

# budget

—2019—



## BUDGET NOTES

## Toronto Water

### What We Do

We manage one of the largest water and wastewater systems in North America, 24 hours a day, seven days a week. Our services ensure that over 3.6 million residents and businesses in Toronto, and portions of York and Peel have access to high quality, safe drinking water and that they can trust that their wastewater is collected, treated and responsibly managed. Toronto Water delivers the following services:

- Water Treatment & Supply
- Wastewater Collection & Treatment
- Stormwater Management

Toronto Water has stewardship of an inventory of capital assets valued at \$28.638 billion. It maintains two categories of assets: linear infrastructure, such as distribution (5,551 km) and transmission (550 km) watermains, sanitary (3,730 km), combined (1,411 km) and storm (4,981 km) sewers; and facilities/plant assets such as water filtration (4) and waste water treatment (4) plants, pumping stations (105), as well as a variety of reservoirs, storage and detention tanks.

### Why We Do It

Toronto Water provides water services through supplying drinking water and treatment of wastewater and stormwater to residents, businesses and visitors in order to protect public health, safety and property in an environmentally and a fiscally responsible manner.

### Our Experience & Success

- Over 1 billion litres of potable water daily is delivered to industrial, commercial, institutional, and household water users in the City of Toronto (including York Region), amounting to more than 511,000 service connections.
- Over 1.5 billion litres of wastewater is collected and treated per day, from residents and businesses in Toronto and a portion of Peel Region.
- Continuity of our services is ensured by replacement (31 km) and rehabilitation (128 km) of watermains and sewers in 2018.
- We have made significant progress by investing in critical stormwater management projects, including the Don River & Central Waterfront Phase 1 and ongoing critical upgrades to water and wastewater treatment plants to ensure regulatory requirements.

### Key Challenges

- Toronto Water's infrastructure is aging with an accumulated state of good repair backlog estimated at \$1.491 billion. Ongoing significant capital investment is required to effectively eliminate the backlog by 2028.
- Significant investment is required to ensure extreme weather resiliency and to manage basement flooding and other stormwater issues across the city.
- Providing efficient and effective response to customer service.
- Toronto Water's long-term financial sustainability including planning for growth depends primarily on successive water rate increases of 3%.
- Minimizing operating pressures.

### Priority Actions

- The 10-Year Capital Plan includes funding of \$6.745 billion for state of good repair projects.
- Approximately \$3.4 billion or 25% of the 10-Year Capital Plan's expenditures will be allocated to projects that will improve the city's resiliency to extreme weather events.
- Increased customer satisfaction through improved service processes and operationalization of the Customer Care Centre in 2019.
- The City of Toronto is experiencing significant growth. Approximately \$603.4 million will be drawn from Toronto Water's capital reserves to accommodate development growth over the next 10 years.
- \$7.284 million in efficiencies and other savings will fully offset the 2019 budget pressures.


## Budget At A Glance

STAFF RECOMMENDED OPERATING BUDGET			
\$Million	2019	2020	2021
Gross Expenditures	\$463.9	\$484.5	\$495.0
Revenues	\$1,331.2	\$1,376.3	\$1,407.8
Capital Contribution	\$867.4	\$891.8	\$912.8
Approved Positions	1,805.6	1,840.6	1,846.6


STAFF RECOMMENDED 10-YEAR CAPITAL PLAN			
\$Million	2019	2020-2028	Total
Gross Expenditures	\$797.1	\$12,654.1	\$13,451.2
Debt	\$0.0	\$0.0	\$0.0

*Note: Excluding 2018 carry forward funding to 2019*


## Our Key Service Levels



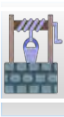
**22** mainbreaks per 100 km of pipe




**4** sewer mainline backups per 100km of pipe



**1,248 ML** of dedicated (designed) stormwater storage capacity



**0** non-compliance water treatment incidents



**0** non-compliance wastewater events



**7,065 hectares** of drainage area where quality control provided

Source of Image: [www.icons8.com](http://www.icons8.com)

## Key Service Deliverables

- Provide treatment and supply of **+435 billion litres** of water (including Region of York)
- Provide collection and treatment of **+400 billion litres** of wastewater (including Region of Peel)
- Continue maintenance and repair of **+6,100 km** of water mains and **+4,100 km** of sanitary sewers
- Replace **+5,000** substandard water services
- Repair **+1,600** broken watermains
- Provide Environmental Monitoring and Protection including on-going public consultation and awareness programs

## Who We Serve

### Water Treatment & Supply

- Water Account Holders
- Water Consumers

#### Beneficiaries

- Businesses
- Residents
- City & Agency Staff
- Visitors

### Wastewater Collection & Treatment

- Wastewater Account Holders
- Wastewater producers
- Public & Private Landowners

#### Beneficiaries

- Businesses
- Residents
- City & Agency Staff
- Visitors

### Stormwater Management

- Public & Private Landowners

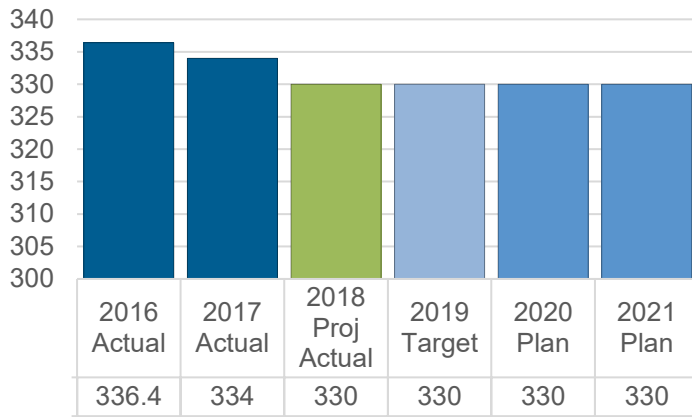
#### Beneficiaries

- Businesses
- Residents
- City & Agency Staff
- Visitors

## How Well We Are Doing

### Performance Measures

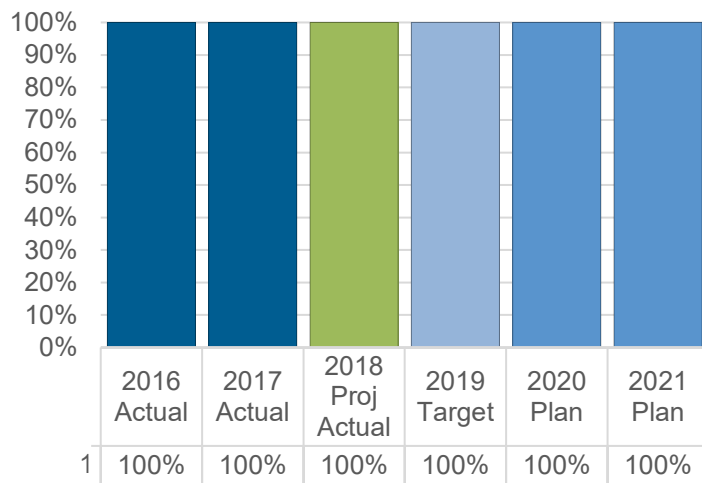
#### Efficiency Measure - Electrical kWh per ML of Water Pumped



### Behind the Numbers

- 2016-2017 actual usage of electricity per mega liter of water pumped was lower than the 340 kWh target.
- Toronto Water continues to improve electrical efficiency through the transmission operations optimization project at the water treatment plants, thus reducing the target to 330 kWh per mega liter of water.

#### Effectiveness Measure - Percent Biosolids Beneficially Used (ABTB)



- Continuing efforts to increase beneficial use by pelletizing biosolids resulted in an actual performance reaching 100% in 2016 and 2017.
- 2018 projected actuals and 2019-2021 target and plan are projected to maintain beneficial use to 100% target level.

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2. 2019 Operating Budget by Service
3. 2019 Service Levels
4. Summary of 2019 Recommended Service Changes
5. Summary of 2019 Recommended New & Enhanced Service Priorities
6. 2019 User Fee Rate Changes
7. 2019 Capital Budget; 2020 - 2028 Capital Plan
8. 2019 Cash Flow & Future Year Commitments
9. 2019 Capital Budget with Financing Detail
10. Reserve and Reserve Fund Review

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## RECOMMENDATIONS

## RECOMMENDATIONS

The City Manager and Chief Financial Officer & Treasurer recommend that:

1. City Council approve the 2019 Staff Recommended Operating Budget for Toronto Water of \$463.869 million gross, \$867.368 million net capital-from-current contribution for the following services:

Service:	Gross (\$000s)	Net (\$000s)
Water Treatment and Supply	201,369.5	384,894.2
Wastewater Collection & Treatment	231,185.0	508,270.2
Stormwater Management	31,314.4	(25,796.6)
Capital-from-Current Contribution	463,869.0	867,367.7

2. City Council approve the 2019 service levels for Toronto Water as outlined in Appendix 3 of this report, and associated staff complement of 1,805.7 positions, comprising of 84.4 capital positions and 1,721.3 operating positions.

3. City Council direct the General Manager, Toronto Water to provide an update on the implementation progress of the Utility Cut Program, including costs and benefits, through the 2020 Budget process.

4. City Council approve the 2019 Staff Recommended Capital Budget for Toronto Water with a total project cost of \$1.730 billion, and 2019 cash flow of \$960.506 million and future year commitments of \$6.256 billion comprised of the following:

a. New Cash Flow Funds for:

1. 328 new / change in scope sub-projects with a 2019 total project cost of \$1.730 billion that requires cash flow reduction of \$555.857 million in 2019 and future year cash flow commitments of \$430.279 million for 2020; \$665.437 million for 2021; \$497.822 million for 2022; \$262.318 million for 2023; \$132.326 million for 2024; \$81.788 million for 2025; \$47.459 million for 2026; \$69.666 million for 2027; and \$98.634 million for 2028;

2. 297 previously approved sub-projects with a 2019 cash flow of \$1.516 billion; and future year cash flow commitments of \$1.091 billion for 2020; \$831.283 million for 2021; \$617.081 million for 2022; \$503.592 million for 2023; \$369.285 million for 2024; \$285.160 million for 2025; \$201.051 million for 2026; and \$71.985 million for 2027;

b. 2018 approved cash flow for 183 previously approved sub-projects with carry forward funding from 2018 into 2019 totalling \$163.426 million.

5. City Council approve the 2020 - 2028 Staff Recommended Capital Plan for Toronto Water totalling \$6.398 billion in project estimates, comprised of \$69.251 million for 2020; \$206.698 million for 2021; \$501.865 million for 2022; \$625.437 million for 2023; \$748.820 million for 2024; \$864.797 million for 2025; \$1.016 billion for 2026; \$1.216 billion for 2027, and \$1.150 billion for 2028.

6. City Council consider the operating costs of \$0.738 million net in 2019; \$1.049 million net in 2020; \$0.775 million net in 2021; \$2.174 million net in 2022, \$0.150 million net in 2023, \$0.580 million net in 2024, and \$1.915 million net in 2026 resulting from the approval of the 2019 Capital Budget for inclusion in the 2019 and future year operating budgets.

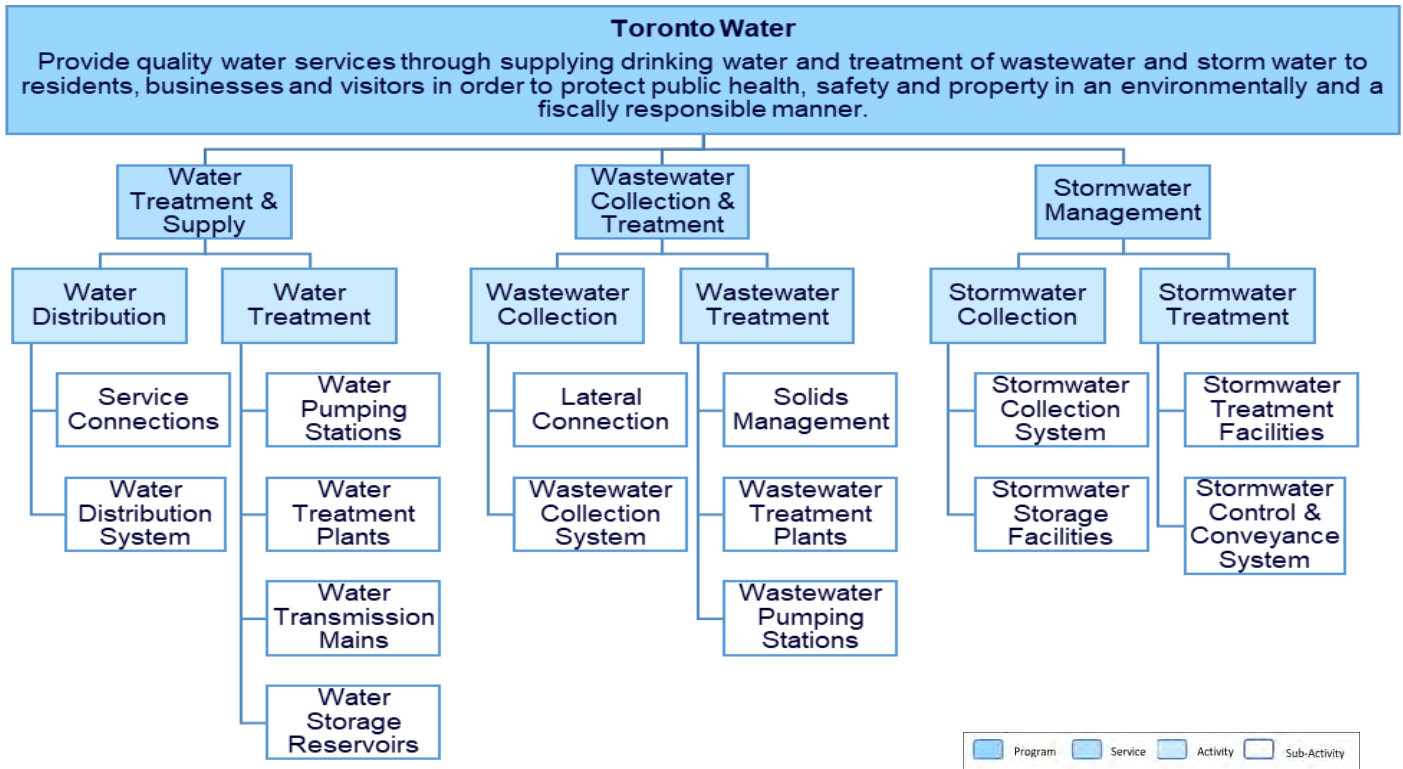
7. City Council approve 2 net new temporary capital positions for the delivery of 2019 capital projects and that the duration for each temporary position not exceed the life and funding of its respective projects / sub-projects.
8. All sub-projects with third party financing be approved conditionally, subject to the receipt of such financing in 2019 and if such funding is not forthcoming, their priority and funding be reassessed by City Council relative to other City-financed priorities and needs.
9. This report be considered concurrently with the 2019 Water and Wastewater Consumption Rates and Service Fees Report from the Chief Financial Officer & Treasurer and the Acting General Manager for Toronto Water.



# 2019 STAFF RECOMMENDED OPERATING BUDGET

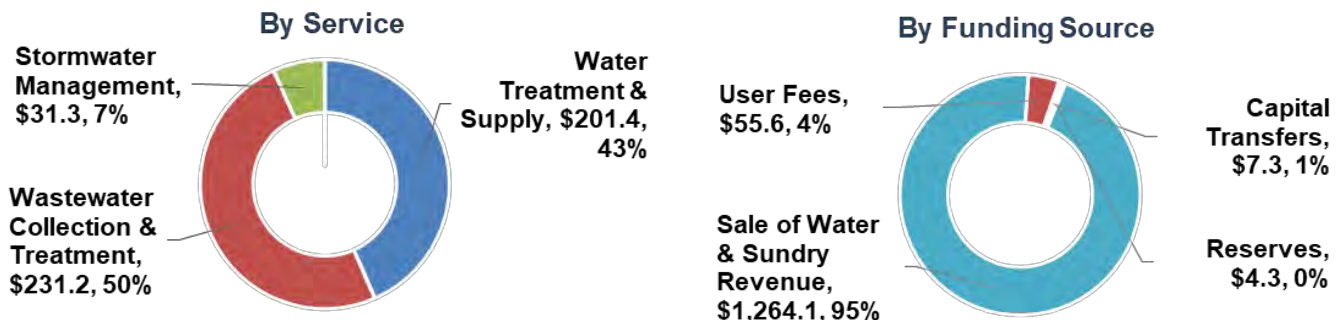


**PROGRAM MAP**



**2019 OPERATING BUDGET HIGHLIGHTS**

**2019 Staff Recommended Operating Budget \$463. M**



- **3.0%** increase over the 2018 Approved Capital Contribution Budget to maintain existing service levels and meet additional service demands.
- **\$1.223 M** Efficiency savings in water and wastewater production utility costs.
- **\$7.985 M** New/enhanced funding for new initiatives such as utility cut repairs and chamber adjustment program, bulk water fill station pilot project and provision of dedicated staff resources for insurance/risk management, legal services and Ontario One Call locate tickets clearing, funded from capital projects and reserve funds.
- **2020/2021** Increases primarily for known inflationary adjustments for salaries, benefits and operating impact of completed capital projects, and anticipated changes in other costs and revenues.

**2019 OPERATING BUDGET OVERVIEW**

**Table 1: 2019 Staff Recommended Operating Budget and Plan by Service**

	2018		2019			Changes		Incremental Change	
	Budget	Projected Actual*	Base	New / Enhanced	Total Staff Recommended Budget			2020 Plan	2021 Plan
(In \$000s)	\$	\$	\$	\$	\$	\$	%	\$	\$
<b>By Service</b>									
<b>Water Treatment &amp; Supply</b>									
Gross Expenditures	190,923.3	180,045.5	196,492.1	4,877.4	201,369.5	10,446.3	5.5%	10,706.2	4,876.4
Revenue	565,454.7	575,918.9	584,954.4	1,309.3	586,263.7	20,809.1	3.7%	19,757.3	13,996.2
<b>Capital Contribution</b>	<b>374,531.4</b>	<b>395,873.4</b>	<b>388,462.3</b>	<b>(3,568.2)</b>	<b>384,894.2</b>	<b>10,362.8</b>	<b>2.8%</b>	<b>9,051.0</b>	<b>9,119.8</b>
<b>Wastewater Collection &amp; Treatment</b>									
Gross Expenditures	225,770.4	212,907.3	228,560.3	2,624.7	231,185.0	5,414.5	2.4%	8,735.8	5,365.7
Revenue	718,861.1	732,164.2	738,734.7	720.5	739,455.2	20,594.1	2.9%	25,142.2	17,790.9
<b>Capital Contribution</b>	<b>493,090.6</b>	<b>519,257.0</b>	<b>510,174.4</b>	<b>(1,904.2)</b>	<b>508,270.2</b>	<b>15,179.5</b>	<b>3.1%</b>	<b>16,406.5</b>	<b>12,425.2</b>
<b>Stormwater Management</b>									
Gross Expenditures	30,558.1	28,817.1	30,831.6	482.8	31,314.4	756.3	2.5%	1,168.2	258.2
Revenue	4,971.2	5,063.2	5,380.2	137.6	5,517.8	546.6	11.0%	180.5	(277.0)
<b>Capital Contribution</b>	<b>(25,586.9)</b>	<b>(23,753.9)</b>	<b>(25,451.4)</b>	<b>(345.2)</b>	<b>(25,796.6)</b>	<b>(209.7)</b>	<b>0.8%</b>	<b>(987.7)</b>	<b>(535.2)</b>
<b>Total</b>									
Gross Expenditures	447,251.8	421,769.8	455,884.0	7,985.0	463,869.0	16,617.1	3.7%	20,610.2	10,500.2
Revenue	1,289,287.0	1,313,146.4	1,329,069.3	2,167.4	1,331,236.7	41,949.7	3.3%	45,079.9	31,510.1
<b>Total Capital Contribution</b>	<b>842,035.1</b>	<b>891,376.5</b>	<b>873,185.3</b>	<b>(5,817.6)</b>	<b>867,367.7</b>	<b>25,332.6</b>	<b>3.0%</b>	<b>24,469.7</b>	<b>21,009.8</b>
<b>Approved Positions</b>	<b>1,764.7</b>	<b>1,626.3</b>	<b>1,774.7</b>	<b>31.0</b>	<b>1,805.7</b>	<b>41.0</b>	<b>2.3%</b>	<b>34.9</b>	<b>6.0</b>

\* Year-End Projection Based on Q3 2018 Variance Report

**Base Changes**

(\$8.632 million gross)

- Operating costs for salaries and benefits, utilities, chemicals and contracted services resulting from completed capital projects, including addition of 8 positions to operate new facilities and infrastructure, and 2 positions for delivery of capital projects.
- Salary & benefit cost inflationary increases.
- Inflationary increases for materials, supplies and contracted services.
- Above pressures are offset by base expenditure savings arising from a line by line review, other operational savings, utility efficiencies and higher revenues from sale of water to Region of York and increase in new service connections and other revenues.

**New/Enhanced Service Priorities**

(\$7.985 million Gross / \$5.818 million Net).

- Transfer of Utility Cut and and Chamber Adjustment Program from Transportation Services, requiring addition of 27 new positions.
- Dedicated insurance/risk management position to reduce claim settlements, as well as funding for addition of one solicitor to address growing demand for legal services.
- Addition of 3 positions to support the review/clearing of Transportation Services Ontario One Call Locate Tickets involving markings for the City's infrastructure at exavation sites.
- Introduction of a new bulk water fee and fill station pilot project for mobile washing businesses.

**Future Year Plan**

- Inflationary increases for salaries and benefits.
- Operating impact of capital projects once completed and salaries and benefits for staff delivering capital projects.
- Anticipated inflationary increases for utilities, chemicals and other materials and supplies, contributions to TRCA and payment of taxes.
- Anticipated changes in volume and price of water sold in Toronto and Region of York.

**EQUITY IMPACTS**

Toronto Water's 2019 Staff Recommended Operating Budget does not include any changes that affect equity-seeking groups and vulnerable residents of Toronto and it has no equity impacts.

## 2019 Staff Recommended Operating Budget Changes by Service

The 2019 Staff Recommended Operating Budget for Toronto Water is \$463.869 million gross and \$1.331 billion in revenue resulting in an \$867.368 million capital-from-current contribution. It reflects an increase of \$25.333 million or 3% over the 2018 Approved Capital Contribution Budget. Table 2 below summarizes the key cost drivers to maintain current service levels, recommended service changes that achieve budget target as well as recommended new and enhanced service priorities to meet outcomes.

