATED SLUDGE UPGRADE - CONSTRUCTION			(620.0)				1,500.0				880.0		880.0	
NTPP - PROCESS IMPROVEMENTS			618.7	1.0	42.3						661.0	1.0	661.0	1.0
CHEMICAL & RESIDUALS MANAGEMENT CONST					32.5	0.5	80.0				112.5	0.5	112.5	0.5
PLANTWIDE HVAC UPGRADES					(50.0)						(50.0)		(50.0)	
ISLAND PHOTOVOLTAIC SYSTEM							(242.0)				(242.0)		(242.0)	
HVAC REHAB CONSTRUCTION					(150.0)						(150.0)		(150.0)	
STANDBY POWER - PHASE 2 - ENG									82.0		82.0		232.0	
STANDBY POWER - PHASE 2 - CONSTRUCTION							(1.0)		(2.0)		(3.0)		(16.0)	
SOURCE WATER PROTECTION - LAKE ONTARIO COLLABORATIVE					94.3		194.0				288.3		388.3	
PUMPING STATION REHAB - PHASE 2 - CONSTRUCTION	(51.4)										(51.4)		(51.4)	
WATER SUSTAINABILITY PROGRAM (STANDBY POWER - ELLESMERE)	(28.0)										(28.0)		(28.0)	
STANDBY POWER - ROSEHILL	(1.0)										(1.0)		(1.0)	
BASEMENT FLOODING RELIEF - GROUP 2			100.0								100.0		100.0	
SEWER REHABILITATION - CWD	113.8	2.0	168.1	1.0	53.3						335.3	3.0	335.3	3.0
WATERMAIN ASSET PLANNING	272.6	4.0	409.6	2.0	107.5						789.8	6.0	789.8	6.0
TRUNK SEWER REHABILITATION - 2019	71.3	1.0	105.4	1.0	53.3						230.0	2.0	230.0	2.0
SCADA UPGRADES FOR WWT	272.2	4.0	477.1	4.0	219.4						968.7	8.0	968.7	8.0
PCS UPGRADES 2017	216.7	3.0	160.5								377.2	3.0	377.2	3.0
Enterprise Systems Integration	81.8	1.0	58.4								140.2	1.0	140.2	1.0
FACILITY RENOVATION					72.0						72.0		72.0	
Sub-Total: Previously Approved	983.7	15.5	2,293.5	11.0	1,043.1	0.5	1,531.0		80.0		5,931.4	27.0	7,868.4	27.0
New Projects - Future Years														
UV DISINFECTION - CONSTRUCTION					32.5	0.5	645.0		215.0		892.5	0.5	892.5	0.5
LARGE DIAMETER CSP RENEWAL							100.0				100.0		100.0	
DCW - HRT	17.8	0.3	13.3								31.1	0.3	31.1	0.3
Don & Waterfront Trunk/CSO Construction - PHASE 2	17.8	0.3	13.3								31.1	0.3	31.1	0.3
Sub-Total: New Projects - Future Years	35.7	0.5	26.6		32.5	0.5	745.0		215.0		1,054.8	1.0	1,054.8	1.0
Total (Net)	1,019.4	16.0	2,320.1	11.0	1,075.6	1.0	2,276.0		295.0		6,986.2	28.0	8,923.2	28.0

Previously Approved projects

- Increase in operating costs for salaries, benefits, chemicals, energy, utilities and contracted services from previously approved projects at Ashbridges Bay and North Toronto Wastewater Treatment plants and Toronto Island Treatment Plant, including work arising from, Supervisory control and data acquisition (SCADA) and Process Control System upgrades, Watermain Asset Planning and Sewer Rehabilitation. In 2023, upgrades at the Ashbridges Bay Treatment Plant (waste activated sludge) will generate savings of \$0.620 million.

New projects – Future Years

- Increase in operating costs for salaries, benefits, chemicals, utilities and contracted services primarily for plant-wide implementation/construction of ultraviolet disinfection facilities.

APPENDICES

Appendix 1

COVID-19 Financial Impact and Recovery - Operating

In \$ Thousands				
COVID-19 Impacts	2021 Net	2022		
		Revenues	Gross	Net
Revenue Loss				
Sale of Water Volume	12,690.0			
Private Water Agreements	1,000.0			
Sub-Total	13,690.0			
Expenditure Increase				
Health and Safety Protocols	859.2		1,131.6	1,131.6
Sub-Total	859.2		1,131.6	1,131.6
Total COVID-19 Impact	14,549.2		1,131.6	1,131.6

Appendix 2

2022 Balancing Actions

(\$000s)										
Recommendation	Savings Type	Equity Impact	AG Recs	2022				2023 (Incremental)		
				Revenue	Gross	Net	Positions	Gross	Net	Positions
Region of York-Rate change	Revenue Increase (User Fees)	No Impact	No	299.3		(299.3)			(358.4)	
Inflationary Factor - User Fees	Revenue Increase (User Fees)	No Impact	No	791.0		(791.0)			(1,313.9)	
Realignment to Actuals - Line by Line (Decrease)	Line By Line	No Impact	No		(1,519.7)	(1,519.7)				
Efficiencies - Water & Wastewater - Utilities	Efficiencies	No Impact	No		(3,455.5)	(3,455.5)				
Efficiencies - Other	Efficiencies	No Impact	No		(623.7)	(623.7)				
Total Balancing Actions				1,090.3	(5,598.9)	(6,689.2)			(1,672.3)	