**Table 2: 2019 Staff Recommended Operating Budget Changes by Service**

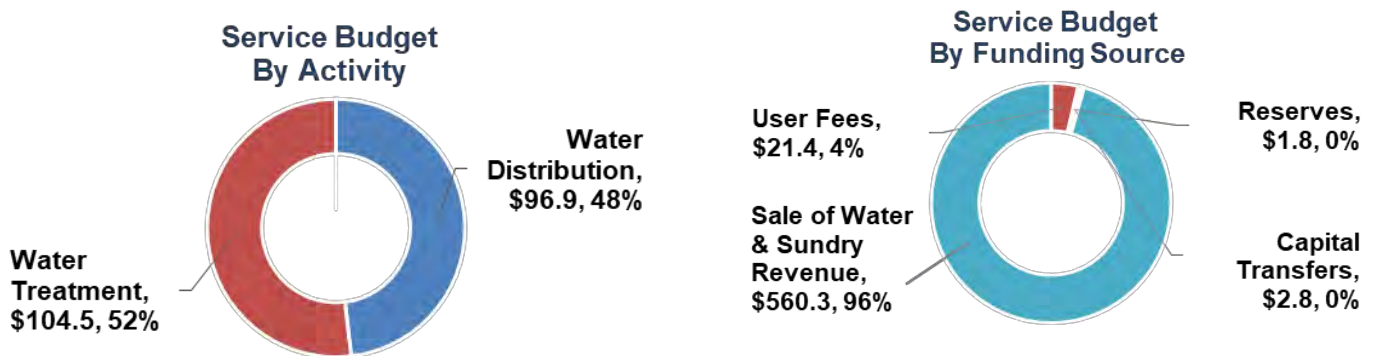
(In \$000s)	Services			Total	
	Water Treatment & Supply	Wastewater Collection & Treatment	Stormwater Management	\$	Positions
	\$	\$	\$	\$	
<b>2018 Council Approved Capital-from-Current Contribution</b>	<b>374,531.4</b>	<b>493,090.6</b>	<b>(25,586.9)</b>	<b>842,035.1</b>	<b>1,764.7</b>
<b>Base Expenditure Changes</b>					
<b>Prior Year Impacts</b>					
In-Year Organizational Change Approvals	109.1	51.3	(36.0)	124.4	
Reversal of Zero Based Items	(2.1)	(19.4)	(0.8)	(22.2)	
<b>Operating Impacts of Capital</b>					
Operating Impact of Capital - Toronto Water Capital Projects (Page 27)	327.1	394.2	16.5	737.8	5.0
Operating Impact of Capital - Transfer of Infrastructure Completed By Others (Including Metrolinx & Waterfront)	70.5	93.7	22.6	186.8	3.0
<b>Delivery of Capital Projects</b>					
Delivery of Capital Projects - Various Projects	(47.4)	(127.4)	(51.1)	(225.9)	2.0
<b>Economic Factors</b>					
Inflationary Increases for Utilities, Chemicals and Other Materials, Equipment and Contracted Services	3,271.5	3,176.8	102.8	6,551.1	
<b>Salaries and Benefits</b>					
Cost of Living Adjustments, Progression Pay & Step Increases	5,235.0	(655.6)	(1,189.3)	3,390.1	
<b>Other Base Expenditure Changes</b>					
TRCA - 2.5% Annual Inflation Adjustment & Payment in Lieu of Taxes	136.4	162.5	123.8	422.6	
Increase in Interdepartmental Changes (IDC)	147.3	419.6	147.2	714.1	
Transit Position Consolidation	(996.7)	136.8	859.9	(0.0)	
Water & Wastewater Production Annual Adjustments	(968.7)	168.3		(800.4)	
Continuous Improvement Initiative - Repurposing/Realignment of Positions	(200.4)	36.1	(42.7)	(207.0)	
<b>Sub-Total Base Expenditure Changes</b>	<b>7,081.6</b>	<b>3,836.8</b>	<b>(47.0)</b>	<b>10,871.4</b>	<b>10.0</b>
<b>Base Revenue Changes</b>					
Increase in Revenue from Region of York (Volume Change)	2,159.3			2,159.3	
Increase in Revenue from Region of York (Rate Change )	706.7			706.7	
Increase in New Service Connections & Other Revenues	2,156.9	597.2	58.0	2,812.0	
Decrease in Sale of Water (Volume Change)	(2,778.4)	(3,683.0)		(6,461.4)	
Increase in Revenue from Sale of Water (3% Inflationary Factor )	15,273.8	20,246.7		35,520.5	
<b>Sub-Total Base Revenue Changes</b>	<b>17,518.3</b>	<b>17,160.9</b>	<b>58.0</b>	<b>34,737.2</b>	
<b>Service Changes</b>					
<b>Base Expenditure Changes</b>					
Adjustments to Expenses Based on Actual Experience (Line-By-Line Review)	(208.7)	(850.2)	(30.6)	(1,089.5)	
Payment in Lieu of Taxes Base Adjustment	(365.1)	(434.9)		(800.0)	
<b>Base Revenue Changes</b>					
Increase in Revenue from User Fees (Inflationary Factor of 2.82%)	(74.1)	(13.8)		(88.0)	
Increase in Contribution from Reserve Funds for Utility Cut Restoration Backlog	(1,756.0)	(2,327.7)		(4,083.6)	
<b>Service Efficiencies</b>					
Water & Wastewater Utility Efficiencies	(1,090.4)	(132.9)		(1,223.3)	
<b>Sub-Total Service Changes<sup>1</sup></b>	<b>(3,494.2)</b>	<b>(3,759.6)</b>	<b>(30.6)</b>	<b>(7,284.5)</b>	
<b>Total Base Changes</b>	<b>(13,930.9)</b>	<b>(17,083.7)</b>	<b>(135.5)</b>	<b>(31,150.2)</b>	<b>10.0</b>
<b>New &amp; Enhanced Services</b>					
<b>Enhanced Service Priorities</b>					
New Solicitor for Toronto Water (IDC/IDR TO Legal Services)	57.3	51.6	5.7	114.7	
Locates Clearing Program for Transportation Services	21.5	16.5	7.1	45.1	3.0
<b>New Service Priorities</b>					
Utility Cut Program	3,452.3	1,827.0	325.1	5,604.4	24.0
Dedicated Risk Insurance Staff	51.9	27.7	6.9	86.5	1.0
Toronto Water Chamber Adjustment Program	0.0	0.0	0.0	0.0	3.0
<b>New Revenues</b>					
Bulk Water Fill Station Pilot New Fee (Block 1 Water Rate - \$3.96/m3)	(14.9)	(18.6)	0.4	(33.0)	
<b>Sub-Total New &amp; Enhanced Services<sup>1</sup></b>	<b>3,568.2</b>	<b>1,904.2</b>	<b>345.2</b>	<b>5,817.6</b>	<b>31.0</b>
<b>Total Budget Changes Changes</b>	<b>(10,362.8)</b>	<b>(15,179.5)</b>	<b>209.7</b>	<b>(25,332.6)</b>	<b>41.0</b>
<b>Changes in Capital-from Current Contribution</b>	<b>10,362.8</b>	<b>15,179.5</b>	<b>(209.7)</b>	<b>25,332.6</b>	
<b>Total 2019 Staff Recommended Capital-from-Current Contribution</b>	<b>384,894.2</b>	<b>508,270.2</b>	<b>(25,796.6)</b>	<b>867,367.7</b>	<b>1,805.7</b>

### Note:

- For additional information, refer to [Appendix 4](#) (page 52) for a more detailed listing and descriptions of the 2019 Staff Recommended Service Changes and [Appendix 5](#) (page 53) for the 2019 Staff Recommended New and Enhanced Service Priorities, respectively.

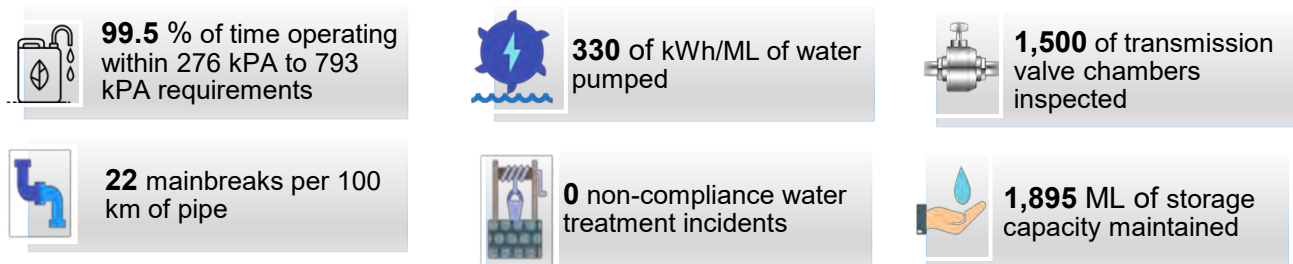
**Water Treatment and Supply** Treat and distribute drinking water in a safe, responsible manner in accordance with all legislated requirements.

**2019 Staff Recommended Operating Budget \$201.4M Gross**



Refer to [Appendix 2](#) (page 48) for the 2019 Staff Recommended Operating Budget by Service.

**Key Service Levels**

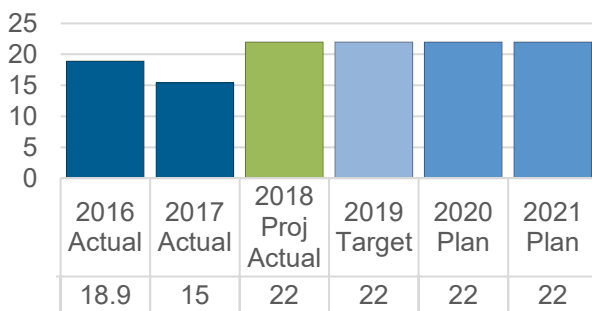


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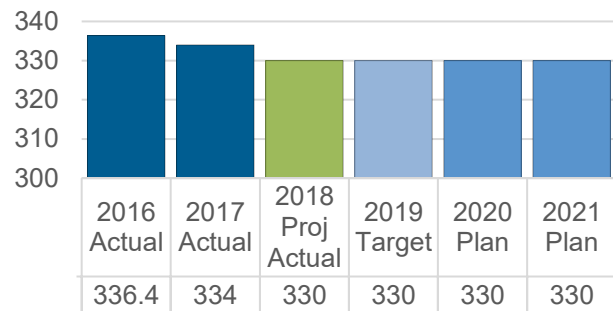
Refer to [Appendix 3](#) (page 50) for a complete list of the 2019 Staff Recommended Service Levels for this Service.

**Service Performance Measures**

**Watermain Breaks per 100 KM Water Distribution Pipe**



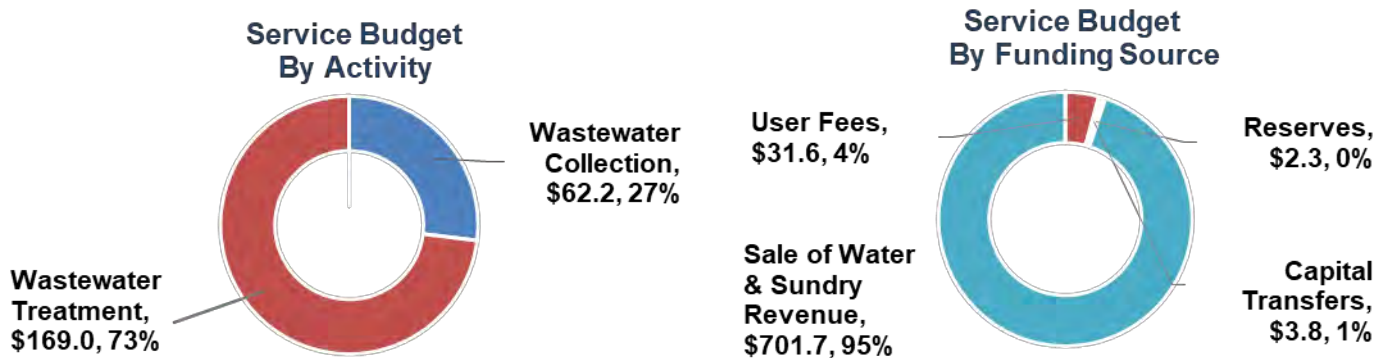
**Efficiency Measure - Electrical kWh per ML of Water Pumped**



- 2013 -2015 experience sees a rising trend due to severe cold weather fluctuations and aging watermains, with 2016 and 2017 actuals reflecting more regular weather patterns.
- Projected 2018 actuals and 2019-2021 planned target is to maintain watermain break and repair levels of typical climate years with improved state-of-good repair program.
- 2016-2017 actual usage of electricity per mega liter of water pumped was lower than the 340 kWh target.
- Toronto Water continues to improve electrical efficiency through the transmission operations optimization project at the water treatment plants, thus reducing the target to 330 kWh per mega liter of water, consistent with 2018 experience.

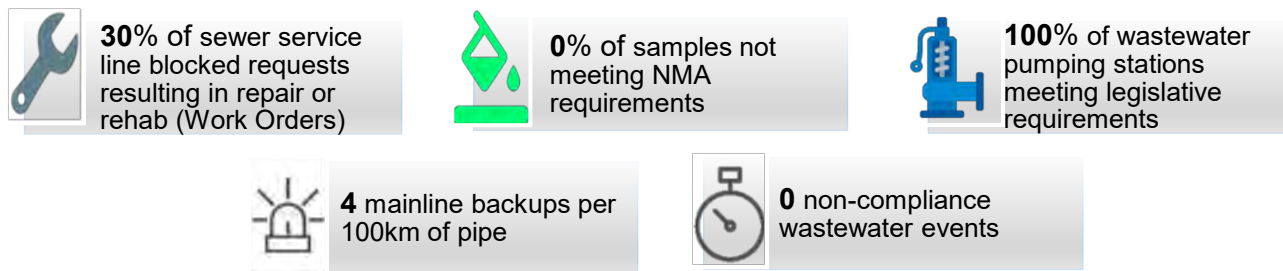
**Wastewater Collection and Treatment** Collect and treat wastewater in a safe, responsible manner in accordance with all legislated requirements.

**2019 Staff Recommended Operating Budget \$231.2 M Gross**



Refer to [Appendix 2](#) (page 48) for the 2019 Staff Recommended Operating Budget by Service.

**Key Service Levels**

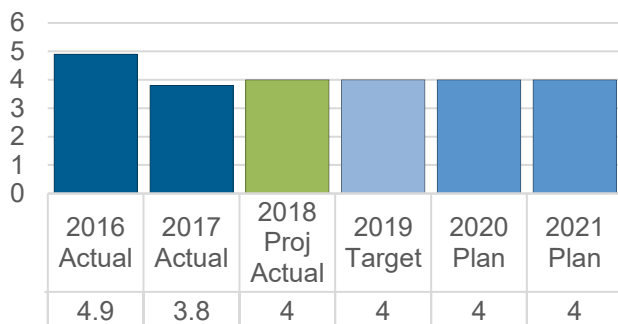


Source of Image: [www.icons8.com](http://www.icons8.com)

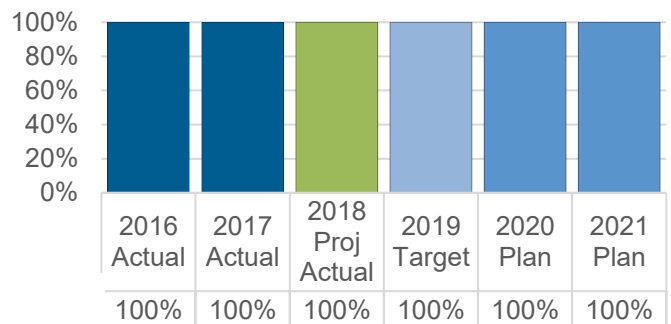
Refer to [Appendix 3](#) (page 50) for a complete list of the 2019 Staff Recommended Service Levels for this Service.

**Service Performance Measures**

**Wastewater Main Backups per 100 KM Wastewater Main**



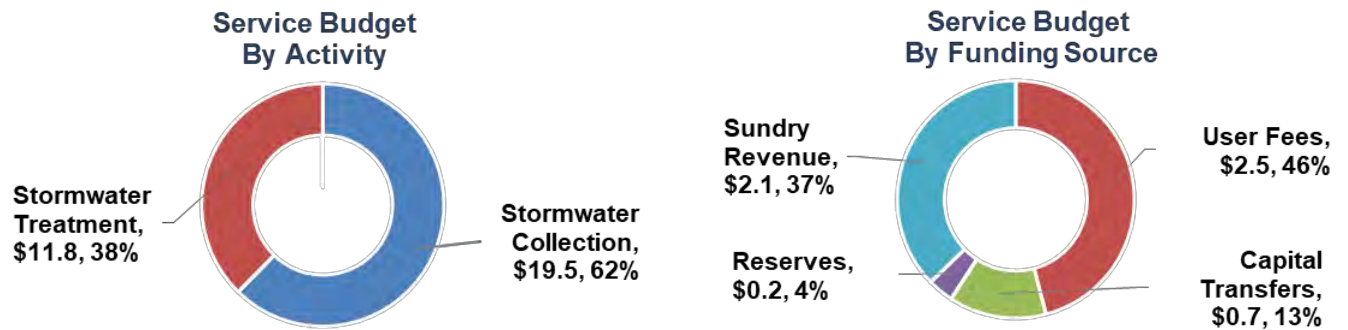
**Effectiveness Measure - Percent Biosolids Beneficially Used (ABTB)**



- 2012-2016 rising trend was impacted by severe storms causing wastewater capacity constraints, with 2017 actuals reflecting more regular weather patterns.
- 2018 projected actuals and 2019–2021 target and plan is to maintain wastewater main backups and repair levels of typical climate years.
- Continuing efforts to increase beneficial use by pelletizing biosolids resulted in an actual performance reaching 100% in 2016 and 2017.
- 2018 projected actuals and 2019-2021 target and plan are projected to maintain beneficial use to 100% target level.

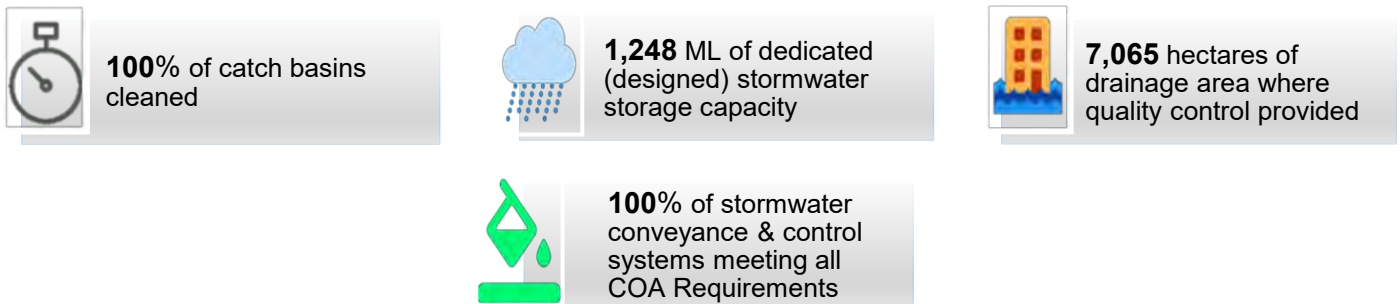
**Stormwater Management** Collect and treat stormwater in a safe, responsible manner in accordance with all legislated requirements.

**2019 Staff Recommended Operating Budget \$31.3 M**



Refer to [Appendix 2](#) (page 48) for the 2019 Staff Recommended Operating Budget by Service.

**Key Service Levels**

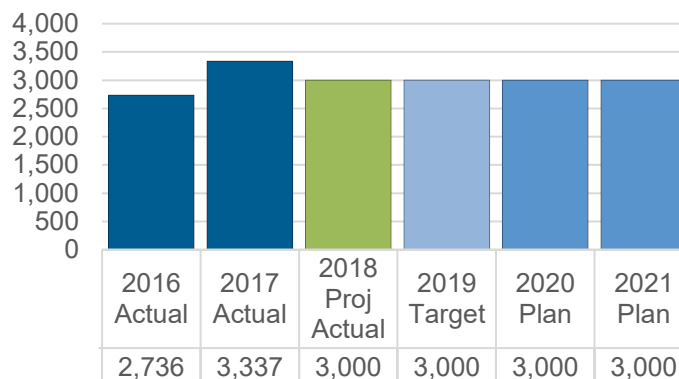


Source of Image: [www.icons8.com](http://www.icons8.com)

Refer to [Appendix 3](#) (page 50) for a complete list of the 2019 Staff Recommended Service Levels for this Service.

**Service Performance Measures**

**Water Course Inlet Inspections**



- 2016 -2017 reflects high effort in inspecting water course inlets to improve stormwater management.
- 2018 projected actuals and 2019 target and 2020-2021 plan is to maintain inlet inspections to target levels.

## 2018 OPERATING PERFORMANCE

### 2018 Service Performance

#### Key Service Accomplishments:

- The Ministry of Environment, Conservation and Parks (MECP) has completed annual inspections at the City's water treatment facilities and there have been no major non-conformance issues identified.
- Drinking Water Quality Management Standards (DWQMS) re-accreditation was achieved in 2018 by an external auditor
- The management structure and key phases of hiring for the Toronto Water Customer Care Centre are completed. This is a transformational initiative that sets the stage for significant improvements to increase customer satisfaction. (Initiated in 2017 and resulted in \$0.747 million in savings due the reduction of 8 positions.)
- Optimizing GIS technology to enhance operational efficiency and improve customer service
- Piloting smart grid technologies to help with in the field data collection and connectivity.
- As of December, processed 5,651 Basement Flooding Protection Program applications to provide financial subsidy to install flood protection devices such as backwater valves
- Ongoing education and outreach program attending 266 outreach events with an estimated attendance of 3.6 million people as reported by event organizers.
- Water conservation projects related to the Industrial Water Rate Program resulted in estimated cumulative water savings of 5.8 million m<sup>3</sup>

### Status Update on 2018 Council Approved New & Enhanced Services

During the 2018 Budget process, City Council approved \$0.123 million gross and net to fund one additional senior communications coordinator position. This position was intended to provide digital communications expertise to the existing team of three senior communication coordinators dedicated to Toronto Water within Strategic Communications.

This position is now in place and assisting in planning, implementing and managing Toronto Water's digital initiatives.

## 2018 Financial Performance

Table 3: Budget vs. Actual by Category of Expenditures and Revenues

Category (In \$000s)	2017 Actual	2018 Budget	2018 Projected Actual *	2019 Total Staff Recommended Budget	2019 Change from 2018 Approved Budget	
	\$	\$	\$	\$	\$	%
Salaries and Benefits	168,482.7	179,395.4	171,895.4	186,451.0	7,055.5	3.9%
Materials & Supplies	96,317.6	107,410.1	100,310.1	109,196.2	1,786.1	1.7%
Equipment	2,737.8	3,200.5	3,000.5	3,684.5	484.1	15.1%
Service and Rent	51,146.8	62,388.9	54,606.9	69,228.9	6,840.0	11.0%
Contribution To Capital	815,409.2	842,035.1	842,035.1	867,367.7	25,332.6	3.0%
Contribution To Reserves/Reserve Funds	10,130.4	10,130.4	10,130.4	10,130.4		
Other Expenditures	16,654.8	18,895.0	16,995.0	18,517.6	(377.4)	(2.0%)
Inter-Divisional Charges	65,516.5	65,831.7	64,831.7	66,660.4	828.7	1.3%
<b>Total Gross Expenditures</b>	<b>1,226,396.0</b>	<b>1,289,286.9</b>	<b>1,263,805.0</b>	<b>1,331,236.7</b>	<b>41,949.7</b>	<b>3.3%</b>
Inter-Divisional Recoveries	18.5	47.0	47.0	186.1	139.1	295.8%
Provincial Subsidies						
Federal Subsidies						
Other Subsidies						
User Fees & Donations	60,950.9	54,058.1	64,060.6	55,558.1	1,500.0	2.8%
Licences & Permits Revenue						
Transfers From Capital	5,699.2	4,758.9	5,398.9	7,341.5	2,582.6	54.3%
Contribution From Reserves/Reserve Funds	195.0	195.0	195.0	4,278.6	4,083.6	2094.2%
Sundry and Other Revenues	1,159,532.5	1,230,228.0	1,243,444.8	1,263,872.4	33,644.5	2.7%
<b>Total Revenues</b>	<b>1,226,396.1</b>	<b>1,289,287.0</b>	<b>1,313,146.4</b>	<b>1,331,236.7</b>	<b>41,949.7</b>	<b>3.3%</b>
<b>Total Net Expenditures</b>	<b>(0.0)</b>	<b>(0.0)</b>	<b>(49,341.4)</b>	<b>0.0</b>	<b>0.0</b>	<b>(0.0%)</b>
<b>Approved Positions</b>	<b>1,640.3</b>	<b>1,764.7</b>	<b>1,626.3</b>	<b>1,805.7</b>	<b>41.0</b>	<b>2.3%</b>

\* Year-End Projection Based on Q3 2018 Variance Report

Toronto Water is projecting to be underspent by \$49.341 million at year-end, primarily due to underspending in salaries and benefits as a result of vacancies, declining hydro rates and efficient usage, underspending in chemicals due to change in dosage requirements and other materials, combined with higher than budgeted revenues due to higher than anticipated volume of water sold as a result of hot summer, as well as increases in new water service connections and other revenues.

For additional information regarding the 2018 Q3 operating variances and year-end projections, please refer to the attached link for the report entitled "Operating Variance Report for the Nine-Month Period Ended September 30, 2018", approved by City Council at its meeting on December 4, 5 and 13, 2018.

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2019.CC1.7>

### Impact of 2018 Operating Variance on the 2019 Staff Recommended Operating Budget

- In its Q3 Operating Variance Report Toronto Water projected net under expenditure because of lower than anticipated hydro rates and usage efficiencies. Savings in some other materials and supplies were also projected.
  - Line by line expenditure savings totalling \$1.890 million including the reassessment of payments in lieu of taxes, and utility efficiencies of \$1.223 million are included in the 2019 Staff Recommended Operating Budget to account for impact of various initiatives undertaken by Toronto Water. That resulted in ongoing savings.