Appendix 3

Summary of 2022 Service Changes

N/A

Appendix 4

Summary of 2022 New / Enhanced Service Priorities Included in Budget

N/A

Appendix 5

Summary of 2022 New / Enhanced Service Priorities Not Included in Budget

N/A

Appendix 6

**2022 Capital Budget;
2023 - 2031 Capital Plan Including Carry Forward Funding**

(In \$000s)	2022 Budget	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	2029 Plan	2030 Plan	2031 Plan	2022 - 2031 Total	Health & Safety & Legislated	SOGR	Growth & Improved Service
ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV	1,758	438	13	-	-	-	-	-	-	1,300	3,509			3,509
ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM	92,681	50,020	29,445	41,814	4,933	600	3,700	3,300	10	10	226,513	218,243		8,270
ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING <input checked="" type="checkbox"/>	35,227	31,861	47,392	91,918	163,919	150,684	146,379	140,469	157,233	175,757	1,140,839		862,900	277,939
ASHBRIDGES BAY WWTP - O&M UPGRADES	2,600	2,630	2,710	2,790	2,790	2,960	3,005	3,140	3,240	3,337	29,202		29,202	
ASHBRIDGES BAY WWTP - ODOUR CONTROL	1,161	-	-	-	-	-	-	-	-	-	1,161		1,161	
ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING <input checked="" type="checkbox"/>	45,600	53,597	53,222	71,993	55,027	41,064	36,554	5,170	622	-	362,849		355,928	6,921
ASHBRIDGES BAY WWTP REHAB <input checked="" type="checkbox"/>	18,210	85,354	86,274	58,234	45,471	21,556	26,810	24,220	20,870	11,750	398,749	6,873	349,480	42,396
ASHBRIDGES BAY TP YR2005	10	72	-	-	-	-	-	-	-	-	82		82	
BASEMENT FLOODING RELIEF <input checked="" type="checkbox"/>	227,205	306,836	338,227	282,522	223,744	206,921	180,722	172,733	170,961	159,828	2,269,699			2,269,699
BUSINESS IT PROJECTS	1,106	2,185	1,160	860	510	-	-	-	-	-	5,821			5,821
BUSINESS SYSTEM INFRASTRUCTURE - PW <input checked="" type="checkbox"/>	14,376	17,324	11,754	5,557	5,058	3,556	4,549	3,654	3,359	3,395	72,582			72,582
CLARK RESIDUE MGMT. FACILITIES	23	20	-	-	-	-	-	-	-	-	43	43		
DIST W/M REHABILITATION	69,630	61,874	72,164	72,295	73,206	71,406	71,306	71,206	65,460	65,260	693,807		693,807	
DIST W/M REPLACEMENT	133,499	148,182	117,593	122,215	119,350	113,500	113,500	113,500	113,600	114,000	1,208,939		1,023,562	185,377
DIST WATER SERVICE REPAIR	51,939	50,821	49,153	47,045	44,270	40,945	40,945	40,945	41,246	41,246	448,555	437,193	11,362	
DISTRICT WATERMAINS - NEW	10	500	500	500	500	500	500	500	500	500	4,510			4,510
DON & WATERFRONT TRUNK CSO	82,445	82,203	64,145	35,764	34,724	88,539	128,700	236,550	333,050	236,800	1,322,920			1,322,920
EMERY CREEK POND <input checked="" type="checkbox"/>	60	425	-	-	-	-	-	-	-	-	485			485
ENGINEERING	71,046	88,936	77,282	72,345	73,407	71,417	70,768	64,762	52,435	53,713	696,111		696,111	
ENGINEERING STUDIES <input checked="" type="checkbox"/>	290	458	140	280	70	70	70	70	70	70	1,588	200	760	628
EQUIPMENT REPLACEMENT & REHABILITATION	2,414	1,494	25	-	-	-	-	-	-	-	3,933		3,933	
FJ HORGAN W.T.P. R&R <input checked="" type="checkbox"/>	7,712	9,058	3,357	2,273	2,245	865	215	210	200	200	26,335	579	18,880	6,876
HARRIS W.T.P. R&R <input checked="" type="checkbox"/>	5,387	8,207	5,764	7,240	11,659	11,500	12,550	7,800	500	500	71,107		62,356	8,751
HIGHLAND CREEK WWTP - BUILDING SERV & SITE DEV	8,537	4,129	3,658	3,548	3,548	4,935	5,559	3,352	-	-	37,266		37,266	
HIGHLAND CREEK WWTP - ODOUR CONTROL <input checked="" type="checkbox"/>	1,176	5,197	3,020	25	417	1,000	6,500	11,300	10,500	5,400	44,535	44,334		201
HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING <input checked="" type="checkbox"/>	11,993	22,945	42,300	44,828	30,712	19,404	12,805	31,591	28,650	22,105	267,333		22,050	245,283
HIGHLAND CREEK WWTP UPGRADES <input checked="" type="checkbox"/>	33,709	33,646	44,454	64,534	54,001	51,610	50,184	62,110	48,080	23,650	465,978	63,527	147,691	254,760
HORGAN TRUNK MAIN EXPANSION	10,635	21,237	21,000	7,850	630	38	-	-	-	-	61,390			61,390
HUMBER T.P. <input checked="" type="checkbox"/>	361	315	315	383	325	290	344	364	311	325	3,333			3,333
HUMBER WWTP - LIQUID TREATMENT & HANDLING	20,761	7,100	3,641	1,500	5,226	32,275	32,500	32,500	18,500	12,500	166,503		166,503	
HUMBER WWTP - O&M UPGRADES	-	-	-	-	-	-	-	-	-	-	-			-
HUMBER WWTP - ODOUR CONTROL	3,053	4,127	1,578	3	3	500	-	-	-	500	9,764	9,764		
HUMBER WWTP UPGRADES <input checked="" type="checkbox"/>	36,968	43,488	36,536	36,221	36,452	35,950	22,360	9,860	100	-	257,935	4,966	177,637	75,332

Appendix 6 (Continued)

**2022 Capital Budget;
2023 - 2031 Capital Plan Including Carry Forward Funding**

(In \$000s)	2022 Budget	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	2029 Plan	2030 Plan	2031 Plan	2022 - 2031 Total	Health & Safety & Legislated	SOG	Growth & Improved Service
ISLAND W.T.P. R&R	8,273	21,211	27,284	34,062	17,067	7,393	2,617	3,235	375	525	122,042	62,332	35,768	23,942
Land Acquisition for Source Water Protect	10,900	14,600	11,067	7,200	10,900	11,000	11,000	11,000	11,000	11,000	109,667			109,667
LAWRENCE ALLAN REVITALIZATION PLAN	5,379	3,766	7,553	6,376	3,340	-	-	2,150	2,150	2,150	32,864			32,864
METERING & METER READING SYS	4,082	2,742	4,132	1,501	1,501	1,501	1,501	1,501	1,501	1,501	21,463			21,463
NEW SERVICE CONNECTIONS	52,136	47,521	50,384	47,610	47,610	47,610	47,610	47,610	47,610	47,610	483,311			483,311
NEW SEWER CONSTRUCTION	17,479	20,375	15,501	13,250	16,298	11,345	1,065	1,100	1,050	1,000	98,463			98,463
NORTH TORONTO WTP UPGRADES	11,965	9,254	4,744	223	20	-	-	-	-	-	26,206	9,554		16,652
OPERATIONAL SUPPORT	3,509	14,252	11,056	4,817	5,673	2,216	2,536	4,161	2,736	1,911	52,867		3,750	49,117
PW ENGINEERING	10,049	11,172	8,775	4,686	3,640	3,164	2,225	1,225	1,225	1,225	47,386		26,135	21,251
REGENT PARK CAPITAL CONTRIBUTION	-	-	-	-	-	-	-	-	-	-	-			-
RL CLARK W.T.P. R&R	330	693	2,900	1,180	1,055	1,605	265	265	250	250	8,793		8,793	
SEWAGE PUMPING STATION UPGRADES	15,241	16,330	22,694	15,920	12,595	6,261	12,595	8,615	6,430	2,100	118,781	81,190	31,996	5,595
SEWER ASSET PLANNING	24,128	27,697	22,204	23,650	23,650	23,650	23,650	23,650	23,650	23,650	239,579		177,065	62,514
SEWER REPLACEMENT PROGRAM	12,825	30,137	28,966	32,324	30,759	26,947	30,250	26,750	26,750	26,750	268,458		268,458	
SEWER SYSTEM REHABILITATION	87,398	98,434	106,700	105,713	106,065	104,927	104,982	105,482	103,589	103,589	1,026,879		1,020,980	5,899
STREAM RESTORATION & EROSION CONTROL	16,536	18,950	17,229	23,201	26,260	21,240	18,029	11,975	11,936	7,686	173,042		173,042	
SWITCH GEAR TRANSFORMER	3,542	9,400	9,400	7,699	54	-	-	-	-	-	30,095		30,095	
SWM TRCA FUNDING	4,837	5,259	5,391	5,498	5,632	5,775	5,915	6,045	6,050	6,053	56,455			56,455
SWM END OF PIPE FACILITIES	350	1,660	640	3,100	2,671	1,750	2,167	1,840	1,246	18,500	33,924			33,924
SWM SOURCE CONTROL PROG	35	-	-	-	-	-	-	-	-	-	35			35
TRANSMISSION R&R	21,909	42,819	27,775	24,279	19,975	30,197	37,240	44,455	67,722	69,077	385,448		377,948	7,500
TRUNK SEWER SYSTEM	45,869	66,561	44,442	132,400	146,272	138,200	163,480	95,825	71,576	53,130	957,755		343,425	614,330
TRUNK WATERMAIN	1,838	2,054	3,672	705	5	5	-	-	-	-	8,279		5,234	3,045
TRUNK WATERMAIN EXPANSION	441	1,591	-	-	-	700	1,000	300	1,000	1,000	6,032			6,032
W&WW LABORATORIES	1,891	2,653	12,500	11,235	10,210	210	210	210	210	210	39,539		2,716	36,823
WATER EFFICIENCY PROGRAM	597	593	524	531	538	545	552	560	568	576	5,584			5,584
WATER SUSTAINABILITY PROGRAM	178	2,433	-	-	-	-	-	-	-	-	2,611			2,611
WESTERN BEACHES RETROFIT	2,540	16,329	10,666	3,350	50	-	-	-	-	-	32,935		32,935	
WET WEATHER FLOW MP	29,283	18,182	15,125	10,456	6,025	3,295	4,985	4,890	3,440	3,340	99,021		14,727	84,294
WT&S PLANTWIDE	23,542	61,452	62,383	37,677	18,000	14,302	21,991	17,606	17,181	17,321	291,455		42,941	248,514
Total Expenditures (including carry forward from 2021)	1,408,664	1,712,799	1,650,529	1,633,180	1,508,062	1,435,923	1,466,390	1,459,756	1,478,742	1,328,300	15,082,345	938,798	7,256,679	6,886,868

☑ - Project supports Climate Resiliency and / or Greenhouse Gas (GHG) Reduction*

☑ - Project includes workforce development requirements as outlined in the City's Social Procurement Program

*Information above includes full project / sub-project 2022-2031 Budget and Plan cash flows. Does not break out the climate component costs separately