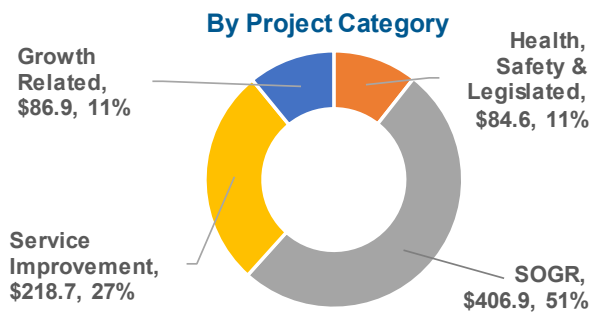
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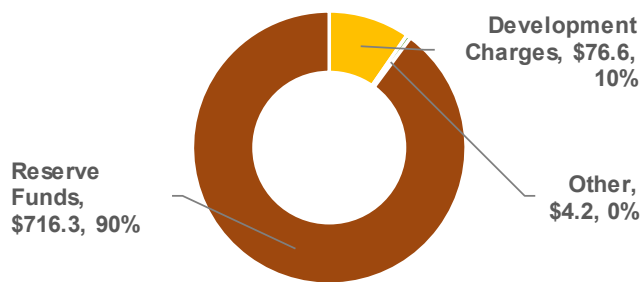
# 2019 – 2028 STAFF RECOMMENDED CAPITAL BUDGET AND PLAN

**10 YEAR CAPITAL PLAN HIGHLIGHTS**

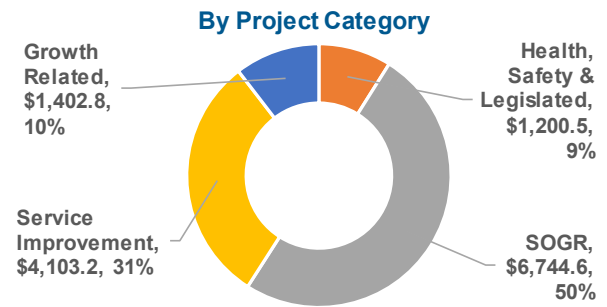
**2019 Staff Recommended Capital Budget \$797.0M**



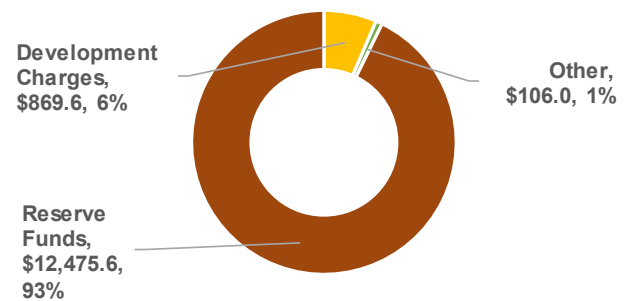
**By Funding Source**



**2019-2028 Staff Recommended Capital Budget and Plan \$13,451.1M**



**By Funding Source**



**1**  
YEAR

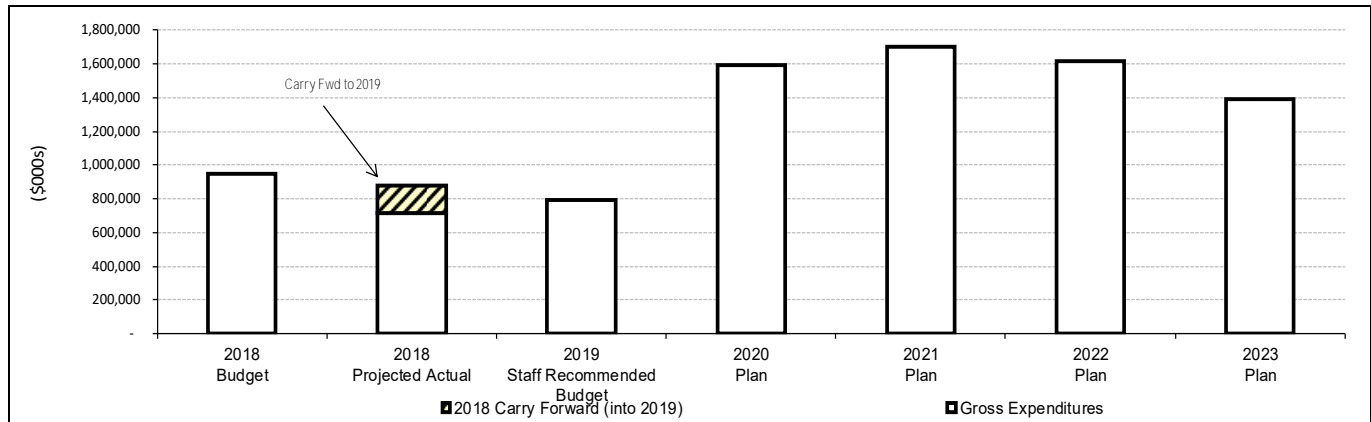
- **\$214.978M** Deliver continued state of good repair projects to address infrastructure renewal such as Watermain Replacement and Rehabilitation (\$64.053 million), Sewer System Replacement and Rehabilitation (\$130.250 million) and Trunk Sewer and Pumping Station projects (\$20.675 million).
- **\$168.207M** Implement Basement Flooding (\$58.406 million), Wet Weather Flow Master Plan (\$102.518 million) and Stream Restoration and erosion projects (\$7.283 million)
- **\$14.791M** Continue to provide funding for the TRCA erosion control projects including critical Erosion sites.

**10**  
YEARS

- **\$7.945B** State of Good Repair projects (including Health & Safety and Legislated projects of \$1.201B) to ensure the replacement or rehabilitation of aging watermains and sewers and investment in the aging water and wastewater facilities.
- **\$4.103B** Service Improvement projects for the implementation of water quality improvements projects, Wet Weather Flow Master Plan and to advance the Basement Flooding Protection projects in 67 chronic basement flooding areas across the City.
- **\$1.402B** Growth Related projects to increase the hydraulic capacity in the Toronto Water supply system and to provide necessary servicing capacity for growing population, to install service connections for new homes and developments, and to provide for wastewater projects such as Waterfront Sanitary Servicing and Ashbridges Bay Plant Aeration Tanks.

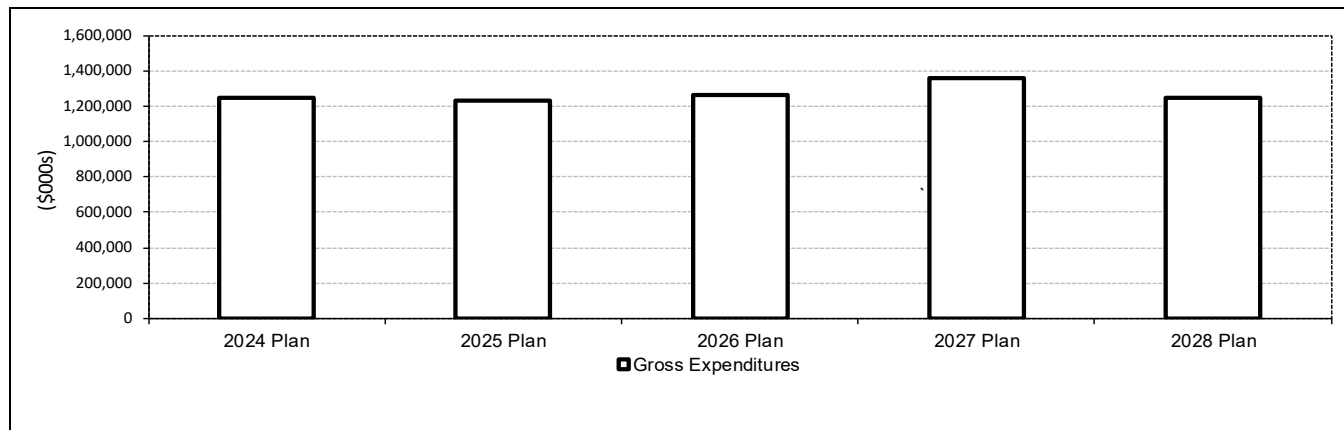
**2019 2028 CAPITAL BUDGET & PLAN OVERVIEW**

**Chart 1: 10-Year Capital Plan Overview**



	2019 Staff Recommended Capital Budget and 2020 - 2023 Capital Plan								5-Year Total Percent
	2018		2019	2020	2021	2022	2023	2019 - 2023	
	Budget	Projected Actual							
<b>Gross Expenditures by Project Category:</b>									
Health & Safety	3,998	2,953	741	11,769	3,007	2,374	1,891	19,782	0.3%
Legislated	120,544	77,598	83,879	197,246	210,812	187,515	128,302	807,754	11.4%
SOGR	582,232	428,623	406,855	872,870	932,227	823,888	715,382	3,751,222	52.8%
Service Improvement	164,283	143,189	218,685	380,408	417,157	460,433	377,556	1,854,239	26.1%
Growth Related	75,516	61,625	86,920	127,793	140,215	142,558	168,216	665,702	9.4%
<b>Total by Project Category</b>	<b>946,572</b>	<b>713,988</b>	<b>797,080</b>	<b>1,590,086</b>	<b>1,703,418</b>	<b>1,616,768</b>	<b>1,391,347</b>	<b>7,098,699</b>	<b>100.0%</b>
<b>Program Debt Target</b>									
<b>Financing:</b>									
<b>Debt</b>									
Reserves/Reserve Funds	893,236	673,792	716,323	1,448,822	1,553,610	1,522,766	1,296,355	6,537,876	92.1%
Development Charges	45,779	34,490	76,584	125,895	132,949	79,204	82,579	497,211	7.0%
Provincial/Federal				5,000	5,000	5,000	6,000	21,000	0.3%
Debt Recoverable									
Other Revenue	7,557	5,706	4,173	10,369	11,859	9,798	6,413	42,612	0.6%
<b>Total Financing</b>	<b>946,572</b>	<b>713,988</b>	<b>797,080</b>	<b>1,590,086</b>	<b>1,703,418</b>	<b>1,616,768</b>	<b>1,391,347</b>	<b>7,098,699</b>	<b>100.0%</b>
<b>By Status:</b>									
2018 Capital Budget & Approved Future Year (FY) Commitments	946,572	713,988	1,245,340	1,050,645	813,638	616,756	503,592	4,229,971	59.6%
Changes to Approved FY Commitments			107,597	39,911	17,645	325		165,478	2.3%
2019 New/Change in Scope & FY Commitments			(555,857)	430,279	665,437	497,822	262,318	1,299,999	18.3%
2020 - 2023 Capital Plan Estimates				69,251	206,698	501,865	625,437	1,403,251	19.8%
2-Year Carry Forward for Reapproval									
1-Year Carry Forward to 2019		163,426							
<b>Total Gross Annual Expenditures &amp; Plan</b>	<b>946,572</b>	<b>877,414</b>	<b>797,080</b>	<b>1,590,086</b>	<b>1,703,418</b>	<b>1,616,768</b>	<b>1,391,347</b>	<b>7,098,699</b>	<b>100.0%</b>
<b>Asset Value (\$) at year-end</b>		<b>28,637,915</b>	<b>28,723,367</b>	<b>28,909,910</b>	<b>29,104,500</b>	<b>29,595,884</b>	<b>30,011,000</b>	<b>30,011,000</b>	
Yearly SOGR Backlog Estimate (not addressed by current plan)			(37,814)	(289,927)	(350,811)	(233,757)	(170,620)	(1,082,928)	
Accumulated Backlog Estimate (end of year)		1,490,984	1,453,170	1,163,243	812,432	578,675	408,056	408,056	
<b>Backlog: Percentage of Asset Value (%)</b>		5.2%	5.1%	4.0%	2.8%	2.0%	1.4%		
Debt Service Costs			0	0	0	0	0	0	
Operating Impact on Program Costs			738	1,049	775	2,174	150	4,886	
New Positions			5	5	4			14	

**Chart 2: 10-Year Capital Plan Overview (Continued)**



	2024 - 2028 Staff Recommended Capital Plan							10-Year Total Percent
	2024	2025	2026	2027	2028	2019 - 2028		
<b>Gross Expenditures by Project Category:</b>								
Health & Safety	31					19,813		0.1%
Legislated	98,972	88,565	74,286	55,606	55,546	1,180,729		8.8%
SOGR	624,302	647,213	620,876	594,688	506,283	6,744,584		50.1%
Service Improvement	319,163	328,831	447,225	586,090	567,670	4,103,218		30.5%
Growth Related	207,963	167,136	122,126	120,993	118,893	1,402,813		10.4%
<b>Total by Project Category</b>	<b>1,250,431</b>	<b>1,231,745</b>	<b>1,264,513</b>	<b>1,357,377</b>	<b>1,248,392</b>	<b>13,451,157</b>		<b>100.0%</b>
<b>Program Debt Target</b>								
<b>Financing:</b>								
<b>Debt</b>								
Reserves/Reserve Funds	1,163,635	1,145,208	1,184,399	1,276,286	1,168,190	12,475,594		92.7%
Development Charges	75,909	77,455	70,741	74,078	74,188	869,582		6.5%
Provincial/Federal	6,000	6,000	6,000	6,000	6,000	51,000		0.4%
Debt Recoverable								
Other Revenue	4,887	3,082	3,373	1,013	14	54,981		0.4%
<b>Total Financing</b>	<b>1,250,431</b>	<b>1,231,745</b>	<b>1,264,513</b>	<b>1,357,377</b>	<b>1,248,392</b>	<b>13,451,157</b>		<b>100.0%</b>
<b>By Status:</b>								
2018 Capital Budget & Approved Future Year (FY) Commitments	369,285	285,160	201,051	71,985		5,157,452		38.3%
Changes to Approved FY Commitments						165,478		1.2%
2019 New/Change in Scope & FY Commitments	132,326	81,788	47,459	69,666	98,634	1,729,872		12.9%
2024 - 2028 Capital Plan Estimates	748,820	864,797	1,016,003	1,215,726	1,149,758	6,398,355		47.6%
2-Year Carry Forward for Reapproval								
<b>Total Gross Annual Expenditures &amp; Plan</b>	<b>1,250,431</b>	<b>1,231,745</b>	<b>1,264,513</b>	<b>1,357,377</b>	<b>1,248,392</b>	<b>13,451,157</b>		<b>100.0%</b>
<b>Asset Value(\$)</b> at year-end	<b>30,950,021</b>	<b>31,509,684</b>	<b>31,787,373</b>	<b>31,990,960</b>	<b>33,367,448</b>	<b>33,367,448</b>		
Yearly SOGR Backlog Estimate (not addressed by current plan)	(73,022)	(20,182)	(39,708)	(39,093)	(27,556)	(1,282,489)		
Accumulated Backlog Estimate (end of year)	335,034	314,851	275,144	236,051	208,495	208,495		
<b>Backlog: Percentage of Asset Value (%)</b>	<b>1.1%</b>	<b>1.0%</b>	<b>0.9%</b>	<b>0.7%</b>	<b>0.6%</b>			
Debt Service Costs	0	0	0	0	0	0		
Operating Impact on Program Costs	580		1,915			7,381		
New Positions						14		

**Staff Recommended 10-Year Capital Plan by Project Category**

**Table 4: Summary of Capital Projects by Project Category**

(In \$000s)	2019 Budget	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	2019 - 2028 Total	Total Project Cost
<b>Total Expenditures by Category</b>												
<b>Health &amp; Safety</b>												
Ashbridges Bay TP	491	6,629	2,583	2,374	1,891	31					13,999	13,999
Humber TP	250	5,140	424								5,814	5,814
<b>Sub-Total</b>	<b>741</b>	<b>11,769</b>	<b>3,007</b>	<b>2,374</b>	<b>1,891</b>	<b>31</b>					<b>19,813</b>	<b>19,813</b>
<b>Legislated</b>												
Water Service Replacement	15,390	57,043	45,625	48,221	46,246	46,246	45,746	44,246	44,246	44,246	437,255	437,255
Pumping Stations	3,489	7,338	8,919	11,490	12,924	9,558	6,700	8,425	4,250		73,093	73,093
WT - Storage & Treatment	125	125	125								375	375
Ashbridges Bay TP	55,907	117,316	129,560	101,068	60,016	42,764	35,719	20,615	60		563,025	563,025
Highland Creek TP	4,935	9,586	10,417	7,456	37	37	400	1,000	6,500	11,300	51,668	51,668
Humber TP	1,378	2,676			550				550		5,154	5,154
RL Clark TP	2,087	700	3								2,790	2,790
Island TP	568	2,462	16,163	19,280	8,529	367					47,369	47,369
<b>Sub-Total</b>	<b>83,879</b>	<b>197,246</b>	<b>210,812</b>	<b>187,515</b>	<b>128,302</b>	<b>98,972</b>	<b>88,565</b>	<b>74,286</b>	<b>55,606</b>	<b>55,546</b>	<b>1,180,729</b>	<b>1,180,729</b>
<b>State of Good Repair</b>												
Business & Technology		79	78	80							237	237
Linear Eng	69,110	112,329	122,283	104,413	88,038	74,298	74,309	80,251	75,489	74,309	874,829	874,829
Sewer Rehabilitation	50,798	77,236	89,179	78,637	69,853	66,953	68,303	67,053	68,603	69,553	706,168	706,168
Sewer Replacement	12,332	19,458	21,086	16,012	17,469	15,100	15,000	15,000	15,000	15,000	161,457	161,457
WM Rehabilitation	47,901	68,171	83,054	71,180	71,560	70,460	70,360	70,260	65,460	65,360	683,766	683,766
WM Replacement	55,424	129,525	117,014	103,704	101,130	95,000	95,000	95,000	95,000	95,000	981,797	981,797
Water Service Replacement	5,115	7,854	7,854	675							21,498	21,498
Pumping Stations	1,303	8,212	7,612	8,816	7,935	7,875	6,815	4,260	3,550	4,000	60,378	60,378
Trunk Water Mains	4,542	5,891	2,360	14,600	25,300	27,800	22,150	25,975	25,925	25,650	180,193	180,193
WT - Storage & Treatment	20,445	32,061	47,276	32,227	10,712	13,737	26,385	35,830	17,155	5,610	241,438	241,438
Trunk Sewers & Pumping Stations	19,261	77,830	70,103	80,188	52,000	61,157	53,115	33,515	28,350	14,082	489,601	489,601
Ashbridges Bay TP	53,618	184,523	217,002	203,880	165,514	120,748	151,159	129,487	114,564	64,040	1,404,535	1,404,535
Highland Creek TP	9,425	39,327	32,880	35,157	43,890	24,610	26,255	18,640	13,927	14,314	258,425	258,425
Humber TP	33,649	43,676	52,590	26,529	32,487	18,057	7,585	11,235	36,360	35,000	297,168	297,168
RL Clark TP	7,950	4,941	315	291	200	200	200	200	200	200	14,697	14,697
RC Harris TP	1,910	12,808	10,648	3,437	2,024	11,550	11,500	11,500	12,550	500	78,427	78,427
FJ Horgan TP	180	1,701	1,281	1,321	825	202	202	200	200	200	6,312	6,312
Island TP	4,480	17,312	8,421	7,438	8,875	3,775	725	525	475	4,675	56,701	56,701
WWF-Implementation Projects	1,567	12,828	25,109	17,081	3,665	4,000	4,000	4,000	6,000	4,500	82,750	82,750
WWF - Stream Restoration	7,283	16,339	14,349	16,947	12,420	7,295	12,665	16,460	14,395	12,805	130,958	130,958
Yards & Facility	562	769	1,733	1,275	1,485	1,485	1,485	1,485	1,485	1,485	13,249	13,249
<b>Sub-Total</b>	<b>406,855</b>	<b>872,870</b>	<b>932,227</b>	<b>823,888</b>	<b>715,382</b>	<b>624,302</b>	<b>647,213</b>	<b>620,876</b>	<b>594,688</b>	<b>506,283</b>	<b>6,744,584</b>	<b>6,744,584</b>
<b>Service Improvement</b>												
Water Meter Program (AMR)	4,605	1,680	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	18,285	18,285
Basement Flooding	58,406	143,565	157,987	183,371	163,152	151,264	147,986	221,612	226,263	217,001	1,670,607	1,670,607
Business & Technology	12,277	12,584	12,572	8,506	7,769	4,769	2,914	2,014	2,014	2,014	67,433	67,433
Linear Eng	954	3,000	3,075	3,735	7,125	8,975	8,475	7,975	7,975	7,975	59,264	59,264
Sewer Replacement	923	1,825									2,748	2,748
Pumping Stations	188	69									257	257
Trunk Water Mains	50	3,568	3,327	3,333	41	92					10,411	10,411
WT - Storage & Treatment	2,247	8,945	5,521	4,061	60						20,834	20,834
Trunk Sewers & Pumping Stations	700	1,100	700	900	8,400	9,450	750				22,000	22,000
Ashbridges Bay TP	1,926	14,609	14,098	15,826	10,655	2,062	2,115	2,100	20,050	41,300	124,741	124,741
Highland Creek TP	9,062	9,757	15,005	27,652	24,150	29,920	48,125	44,080	25,150	29,290	262,191	262,191
Humber TP	4,179	8,070	7,849	9,277	7,500	3,500					40,375	40,375
RC Harris TP	1,029	5,853	864								7,746	7,746
FJ Horgan TP	213	750	2,360	540	760	1,011					5,634	5,634
Island TP		2,900	3,957	867	695	650	75	650	225		10,019	10,019
WTP-Plantwide	2,149	14,128	36,828	49,507	29,174	30,609	30,825	16,710	16,515	13,815	240,260	240,260
WWF-Implementation Projects	100,951	124,013	125,573	135,344	99,892	58,674	69,252	133,640	260,870	237,560	1,345,769	1,345,769
WWF-TRCA	14,791	14,104	14,219	14,337	15,958	16,082	16,209	16,339	16,473	16,610	155,122	155,122
Yards & Facility	4,035	9,888	11,722	1,677	725	605	605	605	9,055	605	39,522	39,522
<b>Sub-Total</b>	<b>218,685</b>	<b>380,408</b>	<b>417,157</b>	<b>460,433</b>	<b>377,556</b>	<b>319,163</b>	<b>328,831</b>	<b>447,225</b>	<b>586,090</b>	<b>567,670</b>	<b>4,103,218</b>	<b>4,103,218</b>
<b>Growth Related</b>												
Linear Eng	531	250	150	150	150	150	150	150	150	150	1,981	1,981
New Connections	41,836	52,503	54,993	49,857	45,223	48,223	48,223	48,223	48,223	48,223	485,527	485,527
New Sewers	5,500	9,566	20,459	27,537	12,651	3,930	2,048	1,698	1,000	1,000	85,389	85,389
WM Replacement	26,925	35,723	31,982	19,712	20,505	18,040	19,000	19,000	19,000	19,000	228,887	228,887
Pumping Stations	4,312	5,558	2,068	2,245	1,050	900					16,133	16,133
Trunk Water Mains	6,791	15,625	17,215	16,709	17,700	17,700	9,345	35			101,120	101,120
WT - Storage & Treatment		165	1,000	2,000	3,000						6,165	6,165
Trunk Sewers & Pumping Stations	188	1,347	3,545	12,400	28,150	52,400	52,400	52,200	51,900	50,000	304,530	304,530
Ashbridges Bay TP	50	4,850	5,300	7,900	39,000	66,000	35,350	300	200		158,950	158,950
Highland Creek TP	192	800	500								1,492	1,492
FJ Horgan TP				41							41	41
Island TP	100	700	2,300	3,300							6,400	6,400
Water Efficiency Plan	495	706	603	607	687	520	520	520	520	520	5,698	5,698
WWF-Implementation Projects			100	100	100	100	100	100			500	500
<b>Sub-Total</b>	<b>86,920</b>	<b>127,793</b>	<b>140,215</b>	<b>142,558</b>	<b>168,216</b>	<b>207,963</b>	<b>167,136</b>	<b>122,126</b>	<b>120,993</b>	<b>118,893</b>	<b>1,402,813</b>	<b>1,402,813</b>
<b>Total Expenditures by Category (excluding carry forward from 2018)</b>												
	<b>797,080</b>	<b>1,590,086</b>	<b>1,703,418</b>	<b>1,616,768</b>	<b>1,391,347</b>	<b>1,250,431</b>	<b>1,231,745</b>	<b>1,264,513</b>	<b>1,357,377</b>	<b>1,248,392</b>	<b>13,451,157</b>	<b>13,451,157</b>

## 2019 - 2028 Key Capital Projects

The 10-Year Staff Recommended Capital Plan supports Toronto Water's objectives by balancing infrastructure renewal needs for State of Good Repair with new Service Improvement projects, while providing the capacity to keep pace with population growth, and ensuring the delivery of water supply and wastewater treatment within an increasingly stringent regulatory framework.