Appendix 6a

2022 Cash Flow and Future Year Commitments Including Carry Forward Funding

(In \$000s)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total 2022 Cash Flow & FY Commits	Previously Approved	Change in Scope	New w/ Future Year
ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV	1,758	438	13								2,209	1,554	655	
ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM	92,681	50,020	29,445	41,814	4,283						218,243	207,460	10,783	
ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING	35,227	31,861	47,392	91,918	163,919	150,684	146,279	139,469	137,233	120,757	1,064,739	816,024	218,003	30,712
ASHBRIDGES BAY WWTP - O&M UPGRADES	2,600	2,630	2,710	2,790	2,790						13,520	5,516	8,004	
ASHBRIDGES BAY WWTP - ODOUR CONTROL	1,161										1,161	1,947	(786)	
ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING	45,600	53,597	53,222	71,993	55,027	41,064	36,554	5,170	622		362,849	305,130	57,719	
ASHBRIDGES BAY WWTP REHAB	18,210	85,354	86,274	58,234	45,471	20,256	25,510	22,920	19,570	10,450	392,249	367,735	24,514	
ASHRIDGES BAY TP YR2005	10	72									82	334	(252)	
BASEMENT FLOODING RELIEF	227,205	305,436	330,494	244,735	159,013	124,564	66,246	41,368	27,395	6,262	1,532,718	1,229,274	245,294	58,150
BUSINESS IT PROJECTS	1,106	2,185	1,160	860	510						5,821	3,641	2,180	
BUSINESS SYSTEM INFRASTRUCTURE - PW	14,376	16,274	8,524	540	135						39,849	32,491	7,358	
CLARK RESIDUE MGMT. FACILITIES	23	20									43	181	(138)	
DIST W/M REHABILITATION	69,630	61,268	33,458	15,574	6,950	200	100				187,180	159,359	27,821	
DIST W/M REPLACEMENT	133,499	148,182	117,593	35,215	11,250						445,739	115,483	(21,850)	352,106
DIST WATER SERVICE REPAIR	51,939	47,921	38,308	18,850	6,325						163,343	86,694	16,649	60,000
DISTRICT WATERMAINS - NEW	10	500									510	508	2	
DON & WATERFRONT TRUNK CSO	82,445	80,053	56,645	21,764	3,224	89					244,220	193,713	32,458	18,049
EMERY CREEK POND	60	425									485	500	(15)	
ENGINEERING	71,046	47,473	22,012	8,765	4,398	1,161	72	72			154,999	95,907	59,092	
ENGINEERING STUDIES	290	458	80								828	450	378	
EQUIPMENT REPLACEMENT & REHABILITATION	2,414	1,494	25								3,933	3,909	24	
FJ HORGAN W.T.P. R&R	7,712	9,058	3,357	2,273	2,245	665	15	10			25,335	17,271	8,064	
HARRIS W.T.P. R&R	5,387	7,757	5,114	4,040	509						22,807	18,896	3,911	
HIGHLAND CREEK WWTP - BUILDING SERV & SITE DEV	8,537	4,129	3,658	3,548	3,548	4,935	5,559	3,352			37,266	29,449	7,817	
HIGHLAND CREEK WWTP - ODOUR CONTROL	1,176	5,197	3,020	25	17						9,435	4,107	5,328	
HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING	11,993	22,945	42,300	44,300	29,128	17,293	11,750	10,147	50		189,906	164,901	25,005	
HIGHLAND CREEK WWTP UPGRADES	33,709	33,141	24,424	34,254	15,581	13,900	12,804	9,740	3,385	3,600	184,538	149,026	6,402	29,110
HORGAN TRUNK MAIN EXPANSION	10,635	21,237	21,000	7,850	630	38					61,390	59,876	1,514	
HUMBER T.P.	361	315	315	383	325	290	344	364	311	325	3,333	1	3,332	
HUMBER WWTP - LIQUID TREATMENT & HANDLING	20,761	6,950	2,641	150	226	275					31,003	30,971	32	
HUMBER WWTP - O&M UPGRADES												408	(408)	
HUMBER WWTP - ODOUR CONTROL	3,053	4,127	1,578	3	3	500				500	9,764	9,166	598	

Appendix 6a (Continued)

2022 Cash Flow and Future Year Commitments Including Carry Forward Funding

(In \$000s)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total 2022 Cash Flow & FY Commits	Previously Approved	Change in Scope	New w/ Future Year
HUMBER WWTP UPGRADES	36,968	43,488	35,036	29,221	29,452	28,950	15,360	4,360	100		222,935	197,088	12,439	13,408
ISLAND W.T.P. R&R	8,273	19,461	23,984	32,962	16,992	6,743	367	260		150	109,192	86,863	14,079	8,250
Land Acquisition for Source Water Protect	10,900	600	467								11,967	1,107	10,860	
LAWRENCE ALLAN REVITALIZATION PLAN	5,379	3,766	7,553	6,376	3,340						26,414	10,880	1,533	14,001
METERING & METER READING SYS	4,082	2,742	4,132	1,501	1,501	1,501	1,501	1,501	1,501	1,501	21,463	19,883	1,580	
NEW SERVICE CONNECTIONS	52,136	41,686	37,774								131,596	125,035	6,561	
NEW SEWER CONSTRUCTION	17,479	20,255	7,951	1,950	923	345					48,903	47,002	1,901	
NORTH TORONTO WTP UPGRADES	11,865	9,254	4,744	223	20						26,206	27,721	(1,515)	
OPERATIONAL SUPPORT	3,509	13,957	10,761	2,340	1,002	105	425	2,050	825		34,974	14,400	19,574	1,000
PW ENGINEERING	10,049	11,172	8,700	4,111	2,950	2,106	1,000				40,088	30,331	8,207	1,550
REGENT PARK CAPITAL CONTRIBUTION												3,121	(3,121)	
RL CLARK W.T.P. R&R	330	533	250	250	250						1,613	1,462	151	
SEWAGE PUMPING STATION UPGRADES	15,241	16,330	22,644	15,445	11,620	3,931	9,665	8,560	6,410	2,100	111,946	101,310	9,586	1,050
SEWER ASSET PLANNING	24,128	21,322	12,754	500	400						59,104	56,838	2,266	
SEWER REPLACEMENT PROGRAM	12,825	25,137	13,466	12,324	4,509	4,447	3,500				76,208	42,526	(2,933)	36,615
SEWER SYSTEM REHABILITATION	87,398	94,264	79,418	23,088	8,533	945					293,646	157,773	135,873	
STREAM RESTORATION & EROSION CONTROL	16,536	18,364	11,309	7,552	5,205	2,983	3,694	1,194	1,085	449	68,371	44,062	24,309	
SWITCH GEAR TRANSFORMER	3,542	9,400	9,400	7,699	54						30,095	24,680	5,415	
SWM TRCA FUNDING	4,837										4,837		4,837	
SWM END OF PIPE FACILITIES	350	1,660	640	3,100	2,671	1,000	1,417	840	246	3,500	15,424	104,014	(88,590)	
SWM SOURCE CONTROL PROG	35										35	20	15	
TRANSMISSION R&R	21,909	42,344	25,415	11,429	540	2,017	1,800	850	850	400	107,554	81,080	11,474	15,000
TRUNK SEWER SYSTEM	45,869	66,286	39,147	113,810	120,877	115,130	127,250	64,645	56,911	51,349	801,274	760,185	40,039	1,050
TRUNK WATERMAIN	1,838	2,054	3,672	705	5	5					8,279	9,072	(793)	
TRUNK WATERMAIN EXPANSION	441	1,591									2,032	1,954	78	
W&WW LABORATORIES	1,891	2,443	12,290	11,025	10,000						37,649	36,765	884	
WATER EFFICIENCY PROGRAM	597	593	524	231	238						2,183	1,367	816	
WATER SUSTAINABILITY PROGRAM	178	2,433									2,611	2,398	213	
WESTERN BEACHES RETROFIT	2,540	16,329	10,666	3,350	50						32,935	30,831	2,104	
WET WEATHER FLOW MP	29,283	15,722	11,630	4,766	285	155	145				61,986	59,310	2,676	
WT&S PLANTWIDE	23,542	61,302	62,033	34,527	12,100	4,327	986	416	461	461	200,155	124,606	28,549	47,000
Total Expenditure (including carry forward from 2021)	1,408,664	1,615,005	1,391,122	1,038,363	749,024	550,604	472,343	317,288	256,955	201,804	8,001,172	6,315,566	998,555	687,051

Appendix 6b

2023 - 2031 Capital Plan

(In \$000s)	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	2029 Plan	2030 Plan	2031 Plan	2023 - 2031 Total	Health & Safety & Legislated	SOGR	Growth & Improved Service
ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV				650	600	3,700	3,300	10	1,300	1,300			1,300
ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM						100	1,000	20,000	55,000	76,100			8,270
ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING						2,960	3,005	3,140	3,337	15,682		25,000	51,100
ASHBRIDGES BAY WWTP - O&M UPGRADES					1,300	1,300	1,300	1,300	1,300	6,500		15,682	
ASHBRIDGES BAY WWTP REHAB												6,500	
BASEMENT FLOODING RELIEF	1,400	7,733	37,787	64,731	82,357	114,476	131,365	143,566	153,566	736,981			736,981
BUSINESS SYSTEM INFRASTRUCTURE - PW	1,050	3,230	5,017	4,923	3,556	4,549	3,654	3,359	3,395	32,733			32,733
CLARK RESIDUE MGMT. FACILITIES													
DIST W/M REHABILITATION	606	38,706	56,721	66,256	71,206	71,206	71,206	65,460	65,260	506,627		506,627	
DIST W/M REPLACEMENT			87,000	108,100	113,500	113,500	113,500	113,600	114,000	763,200		639,700	123,500
DIST WATER SERVICE REPAIR	2,900	10,845	28,195	37,945	40,945	40,945	40,945	41,246	41,246	285,212	285,212		
DISTRICT WATERMAINS - NEW		500	500	500	500	500	500	500	500	4,000			4,000
DON & WATERFRONT TRUNK CSO	2,150	7,500	14,000	31,500	88,450	128,700	236,550	333,050	236,800	1,078,700			1,078,700
EMERY CREEK POND													
ENGINEERING	41,463	55,270	63,580	69,009	70,256	70,696	64,690	52,435	53,713	541,112		541,112	
ENGINEERING STUDIES		60	280	70	70	70	70	70	70	760		760	
FJ HORGAN W.T.P. R&R					200	200	200	200	200	1,000		1,000	
HARRIS W.T.P. R&R	450	650	3,200	11,150	11,500	12,550	7,800	500	500	48,300		48,300	
HIGHLAND CREEK WWTP - BUILDING SERV & SITE DEV													
HIGHLAND CREEK WWTP - ODOUR CONTROL				400	1,000	6,500	11,300	10,500	5,400	35,100	35,100		
HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING			528	1,584	2,111	1,055	21,444	28,600	22,105	77,427			77,427
HIGHLAND CREEK WWTP UPGRADES	505	20,030	30,280	38,420	37,710	37,380	52,370	44,695	20,050	281,440	39,100	12,140	230,200
HUMBER WWTP - LIQUID TREATMENT & HANDLING	150	1,000	1,350	5,000	32,000	32,500	32,500	18,500	12,500	135,500		135,500	
HUMBER WWTP UPGRADES		1,500	7,000	7,000	7,000	7,000	5,500			35,000		35,000	
ISLAND W.T.P. R&R	1,750	3,300	1,100	75	650	2,250	2,975	375	375	12,850		10,000	2,850
Land Acquisition for Source Water Protect	14,000	10,600	7,200	10,900	11,000	11,000	11,000	11,000	11,000	97,700			97,700
LAWRENCE ALLAN REVITALIZATION PLAN							2,150	2,150	2,150	6,450			6,450
NEW SERVICE CONNECTIONS	5,835	12,610	47,610	47,610	47,610	47,610	47,610	47,610	47,610	351,715			351,715
NEW SEWER CONSTRUCTION	120	7,550	11,300	15,375	11,000	1,065	1,100	1,050	1,000	49,560			49,560
OPERATIONAL SUPPORT	295	295	2,477	4,671	2,111	2,111	2,111	1,911	1,911	17,893		3,750	14,143
PW ENGINEERING		75	575	690	1,058	1,225	1,225	1,225	1,225	7,298		1,250	6,048
RL CLARK W.T.P. R&R	160	2,650	930	805	1,605	265	265	250	250	7,180		7,180	
SEWAGE PUMPING STATION UPGRADES		50	475	975	2,330	2,930	55	20		6,835		5,850	985
SEWER ASSET PLANNING	6,375	9,450	23,150	23,250	23,650	23,650	23,650	23,650	23,650	180,475		118,300	62,175
SEWER REPLACEMENT PROGRAM	5,000	15,500	20,000	26,250	22,500	26,750	26,750	26,750	22,750	192,250		192,250	
SEWER SYSTEM REHABILITATION	4,170	27,282	82,625	97,532	103,982	104,982	105,482	103,589	103,589	733,233		733,233	
STREAM RESTORATION & EROSION CONTROL	586	5,920	15,649	21,055	18,257	14,335	10,781	10,851	7,237	104,671		104,671	
SWM TRCA FUNDING	5,259	5,391	5,498	5,632	5,775	5,915	6,045	6,050	6,053	51,618			51,618
SWM END OF PIPE FACILITIES					750	750	1,000	1,000	15,000	18,500			18,500
TRANSMISSION R&R	475	2,360	12,850	19,435	28,180	35,440	43,605	66,872	68,677	277,894		277,894	
TRUNK SEWER SYSTEM	275	5,295	18,590	25,395	23,070	36,230	31,180	14,665	1,781	156,481		156,481	
TRUNK WATERMAIN EXPANSION					700	1,000	300	1,000	1,000	4,000			4,000
W&WW LABORATORIES	210	210	210	210	210	210	210	210	210	1,890		1,890	
WATER EFFICIENCY PROGRAM			300	300	545	552	560	568	576	3,401			3,401
WET WEATHER FLOW MP	2,460	3,495	5,690	5,740	3,140	4,840	4,890	3,440	3,340	37,035		12,500	24,535
WT&S PLANTWIDE	150	350	3,150	5,900	9,975	21,005	17,190	16,720	16,860	91,300			91,300
Total Expenditures	97,794	259,407	594,817	759,038	885,319	994,047	1,142,468	1,221,787	1,126,496	7,081,173	359,412	3,592,570	3,129,191