In addition to the state of good repair projects, considerable funding is provided to support the implementation of the Wet Weather Flow Master Plan, Basement Flooding Protection Program and growth related projects. Additional financial pressures are also accommodated within the Plan as a result of updated cost estimates for Ashbridges Bay Wastewater Treatment Plant upgrades and implementation of various Trunk Sewer and Pumping Station rehabilitation projects.

Over the 10-year planning horizon, Toronto Water's Capital Plan continues to be 100% user fee funded and does not require debenture financing. The 10-Year Staff Recommended Capital Plan of \$13.451 billion will be funded primarily from the Program's reserves, representing approximately 93% or \$12.476 billion of total capital financing.

### *State of Good Repair (SOGR), Health & Safety, and Legislated projects*

- The on-going state of good repair projects for linear infrastructure renewal to ensure the replacement or rehabilitation of aging watermains and sewers, and investment in the City's aging wastewater treatment facilities, are the focus of the 2019-2028 Capital Budget and Plan.
- The 10-Year Staff Recommended Capital Plan includes \$7.945 billion or 59.1% of the total funding of \$13.451 billion for new SOGR projects (including Health & Safety and Legislated projects of \$1.201 billion or 8.9%) over the next 10 years.
- The 2019-2028 Staff Recommended Capital Budget and Plan includes funding of \$563.025 million or 4.2% of total funding to meet legislated requirements governing the Ashbridges Bay Wastewater Treatment Effluent System. Another \$56.822 million or 0.4% of the total is allocated to legislated odour control projects at Highland Creek and Humber Wastewater Treatment plants.
- State of Good Repair funding included in the 10-Year Staff Recommended Capital Plan is intended to address Toronto Water's SOGR linear infrastructure and plant backlog, estimated at \$1.491 billion by year-end 2018, with the backlog projected to be effectively eliminated by year-end 2028, provided current funding allocations for State of Good Repair projects are maintained over the next 10 years.
- The largest state of good repair projects involving linear infrastructure are watermain (\$1.666 billion) and sewer (\$0.868 billion) rehabilitation and replacement projects. Another \$1.404 billion will be invested over the 10-year period in various state of good repair projects at the Ashbridges Bay Wastewater Treatment Plant including liquid treatment, solids and gas handling projects.
- State of Good Repair funding included in the 10-Year Staff Recommended Capital Plan is intended to address Toronto Water's SOGR linear infrastructure and plant backlog, estimated at \$1.491 billion by year-end 2018, with the backlog projected to be effectively eliminated by year-end 2028, provided current funding allocations for State of Good Repair projects are maintained over the next 10 years.
- Adjustments to project costing rates to align with market experience calculated through the bidding process, will require that the SOGR estimate be regularly updated.

### *Service Improvement*

- Service Improvement projects account for \$4.103 million or 30.5% of total funding over the 10-year period, some of which is recovered from Development Charges.

- Approximately \$1.670 billion or 12.4% has been allocated to implement the Basement Flooding Protection projects in 67 chronic basement flooding areas across the City.
- Funding is also included for the implementation of other water quality improvement projects from the City's Wet Weather Flow Master Plan to reduce and ultimately eliminate the adverse impacts of polluted stormwater and combined sewer overflows (CSOs) that are discharged from outfalls to the City's watercourses and the waterfront. These projects will achieve a measurable improvement in ecosystem health of the City's watersheds and waterfront, and improved water quality along the City's waterfront beaches and include:
  - The Don River and Central Waterfront Trunk / Combined Sewer Outfall (CSO) project, with allocated funding of \$1.064 billion, represent 7.9% of the total 10-Year Capital Plan's expenditures.
  - The Stormwater Management End of Pipe Facilities projects totalling \$161.354 million or 1.2% of total capital funding are intended to address most of the storm sewer discharges to the waterfront and all but 9 of the 69 combined sewer overflow discharges in the City.
  - Approximately \$155.122 million or 1.2% is included in the 10-Year Capital Plan in funding contributions to the Toronto and Region Conservation Authority (TRCA) for stream restoration and erosion control projects.
- Another \$262.191 million or 1.9% has been allocated to the Highland Creek Waste Water Treatment Plant upgrades and biosolids and gas handling projects implementation.
- Toronto Water's 10-Year Capital Plan dedicates \$67.433 million for Business and Technology projects to upgrade reliability and connectivity of its water and wastewater treatment plant systems. This allocation includes funding for the Enterprise Work Management System, a multi-divisional initiative that will replace several legacy software applications with an enterprise solution in order to improve the coordination of daily maintenance activities across the four largest divisions, Parks, Forestry and Recreation, Solid Waste Management Services, Toronto Water and Transportation Services.

### *Growth Related*

- Growth Related projects account for \$1.402 billion or 10.4% of the 10-Year Capital Plan's funding allocation.
- In addition to the New Connection Program, the largest projects in this category are the Local and Trunk Watermain Upgrade projects that will increase the hydraulic capacity in the Toronto Water supply system. Many of the Trunk Watermain projects are cost shared with the Region of York.
- The 2019-2028 Staff Recommended Capital Budget and Plan allocates funding for the New Sewer Construction (\$85.389 million) and Trunk Sewer and Pumping Station projects (\$304.583 million) including the Black Creek Sanitary Trunk Sewer, as well as New Service Connections (\$485.527 million) and Trunk Watermains (\$101.120 million) to provide the necessary servicing capacity based on projected population growth, and for the installation of service connections for new homes and developments. It also allocates funding to construct 2 new aeration tanks at the Ashbridges Bay Treatment Plant (\$157.150 million).
- Growth related projects are primarily funded by Development Charges (DC). Development Charges provide approximately 6.5% or \$869.582 million of financing for the 10-Year Capital Plan, excluding carry forward funding. The use of Development Charge funding has been maximized based on project eligibility. However the following should be noted:
  - As approved by City Council, most non-residential development is exempt from development charge payments, resulting in projected revenues that are lower than they would have been based on the approved project eligibility criteria.
  - Due to insufficient funding collected from Development Charges, Toronto Water will not be able to fully offset the costs of the growth related share for projects that are eligible for development charge funding incorporated in its 10-Year Capital Plan.

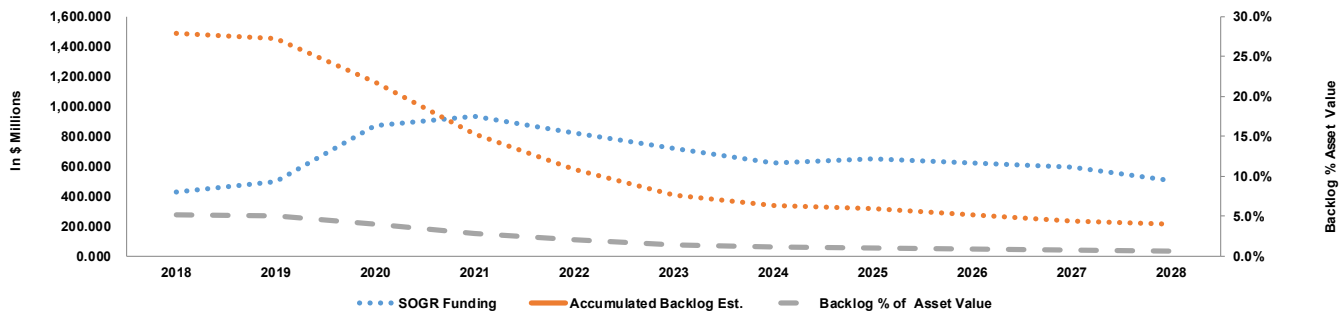


- Approximately \$603.4 million in project costs related to the growth component will be funded from Toronto Water's capital financing reserves, thus reducing Toronto Water's ability to address its SOGR backlog of projects at a faster rate.

**State of Good Repair (SOGR) Funding & Backlog**

- At the end of 2018, the replacement value of Toronto Water's assets was estimated at \$28.638 billion incorporating both linear (watermains, sewers) and facility/plant (water treatment plants, wastewater treatment plants, pumping stations) assets.
  - Linear infrastructure assets represent approximately 74% of the total asset value at \$21.303 billion.
  - Facility/plant assets account for the remaining 26% or \$7.335 billion.
- The 2018 year-end backlog of state of good repair work for linear and plant infrastructure renewal is projected at \$1.491 billion, representing 5.2% of the asset replacement value. Approximately 55% or \$0.819 billion of the backlog relates to linear infrastructure, with the remaining 45% or \$0.645 billion representing facilities backlog.
- The linear infrastructure and facilities State of Good Repair backlog and annual renewal need estimates have been periodically updated to reflect changes in unit rates for replacement and the changing condition of the asset.
- The 10-Year Staff Recommended Capital Budget and Plan dedicates \$6.745 billion or \$675 million on average annually (excluding carryforward funding), to address state of good repair, which is anticipated to effectively eliminate the backlog by 2028.

**Chart 3: Total SOGR Funding & Backlog**



In \$ Millions	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
<b>SOGR Funding</b>	429.018	495.491	872.870	932.227	823.888	715.382	624.302	647.213	620.876	594.688	506.283
<b>Accumulated Backlog Est.</b>	1,490.984	1,453.170	1,163.243	812.432	578.675	408.056	335.034	314.851	275.144	236.051	208.495
<b>Backlog % of Asset Value</b>	5.2%	5.1%	4.0%	2.8%	2.0%	1.4%	1.1%	1.0%	0.9%	0.7%	0.6%
<b>Total Asset Value</b>	28,637.915	28,723.367	28,909.910	29,104.500	29,595.884	30,011.000	30,950.021	31,509.684	31,787.373	31,990.960	33,367.448

- While both categories of assets have historically received funding for state of good repair projects, the accumulated backlog of projects for linear infrastructure has been addressed at a higher rate, resulting in a proportionally lower backlog representing 3.9% of its replacement value at the end of 2018, compared to 9.2% for facilities.
- Additional condition assessments of infrastructure continue to be undertaken based on asset classes through discrete projects. The condition assessment of booster pumping stations and sewer pipes was completed in 2014 and has resulted in the addition of a pumping station rehabilitation plan to Toronto Water's 10 year Capital Plan in 2015.
- Condition assessments of sewage pumping stations continue to be undertaken on a prioritized basis and a facility condition assessment project is being undertaken and is expected to be completed in 2019.
- New methods for inspection of pressurized pipe are being explored to assess condition of assets without taking the pipes out of service during the inspection.
- It should be noted that continued trend of higher unit rates for linear infrastructure renewal projects may impact negatively on the state of good repair backlog for infrastructure renewal.

- Escalating unit rates for linear infrastructure renewal, due to additional funding requirement for those projects, have already resulted in a deferral of some previously planned capital projects by 1 to 5 years, to align with the funding availability projected by the Water and Wastewater Rate Model.

## Operating Impact of Completed Capital Projects

**Table 5: Net Operating Impact Summary**

Projects	2019 Budget		2020 Plan		2021 Plan		2022 Plan		2023 Plan		2019 - 2023		2019 - 2028	
	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions
<b>Previously Approved</b>														
Ashbridges Bay WWTP - Blower Building & Old North Substation Improvements			99	1.0	24						123	1.0	123	1.0
Ashbridges Bay WWTP - D Building Phase 2					250		250				500		500	
Ashbridges Bay WWTP - Disinfection System					867	2.0	120				987	2.0	987	2.0
Ashbridges Bay WWTP - Liquid Treatment & Handling - Integrated Pumping Station													1,700	
Ashbridges Bay WWTP - Liquid Treatment & Handling - Waste Activated Sludge Upgrade					(620)		1,500				880		880	
Ashbridges Bay WWTP - O & M Upgrades			70	1.0	19						89	1.0	89	1.0
Ashbridges Bay WWTP - P Building Headworks	77	1.0	304	2.0	38						419	3.0	419	3.0
Basement Flooding Relief - Group 2	61	1.0	107	1.0	18						186	2.0	186	2.0
Capital Programming & Facility Asset Planning	79	1.0	30		3						112	1.0	112	1.0
Highland Creek WWTP - Process & Facility Upgrades	50										50		50	
Humber WTP - Gas Compressor System Upgrades	50										50		50	
Humber WTP - Odour Control Engineering	77	1.0	27								104	1.0	104	1.0
Island WTP - Chemical & Residuals Management					13	0.5	89		40		142	0.5	142	0.5
Island WTP - Plantwide HVAC Upgrades			(50)								(50)		(50)	
Laboratory Equipment (Warranty Expiry)	25		35		15		50		50		175		175	
North Toronto WTP - Treatment Plant Improvements					132	1.0	50				182	1.0	182	1.0
Transmission Operations Optimizer	319	1.0	30		3						352	1.0	352	1.0
<b>Sub-Total: Previously Approved</b>	<b>738</b>	<b>5.0</b>	<b>652</b>	<b>5.0</b>	<b>762</b>	<b>3.5</b>	<b>2,059</b>		<b>90</b>		<b>4,301</b>	<b>13.5</b>	<b>6,001</b>	<b>13.5</b>
WT&S Plantwide - Zebra Mussel Control - Construction			397								397		397	
<b>Sub-Total: New Projects - 2019</b>			<b>397</b>								<b>397</b>		<b>397</b>	
WT&S Plantwide - UV Disinfection - Construction					13	0.5	115		60		188	0.5	983	0.5
<b>Sub-Total: New Projects - Future Years</b>					<b>13</b>	<b>0.5</b>	<b>115</b>		<b>60</b>		<b>188</b>	<b>0.5</b>	<b>983</b>	<b>0.5</b>
<b>Total (Net)</b>	<b>738</b>	<b>5.0</b>	<b>1,049</b>	<b>5.0</b>	<b>775</b>	<b>4.0</b>	<b>2,174</b>		<b>150</b>		<b>4,886</b>	<b>14.0</b>	<b>7,381</b>	<b>14.0</b>

The 10-Year Staff Recommended Capital Plan will increase future year Operating Budgets by \$7.381 million net over the 2019 - 2028 period.

- The 2019 Operating Budget includes an increase in operating costs for salaries, benefits, chemicals, energy, utilities, and contracted services from previously approved projects at the Ashbridges Bay, Humber and Highland Creek Wastewater Treatment plants (\$0.254 million), Transmission Operations Optimizer (0.319 million), Basement Flooding Program, Capital Asset Programming and other projects (\$0.165 million).
  - One position each (for a total of five positions) is required for maintenance of upgraded facilities at Humber and Ashbridges Bay Wastewater Treatment Plant, Basement Flooding Protection and Transmission Operations Optimizer projects, as well as capital programming and facility asset planning related to Toronto Water's Geometric Network Strategy.
- The operating costs of completed capital projects for 2020 and 2021 are projected at \$1.049 million and \$0.775 million respectively, reflecting an increase of 5 positions in 2020 and 4 positions in 2021, for the planned completion of new equipment and facilities at Ashbridges Bay and North Toronto Wastewater Treatment plants and Toronto Island Water Treatment Plant, as well as plant-wide implementation/construction of UV disinfection facilities.
  - In 2021, upgrades at Ashbridges Bay Treatment Plant (waste activated sludge) will generate savings of \$0.620 million. These savings will partially offset estimated increase in costs, resulting in a net expenditure of \$0.775 million in 2021.
- Future year operating impacts will be reviewed each year as part of the annual Operating Budget process.

**Table 6: Capital Project Delivery – New Temporary Positions**

Project Name	CAPTOR Project Number	Position Title	# of Positions	Project Delivery		Salary and Benefits \$ Amount (\$000s)					
				Start Date	End Date (m/d/yr)	2019	2020	2021	2022	2023	2024 - 2028
Business System Infrastructure	WAT906334-41	System Development Specialist/Equivalent	1.0	04/01/2019	31/12/2021	79.2	109.2	112.5			
Environmental Health & Safety - Construction	WAS906968-72	Environmental Health and Safety Field Representative	1.0	04/01/2019	31/12/2021	93.0	128.4	131.8			
Scarborough Subway Extension	TTC Capital Program	Water Maintenance Worker 2	1.0	01/01/2020	31/12/2021		73.6	89.1			
Scarborough Subway Extension	TTC Capital Program	Water Maintenance Worker 3	1.0	01/01/2020	31/12/2021		67.3	81.1			
<b>Total</b>			<b>4.0</b>			<b>172.3</b>	<b>378.5</b>	<b>414.6</b>			

Approval of the 2019 – 2028 Staff Recommended Capital Budget and Plan will result in a requirement for 4 new temporary capital project delivery positions to implement the following projects:

- *Integrated Technology Management* – A System Development Specialist or equivalent position at cost of \$0.079 million in 2019 (with fully annualized cost of \$0.109 million in 2020), with funding provided from capital projects, will reduce reliance on external consultants to complete the project work.
- *Environmental Health and Safety* – An Environmental Health and Safety Field Representative position is recommended to manage health, safety and environmental issues related to increased construction activities at Ashbridges Bay at cost of \$0.093 million in 2019 (with fully annualized cost of \$0.128 million in 2020), fully funded from capital projects.

It is recommended that Council approve these 2 new temporary capital positions for the delivery of the above capital projects / sub-projects in 2019 and that the duration for each temporary position not exceed the life of the funding of its respective capital projects / sub-projects.

- *Scarborough Subway Extension* – 2 Water Maintenance Worker positions will be added in 2020 (0.141 million) to the previously approved team (a Senior Engineer position and an Engineer position) to undertake reviews and address water infrastructure related issues on the Scarborough Subway Extension project. These positions will be fully funded by TTC.

## 2018 CAPITAL PERFORMANCE

### 2018 Project Delivery

In 2018, Toronto Water made significant progress and/or accomplished the following:

#### *Water Treatment & Supply*

- Approximately 27km of watermain replacement (\$51million) and 33 km of structural watermain rehabilitation (\$49 million).
- Water service replacement (\$24 million).
- Water treatment plant upgrades (\$32 million).
- Transmission watermain replacement (\$15 million).
- Reservoirs and pumping station renewals (\$24 million).
- Water Meter Program (\$3 million); Engineering Services (\$39 million); New Connections (\$35 million).

#### *Wastewater Collection and Treatment*

- 4 km of sewer replacement (\$15 million) and 95 km of sewer rehabilitation (\$50 million); trunk sewer rehabilitation (\$37 million).
- Ashbridges Bay Wastewater Treatment Plant Upgrades including P Building Headworks Upgrades, Disinfection System Construction, Biofilters Upgrade and Replacement, Integrated Pumping Station and Outfall projects and Ferrous Upgrades (\$103 million).

- Highland Creek Treatment Plant Upgrades including Biosolids Master Plan Implementation, Digester System Upgrades and Odour Control Upgrades (\$28 million).
- Humber Wastewater Treatment Plant Upgrades including gas compressor, HVAC, Odour Control and Secondary Treatment Upgrades (\$39 million).
- Pumping station and forcemain rehabilitation (\$8 million).
- Engineering Services (\$39 million); Business & Technology (\$8 million); Yards & Facilities (\$4 million).

#### Stormwater Management

- Wet Weather Flow Master Plan – ongoing (\$80 million).
- Basement Flooding Protection Program – ongoing (\$31 million).

### Status Update on Council Approved New Capital Projects in the 2018 Capital Budget

During the 2018 Budget process, Toronto Water reprioritized its capital projects based on the following factors:

- The 10-Year Capital Program was aligned with available funding as calculated by the Water and Wastewater Rate Model to ensure positive reserve balances during major capital spending years.
- Changes have also been made based on updated schedules for coordinated and sequenced delivery of projects requiring large capital funding, as well as new condition assessments.
- The 2018 Capital Budget was aligned with historical spending rates and ability to deliver future year projects.

Although new funding for variety of projects in the existing program areas of \$98.519 million was added in 2018, the above factors resulted in an overall funding reduction of \$146.796 million in the 2018 Budget compared to the funding commitments approved as part of the previously approved 2017-2026 Capital Plan. Another \$175.137 million in project cost estimates for projects anticipated to start in 2018 was deferred to future years (beyond 2018).

- All approved projects in 2018 are underway with a projected year-end average spend rate of 75.4%. Toronto Water continues to realign project costs and cash flows with actual spending through regular reporting to Council.

### 2018 Financial Performance

**Table 7: Budget vs. Actual by Project Category**

Project Category (In \$ Millions)	2017			2018			2019	
	Budget	Actual	Spending Rate %	Budget	Projected Actual *	Spending Rate %	Staff Recommended Capital Budget (excl. 1 Yr Carry Forward)	Staff Recommended Capital Budget (incl. 1 Yr Carry Forward)
Health & Safety	5.027	4.791	<b>95.3%</b>	3.998	2.953	<b>73.9%</b>	0.741	1.525
Legislated	79.521	63.112	<b>79.4%</b>	120.544	77.598	<b>64.4%</b>	83.879	116.120
SOGR	542.900	447.156	<b>82.4%</b>	582.232	428.623	<b>73.6%</b>	406.855	495.491
Service Improvement	150.713	96.925	<b>64.3%</b>	164.283	143.189	<b>87.2%</b>	218.685	251.384
Growth Related	65.373	55.330	<b>84.6%</b>	75.516	61.625	<b>81.6%</b>	86.920	95.986
<b>Total</b>	<b>843.535</b>	<b>667.314</b>	<b>79.1%</b>	<b>946.572</b>	<b>713.988</b>	<b>75.4%</b>	<b>797.080</b>	<b>960.506</b>

Note - 2018 projection based on the Q3 capital variance submission

As illustrated in the table above, the year-end projection of spend rate for 2018 is 75.4%.

- In 2018, Toronto Water experienced both minor and major project delays, through a combination of different factors such as extended time to address complex site conditions, operational requirements and sequencing of work at various plants, vendor performance issues, need to obtain legal agreements/easements and coordinate with third parties.
- Lower than anticipated demand for substandard water service replacement resulted in lower legislated project spending, while state of good repair project spending was mostly affected by delays in implementation of water and sewer replacement and rehabilitation projects.

- Service Improvement projects are projected to proceed ahead of schedule mostly due to the accelerated construction of the Don and Central Waterfront Phase 1 Project.

For additional information regarding the 2018 Q3 capital variances and year-end projections for Toronto Water, please refer to the attached link for the report entitled "Capital Variance Report for the Nine-Month Period Ended September 30, 2018" approved by City Council at its meeting on December 4, 5 and 6, 2018.

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2019.CC1.8>

### **Impact of the 2018 Capital Variance on the 2019 Staff Recommended Capital Budget**

- As a result of the delays in the capital projects, as described in the 2018 Q3 Capital Variance Report, funding of \$163.426 million is being carried forward to the 2019 Staff Recommended Capital Budget to continue the capital work.
- A detailed review of the 2019 – 2028 Staff Recommended Capital Budget and Plan has been conducted and the necessary adjustments have been made to the timing of cash flow funding for unique and major capital projects such as Ashbridges Bay, Highland Creek and Humber Wastewater Treatment Plant upgrades, Watermain and Sewer Replacement projects, Basement Flooding and Wet Weather Flow Master Plan implementation projects totalling \$651.254 million in 2019.
  - By deferring the cash flow funding to future years, the 2019 Staff Recommended Capital Budget reflects readiness to proceed and will lead to a higher rate of spending.