Appendix 7

Reporting on Major Capital Projects: Status Update

Division/Project name		2021 Cash Flow (Active Projects)			Total Project Cost (Active Projects)		Status	Start Date	End Date		On Budget	On Time
		Appr.	YTD Spend	YE Projec Spend	Appr. Budget	Life to Date			Planned	Revised		
Toronto Water												
St Claire - Reservoir Rehabilitation		198	3	2,079	34,518	26,997	Completed	Jan-14	Dec-22	Dec-22	Ⓞ	Ⓞ
Comments:		Extensive consultation was undertaken through the design phase to address community concerns regarding park access and restoration. Project is nearing completion.										
Explanation for Delay:												
ROSEHILL PS REHAB (CPW060-11)		333	15	81	8,124	4,766	Completed	Jan-15	Dec-22	Dec-22	Ⓞ	Ⓞ
Comments:		Projects are nearing completion with reduced expenditures.										
Explanation for Delay:												
OUTFALL CONSTRUCTION (CWW039-06)		81,553	17,476	80,098	278,899	103,345	On Track	Jan-18	Dec-25	Dec-25	Ⓞ	Ⓞ
Comments:		Construction started in early 2019, and is proceeding on track in 2021.										
Explanation for Delay:												
Don & Waterfront Trunk/CSO Const - PHASE 1 (CWW480-03)		62,934	32,497	70,000	411,419	253,002	On Track	Jan-18	Jan-24	Jan-24	Ⓞ	Ⓞ
Comments:		Construction started in 2018, and is proceeding ahead of the forecast in 2021.										
Explanation for Delay:												

On/Ahead of Schedule
 Minor Delay < 6 months
 Significant Delay > 6 months

Ⓞ >70% of Approved Project Cost
 Ⓜ Between 50% and 70%
 Ⓡ < 50% or > 100% of Approved Project

Appendix 8

Summary of Capital Needs Constraints

(In \$ Millions)

- The 2022-2031 Capital Budget and Plan is based on the capacity to deliver (85 per cent spending rate included for planning purposes).
- Toronto Water does not have any unmet needs over the 10-year planning horizon.

Appendix 9

2022 User Fee Changes

(Excludes User Fees Adjusted for Inflation)

- Toronto Water does not have any other changes to its existing user fees

Appendix 10

Inflows and Outflows to/from Reserves and Reserve Funds

2022 Operating Budget

Program Specific Reserve / Reserve Funds

Reserve / Reserve Fund Name (in \$000s)	Reserve / Reserve Fund Name	Withdrawals (-) / Contribution (+)		
		2022	2023	2024
		\$	\$	\$
Beginning Balance		20,295.3	6,464.1	2,001.5
Vehicle Replacement Reserve	XQ1012			
Withdrawals (-)		(19,620.4)	(12,251.9)	(6,307.9)
Contribution (+)		5,789.3	7,789.3	5,789.3
Total Reserve / Reserve Fund Draws / Contribution		(13,831.2)	(4,462.6)	(518.6)
Balance at Year-End		6,464.1	2,001.5	1,482.9

* Based on 6-month 2021 Reserve Fund Variance Report

Reserve / Reserve Fund Name (in \$000s)	Reserve / Reserve Fund Name	Withdrawals (-) / Contribution (+)									
		2022 Budget	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	2029 Plan	2030 Plan	2031 Plan
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Beginning Balance		1,081,897	976,585	634,768	382,646	165,544	68,025	50,793	51,292	55,289	81,158
Water & Wastewater Capital Reserves	XR6003 & XR6004										
Withdrawals (-)											
- TW Capital Program		(1,076,930)	(1,342,542)	(1,288,359)	(1,276,109)	(1,179,983)	(1,124,840)	(1,142,074)	(1,158,650)	(1,172,996)	(1,054,662)
- Others		(7,880)	(3,146)	(2,096)	(1,701)	(1,738)	(2,169)	(3,209)	(11,191)	(3,898)	(3,940)
Contribution (+)											
- From Operations		975,793	996,056	1,031,364	1,056,596	1,082,450	1,108,886	1,145,018	1,173,039	1,201,739	1,231,134
- Others: Interest		3,705	7,815	6,969	4,111	1,752	891	766	799	1,023	2,530
Total Reserve / Reserve Fund Draws / Contribution		(105,312)	(341,817)	(252,122)	(217,102)	(97,519)	(17,232)	499	3,997	25,869	175,062
Balance at Year-End		976,585	634,768	382,646	165,544	68,025	50,793	51,292	55,289	81,158	256,220

*Based on the most recent estimates

Corporate Reserve / Reserve Funds

Reserve / Reserve Fund Name (in \$000s)	Reserve / Reserve Fund Name	Withdrawals (-) / Contribution (+)		
		2022	2023	2024
		\$	\$	\$
Beginning Balance		16,140.6	22,749.1	29,357.5
Insurance Replacement Reserve	XR1010			
Withdrawals (-)				
Contribution (+)		6,608.5	6,608.5	6,608.5
Total Reserve / Reserve Fund Draws / Contribution		6,608.5	6,608.5	6,608.5
Other Programs Reserve / Reserve Fund Draws / Contribution				
Balance at Year-End		22,749.1	29,357.5	35,966.0