## ISSUES FOR DISCUSSION

## ISSUES IMPACTING THE 2019 BUDGET

### 2019 Budget Overview

#### Operating:

- The 2019 Staff Recommended Operating Budget for Toronto Water is \$463.869 million gross and \$1.331 billion in revenue, resulting in an \$867.368 million capital-from-current contribution. It reflects an increase of \$16.617 million or 3.7% over the 2018 Approved Budget gross expenditures of \$447.252 million and an increase of \$41.950 million or 3.3% over the 2018 Approved Capital Contribution Budget of \$842.035.
- Base pressures, which are experienced by all three services consistently, are attributable to inflationary cost increases for materials, supplies and contracted services (\$6.551 million), salaries and benefits, including progression pay and step increases (\$3.390 million), and additional costs to sustain the operations of completed capital projects (\$0.925 million). The management of the continuously increasing salary and non-salary costs remains the challenge for Toronto Water in 2019.
  - These pressures were partially offset by production costs savings and cost adjustments in the *Water Treatment and Supply and the Wastewater Collection and Treatment services* (\$0.800 million). Toronto Water also anticipates an increase in revenues and recoveries (other than sale of water) totalling \$2.812 million across all services, with another \$2.866 million from increased volume and price of water sold to the Region of York in the *Water Treatment and Supply Service*.
  - Service change options totaling \$7.285 million, consisting mostly of efficiency savings from the optimization of water and waste water utility costs (\$1.223 million), a reduction in base expenditures in materials, supplies and other non-salary costs including the reassessment of payments in lieu of taxes (\$1.890 million), as well as additional draws from capital financing reserve funds to fund the existing backlog of utility cut repairs, were able to reduce initial base pressures for 2019.
  - As a result of the recommended actions above, Toronto Water was able to actually offset all base pressures, which resulted in a \$2.091 million or 0.6% decrease over the 2018 Approved Operating Budget net expenditures.
- The new/enhanced services recommended for approval totaling \$7.985 million gross, \$5.818 million net, represent a substantial investment in the new Utility Cut Program (\$5.571 million net), as well as funding for the Chamber Adjustment Program and the addition of dedicated staff to manage insurance/risk claims, clear Ontario One Call locate tickets and provide legal services. A new bulk water fill station pilot project for mobile washing operators is also recommended. An additional 31 staff position is required for the implementation of these new/enhanced services. These services are intended to improve operational processes and ultimately result in better customer satisfaction.
- The following table shows the impact of 2019 budget changes on Toronto Water's net operating budget (when the sale of water/wastewater surcharge is excluded).

#### Net Operating Budget Impact: 2019 Total Operating Budget

(In \$000s)	2018 Budget	2019 Budget	Change \$	Change %
<b>Total Budget (Including New/Enhanced)</b>				
Gross Expenditures	447,251.8	463,869.0	16,617.2	3.7%
Revenue Excluding Sale of Water	90,393.2	103,248.8	12,855.5	14.2%
<b>Total Budget Net Expenditure</b>	<b>356,858.6</b>	<b>360,620.2</b>	<b>3,761.6</b>	<b>1.1%</b>
Sale of Water/Wastewater Surcharge	1,198,893.8	1,227,987.9	29,094.2	2.4%
<b>Total Budget Capital Contribution</b>	<b>842,035.2</b>	<b>867,367.7</b>	<b>25,332.6</b>	<b>3.0%</b>

#### 10-Year Capital Plan:

- The 2018 Council Approved Capital Budget for Toronto Water of \$865.221 million was focused on balancing infrastructure renewal needs for State of Good Repair with Service Improvement projects, while providing the



capacity to keep pace with population growth. The year-end spending rate is projected to be 75.4% of the 2018 Capital Budget, which is lower than the 10-Year Rate Model completion target for 2018 of 85.0%.

- The unspent cash flow funding of \$163.426 million has been carried forward into 2019 to continue the capital work.
- The 2019 - 2028 Staff Recommended Capital Plan provides investments of \$13.451 billion to ensure the delivery of water supply and wastewater treatment. It continues to support the same objectives of balanced approach to addressing State of Good Repair together with opportunities for service improvements and projected population growth in an increasingly stringent regulatory framework.
- This 10-Year Staff Recommended Capital Plan reflects an increase of \$343.757 million or 2.9% in capital spending over the nine common years of the Capital Plans (2019-2027). Key changes are summarized as follows:

Increases in Previously Approved Project Costs:

- *The Ashbridges Bay Wastewater Treatment Plant* project costs have increased by \$198.474 million or 10.1% from \$1.961 billion to \$2.160 billion to reflect updated cost estimates based on progression of pre-design or detailed design for the Integrated Pumping Station and Waste Activated Sludge construction projects and also to incorporate planned improvements to the Heating and Air Systems and East Bypass.
- Increased funding of \$138.564 or 22.6% from \$613.485 million to \$752.049 million has been allocated to *the Trunk Sewers and Pumping Station projects*.
- Funding for *New Service Connection* projects has been increased by \$83.981 million or 23.8% from \$353.323 million to \$437.304 million to provide the necessary servicing capacity based on projected population growth and for the installation of service connections for new homes and developments.
- The allocation for *the Island Water Treatment Plant* project has increased by \$39.629 million or 52.0% from \$76.185 million in capital funding to \$115.814 million to support planned facility upgrades and reflect a revised cost estimates for the Travelling Screen Replacement, HVAC Upgrades and Raw Water Intake Cleaning projects, and to incorporate required rehabilitation to the Cross Harbour Tunnel.
- Additional funding of \$37.618 million or 6.3% from \$598.997 million to \$636.615 million is required for *the Sewer System Rehabilitation projects* to reflect expanded sewer condition assessment activities.
- Increased funding totalling \$223.470 been allocated to a number of other projects including *Transmission Pumping Stations, Automated Meter Replacement Program, New Sewers, Water Service Replacement, RC Harris Water Treatment Plant projects and Linear Infrastructure Engineering projects*.

Deferral/ Reductions in Previously Approved Capital Projects:

- *The Wet Weather Flow Stream Restoration and Implementation* project funding (except for TRCA erosion control projects) has been reduced by \$102.628 million or 8.0% from \$1.290 billion to \$1.187 billion to reflect the award of the Don & Central Waterfront Trunk CSO Construction Phase 1 project under budget.
- Some of *the Basement Flooding projects* have been deferred or reduced by \$45.826 million or 3.1% from \$1.499 billion to \$1.454 billion based on efficiency and refinement of engineering costs required to support the delivery of the Basement Flooding Protection Program.
- The funding allocation for *Trunk Watermain projects* has been reduced by \$60.914 million or 18.6%, from \$326.988 million to \$266.074 million to reflect updates in program prioritization.
- A decrease in funding of \$59.794 million or 16.0% from \$373.305 million to \$313.511 million is anticipated for *Humber Wastewater Treatment capital upgrades* to reflect updated delivery timelines for the Secondary Treatment at the North Plant.
- *The Watermain Rehabilitation project* has decreased funding of \$43.777 million or 6.6%, from \$662.183 million to \$618.406 million reflecting estimated delivery timelines and priority.
- Decrease in costs totalling \$65.039 million for several projects including *Sewer and Watermain Replacement projects and Highland Creek Wastewater Treatment Plant upgrades*.
- Over the 2019-2028 planning period, there are also cashflow changes that reflect updated project schedules for and realignment of projects between different program areas.

- Stage gating for project delivery is regularly applied to all Toronto Water capital projects. Toronto Water also continues to monitor its expenditures throughout the year and revises projections accordingly based on the internal and external capacity to deliver. In order to improve spending rates, Toronto Water routinely realigns project costs and cash flows with actual spending through regular reporting to Council. This practice is anticipated to continue in 2019.

## OTHER ISSUES IMPACTING THE 2019 BUDGET

### Water Consumption Forecast

- Over the last ten years, water consumption has continued to decline, despite population growth. Besides weather conditions, the decline in water consumption is attributed to water efficiency measures and economic factors. Toronto's water consumption has declined from 374 million cubic metres in 2005 to 327 million cubic metres at the end of 2015, representing a 15% reduction over the period.
- In 2016 and 2017, water consumption levels have been impacted by extreme swings in precipitation.
  - Although 2016 water consumption was projected to decline further, due to unexpectedly dry and warm summer weather conditions actual water consumption exceeded 2015 actual consumption by almost 2%. This was the first year in over a decade with an increase in water consumption.
  - In contrast, in 2017, there was a significant drop in actual water consumption compared to the same period of 2016, as a result of a cooler, wet spring and summer, with record breaking rainfall experienced during the first 5 months. The summer consumption in 2017 was the lowest in the summer months over the last 10 years - 3% lower than in 2015 and 7% lower than in 2016.
- In order to mitigate the impact of irregular weather patterns that occurred in 2016 and 2017, the 2018 water consumption projections were based on the 2015 actual consumption, assuming that the 2018 and future year water consumption (2019-2027) will continue to decline at a moderate annual rate of 0.5%.
- Due to extremely warm weather during the 2018 summer months (June and July in particular), actual water consumption was higher than initially anticipated (approaching the 2015 levels for the same period, rather than 1.5% below 2015 actuals).
- Based on October's data, consumption was 0.2% lower compared to 2015 actuals for the same period. This indicates slow return to normalized consumption outside of the higher summer consumption caused by warm weather. It is estimated that 2019 consumption projections should remain at 2% below 2015 actuals, similar to assumptions made in previous years.

### Operating Budget Funding & Water Rate Increases

- Toronto Water is fully self-sustaining and does not rely on the municipal property tax levy for service delivery funding or borrowing/debenture financing for capital program. Operating and capital investments are funded from revenues generated by water and sewage rates established each year by Council and included in the City's By-law (Municipal Code, Chapter 849: Water and Sewage Services). Other sources of funding include revenue from the sale of water to York Region, industrial waste surcharges, private water agreements, service charges, and sundry revenue.
- In 2014, City Council endorsed the direction that Toronto Water's budgets prepared for 2015 and 2016 be premised on 8% water and wastewater consumption rate increases, followed by successive 5% increases in 2017 and 2018, followed by inflationary rate increase of 3% in the remaining years of the 10-Year Capital Plan period, in order to reinstate approximately \$1 billion in capital funding lost from a systematic decline in consumption and to fund emerging projects.
- For 2019, Toronto Water's 10 Year Capital Plan has been revised to allow Toronto Water to deliver on key priorities, while also addressing emerging service improvement and growth projects. In accordance with the project delivery schedule, an annual rate increase of 3% from 2019 to 2028 is recommended and incorporated in the 2019 Water and Wastewater Rate Model.
- The 2019 annualized water and wastewater rate increase of 3% or 3.98% effective rate, will generate an additional \$29.094 million in revenues (net of projected consumption decline of \$6.461 million in 2019).

- The following Charts show the 2019 combined water and wastewater consumption rates and the rate increase impact on average residential, as well as commercial and industrial customers, based on their average consumption.

**Chart 1 - Water and Wastewater Rate Increase**

Annual Consumption	Paid on or before the due date, \$/m3	Paid after the due date, \$/m3
Block 1 - All consumers of water, including the first 5,000 cubic metres per year consumed by Industrial users ("Block 1 rate")	3.9549	4.1630
Block 2 - Industrial process – use water consumption over 5,000 cubic metres per year, representing a 30% reduction from the Block 1 Rate ("Block 2 rate")	2.7684	2.9141

**Chart 2 - 2019 Water Rate Impact**

Type of Property	Average Consumption, m3/year	2018 Cost	2019 Projected Annualized Cost	2019 Rate Increase Impact	
Residential	240	\$913	\$940	\$27	3.0%
Commercial	100,000	\$380,360	\$391,708	\$11,348	3.0%
Industrial	100,000	\$271,937	\$280,049	\$8,113	3.0%
Large Industrial	1,000,000	\$2,668,007	\$2,747,602	\$79,595	3.0%

## Capital Financing Reserve Balances

- Based on the above water consumption and water and wastewater rates, sufficient revenues will be generated to fund the 2019-2028 Capital Budget and Plan, leaving a positive capital financing reserve balance of \$213.3 million at the end of the 10-year period.
  - The lowest reserve balance is projected for years 2023 and 2024 at approximately \$23.3 million and \$31.9 million respectively, as some of the largest multi-year projects are nearing completion.
- The following should be noted:
  - Although the 2019 Rate Model indicates positive reserve balance at the end of the 10-year period, it is important to emphasize that the recommended 10-Year Capital Plan allocates Toronto Water's own capital reserve funding for the growth related projects totaling approximately \$603.4 million, due to insufficient development charge funding to be collected over the 10-year period (for more details please see "Planning for Growth" section below).
  - Unit rate pricing for linear infrastructure renewal has escalated in recent years, requiring additional funding to cover these increased project costs. As a result, the Program has deferred some previously planned capital projects by 1 to 5 years, to align with the Water and Wastewater Rate Model financial projections of available rate funding. This trend, if it continues, will not only significantly impact the state of good repair backlog for infrastructure renewal, but possibly create funding pressures in future years.

- Toronto Water's 10-Year Capital Plan includes forecasted funding of \$76.5 million for the expanded TRCA Watercourse Erosion Control project, to be spent between 2020 and 2028. It is assumed that 2/3 (\$51.0 million) will be funded by other orders of government. This funding has yet to be secured.
- The 10-Year Capital Plan does not include any funding for unmet need projects identified by TRCA during the 2019 Budget process.
- Should any of the above funding be added to the 10-Year Capital Plan, the 2028 year-end capital financing reserve fund balance would be significantly reduced, if not depleted.
- Also, based on the fact that the reserve balance decreases to approximately \$23.3 million in 2024, as some of the largest multi-year projects are nearing completion, any further decline in water consumption would require an adjustment to the 10-Year Capital Plan's projects.

## ISSUES REFERRED TO THE 2019 BUDGET PROCESS

### Contribution to Tree Canopy Reserve

- At its meeting of February 12, 2018 In consideration of the 2018 Operating Budget for Parks, Forestry and Recreation, City Council approved the following Motion:
  - City Council request the General Manager, Toronto Water bring forward for Council consideration as part of the 2019 budget process, a one-time contribution of \$3 million to the Tree Canopy Reserve which would increase Toronto Water's contribution towards tree planting and maintenance from \$1.95 million to \$4.95 million, to include funds for front lawn and boulevard sod repair and replacement after completion of various capital works

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2018.EX31.2>
- This new/enhanced business case is not recommended since the Motion refers to front lawn and boulevard sod repair and replacement work that is regularly performed by Toronto Water after completion of capital projects for which no additional funding is required.

### Adequate Water Reserve Levels

- As part of the 2018 Budget Process, the Budget Committee discussed and requested that the General Manager, Toronto Water, in consultation with the Chief Financial Officer, report to the Budget Committee, as part of the 2019 Budget process, on strategies to build and maintain adequate water reserve levels.
  - Toronto Water requires successive water increases to fund continued infrastructure investment and conform to the pay-as-you go financing strategy.
  - Managing positive reserve balances during major capital spending years remains to be a challenge for Toronto Water.
  - In 2019, Toronto Water's 10-Year Capital Plan has been revised to allow Toronto Water to deliver on key priorities, while also addressing emerging service improvement and growth projects. In accordance with the project delivery schedule, an annual rate increase of 3% from 2019 to 2028 is recommended and incorporated in the 2019 Water and Wastewater Rate Model.
  - Toronto Water is currently in discussions with the York Region to evaluate various pricing models and terms and conditions of the existing contract to ensure full cost recovery, fair return and reserve contribution for the shared infrastructure assets. In 2016, the Auditor General determined that since the execution of the contract in 2005, several economic and environmental factors that impact water pricing model in meeting the original business objectives have changed, including continued aging of infrastructure and changes in consumer water consumption behavior.
  - As the rapid growth in the core and mid-town are putting pressure on the existing linear infrastructure, new strategies are required to address this growth. This in particular as Toronto Water is experiencing a DC

funding shortfall resulting in additional pressure on its capital financing reserves and possible deferrals in the State of Good Repair and Service Improvement programs.

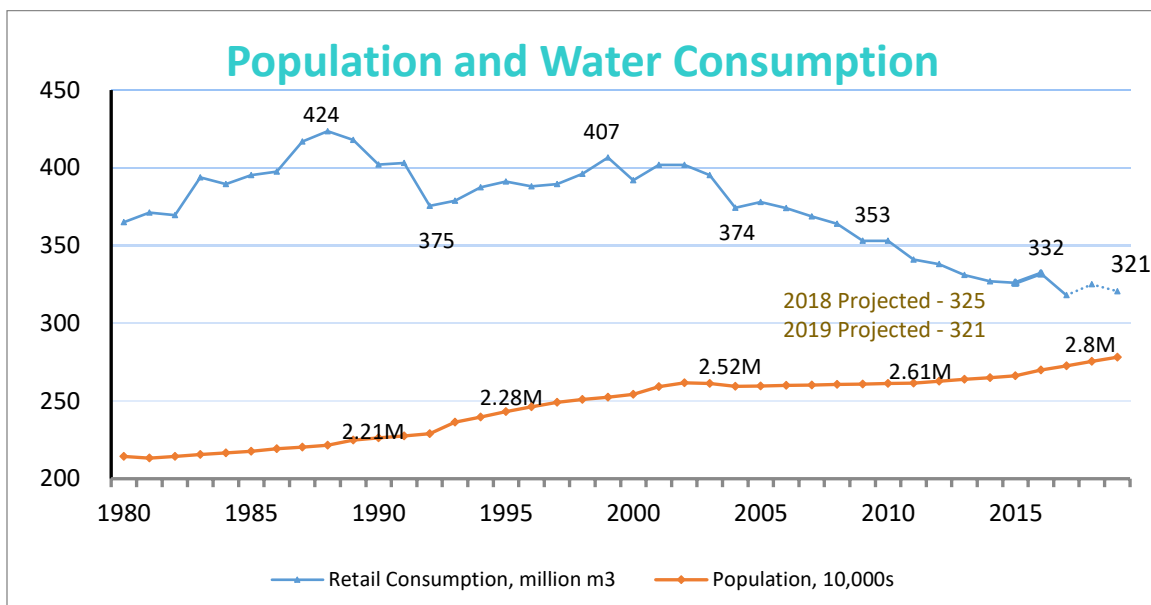
- Further details have been provided throughout 2019 Budget Notes and the 2019 Water and Wastewater Consumption and Service Fees Report.

## ISSUES IMPACTING FUTURE YEARS

### Impact of Lower Water Consumption Forecasts on Water and Wastewater Rate Revenues

- Over the last decade, despite the increase in population, there has been a trend towards reduced water consumption as shown in Chart 3 below. Any additional revenues generated by annual rate increases over that period have been reduced by the steady decline in water consumption predominantly attributed to water efficiency measures and economic factors.

Chart 3 - Toronto Retail Water Consumption



- A systematic and permanent decline (October to April) in baseline water consumption of 1.5% annually on average has been recorded over the last 10 year period (2008-2017). However, in the last 5 years the average annual drop in winter consumption is closer to 1%, showing a trend of reduced decline.
- Summer consumption although more weather dependent and less indicative for planning purposes, also shows an overall reduction of about 10% over the same period, with average annual summer consumption fluctuations of over 10% in each of the last 3 years.
- Given the impact of irregular weather patterns that occurred in 2016 (a year with exceptionally high consumption) and in 2017 (a year with very low consumption), 2018 and 2019 consumption projections are based on 2015 actual consumption.
  - Toronto's water consumption to 2018 year-end is estimated at 324.8 million cubic meters, and it is 0.6% lower than 2015 actual consumption, based on the billing data to the end of October 2018.
  - 2019 consumption is projected to be 2% below 2015 actual, applying a 0.5% decrease a year.
- Similar to previous years, the 2019 Water and Wastewater Model assumes that future year consumption (2020-2028) will continue to decline by 0.5% annually.

- Additional detail on historical and forecasted water consumption and production, as well as its impact on the Toronto Water Capital Reserve is available in the 2019 Water and Wastewater Consumption Rates and Service Fees report.

## Legislative and Regulatory Compliance and Other Operating Cost Pressures

- One of the main challenges facing Toronto Water in future years will be the management of the continuously increasing costs from both, internal and external sources.
- Personnel costs and inflationary pressures related to costs for materials and supplies, electricity, chemicals and parts, as well as machinery and services are ongoing. In 2019 alone, non-salary inflationary increases approximate \$6.551 million, with additional \$3.390 million required to accommodate cost of living adjustments and progression and step increases. Some cost increases, hydro costs in particular) exceed the rate of inflation. There is also an impact of a weaker Canadian currency.
  - Toronto Water will continue to perform trials and testing to determine the optimal performance of treatment plants and pumping stations, since fluctuations in hydro costs were observed as different trials were conducted in order to stabilize hydro requirements.
  - Some of those initiatives have already resulted in significant savings in 2017 (\$5.832 million), 2018 (\$2.632 million), as well as 2019 (\$1.223 million) that assisted Toronto Water in offsetting some of other base expenditure pressures.
  - Toronto Water continues to review these additional costs together with the existing maintenance program and determine whether there is any opportunity for efficiencies such that these amounts can be reduced.
- As a result of frequent changes in legislative requirements and the need to comply with Provincial and Federal regulations, Toronto Water continues to experience increased operating and capital costs.
  - This is particularly challenging in terms of planning and allocating appropriate staff resources to maintain legislative compliance.
- Similarly, costs resulting from the operating impact of completed capital projects for additional parts and contracted services such as Ashbridges Bay Treatment Plant Upgrades (P Building), Humber Treatment Upgrades (Gas Compressor System and Odour Control Upgrades), Highland Creek Treatment Plant Upgrades (process and facility upgrades) and Transmission Operations Optimizer project amount to \$0.738 million in 2019. The incremental costs for maintenance of new equipment and facilities coming on-line (estimated at \$7.381 million over the next 10 years) will remain a challenge for Toronto Water.
- In addition to its own new capital assets Toronto Water will assume responsibility for operations of capital assets completed by other programs such as Waterfront and Metrolinx. In 2019 these cost account for \$0.185 million, with future incremental impacts of \$0.365 million and \$0.065 million in 2020 and 2021 respectively.
- Additional resources are also required to support and maintain new technology and resulting greater reliance on proprietary technologies.

## Response to Severe Weather and Customer Needs

- As a result of extreme weather conditions, cold weather in particular, Toronto Water experienced a high level of watermain breaks, leaking water services and frozen water services in 2015 (approximately 2,546 in first quarter of 2015 compared to 1,094 in 2013 and 2,607 in 2014).
- Although weather conditions in subsequent years were not as extreme, Toronto Water continues to plan for emergency situations caused by the severe weather conditions, to ensure operational resilience and minimize risk to its assets.

- In order to provide more efficient and effective response to customer demands, during extreme events in particular, Toronto Water continues to implement transformational initiatives that set the stage for further improvements planned to increase customer satisfaction. The largest initiative (Customer Care Organizational Realignment) on which Toronto Water embarked in 2017 is anticipated to be completed by June 2019. It will unify all areas providing customer service under one umbrella with improved customer service culture, technology, infrastructure and the addition of a Customer Care Center.

## Review of Capital Spending

- Toronto Water's spending capacity over the previous five years, from 2013 to 2017, has averaged \$613.338 million or 81.9% for a capital budget of \$748.709 million. The above average spending rate of 95.3% and 83.5% were achieved in 2014 and 2015 respectively.
- The 2019-2028 Staff Recommended Capital Budget and Plan represents the City's largest investment in infrastructure renewal so far totaling \$13.6 Billion over 10 years. The 2019 Recommended Capital Budget of \$960.500 million (including carry forward funding of \$163.426 million) is higher than the historic 5-year average budget (\$748.709 million) by approximately 28%, however, it is in line with the 2018 Capital Budget of \$946.573 million.
- In 2019, Toronto Water will be awarding approximately \$870 million in works supporting Ashbridges Bay Wastewater Treatment Plant (ABTP): Polymer Upgrade, Phase 2 of the ABTP Integrated Pumping Station Construction, Waste Activated Sludge Upgrades; Highland Creek Wastewater Treatment Plant Phase 1 Liquid Train Repairs and Aeration System Upgrades; Multiyear Sewer System Inspection works and 2021-2023 Standalone Linear Engineering to support the linear construction program; Multi-year Standalone Watermain Replacement Construction and the initiation of the remaining Basement Flooding Environmental Assessment Studies.

## State of Good Repair (SOGR) Backlog

- Toronto Water currently has a significant infrastructure renewal backlog, higher than any other major Canadian urban centre. It has the largest asset base in the country, estimated at \$28.561 billion with some infrastructure dating back to the 1800s.
- However, some of the City's oldest pipes (100 years or older) are still performing well. As Toronto Water plans for the renewal of aging infrastructure, a risk based mitigation approach is taken that considers infrastructure age, condition and performance assessment, and analysis on upsizing infrastructure, which may be required to service future growth, and opportunities to reduce overall costs.
- Toronto Water has undertaken some key initiatives to identify its State of Good Repair needs:
  - In 2018, Toronto Water completed an updated Watermain Breakage Reduction Study report which provides a framework for watermain renewal planning.
  - Closed camera TV (CCTV) inspection program that utilizes closed camera technology has been established to more fully assess the condition of sanitary and storm sewers.
- The projected 2018 year-end value of the infrastructure renewal backlog is estimated at \$1.491 billion, reflecting 5.2% of Toronto Water's total asset value of \$28.638 billion. This is based on a detailed analysis of current condition assessments and assumptions of service life by linear asset class, coupled with assessments of water and wastewater treatment facilities.
- The 10-Year Capital Plan State of Good Repair funding totals \$6.744 billion that averages \$674 million annually over the 10 year period. This level of funding will contribute towards reducing the watermain and sewer break rates. If the state of good repair backlog remains unchanged, the year-end backlog of \$1.491 billion in 2018 will be effectively eliminated by the end of 2028.

- A continued trend in escalating unit rate pricing for linear infrastructure will significantly impact the state of good repair backlog for infrastructure renewal as project deferral is required to align with projected funding. These unit rates are mostly impacted by construction industry capacity to deliver projects across the City.
- The Program's State of Good Repair Backlog analysis excludes stormwater management facilities (stormwater ponds and underground storage tanks) as they are relatively new assets, as well as stream restoration from erosion scars. A condition assessment of stormwater ponds was undertaken to determine long term state of good repair requirements. 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.

## Basement Flooding

- In April 2006, City Council approved a Basement Flooding Protection Work Plan (now referred to as the Basement Flooding Protection Program) to undertake comprehensive engineering studies in 31 basement flooding study areas that experienced significant flooding during extreme storms in May 2000 and August 2005.
- New service level standards were adopted, requiring storm drainage systems to accommodate a 1 in 100 year return frequency storm event, up from then current 1 in 2 to 1 in 5 year return frequency storm.
- Between 2006 and 2015, the number of study areas in the City was increased to 67 study areas and in response to additional storm events and new occurrences of basement flooding, City Council approved the city-wide expansion of the Basement Flooding Protection Program.
- In August 2014, Council approved an expanded program management capital delivery model for the Basement Flooding Protection Program that delivers more effectively a larger number of infrastructure improvements, and meets the needs of the city-wide expansion of the Program.
- As of the end of October 2018, Basement Flooding Environmental Assessment (EA) studies for 35 Basement Flooding Study Areas have been completed. These EA studies investigate the causes of basement and surface flooding and recommend sewer system improvements to reduce the risk of future basement flooding during extreme storms. Another 8 studies are ongoing; of these 6 studies are to be completed in early 2019 and 2 studies are planned for completion in 2020.
- In response to recent flooding events Toronto Water has accelerated funding for all remaining 24 study areas to begin in 2019.
- The construction of basement flooding protection projects began in 2009. Many challenges exist with the implementation of works recommended by the EA studies. Retrofitting an area to accommodate the higher level of storm drainage and overland flow controls in existing fully developed areas present the most significant challenge in terms of cost, scheduling and disruption to the local communities.
- By the end of 2018, it is projected that \$370 million will have been spent on construction activities and activities supporting the construction (including engineering, design, studies and flow monitoring) of the Basement Flooding Protection projects.
- The 2019 – 2028 Capital Budget and Plan includes \$1.671 billion in funding for Basement Flooding Protection Program projects. Despite this level of funding, Toronto Water will continue to face the following challenges:
  - A need to coordinate basement flooding projects with other City programs/works adds more complexity to the implementation of this Program.
  - Some of the recommended basement flooding protection projects from completed basement flooding EA studies have a cost that is greater than the Council adopted threshold of \$32,000 per benefitting property, and therefore these projects are not proceeding to engineering design and construction.
  - The cost to implement basement flooding protection projects across all 67 study areas need to be continuously updated, as basement flooding EA studies are completed and new works are recommended.



## Stream Restoration and Critical Erosion Projects

- As a part of its Stormwater Management Program, Toronto Water provides an annual funding contribution to the Toronto and Region Conservation Authority (TRCA) for stream restoration and erosion control projects. The 2019-2028 Capital Budget and Plan allocates a total of \$155.122 million over a 10-year period, as Toronto Water continues to support the TRCA's efforts in watercourse management.
- Toronto Water's 2019-2028 Capital Budget and Plan also includes further funding of \$130.958 million over the next 10 year horizon for stream restoration and erosion management to carry out work to protect its own infrastructure in valley lands.

## Planning for Growth

- The City of Toronto is experiencing significant growth with many landowners submitting development applications to increase the density permitted by the zoning-by-law.
- Due to phase-in of DC rate increases and DC exemptions such as those for affordable housing and most non-residential development (as approved by City Council), projected revenues that would be otherwise collected based on the approved project eligibility criteria, are discounted from \$1.487 billion to \$0.884 billion (60%) over the 10-year period.
- Remaining available DC funding was not sufficient to fund TW's 10-Year Capital Plan for growth, resulting in the following adjustments which are reflected in the 2019-2028 Recommended Capital Budget and Plan:
  - several new/change in scope and future year growth related wastewater/storm water projects have been partially or wholly funded from the rate supported capital financing reserves.
  - In total the 2019-2028 Capital Budget and Plan includes \$603.4 million in funding for growth related capital expenditures from capital financing reserves due to inadequate DC reserve availability related discounted DC collections and/or to lagged DC recovery of expenditures (which will be recovered in the future).
- A strategy is required that i) recognizes the impact of DC exemptions and phase-ins on funding availability, and ii) enables the program to proceed with projects where DC recoveries lag expenditures but will be available in future years.

## Other Challenges

- Planning for Extreme Weather Events
  - Due to extreme cold weather events, Toronto Water experienced an unprecedented number of watermain breaks, leaking and frozen water services, not seen in 20 years, resulting in additional funding requirements in 2014 and 2015. Planning and preparing for an adequate response during extreme weather events remains to be a challenge for Toronto Water. This process is on-going.
- Impact of Transit Initiatives
  - Transit improvements across the City have had a significant impact on Toronto Water's underground infrastructure. They involve third party projects (Metrolinx, Smart Track, TTC etc.) and require additional resources.
- Need for Modernization
  - Toronto Water is investing in new technologies such as Geographic Information Systems and enhanced data management, due to an aging suite of information technology tools and databases. Toronto Water recently completed a "Technology Optimization Strategy" that highlights the increasing volume of data and use of technology within Toronto Water and the critical need for future strategic direction.

- Workforce Planning & Development
  - Hiring strategies for critical, vulnerable and hard to fill positions including on-the-job training programs, continue to present a challenge. For example, in 2018 only (January - November), Toronto Water experienced 602 staffing changes involving hires (170), exits (197) and internal movements (235).
- Asset Management
  - The Municipal Asset Management Planning Regulation (Ontario Regulation 588/17) requires every municipality to prepare an asset management plan in respect of its core municipal infrastructure assets by July 1, 2021, and in respect of all other municipal infrastructure assets by July 1, 2023. This impacts Toronto Water in particular.
  - Toronto Water is participating in the preparation of the Corporate Asset Management Policy for adoption by July 1, 2019 and aligning its data framework for the development of Asset Management Plans to meet the requirements of the provincial Asset Management Regulation by July 1, 2021.

## Unmet Needs (S7) Prioritization

- Toronto Water's 10-Year Capital Plan is based on the capacity to deliver (85% spending rate included for planning purposes). Toronto Water does not have any unmet needs over the next 10-year planning horizon.

## Unfunded Pressures in Other Budgets

### *TRCA Unfunded Projects*

- As part of the 2019 Budget Process TRCA submitted an updated list of its unmet needs totaling \$343.209 million over the 10 year period.
- Funding of the TRCA unmet needs continues to be a subject of on-going discussion and work on the further development of business cases/studies for each project, refinement of cost estimates and prioritization of needs. Only projects that are within Toronto Water's mandate will be considered eligible for water rate funding
- The largest project included in the list of unmet needs is the Scarborough Waterfront Project (SWP). The Scarborough Waterfront Project Environmental Assessment (EA) and Preferred Alternative has been completed and submitted to the Ministry of the Environment, Conservation and Parks (MECP) for formal review earlier this year. The estimated preliminary project costs are approximately \$172 million including additional costs required for post implementation and monitoring.
  - City Council authorised the TRCA to pursue in consultation with the City eligible funding program opportunities from other orders of government. Subject to a favorable decisions from the MECP, City Council also authorised the TRCA to advance to Stage 2 Work Plan and requested a report back to the Executive Committee with preliminary costing for all segment design and implementation.

### *Waterfront Unfunded Projects*

- There is approximately \$114 million in unfunded water and stormwater capital projects related to the Port Lands Development currently shown as S7 projects in the Waterfront Budget, with further \$362.3 million anticipated beyond 2028.

**REPORTING ON MAJOR CAPITAL PROJECTS: STATUS UPDATE**

In compliance with the Auditor General's recommendations to strengthen accountability, additional status reporting on all major capital projects is required. The following projects have been reported on a quarterly basis during 2018:

**Rosehill Pumping Station**

Project overview and Deliverables

- The City of Toronto is carrying out rehabilitation works to the Rosehill Pumping Station at 240 Mount Pleasant Road. These necessary upgrades will extend its service life and bring the infrastructure to a state of good repair. Upgrades to the pumping station, inclusive of the System Sustainability improvements will include: construction of a two-storey building addition; installation of diesel generators in the building addition to provide stand-by power for resilience; replacement of process valves: replacement of electrical, mechanical, lighting & HVAC systems; and structural and architectural refurbishment. This pumping station transmits drinking water to residents and businesses in Toronto and portions of York Region. This work will improve the aging infrastructure and ensure continued, uninterrupted production of clean drinking water for years to come.

Financial Update

Project name (In \$000s)	Initial Approval Date	Approved Project Cost	Life to Date Expenditures as at Dec 31, 2017	2018		2019	2020	Projection To End of Project	Status	End Date		On Budget	On Time
				Budget	Year-End Projection *	Budget	Plan			Planned	Revised		
Rosehill PS Rehab	Jan-15	5,812	1,239	2,890	2,294	1,464	1,197	5,812	On Track	Dec-21	Dec-21	Ⓞ	Ⓞ

\* 2018 year-end projection based on the Q3 capital variance

<b>On Budget</b>	<b>On Time</b>
> 70% of Approved Project Cost	Ⓞ On/Ahead of Schedule
Between 50% and 70%	Ⓜ Minor Delay < 6 months
< 50% or >100% of Approved Project Cost	Ⓡ Significant Delay > 6 months

Project Status

- The construction started in 2017 and is currently on-going.

2019 Plan

- The 2019 schedule includes: completion of the building addition; completion of architectural work; completion of electrical, mechanical, lighting and HVAC systems replacement; and installation of diesel generator equipment.

Key Project Challenges

- Key Challenges on this retro-fit project include: integration and commissioning of the diesel generators into the pumping station; coordination of construction while the pumping station is predominantly kept operational; and coordination of periodic pumping station shut-downs.

**Ashbridges Bay Outfall Construction**

Project overview and Deliverables

- A new outfall is being built to improve capacity and better convey and disperse the effluent from the Ashbridges Bay Wastewater Treatment Plant (ABTP) into Lake Ontario. The new outfall will replace the 70-year old existing outfall, which has insufficient capacity and is reaching the end of its service life. The new outfall will include the construction of a 14 metres internal diameter shaft approximately 85 metres deep and a 7 metres internal diameter tunnel approximately 3.5 km long mined through rock beneath the lakebed, with fifty (50) 1 metre diameter risers (for the effluent dispersion in the lake) to be built at the last 1 kilometre of the tunnel. The new outfall will help improve the City's shoreline and beaches, meeting all regulatory standards to improve water quality in Lake Ontario.

Financial Update

Project name (In \$000s)	Initial Approval Date	Approved Project Cost	Life to Date Expenditures as at Dec 31, 2017	2018		2019	2020	Projection To End of Project	Status	End Date		On Budget	On Time
				Budget	Year-End Projection *	Budget	Plan			Planned	Revised		
Ashbridges Bay Outfall Construction	Jan-18	327,000	2,941	5,000	5,000	35,000	60,500	327,000	On Track	Dec-25	Dec-25	Ⓞ	Ⓞ

\* 2018 year-end projection based on the Q3 capital variance

On Budget	On Time
> 70% of Approved Project Cost Between 50% and 70%	Ⓞ On/Ahead of Schedule
< 50% or >100% of Approved Project Cost	Ⓜ Minor Delay < 6 months
	Ⓡ Significant Delay > 6 months

Project Status

- The construction contract was awarded in November 2018. Construction started on January 7, 2019 and is currently on-going.

2019 Plan

- 2019 activities will include; contractor mobilization and establishment of the site; improvements to the intersection of Leslie and Unwin; electrical connections with Toronto Hydro power supply. The following works will also be initiated in 2019: excavation for the shaft; marine work with establishment of barge and drilling of diffusers into the lake bed.

Key Project Challenges

- Key Project Challenges include: marine work restrictions, weather, alignment of risers with future outfall tunnel; potential unforeseen adverse ground conditions during shaft excavation and tunnel boring.

***Don and Central Waterfront Trunk/CSO Construction – Phase 1 (Coxwell Bypass Tunnel)***Project overview and Deliverables

- The Don and Central Waterfront Wet Weather Flow System project is the largest and most significant water quality improvement undertaken in the City of Toronto. Once fully implemented, the Program will virtually eliminate the release of combined sewer overflows into the Lower Don River, Taylor-Massey Creek and Toronto's inner Harbour. It will also provide erosion and sediment control in Ashbridges Bay.
- Phase 1 of the Don and Central Waterfront project began construction in 2018 and includes the construction of the Coxwell Bypass Tunnel. This tunnel will initially serve as a bypass tunnel for the existing Coxwell Sanitary Trunk Sewer for inspection and maintenance purposes, and carry wastewater to the Ashbridges Bay Treatment Plant for treatment. Ultimately, when all phases of the Don and Central Waterfront Project are completed, the Coxwell Bypass tunnel will principally be used for the interception and conveyance of stormwater and combined sewer overflows at 12 locations to a new high rate wet weather flow treatment facility at the Ashbridges Bay Treatment Plant. The Coxwell Bypass Tunnel construction consists of a 10.5 kilometres in length, 6.3 metre diameter, concrete-lined rock tunnel, with five storage and tunnel access shafts that range in diameter from 20 to 22 metres at depths of 52 to 59 metres, and 12 small diameter connecting tunnels to drop shafts and tunnel air vents.

**Financial Update**

Project name (In \$000s)	Initial Approval Date	Approved Project Cost	Life to Date Expenditures as at Dec 31, 2017	2018		2019	2020	Projection To End of Project	Status	End Date		On Budget	On Time
				Budget	Year-End Projection *	Budget	Plan			Planned	Revised		
Don & Waterfront Trunk/CSO Construction - PHASE 1	Jan-18	500,000	16,027	17,500	45,000	83,895	76,748	500,000	On Track	Jan-24	Jan-24	Ⓞ	Ⓞ

\* 2018 year-end projection based on the Q3 capital variance

**On Budget**      **On Time**  
 > 70% of Approved Project Cost      Ⓞ On/Ahead of Schedule  
 Between 50% and 70%      Ⓢ Minor Delay < 6 months  
 < 50% or >100% of Approved Project Cost      Ⓡ Significant Delay > 6 months

**Project Status**

- Construction Started in mid-2018 and is currently on-going.

**2019 Plan**

- 2019 activities will include; excavation of the five main shafts will continue from 2018, electrical service will be installed by Toronto Hydro to power the Tunnel Boring Machine. The Tunnel Boring Machine is expected to be delivered in 2019.

**Key Project Challenges**

- The project is currently proceeding well.

**St Clair Reservoir**

**Project overview and Deliverables**

- The City of Toronto is carrying out waterproofing and structure rehabilitation work to the St. Clair Reservoir at Sir Winston Churchill Park. These necessary upgrades will help to ensure the structural integrity of the reservoir, extend its service life and bring the infrastructure to a state of good repair. This 87-year-old reservoir provides storage for drinking water and fire protection for local residents. This work will improve the aging infrastructure and ensure continued, uninterrupted production of clean drinking water for years to come.

**Financial Update**

Project name (In \$000s)	Initial Approval Date	Approved Project Cost	Life to Date Expenditures as at Dec 31, 2017	2018		2019	2020	Projection To End of Project	Status	End Date		On Budget	On Time
				Budget	Year-End Projection *	Budget	Plan			Planned	Revised		
St. Clair Reservoir	Jan-14	27,442	16,642	6,984	6,984	5,300	3,029	27,442	On Track	Dec-21	Dec-21	Ⓞ	Ⓞ

\* 2018 year-end projection based on the Q3 capital variance

**On Budget**      **On Time**  
 > 70% of Approved Project Cost      Ⓞ On/Ahead of Schedule  
 Between 50% and 70%      Ⓢ Minor Delay < 6 months  
 < 50% or >100% of Approved Project Cost      Ⓡ Significant Delay > 6 months

**Project Status**

- Construction began in July 2016, and construction is currently on-going.

**2019 Plan**

- 2019 activities will include substantial completion for the construction works.

**Key Project Challenges**

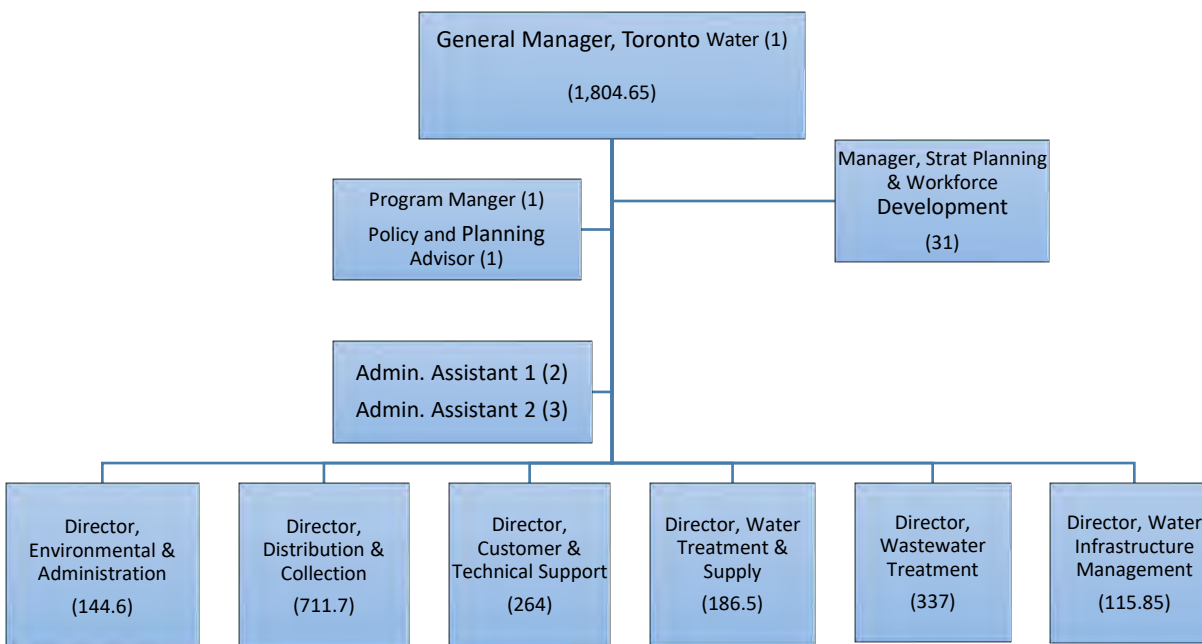
- This project is proceeding well. Two pending issues in relation to public areas on top of the reservoirs including a Dog Off Leash Area and the consideration for additional tennis courts on top of the reservoir. Resolution of these items is pending from a December 2018 public event.



# APPENDICES

## Appendix 1

### 2019 Organization Chart



The 2019 total staff complement includes the General Manager and staff for a total 1,804.65 positions, comprising 84.4 capital positions and 1721.3 operating positions as summarized in the table below.

### 2019 Total Complement

	Category	Senior Management	Management with Direct Reports	Management without Direct Reports/Exempt Professional & Clerical	Union	Total
Operating	Permanent	1.0	170.0	187.0	1,304.0	1,662.0
	Temporary				59.3	59.3
	<b>Total Operating</b>	1.0	170.0	187.0	1,363.3	1,721.3
Capital	Permanent		1.0	4.0	30.0	35.0
	Temporary		5.0	9.0	35.4	49.4
	<b>Total Capital</b>		6.0	13.0	65.4	84.4
<b>Grand Total</b>		<b>1.0</b>	<b>176.0</b>	<b>200.0</b>	<b>1,428.7</b>	<b>1,805.6</b>

## Appendix 2

## 2019 Operating Budget by Service

## Water Treatment and Supply

(In \$000s)	2018	2019			Changes		Incremental Change	
	Approved Budget	Base	New / Enhanced	Total Staff Recommended Budget			2020 Plan	2021 Plan
By Service	\$	\$	\$	\$	\$	%	\$	\$
<b>TW-Water Distribution</b>								
Gross Expenditures	88,092.9	92,051.7	4,837.4	96,889.1	8,796.2	10.0%	7,243.1	1,913.5
Revenue	275,891.7	283,735.2	1,293.2	285,028.4	9,136.6	3.3%	10,412.4	7,273.1
<b>Capital Contribution</b>	187,798.9	191,683.5	(3,544.2)	188,139.3	340.4	0.2%	3,169.3	5,359.6
<b>Water Treatment</b>								
Gross Expenditures	102,830.4	104,440.4	40.1	104,480.4	1,650.0	1.6%	3,463.1	2,962.9
Revenue	289,562.9	301,219.2	16.1	301,235.3	11,672.4	4.0%	9,344.9	6,723.1
<b>Capital Contribution</b>	186,732.5	196,778.9	(24.0)	196,754.9	10,022.4	5.4%	5,881.7	3,760.2
<b>Total</b>								
Gross Expenditures	190,923.3	196,492.1	4,877.4	201,369.5	10,446.3	5.5%	10,706.2	4,876.4
Revenue	565,454.7	584,954.4	1,309.3	586,263.7	20,809.1	3.7%	19,757.3	13,996.2
<b>Total Capital Contribution</b>	374,531.4	388,462.3	(3,568.2)	384,894.2	10,362.8	2.8%	9,051.0	9,119.8
<b>Approved Positions</b>	748.1	779.2	18.7	797.9	49.8	6.7%	16.8	2.0

## Wastewater Collection and Treatment

(In \$000s)	2018	2019			Changes		Incremental Change	
	Approved Budget	Base	New / Enhanced	Total Staff Recommended Budget			2020 Plan	2021 Plan
By Service	\$	\$	\$	\$	\$	%	\$	\$
<b>TW-Wastewater Collection</b>								
Gross Expenditures	59,268.8	59,634.2	2,582.8	62,216.9	2,948.1	5.0%	4,010.8	990.9
Revenue	180,321.3	185,592.1	695.7	186,287.8	5,966.5	3.3%	6,691.6	4,528.4
<b>Capital Contribution</b>	121,052.5	125,957.9	(1,887.1)	124,070.9	3,018.4	2.5%	2,680.8	3,537.5
<b>TW-Wastewater Treatment</b>								
Gross Expenditures	166,501.6	168,926.1	42.0	168,968.1	2,466.4	1.5%	4,725.0	4,374.8
Revenue	538,539.8	553,142.6	24.8	553,167.4	14,627.6	2.7%	18,450.7	13,262.5
<b>Capital Contribution</b>	372,038.2	384,216.5	(17.2)	384,199.3	12,161.2	3.3%	13,725.7	8,887.7
<b>Total</b>								
Gross Expenditures	225,770.4	228,560.3	2,624.7	231,185.0	5,414.5	2.4%	8,735.8	5,365.7
Revenue	718,861.1	738,734.7	720.5	739,455.2	20,594.1	2.9%	25,142.2	17,790.9
<b>Total Capital Contribution</b>	493,090.6	510,174.4	(1,904.2)	508,270.2	15,179.5	3.1%	16,406.5	12,425.2
<b>Approved Positions</b>	875.9	860.0	10.2	870.2	(5.7)	(0.7%)	15.9	3.9



## 2019 Operating Budget by Service -Continued

## Stormwater Management

(In \$000s)	2018	2019			Changes		Incremental Change	
	Approved Budget	Base	New / Enhanced	Total Staff Recommended Budget			2020 Plan	2021 Plan
By Service	\$	\$	\$	\$	\$	%	\$	\$
<b>TW-Stormwater Collection</b>								
Gross Expenditures	18,788.0	19,024.8	482.7	19,507.5	719.5	3.8%	879.3	174.7
Revenue	3,439.7	3,736.9	137.6	3,874.5	434.8	12.6%	168.2	(116.2)
<b>Capital Contribution</b>	<b>(15,348.3)</b>	<b>(15,287.8)</b>	<b>(345.1)</b>	<b>(15,633.0)</b>	<b>(284.7)</b>	<b>1.9%</b>	<b>(711.0)</b>	<b>(290.9)</b>
<b>TW-Stormwater Treatment</b>								
Gross Expenditures	11,770.1	11,806.8	0.1	11,806.9	36.8	0.3%	288.9	83.5
Revenue	1,531.5	1,643.3	0.0	1,643.3	111.8	7.3%	12.2	(160.7)
<b>Capital Contribution</b>	<b>(10,238.6)</b>	<b>(10,163.6)</b>	<b>(0.1)</b>	<b>(10,163.7)</b>	<b>75.0</b>	<b>(0.7%)</b>	<b>(276.7)</b>	<b>(244.3)</b>
<b>Total</b>								
Gross Expenditures	30,558.1	30,831.6	482.8	31,314.4	756.3	2.5%	1,168.2	258.2
Revenue	4,971.2	5,380.2	137.6	5,517.8	546.6	11.0%	180.5	(277.0)
<b>Total Capital Contribution</b>	<b>(25,586.9)</b>	<b>(25,451.4)</b>	<b>(345.2)</b>	<b>(25,796.6)</b>	<b>(209.7)</b>	<b>0.8%</b>	<b>(987.7)</b>	<b>(535.2)</b>
<b>Approved Positions</b>	<b>140.7</b>	<b>135.4</b>	<b>2.1</b>	<b>137.6</b>	<b>(3.1)</b>	<b>(2.2%)</b>	<b>2.4</b>	<b>0.0</b>

## Appendix 3

### 2019 Service Levels

#### Water Treatment and Supply

Activity	Sub-Activity	Service Level Description	Status	2016	2017	2018	2019
Water Distribution	Service Connections	% of time operating within 276 kPA to 793 kPA requirements*	Approved	Meeting the 40 to 100 psi requirement	99.5%	99.5%	99.50%
			Actual	99.5%	99.5%	99.5%	n.a
	Water Distribution System	# of mainbreaks per 100 km of pipe	Approved	20.8 mainbreaks per 100 km of pipe	23.1	23.1	22**
			Actual	18.9	15.4	22	n.a.
Water Treatment	Water Pumping Stations	# of kWh/ML of water pumped	Approved	In compliance with applicable legislation	340	340	330**
			Actual	336	334	330	n.a
	Water Treatment Plants	# of non-compliance water treatment incidents	Approved	Meeting velocity and headloss design guidelines	0	0	0
			Actual	0	0	0	n.a
	Water Transmission Mains	# of transmission valve chambers inspected	Approved	In compliance with applicable legislation	1,500	1,500	1,500
			Actual	1,280	1,550	1,500	n.a
	Water Storage Reservoirs	# of ML of storage capacity maintained	Approved	Meeting requirements for emergency storage and fire flows (consistently maintain 24 hours of storage capacity)	1,895	1,895	1,895
			Actual	1,895	1,895	1,895	n.a

\* Reflects the same same service level as previously approved but expressed in the metric system units.