* Based on 6-month 2021 Reserve Fund Variance Report

Appendix 10 (Continued)

Inflows and Outflows to/from Reserves and Reserve Funds

2022 – 2031 Capital Budget and Plan

Corporate Reserve / Reserve Funds

Reserve / Reserve Fund Name (In \$000s)	Project / Sub Project Name and Number	Contributions / (Withdrawals)										
		2022 Budget	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	2029 Plan	2030 Plan	2031 Plan	Total
Water Development Charges Reserve Fund XR2111 (in \$000s)	Beginning Balance	120,716	112,698	114,113	115,874	125,545	141,344	159,859	179,285	198,813	219,016	
	Withdrawals											
	DIST W/M REPLACEMENT	(14,069)	(10,783)	(8,189)	(9,053)	(8,616)	(8,441)	(8,441)	(8,441)	(8,445)	(8,460)	(92,936)
	DISTRICT WATERMAINS - NEW	(9)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(2,304)
	HORGAN TRUNK MAIN EXPANSION	(9,040)	(10,831)	(10,710)	(4,004)	(321)	(20)	-	-	-	-	(34,925)
	ISLAND W.T.P. R&R	(127)	(774)	(1,162)	(1,099)	(766)	(377)	-	-	-	-	(4,304)
	LAWRENCE ALLAN REVITALIZATION PLAN	(4,572)	(1,921)	(3,852)	(3,251)	(1,703)	-	-	(1,097)	(1,097)	(1,097)	(18,590)
	PW ENGINEERING	(1,179)	(705)	(527)	(387)	(267)	(252)	(188)	(60)	(60)	(60)	(3,685)
	RL CLARK W.T.P. R&R	(3)	(21)	-	-	-	-	-	-	-	-	(25)
	TRANSMISSION R&R	(85)	(1,275)	(1,530)	(969)	-	-	-	-	-	-	(3,859)
	TRUNK WATERMAIN EXPANSION	(150)	(326)	-	-	-	-	-	-	-	-	(477)
	WATER EFFICIENCY PROGRAM	(507)	(303)	(268)	(271)	(275)	(278)	(281)	(286)	(290)	(294)	(3,052)
	WATER SUSTAINABILITY PROGRAM	(16)	(128)	-	-	-	-	-	-	-	-	(145)
	WT&S PLANTWIDE	(984)	(1,459)	(1,944)	(1,305)	(359)	(519)	(641)	(150)	(66)	(44)	(7,472)
	Total Withdrawals	(30,742)	(28,780)	(28,437)	(20,593)	(12,562)	(10,141)	(9,806)	(10,288)	(10,213)	(10,210)	(171,771)
	Contribution:											
	- Projected Contribution	22,815	30,286	30,288	30,355	28,452	28,747	29,322	29,908	30,506	31,116	291,795
	- Other Program/Agency Net Withdrawals and Contribution	(91)	(91)	(91)	(91)	(91)	(91)	(91)	(91)	(91)	(91)	(909)
	Total Contribution	22,724	30,195	30,197	30,264	28,361	28,656	29,231	29,817	30,415	31,025	290,886
	Balance at Year-End	112,698	114,113	115,874	125,545	141,344	159,859	179,285	198,813	219,016	239,830	

* Based on the most recent estimates

Appendix 10 (Continued)

Corporate Reserve / Reserve Funds

Reserve / Reserve Fund Name (In \$000s)	Project / Sub Project Name and Number	Contributions / (Withdrawals)										
		2022 Budget	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	2029 Plan	2030 Plan	2031 Plan	Total
Sanitary Development Charges Reserve Fund XR2112 (in \$000s)	Beginning Balance	69,292	32,651	31,813	35,741	22,426	(6,567)	(38,128)	(75,774)	(93,046)	(111,549)	
	Withdrawals											
	ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM	(11,650)	(3,771)	(2,222)	(3,155)	(323)	-	-	-	-	-	(21,121)
	ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING	(6,678)	(5,843)	(6,087)	(12,486)	(26,577)	(25,563)	(25,265)	(25,480)	(26,492)	(24,321)	(184,791)
	ASHBRIDGES BAY WWTP - ODOUR CONTROL	(146)	-	-	-	-	-	-	-	-	-	(146)
	ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING	(4,759)	(3,113)	(3,002)	(2,160)	(1,229)	(241)	-	-	-	-	(14,504)
	ASHBRIDGES BAY WWTP REHAB	(63)	-	-	-	-	-	-	-	-	-	(63)
	ASHRIDGES BAY TP YR2005	(1)	(5)	-	-	-	-	-	-	-	-	(6)
	BASEMENT FLOODING RELIEF	(18,522)	(14,412)	(14,302)	(9,924)	(5,998)	(3,913)	(3,856)	(2,740)	(1,840)	(1,918)	(77,427)
	DON & WATERFRONT TRUNK CSO	(9,211)	(5,361)	(4,514)	(2,699)	(2,621)	(6,681)	(9,712)	(13,096)	(18,567)	(11,303)	(83,764)
	HIGHLAND CREEK WWTP - ODOUR CONTROL	(122)	(149)	-	-	(31)	(76)	(490)	(853)	(792)	(407)	(2,920)
	HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING	(935)	(1,090)	(1,935)	(2,139)	(1,403)	(860)	(611)	(507)	(3)	-	(9,483)
	HIGHLAND CREEK WWTP UPGRADES	-	-	-	(76)	(79)	-	-	-	-	-	(155)
	HUMBER WWTP - LIQUID TREATMENT & HANDLING	(2,610)	(536)	(275)	(113)	(394)	(2,435)	(2,452)	(2,452)	(1,396)	(944)	(13,607)
	HUMBER WWTP - ODOUR CONTROL	(384)	(311)	(119)	-	-	(37)	-	-	-	(37)	(889)
	LAWRENCE ALLAN REVITALIZATION PLAN	-	-	-	-	-	-	-	-	-	-	-
	NEW SEWER CONSTRUCTION	(11,126)	(8,200)	(5,246)	(3,940)	(4,556)	(3,202)	(527)	(536)	(523)	(510)	(38,365)
	SEWAGE PUMPING STATION UPGRADES	(1,605)	(776)	(989)	(593)	(65)	(113)	(642)	(642)	(483)	(158)	(6,066)
	SEWER ASSET PLANNING	(632)	(506)	(275)	(275)	(274)	(275)	(275)	(275)	(275)	(275)	(3,334)
	SEWER REPLACEMENT PROGRAM	(807)	(1,087)	(931)	(1,063)	(1,029)	(833)	(833)	(833)	(833)	(833)	(9,081)
	SEWER SYSTEM REHABILITATION	(513)	(138)	-	-	-	-	-	-	-	-	(650)
	TRUNK SEWER SYSTEM	(3,345)	(4,125)	(4,760)	(23,386)	(30,033)	(33,413)	(39,997)	(17,825)	(16,234)	(15,960)	(189,077)
	Total Withdrawals	(73,108)	(49,421)	(44,656)	(62,007)	(74,612)	(77,642)	(84,660)	(65,238)	(67,437)	(56,667)	(655,448)
	Contribution:											
	- Projected Contribution	36,978	49,095	49,097	49,203	46,131	46,594	47,526	48,477	49,447	50,436	472,984
	- Other Program/Agency Net Withdrawals and Contribution	(512)	(512)	(512)	(512)	(512)	(512)	(512)	(512)	(512)	(512)	(5,120)
	Total Contribution	36,466	48,583	48,585	48,691	45,619	46,082	47,014	47,965	48,935	49,924	467,864
	Balance at Year-End	32,651	31,813	35,741	22,426	(6,567)	(38,128)	(75,774)	(93,046)	(111,549)	(118,292)	