\*\* Improved actual performance resulted in the revised target for 2019.

Overall, 2019 Service Levels for Water Treatment and Supply are consistent with the approved 2018 Service Levels for Water Treatment and Supply.

#### Wastewater Collection and Treatment

Activity	Sub-Activity	Service Level Description	Status	2016	2017	2018	2019
Wastewater Collection	Lateral Connection	% of sewer service line blocked requests resulting in repair or rehab (Work Orders)	Approved	Basement flooding being reduced through capital investment	30%	30%	30%
			Actual	35.0%	30%	33%	n.a
	Wastewater Collection System	mainline backups per 100km of pipe	Approved	5.27 mainline backups per 100 km of pipe	5.27	5.27	4**
			Actual	4.90	3.8	4	n.a
Wastewater Treatment	Solids Management	% of samples not meeting NMA requirements	Approved	Consistently meeting compliance limits in	0%	0%	0%
			Actual	0%	0%	0%	n.a
	Wastewater Treatment Plants	# of non-compliance wastewater events	Approved	In compliance with all applicable legislation	0	0	0
			Actual	3	4	0	n.a
	Wastewater Pumping Stations*	% of wastewater pumping stations meeting legislative requirements	Approved	Meeting legislative compliance	100%	100%	100%
			Actual	100.0%	100%	100%	n.a

\* In 2018 keyed in as Wastewater Treatment Plants Service Level instead of Wastewater Pumping Stations.

\*\* Improved actual performance resulted in the revised target for 2019.

Overall, 2019 Service Levels for Wastewater Collection and Treatment are consistent with the approved 2018 Service Levels for Wastewater Collection and Treatment.

## 2019 Service Levels - Continued

## Stormwater Management

Activity	Sub-Activity	Service Level Description	Status	2016	2017	2018	2019
Stormwater Collection	Stormwater Collection System	% of catch basins cleaned	Approved	Cost of storm pipes maintained is \$1232/km	100%	100%	100%
			Actual	91.3%	85.89%	27%	n.a
	Stormwater Storage Facilities	# of ML of dedicated (designed) stormwater storage capacity	Approved	Meeting all Certificate of Approval requirements	1,248	1275*	1,248
			Actual	1,246	1,248	1248	n.a
Stormwater Treatment	Stormwater Treatment Facilities	# of hectares of drainage area where quality control provided	Approved	Meeting all Certificate of Approval requirements	7,065	7,065	7,065
			Actual	6,990	6,990	7,065	n.a
	Stormwater Conveyance & Control System	% of stormwater conveyance & control systems meeting all Certificate of Approval Requirements	Approved	Meeting all Certificate of Approval requirements	100%	100%	100%
			Actual	100.0%	100%	100%	n.a

\* The 2018 target was overstated. The 2019 target is flatlined with 2017.

Overall, 2019 Service Levels for Stormwater Management are consistent with the approved 2018 Service Levels for Stormwater Management.

## Chamber Adjustment Program: Service Levels

- Commencing in 2019 Transportation Services will transfer *the Chamber Adjustment Program* to Toronto Water. The Program involves the rehabilitation of maintenance hole/valve and catch basin chambers to address deteriorated frames/covers and grade adjustment units to improve riding surface issues and overall structural integrity of the access chambers. It is required to ensure the state of good repair to Toronto Water assets.
- Associated approved service levels (currently maintained by Transportation Services) will be reviewed by Toronto Water once the Program is implemented to determine how they can be incorporated within Toronto Water's own services and activities and reported as appropriate with the 2020 Budget Process.

## Appendix 4

## Summary of 2019 Service Changes

Description (\$000s)	Service Changes						Total Service Changes			Incremental Change			
	Water Treatment & Supply		Wastewater Collection &		Stormwater Management		\$	\$	#	2020 Plan		2021 Plan	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Pos.	Net	Pos.	Net	Pos.
<b>Base Changes:</b>													
<b>Base Expenditure Changes</b>													
Line By Line Review	(208.7)	(208.7)	(850.2)	(850.2)	(30.6)	(30.6)	(1,089.5)	(1,089.5)					
Payment in Lieu of Taxes Base Adjustment	(365.1)	(365.1)	(434.9)	(434.9)			(800.0)	(800.0)					
<b>Base Revenue Changes</b>													
Increase in Revenue from User Fees (Inflationary Factor )		(74.1)		(13.8)				(88.0)					
Increase in Contribution from Reserve Funds for Utility Cut Restoration Backlog		(1,756.0)		(2,327.7)				(4,083.6)					
<b>Sub-Total</b>	(573.7)	(2,403.8)	(1,285.2)	(3,626.7)	(30.6)	(30.6)	(1,889.5)	(6,061.0)					
<b>Service Efficiencies</b>													
Water and Wastewater Utility Efficiencies	(1,090.4)	(1,090.4)	(132.9)	(132.9)			(1,223.3)	(1,223.3)					
<b>Sub-Total</b>	(1,090.4)	(1,090.4)	(132.9)	(132.9)			(1,223.3)	(1,223.3)					
<b>Total 2019 Service Changes</b>	(1,664.1)	(3,494.2)	(1,418.1)	(3,759.6)	(30.6)	(30.6)	(3,112.8)	(7,284.4)					

## 2019 Operating Budget - Staff Recommended Service Changes Summary by Service (\$000's)

Form ID		Infrastructure and Development Services  Program - Toronto Water	Adjustments				2020 Plan Net Change	2021 Plan Net Change
Category	Equity Impact		Gross Expenditure	Revenue	Net	Approved Positions		
<b>2019 Staff Recommended Base Budget Before Service Changes:</b>			<b>457,107.3</b>	<b>1,329,069.3</b>	<b>(871,962.0)</b>	<b>1,774.65</b>	<b>(31,829.7)</b>	<b>(21,714.4)</b>

17196
51    No Impact

EF1: Water & Wastewater Utility Efficiencies

**Description:**

Toronto Water's commitment to work on an Energy Optimization Plan with the goal to identify optimization opportunities and strategies to address all energy aspects of water and wastewater operations resulted in reduced electricity rates and consumption.

Some of these initiative include: (a) Load Shifting when pumping during off peak hours, maximizing reservoir and tank storage and taking advantage of the lower electricity prices at night; (b) Global adjustment days that involve the Hydro One/ IESO defined global adjustment days when the top electricity user's switch to on-site generators during a peak period; (c) Transmission Operations Optimizer program (TOO), which was launched in November 2015, optimizes pumping station operations and maximizes the use of reservoir storage to reduce peak electricity costs while maintaining supply to the distribution system and service delivery to Toronto Water customers; (d) As part of Toronto Water's Energy Optimization Plan, Toronto Water will also increase the FJ Horgan Water Treatment Plant's production volume to take advantage of its more efficient equipment, resulting from the recently completed upgrades.

In addition to hydro savings, Toronto Water anticipates reduced water costs, as a result of new equipment in some of its wastewater treatment plants enabling use of the effluent water in the treatment process, rather than potable water. Total savings from various initiatives are anticipated at \$1.223 million and have been included in Toronto Water's 2019 Operating Budget.

**Service Level Impact:**

The recommended reduction will have no impact on the level of service delivered by Toronto Water. It recognizes the savings and efficiencies that Toronto Water has been able to achieve through implementation of various utility conservation oriented initiatives.

**Equity Statement:**

The proposal has no equity impacts.

**Service: T W - Wastewater Collection & Treatment**

Total Staff Recommended Changes:	(132.9)	0.0	(132.9)	0.00	0.0	0.0
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**Service: T W - Water Treatment & Supply**

Total Staff Recommended Changes:	(1,090.4)	0.0	(1,090.4)	0.00	0.0	0.0
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<b>Staff Recommended Service Changes:</b>	<b>(1,223.3)</b>	<b>0.0</b>	<b>(1,223.3)</b>	<b>0.00</b>	<b>0.0</b>	<b>0.0</b>
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**2019 Operating Budget - Staff Recommended Service Changes  
Summary by Service (\$000's)**

Form ID		Infrastructure and Development Services  Program - Toronto Water	Adjustments				2020 Plan Net Change	2021 Plan Net Change
Category	Equity Impact		Gross Expenditure	Revenue	Net	Approved Positions		

**Summary:**

<b>Staff Recommended Service Changes:</b>	(1,223.3)	0.0	(1,223.3)	0.00	0.0	0.0
<b>Staff Recommended Base Budget:</b>	455,884.0	1,329,069.3	(873,185.3)	1,774.65	(31,829.7)	(21,714.4)

## Appendix 5

## Summary of 2019 New / Enhanced Service Priorities

New / Enhanced Service Description (in \$000s)	New and Enhanced Services Priorities						Total			Incremental Change			
	Water Treatment & Supply		Wastewater Collection & Treatment		Stormwater Management		\$		Position	2020 Plan		2021 Plan	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	#	Net	Pos.	Net	Pos.
<b>Enhanced Service Priorities</b>													
<b>Staff Initiated:</b>													
New Solicitor for Toronto Water (IDC/IDR TO Legal Services)	57.3	57.3	51.6	51.6	5.7	5.7	114.7	114.7		26.4		3.6	
Locates Clearing Program for Transportation Services	87.8	21.5	67.2	16.5	29.1	7.1	184.1	45.1	3.0	(2.4)		6.7	
<b>Sub-Total Staff Initiated</b>	<b>145.2</b>	<b>78.8</b>	<b>118.8</b>	<b>68.1</b>	<b>34.8</b>	<b>12.9</b>	<b>298.8</b>	<b>159.7</b>	<b>3.0</b>	<b>24.0</b>		<b>10.3</b>	
<b>Total Enhanced Services</b>	<b>145.2</b>	<b>78.8</b>	<b>118.8</b>	<b>68.1</b>	<b>34.8</b>	<b>12.9</b>	<b>298.8</b>	<b>159.7</b>	<b>3.0</b>	<b>24.0</b>		<b>10.3</b>	
<b>New Service Priorities</b>													
<b>Council Directed:</b>													
Utility Cut Program	4,540.9	3,452.3	2,403.1	1,827.0	427.6	325.1	7,371.6	5,604.4	24.0	7,645.0	11.0	691.1	
Bulk Water Fill Station Pilot New Fee	0.2	(14.9)	1.4	(18.6)	0.4	0.4	2.0	(33.0)		(342.0)			
<b>Sub-Total Council Directed</b>	<b>4,541.1</b>	<b>3,437.5</b>	<b>2,404.5</b>	<b>1,808.5</b>	<b>428.0</b>	<b>325.5</b>	<b>7,373.6</b>	<b>5,571.4</b>	<b>24.0</b>	<b>7,303.0</b>	<b>11.0</b>	<b>691.1</b>	
<b>Staff Initiated:</b>													
Dedicated Risk Insurance Staff	51.9	51.9	27.7	27.7	6.9	6.9	86.5	86.5	1.0	33.0		3.2	
Toronto Water Chamber Adjustment Program	139.3		73.7		13.1		226.1		3.0				
<b>Sub-Total Staff Initiated</b>	<b>191.2</b>	<b>51.9</b>	<b>101.4</b>	<b>27.7</b>	<b>20.0</b>	<b>6.9</b>	<b>312.6</b>	<b>86.5</b>	<b>4.0</b>	<b>33.0</b>		<b>3.2</b>	
<b>Total New Service Priorities</b>	<b>4,732.3</b>	<b>3,489.4</b>	<b>2,505.9</b>	<b>1,836.2</b>	<b>448.0</b>	<b>332.4</b>	<b>7,686.2</b>	<b>5,657.9</b>	<b>28.0</b>	<b>7,335.9</b>	<b>11.0</b>	<b>694.3</b>	
<b>Total 2019 New / Enhanced Services</b>	<b>4,877.4</b>	<b>3,568.2</b>	<b>2,624.7</b>	<b>1,904.2</b>	<b>482.8</b>	<b>345.2</b>	<b>7,985.0</b>	<b>5,817.6</b>	<b>31.0</b>	<b>7,360.0</b>	<b>11.0</b>	<b>704.6</b>	

## 2019 Operating Budget - Staff Recommended New and Enhanced Services Summary by Service (\$000's)

Form ID		Infrastructure and Development Services  Program - Toronto Water	Adjustments				2020 Plan Net Change	2021 Plan Net Change
Category	Equity Impact		Gross Expenditure	Revenue	Net	Approved Positions		
17239		B11 - Locates Clearing Program for Transportation Services						
72	No Impact	<b>Description:</b>						

Toronto Water's Locates Clearing Program currently reviews of all Locate Tickets meeting a pre-determined filter criteria with Ontario One Call (ON1Call). The review process allows Toronto Water staff to clear the tickets by determining the type and quantity of municipal assets present within a proposed excavation site. Once the assets are identified and qualified, the site marking portion of the Locate is assigned to one of two Locate Service Providers (LSP) currently under contract to Toronto Water.

Due to the lack of dedicated resources in Transportation Services, ON1Call Tickets involving Transportation Services assets have been sent automatically to one of the LSPs for both clearing and site marking, frequently resulting in site markings that are not reflective of the actual presence of the City's infrastructure.

In January 2018, a pilot program was established so that Locate Tickets containing assets owned by Transportation Services were cleared and assigned to LSPs by Toronto Water staff together with Toronto Water assets. The pilot project initially involved one Engineering Technology Technician (ETT1). Based on the additional volume of tickets processed by Toronto Water staff due to this new arrangement, it was determined that the staff demand had significantly increased, resulting in a need for 3 Engineering Technologist Technicians at cost of \$0.184 million gross, \$0.045 million net. Transportation Services will fund these positions through an Interdepartmental Charge/Recovery (IDC/IDR) to Toronto Water. This model will provide saving opportunities by reducing the costs for Transportation Services Locate contracts. Transportation Services has included approximately \$0.357 million in savings in their 2019 Staff Recommended Operating Budget to reflect this change in service delivery.

**Service Level Impact:**

The processing of Transportation Services Locate Tickets by Toronto Water staff, in conjunction with processing Locate Tickets for Toronto Water assets, allows the City to ensure control over the protection of municipally owned infrastructure. It will also improve on compliance and quality of service.

**Equity Statement:**

This proposal has no equity impacts.

**Service: TW-Stormwater Management**

Total Staff Recommended Changes:	29.1	22.0	7.1	0.47	(0.4)	1.1
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**Service: TW-Wastewater Collection & Treatment**

Total Staff Recommended Changes:	67.2	50.7	16.5	1.09	(0.9)	2.4
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**Service: TW-Water Treatment & Supply**

Total Staff Recommended Changes:	87.8	66.4	21.5	1.43	(1.1)	3.2
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**Category:**



## 2019 Operating Budget - Staff Recommended New and Enhanced Services Summary by Service (\$000's)

Form ID		Infrastructure and Development Services  Program - Toronto Water	Adjustments				2020 Plan Net Change	2021 Plan Net Change
Category	Equity Impact		Gross Expenditure	Revenue	Net	Approved Positions		
<b>Staff Recommended New/Enhanced Services:</b>			184.1	139.1	45.1	3.00	(2.4)	6.7

17916	New Solicitor for Toronto Water (IDC/IDR to Legal Services)
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72	No Impact
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**Description:**

Toronto Water is responding to growing community and regulatory pressures, including provision of key services (water supply, wastewater treatment and storm water management) to meet population growth and intensification in the downtown core and along the waterfront, as well as more stringent regulatory requirements for effluent quality, stewardship and environmental monitoring and protection (including the Safe Drinking Water Act, the Ontario Water Resources Act, Environmental Protection Act and the Environmental Assessment Act).

Key legal services are currently provided to Toronto Water through the Municipal Law section of the City's Legal Services by a team of three lawyers and partial services from a clerk. The demand for legal services, including preparation of contracts, procurement documents, legal notices and opinions, input to policy and regulatory development and review of staff reports is growing significantly. In addition, contractual agreements with third parties such as Enwave (in connection with the expansion of the Deep Lake Water Cooling system), and TRCA (waterfront and use agreements) require comprehensive time commitments and development of subject matter expertise. The demand growth for priority legal services has resulted in delays in operational needs including acquisition of priority equipment replacement parts and a need to establish service response procedures.

After reviewing the outstanding current legal service requests it was determined that the addition of a Solicitor 3 to the current team of lawyers providing services to Toronto Water will increase legal capacity to respond to these challenges. The new Solicitor 3 (Junior Lawyer) will support senior solicitors and Toronto Water's legal needs directly by performing variety of activities including development of contract templates for service agreements, reviewing background documents and preparing summaries, researching court decisions and case law and analyzing Federal and Provincial policy and regulatory requirements. Toronto Water will fund this position at cost of \$0.115 million gross and net (with an incremental impact of \$0.026 million in 2020) through an Interdepartmental Charge/Recovery (IDC/IDR) to Legal Services.

**Service Level Impact:**

Improved turnaround time of legal requests will allow for more efficient management of Toronto Water's staff resources. Examples include elimination of the bridging contracts or alternative procurement processes when delays are experienced in preparation of procurement documents.

**Equity Statement:**

This proposal has no equity impacts.

**Service:** TW-Stormwater Management

Total Staff Recommended Changes:	5.7	0.0	5.7	0.00	1.3	0.2
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**Category:**

- |   |                   |
|---|-------------------|
| 71 - Operating Impact of New Capital Projects | 74 - New Services |
| 72 - Enhanced Services-Service Expansion      | 75 - New          |



## 2019 Operating Budget - Staff Recommended New and Enhanced Services Summary by Service (\$000's)

Form ID	Infrastructure and Development Services Program - Toronto Water	Adjustments			Approved Positions	2020 Plan Net Change	2021 Plan Net Change
		Gross Expenditure	Revenue	Net			
<b>Service: TW-Wastewater Collection &amp; Treatment</b>							
	Total Staff Recommended Changes:	51.6	0.0	51.6	0.00	11.9	1.6
<b>Service: TW-Water Treatment &amp; Supply</b>							
	Total Staff Recommended Changes:	57.3	0.0	57.3	0.00	13.2	1.8
<b>Staff Recommended New/Enhanced Services:</b>		<b>114.7</b>	<b>0.0</b>	<b>114.7</b>	<b>0.00</b>	<b>26.4</b>	<b>3.6</b>

16546	No Impact
74	No Impact

**Description:** B12: Dedicated Risk/Insurance Staff

Toronto Water's historical insurance claims data (2009 to November 2015) identified approximately 10,000 claims in the top 3 causes of loss (Sewer Back-up, Water Main Break, Sidewalk Disrepair) City wide. These claims totaled \$16.2 million representing about 70% of the total cost of all City claims.

Approximately 30% of the total cost of the claims are high-value, greater than \$50,000 losses, and these claims are reviewed regularly by the Claims Review Group (CRG). The remaining 70% of Toronto Water claim settlements that do not reach the Claims Review Group, represent an opportunity to conduct loss control analysis and review for potential loss reductions.

A temporary Coordinator Business Support position was created in 2016 to provide dedicated risk/insurance functions in Toronto Water and to reduce the frequency and severity of Toronto Water Division claims while an organizational structure review is being conducted. This assignment has proven to meet the various business needs of both Toronto Water and Insurance and Risk Management unit. The City has realized significant cost savings via the review of large value claims where, based on the analysis of the Coordinator Business Support, numerous claims were either denied or the claim settlement reduced.

Based on the above it is recommended to convert the existing temporary Coordinator Business Support position to the permanent Coordinator Business Support position. This will increase Toronto Water's staff complement by one permanent position at cost of \$0.087 million in 2019, with an incremental cost of \$0.033 million in 2020.

**Service Level Impact:**

The addition of an insurance/risk management dedicated position increases staff capacity to review large value insurance claims through improved claims handling, data capture and improved practices leading to a reduction in claims and improved customer service for claimants, ultimately resulting in measurable savings to the City.

**Category:**

- 71 - Operating Impact of New Capital Projects
- 72 - Enhanced Services-Service Expansion
- 74 - New Services
- 75 - New

## 2019 Operating Budget - Staff Recommended New and Enhanced Services Summary by Service (\$000's)

Form ID	Infrastructure and Development Services	Adjustments				2020 Plan Net Change	2021 Plan Net Change
Category Equity Impact	Program - Toronto Water	Gross Expenditure	Revenue	Net	Approved Positions		

**Equity Statement:**

This proposal has no equity impacts.

**Service:** TW-Stormwater Management

Total Staff Recommended Changes:	6.9	0.0	6.9	0.08	2.6	0.3
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**Service:** TW-Wastewater Collection & Treatment

Total Staff Recommended Changes:	27.7	0.0	27.7	0.32	10.5	1.0
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**Service:** TW-Water Treatment & Supply

Total Staff Recommended Changes:	51.9	0.0	51.9	0.60	19.8	1.9
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**Staff Recommended New/Enhanced Services:**

	<b>86.5</b>	<b>0.0</b>	<b>86.5</b>	<b>1.00</b>	<b>33.0</b>	<b>3.2</b>
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17833	
74	No Impact

**Utility Cut Program**

**Description:**

Recommended funding for the Utility Cut Program addresses resources required to implement a transfer of responsibility for the permanent restoration of utility cuts from Transportation Services to Toronto Water. This transfer is result of the changes to the Municipal Consent Requirements approved by Council in May 2018.