* Based on the most recent estimates

Reserve / Reserve Fund Name (In \$000s)	Project / Sub Project Name and Number	Contributions / (Withdrawals)										
		2022 Budget	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	2029 Plan	2030 Plan	2031 Plan	Total
Stormwater Management Development Charges Reserve Fund XR2113 (in \$000s)	Beginning Balance	52,830	46,147	41,371	37,184	33,396	28,836	24,785	21,021	17,561	14,430	
	Withdrawals											
	EMERY CREEK POND	(8)	(32)	-	-	-	-	-	-	-	-	(40)
	Land Acquisition for Source Water Protect	-	(302)	(216)	(131)	(224)	(226)	(226)	(226)	(226)	(226)	(2,003)
	LAWRENCE ALLAN REVITALIZATION PLAN	-	-	-	-	-	-	-	-	-	-	-
	STREAM RESTORATION & EROSION CONTROL	(310)	(215)	(139)	(139)	(179)	(60)	(3)	-	-	-	(1,046)
	SWM TRCA FUNDING	(609)	(397)	(407)	(415)	(425)	(436)	(446)	(456)	(456)	(456)	(4,504)
	SWM END OF PIPE FACILITIES	(43)	(126)	(48)	(234)	(201)	(133)	(164)	(139)	(94)	(1,397)	(2,579)
	WESTERN BEACHES RETROFIT	(320)	(1,233)	(805)	(252)	(3)	-	-	-	-	-	(2,613)
	WET WEATHER FLOW MP	(661)	(386)	(300)	(375)	(379)	(184)	(188)	(180)	(184)	(188)	(3,025)
	Total Withdrawals	(1,951)	(2,690)	(1,914)	(1,546)	(1,412)	(1,039)	(1,028)	(1,002)	(961)	(2,267)	(15,809)
	Contribution:											
	- Projected Contribution	10,907	14,481	14,482	14,513	13,607	13,743	14,018	14,298	14,584	14,876	139,509
	- TW Operating	(195)	(195)	(195)	(195)	(195)	(195)	(195)	(195)	(195)	(195)	(1,950)
	- Other Program/Agency Net Withdrawals and Contribution	(15,444)	(16,372)	(16,560)	(16,560)	(16,560)	(16,560)	(16,560)	(16,560)	(16,560)	(16,560)	(164,296)
	Total Contribution	(4,732)	(2,086)	(2,273)	(2,242)	(3,148)	(3,012)	(2,737)	(2,457)	(2,171)	(1,879)	(26,737)
	Balance at Year-End	46,147	41,371	37,184	33,396	28,836	24,785	21,021	17,561	14,430	10,284	

* Based on the most recent estimates

Appendix 11

Glossary

Approved Position: Permanent or temporary positions that support the delivery of City services and service levels as approved by Council.

Actuals: An actual financial amount paid (or received) for the delivery of City services (these exclude any commitments to be paid in the future).

Capacity to Spend: Ability to spend money along with the capacity to deliver projects as demonstrated by historic spending patterns and approved contractual obligations.

Capital Budget: A Capital Budget is the City's plan to acquire / build assets or extend the useful life of existing assets; an example of a capital expenditure is the construction of a new community centre.

Capital Needs Constraints: The capital needs that cannot be accommodated within the capital plan that the Division or Agency have the capacity to deliver.

Complement: Positions that support the delivery of City services and service levels as approved by Council.

Efficiencies: Reductions in the cost of delivering a service without a reduction in service level.

New / Enhanced: New and enhanced service changes resulting in an increase in service levels from what was previously approved by Council.

Operating Budget: An Operating Budget is the City's annual plan to provide services to the residents of Toronto; the budget includes all revenues and expenses needed to provided services; an example of an operating cost would be the cost to run the TTC subways.

Operating Impact of Completed Capital Projects: The additional expense (or savings) and positions needed to operate or maintain a new asset; an example would be the additional expense and staff needed to operate a recently completed community centre.

Rate Supported Budget: Budget fully funded by user fees such as Solid Waste, Toronto Water and Toronto Parking Authority

State of Good Repair (SOGR): The cost of maintaining assets to ensure they are able to support the delivery of City services and meet service outcomes

Tax Supported Budget: Budget funded by property taxes.

User Fees: Program generated fee and rental revenue for the use of its services (such as the TTC fare, ice rental fees and various City permits).