The first construction contracts for permanent restoration will commence in spring of 2019 and will include approximately 6 months of work resulting from the 2018 construction season.

The staffing plan will be carried out in three phases with a gradual increase in positions from 9 positions in 2018 (already in place through a delegated authority to be converted to permanent positions in 2019), to 24 positions in 2019 and 35 in 2020, subject to further review of the staffing needs and program adjustment, if required.

The total staff complement of 24 positions being recommended in 2019 includes: one Senior Engineer, one Senior Project Manager; two Supervisor Contract Services, two Inspection Coordinator, 12 Inspector Municipal Construction (eight permanent and four temporary), one Contract Coordinator, one Research Analyst 1, and four Engineering Technologist Technical 1.

In addition to staffing costs for the 24 new positions, funding of \$1.2 million is recommended for one-time costs to purchase office furniture, additional computing devices including field devices and the purchase of 24 new vehicles.

The estimated cost of the Program in 2019 is \$7.372 million gross, \$5.604 million net, with an incremental impact of \$7.645 million net and addition of 11 positions in 2020, for a total cost of \$16.095 million gross, \$13.249 million net.

**Category:**

## 2019 Operating Budget - Staff Recommended New and Enhanced Services Summary by Service (\$000's)

Form ID		Infrastructure and Development Services  Program - Toronto Water	Adjustments				2020 Plan Net Change	2021 Plan Net Change
Category	Equity Impact		Gross Expenditure	Revenue	Net	Approved Positions		

It is recommended that Toronto Water reports through the 2020 Budget process on the implementation progress of the Utility Cut Program transfer, including costs and benefits.

**Service Level Impact:**

Toronto Water plans to improve the current service level by shortening the time to complete the permanent cut repair resulting in less construction time thereby reducing the level of traffic congestion and impact on the general public, the number of pot holes and trip hazards caused by temporary repairs, as well as backlog of permanent restoration work. As a result it is anticipated that approximately 8,500 cuts will be delivered annually, an increase of 3,650 locations per year compared to the current service level. This will ultimately increase customer satisfaction.

**Equity Statement:**

This proposal has no equity impacts.

<b>Service:</b> TW-Stormwater Management	427.6	102.5	325.1	1.39	443.4	40.1
<b>Service:</b> TW-Wastewater Collection & Treatment						
Total Staff Recommended Changes:	2,403.1	576.1	1,827.0	7.82	2,492.3	225.3
<b>Service:</b> TW-Water Treatment & Supply						
Total Staff Recommended Changes:	4,540.9	1,088.6	3,452.3	14.78	4,709.3	425.7
<b>Staff Recommended New/Enhanced Services:</b>	<b>7,371.6</b>	<b>1,767.2</b>	<b>5,604.4</b>	<b>24.00</b>	<b>7,645.0</b>	<b>691.1</b>

17922
74 No Impact

Toronto Water Chamber Adjustment Program

**Description:**

The Chamber Adjustment Program will be transferred from Transportation Services to Toronto Water commencing in 2019. This program involves the rehabilitation of maintenance hole/valve and catch basin chambers to address deteriorated frames/covers and grade adjustment units to improve riding surface issues and overall structural integrity of the access chambers.

Approximately 2,000 chamber adjustments are expected to be carried out annually. Funding for three positions (2 Inspector Municipal Construction and one Engineering Technologist Technician 1) is recommended to support and administer the delivery of the program. There will be approximately 1000 locations assigned to each inspector to generate tender estimates during winter months and inspect construction during the summer months. The Engineering Technologist Technician 1 will assist in tender creation and provide technical and administrative support to execute the construction contracts.

**Category:**

71 - Operating Impact of New Capital Projects      74 - New Services  
72 - Enhanced Services-Service Expansion      75 - New

## 2019 Operating Budget - Staff Recommended New and Enhanced Services Summary by Service (\$000's)

Form ID	Equity Impact	Infrastructure and Development Services Program - Toronto Water	Adjustments			2020 Plan Net Change	2021 Plan Net Change	
			Gross Expenditure	Revenue	Net			Approved Positions
<p>The total cost of the program is estimated at \$0.226 million in 2019 with an incremental cost of \$0.084 million in 2020, which will be fully recovered from Toronto Water's capital projects.</p> <p><b>Service Level Impact:</b></p> <p>The Chamber Rehabilitation Program will minimize future property damage claims resulting from chambers that have deteriorated and ensure that the state of good repair of Toronto Water's assets is maintained.</p> <p><b>Equity Statement:</b></p> <p>This proposal has no equity impacts.</p> <p><b>Service:</b> TW-Stormwater Management</p> <p>Total Staff Recommended Changes: 13.1      13.1      0.0      0.17      0.0      (0.0)</p> <p><b>Service:</b> TW-Wastewater Collection &amp; Treatment</p> <p>Total Staff Recommended Changes: 73.7      73.7      0.0      0.98      0.0      (0.0)</p> <p><b>Service:</b> TW-Water Treatment &amp; Supply</p> <p>Total Staff Recommended Changes: 139.3      139.3      0.0      1.85      (0.0)      (0.0)</p> <p><b>Staff Recommended New/Enhanced Services:</b></p> <p style="text-align: right;"><b>226.1      226.1      0.0      3.00      0.0      (0.0)</b></p>								
18701		Bulk Water Fill Station Pilot						
75	No Impact	<b>Description:</b>						

Many neighbouring GTA municipalities provide bulk water fill station services for their business sector customers. Currently, the City does not. When water is purchased from bulk water fill stations outside of the City but used within Toronto's boundaries, those consumers are not paying the City for the treatment of that water when it flows into the City's sanitary sewer infrastructure and wastewater treatment plants.

Within City boundaries, the City has a total of 41,398 hydrants and water theft from illegal, unmetered connections to those hydrants is a significant concern resulting in the following: lost revenue from unmetered water; damaged hydrants; lost pressure from hydrants for fire suppression and potential threats to the drinking water supply due to the lack of a backflow prevention device associated with the illegal connection.

Based on extensive stake holder consultations, indicating support for the need for bulk water stations, Toronto Water proposes to conduct a pilot project and seek City Council authority to charge a bulk water fee of \$3.96 per cubic metre (Block 1 Water Rate). This provides mobile washers and other bulk water haulers a viable option to obtain wash water in bulk within the City of Toronto and prevents illegal practices. Further details of this pilot project are provided in the 2019 Water and Wastewater Consumption Rates and Service Fees report.

**Category:**

- 71 - Operating Impact of New Capital Projects      74 - New Services
- 72 - Enhanced Services-Service Expansion      75 - New

## 2019 Operating Budget - Staff Recommended New and Enhanced Services Summary by Service (\$000's)

Form ID		Infrastructure and Development Services  Program - Toronto Water	Adjustments				2020 Plan Net Change	2021 Plan Net Change
Category	Equity Impact		Gross Expenditure	Revenue	Net	Approved Positions		

An estimated \$300,000 in capital funds is required for the installation of a bulk water fill station (including site preparation, purchase, water connection, etc.). Required funding is included in the 2019-2028 Staff Recommended Capital Budget and Plan for Toronto Water. It is expected that capital works will be completed sometime later in 2019, as it will take time for the procurement process and subsequent assembly and installation of the station itself.

Annual operating costs of approximately \$25,000 will be required to operate and maintain bulk water fill station. It is anticipated that the bulk water fee will generate, if a City-wide network of bulk water fill stations are constructed, approximately \$400,000 in annual revenues from the sale of bulk water. These revenues are intended to reduce revenue loss currently experienced by Toronto Water due to practices like unauthorized hook-ups to fire hydrants. The 2019 Staff Recommended Operating Budget for Toronto Water includes initial operating costs (\$2,000) and revenues (\$35,000) estimated for 2019, with fully annualized impact in 2020.

It is recommended that Toronto Water report back to the Infrastructure and Environment Committee on the outcome of the pilot project once completed.

**Service Level Impact:**

This pilot project will minimize/eliminate illegal accessing of hydrants and water theft as well as hydrant damages and associated repair costs. It will also protect drinking water from possible water contamination (caused by backflow). A good customer service will be provided as users have expressed need for stations.

**Equity Statement:**

This proposal has no equity impacts.

**Service: TW-Stormwater Management**

Total Staff Recommended Changes:	0.4	0.0	0.4	0.00	4.6	0.0
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**Service: TW-Wastewater Collection & Treatment**

Total Staff Recommended Changes:	1.4	20.0	(18.6)	0.00	(192.0)	0.0
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**Service: TW-Water Treatment & Supply**

Total Staff Recommended Changes:	0.2	15.1	(14.9)	0.00	(154.6)	0.0
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<b>Staff Recommended New/Enhanced Services:</b>	<b>2.0</b>	<b>35.0</b>	<b>(33.0)</b>	<b>0.00</b>	<b>(342.0)</b>	<b>0.0</b>
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**Category:**

**2019 Operating Budget - Staff Recommended New and Enhanced Services  
Summary by Service (\$000's)**

**Summary:**

Form ID			Infrastructure and Development Services	Adjustments				2020 Plan Net Change	2021 Plan Net Change
Category	Equity	Impact		Gross Expenditure	Revenue	Net	Approved Positions		
			Program - Toronto Water						
<b>Staff Recommended New / Enhanced Services:</b>				7,985.0	2,167.4	5,817.6	31.00	7,360.0	704.6

**Category:**

71 - Operating Impact of New Capital Projects      74 - New Services  
72 - Enhanced Services-Service Expansion      75 - New

## Appendix 6

## 2019 User Fee Rate Changes

Table 6a

## User Fees Adjusted for Inflation and Other - Water

Rate Description	Service	Fee Category	Fee Basis	2018	2019		2020	2021
				Approved Rate	Inflationary Adjusted Rate	Budget Rate	Plan Rate	Plan Rate
Installing 19 mm New Residential Water Service and Meter	Water Service	Full Cost Recovery	Flat fee per connection	\$4,600.00	\$4,729.72	\$4,729.72	\$4,729.72	\$4,729.72
Installing 25 mm New Residential Water Service and Meter	Water Service	Full Cost Recovery	Flat fee per connection	\$5,330.00	\$5,480.30	\$5,480.30	\$5,480.30	\$5,480.30
Disconnection Fee for any residential water service less than or equal to 25 mm	Water Service	Full Cost Recovery	Flat fee per disconnection	\$1,360.00	\$1,398.35	\$1,398.35	\$1,398.35	\$1,398.35
Metered water provided to construction sites	Water Service	City Policy	Consumption per cubic metre	Block 1 Water Rate	Block 1 Water Rate	Block 1 Water Rate	Block 1 Water Rate	Block 1 Water Rate
Fire hydrant Permit	Water Service	Full Cost Recovery	Flat Fee	\$172.31	\$177.16	\$177.16	\$177.16	\$177.16
Water meter accuracy test; Meter less than or equal to 50mm - No Chamber - applied if meter does not over-register	Water Service	Full Cost Recovery	Flat Fee	\$172.31	\$177.16	\$177.16	\$177.16	\$177.16
Water turn off fee for demolition; (disconnection of old water service not included)	Water Service	Full Cost Recovery	Flat Fee	\$86.10	\$88.52	\$88.52	\$88.52	\$88.52
Cost of water consumption from last water meter reading to the date of disconnection of service	Water Service	Full Cost Recovery	Per cubic metre	Block 1 Water Rate	Block 1 Water Rate	Block 1 Water Rate	Block 1 Water Rate	Block 1 Water Rate
Water Turn-off or Turn-on	Water Service	Full Cost Recovery	Each Turn-off or Turn-on	\$86.10	\$88.52	\$88.52	\$88.52	\$88.52
Single Service call Turn-off and Turn-on within 30 min	Water Service	Full Cost Recovery	Turn-off and Turn-on Service within 30 min	\$86.10	\$88.52	\$88.52	\$88.52	\$88.52



Table 6a

## User Fees Adjusted for Inflation and Other - Water

Rate Description	Service	Fee Category	Fee Basis	2018	2019		2020	2021
				Approved Rate	Inflationary Adjusted Rate	Budget Rate	Plan Rate	Plan Rate
Conduct fire hydrant flow test	Water Service	Full Cost Recovery	Per Flow Test	\$287.23	\$295.32	\$295.32	295.32	295.32
Unmetered water from each unmetered hydrant-less than or equal to 50 cubic metre	Water Service	City Policy	Per 50 cubic metre	50 cubic metre @ Block 1 Water Rate	50 cubic metre @ Block 1 Water Rate	50 cubic metre @ Block 1 Water Rate	50 cubic metre @ Block 1 Water Rate	50 cubic metre @ Block 1 Water Rate
Metered water received at hydrant	Water Service	Full Cost Recovery	Per cubic meter of water	Block 1 Water Rate	Block 1 Water Rate	Block 1 Water Rate	Block 1 Water Rate	Block 1 Water Rate
Unregistered water each day order not complied	Water Service	Full Cost Recovery	Flat Rate	\$57.40	\$59.01	\$59.01	\$59.01	\$59.01
Annual Seasonal Meter Activation Fee: includes replacement, removal of water meter; 1 turn on, 1 turn off	Water Service	Full Cost Recovery	Flat Fee	\$220.94	\$227.17	\$227.17	\$227.17	\$227.17
Unmetered water - general or use of non-City supplied meter	Water Service	Full Cost Recovery	Estimated consumption on per cubic meter	Block 1 Water Rate	Block 1 Water Rate	Block 1 Water Rate	Block 1 Water Rate	Block 1 Water Rate
Reuse of residential water service 19 mm to 25 mm	Water Service	Full Cost Recovery	Per Service to be reused	\$287.00	\$295.09	\$295.09	\$295.09	\$295.09
Administrative fee to reflect a change in ownership on an existing utility account	Water Service	Full Cost Recovery	Per ownership change	\$38.42	\$39.19	\$39.19	\$39.19	\$39.19
Water Special/Final Reading	Water Service	Full Cost Recovery	Per Customer Request	\$16.46	\$16.79	\$16.79	\$16.79	\$16.79
Water Consumption Statements	Water Service	Full Cost Recovery	For One Year	\$43.92	\$44.80	\$44.80	\$44.80	\$44.80
Water Consumption Statements	Water Service	Full Cost Recovery	For each subsequent year	\$27.45	\$28.00	\$28.00	\$28.00	\$28.00
Water Collection Field Visit	Water Service	Full Cost Recovery	Per Field Visit	\$27.45	\$28.00	\$28.00	\$28.00	\$28.00
Administration of MECP Municipal drinking Water Licensing Program	Water Service	Full Cost Recovery	per application	\$2,598.05	\$2,671.31	\$2,671.31	\$2,671.31	\$2,671.31

Table 6a

## User Fees Adjusted for Inflation and Other - Water

Rate Description	Service	Fee Category	Fee Basis	2018	2019		2020	2021
				Approved Rate	Inflationary Adjusted Rate	Budget Rate	Plan Rate	Plan Rate
Fee for lost or damaged automated meter reading transmitter	Revenues - Operational Support	Full Cost Recovery	per location	\$97.00	\$99.73	\$99.73	\$99.73	\$99.73
Manual water meter reading fee for consumers with water meters refusing installation of a new water meter and associated meter reading equipment	Revenues - Operational Support	Full Cost Recovery	per visit	\$88.05	\$90.53	\$90.53	\$90.53	\$90.53
Flat rate legacy fee, in addition to any existing water and wastewater flat rates charged for residential flat rate consumers who refuse the installation of an automatic water meter and associated meter reading equipment	Revenues - Operational Support	Full Cost Recovery	per year	\$1,174.45	\$1,207.56	\$1,207.56	\$1,207.56	\$1,207.56
Processing annual water supply backflow prevention device testing reports	Water Service	Full Cost Recovery	per report	\$53.54	\$55.05	\$55.05	\$55.05	\$55.05
Water Service Upgrade Fee - Lead Water Service Replacement Programs (19 mm to 25 mm upgrade only)	Revenues - Distribution & Collection	Full Cost Recovery	Flat fee per connection	\$523.00	\$537.74	\$537.74	\$537.74	\$537.74

Table 6a –Continued

## User Fees Adjusted for Inflation and Other - Wastewater

Rate Description	Service	Fee Category	Fee Basis	2018	2019		2020	2021
				Approved Rate	Inflationary Adjusted Rate	Budget Rate	Plan Rate	Plan Rate
Sewer Surcharge on private water	Wastewater Service	Full Cost Recovery	Per Cubic Meter	57% of Block 1 Water Rate	57% of Block 1 Water Rate	57% of Block 1 Water Rate	57% of Block 1 Water Rate	57% of Block 1 Water Rate
To install new residential sanitary sewer service connection in road allowance	Wastewater Service	Full Cost Recovery	Per Installation	\$11,506.00	\$11,830.46	\$11,830.46	\$11,830.46	\$11,830.46
To install new residential storm sewer service connection in road allowance	Wastewater Service	Full Cost Recovery	Per Installation	\$11,506.00	\$11,830.46	\$11,830.46	\$11,830.46	\$11,830.46
To disconnect residential sanitary sewer service connection in road allowance	Wastewater Service	Full Cost Recovery	Per Disconnection	\$1,420.00	\$1,460.04	\$1,460.04	\$1,460.04	\$1,460.04
Inspection fee for the reuse of residential City sewer connection up to 150 mm in diameter	Wastewater Service	Full Cost Recovery	Per service to be reused	\$575.20	\$591.42	\$591.42	\$591.42	\$591.42
Technical Review by Toronto Water staff - Application to Toronto Water for exemption to permit the construction of a driveway sloped downwards towards a residential building.	Wastewater Service	Full Cost Recovery	Per application	\$1,724.00	\$1,772.61	\$1,772.61	\$1,772.61	\$1,772.61
Technical Review by Toronto Water staff - Application to Toronto Water for new connection or change or alteration to the existing storm connection, sanitary or water supply connection	Wastewater Service	Full Cost Recovery	Per application	\$344.58 minimum fee; additional \$85.00/hour for each hour after 4 hours to a maximum of \$1,724.00	\$354.29 minimum fee; additional \$87.39/hour for each hour after 4 hours to a maximum of \$1,772.61	\$354.29 minimum fee; additional \$87.39/hour for each hour after 4 hours to a maximum of \$1,772.61	\$354.29 minimum fee; additional \$87.39/hour for each hour after 4 hours to a maximum of \$1,772.61	\$354.29 minimum fee; additional \$87.39/hour for each hour after 4 hours to a maximum of \$1,772.61

Table 6a –Continued

## User Fees Adjusted for Inflation and Other - Wastewater

Rate Description	Service	Fee Category	Fee Basis	2018	2019		2020	2021
				Approved Rate	Inflationary Adjusted Rate	Budget Rate	Plan Rate	Plan Rate
Technical Review by Toronto Water staff - Application to Toronto Water for request to encroach within a City permanent or temporary easement (related to City water and sewer infrastructure)	Wastewater Service	Full Cost Recovery	Per application	\$344.58 minimum fee; additional \$85.00/hour for each hour after 4 hours to a maximum of \$1,724.00	\$354.29 minimum fee; additional \$87.39/hour for each hour after 4 hours to a maximum of \$1,772.61	\$354.29 minimum fee; additional \$87.39/hour for each hour after 4 hours to a maximum of \$1,772.61	\$354.29 minimum fee; additional \$87.39/hour for each hour after 4 hours to a maximum of \$1,772.61	\$354.29 minimum fee; additional \$87.39/hour for each hour after 4 hours to a maximum of \$1,772.61
Technical Review by Toronto Water staff - Application to Toronto Water for request to release from title a City easement (related to City water and sewer infrastructure)	Wastewater Service	Full Cost Recovery	Per application	\$344.58 minimum fee; additional \$85.00/hour for each hour after 4 hours to a maximum of \$1,724.00	\$354.29 minimum fee; additional \$87.39/hour for each hour after 4 hours to a maximum of \$1,772.61	\$354.29 minimum fee; additional \$87.39/hour for each hour after 4 hours to a maximum of \$1,772.61	\$354.29 minimum fee; additional \$87.39/hour for each hour after 4 hours to a maximum of \$1,772.61	\$354.29 minimum fee; additional \$87.39/hour for each hour after 4 hours to a maximum of \$1,772.61
Initial fee for establishment of new industrial waste surcharge agreement	Wastewater Service	Full Cost Recovery	Per agreement	\$884.02	\$908.95	\$908.95	\$908.95	\$908.95
Record search for Sewers by-law and water supply by-law compliance violation	Wastewater Service	Full Cost Recovery	Per address or per water account	\$104.58	\$107.53	\$107.53	\$107.53	\$107.53

Table 6a - Continued

## User Fees Adjusted for Inflation and Other - Water &amp; Wastewater Consumption Rates

Rate Description	Water & Wastewater Consumption Rates	Fee Category	Fee Basis	2018	2019		2020	2021
				Approved Rate	Other Adjustments	Budget Rate	Plan Rate	Plan Rate
Block 1 Domestic - Use General Water Service Rate Applicable to all consumers of water, including the first 5,000 cubic metres per year (m3/per year) consumed by industrial users	Metered Water Consumers	Full Cost Recovery	Per cubic metre - (\$/m3)	\$3.80	\$0.15	\$3.95	\$3.95	\$3.95
Block 2 - Industrial Process - Use Service Rate - Applicable to industrial process use for eligible property or portions of property and is applicable to volume of water consumed over 5,000 cubic metres per year (m3/per year) of such use	Metered Water Consumers	Full Cost Recovery	Per cubic metre - (\$/m3)	\$2.66	\$0.11	\$2.77	\$2.77	\$2.77
Dwelling house rate	Flat Rate Residential Consumers - Former City of Toronto	Full Cost Recovery	Per Room; Per Annum	\$56.50	\$2.25	\$58.75	\$58.75	\$58.75
Rooming house rate	Flat Rate Residential Consumers - Former City of Toronto	Full Cost Recovery	Per Room, Per Annum	\$109.26	\$4.35	\$113.61	\$113.61	\$113.61
Basins	Flat Rate Residential Consumers - Former City of Toronto	Full Cost Recovery	Each	\$109.26	\$4.35	\$113.61	\$113.61	\$113.61
Baths	Flat Rate Residential Consumers - Former City of Toronto	City Policy	Each	\$109.26	\$4.35	\$113.61	\$113.61	\$113.61
Bidets	Flat Rate Residential Consumers - Former City of Toronto	Full Cost Recovery	Each	\$109.26	\$4.35	\$113.61	\$113.61	\$113.61
Saunas connected to water or drains	Flat Rate Residential Consumers - Former City of Toronto	Full Cost Recovery	Each	\$109.26	\$4.35	\$113.61	\$113.61	\$113.61

Table 6a - Continued

## User Fees Adjusted for Inflation and Other - Water &amp; Wastewater Consumption Rates

Rate Description	Water & Wastewater Consumption Rates	Fee Category	Fee Basis	2018	2019		2020	2021
				Approved Rate	Other Adjustments	Budget Rate	Plan Rate	Plan Rate
Shower baths	Flat Rate Residential Consumers - Former City of Toronto	Full Cost Recovery	Not attached to bath tub - Each	\$109.26	\$4.35	\$113.61	\$113.61	\$113.61
Sinks	Flat Rate Residential Consumers - Former City of Toronto	Full Cost Recovery	Sinks - Each	\$109.26	\$4.35	\$113.61	\$113.61	\$113.61
Urinals	Flat Rate Residential Consumers - Former City of Toronto	Full Cost Recovery	Self-acting - Each	\$129.81	\$5.17	\$134.98	\$134.98	\$134.98
Water Closets	Flat Rate Residential Consumers - Former City of Toronto	Full Cost Recovery	Self Acting - Each	\$174.46	\$6.94	\$181.40	\$181.40	\$181.40
Laundry Tubs	Flat Rate Residential Consumers - Former City of Toronto	Full Cost Recovery	For pair of tubs (in one fixture)	\$109.26	\$4.35	\$113.61	\$113.61	\$113.61
Laundry Tubs	Flat Rate Residential Consumers - Former City of Toronto	Full Cost Recovery	For single or additional tub - Each	\$64.94	\$2.58	\$67.52	\$67.52	\$67.52
Washing Machine	Flat Rate Residential Consumers - Former City of Toronto	Full Cost Recovery	Each	\$109.26	\$4.35	\$113.61	\$113.61	\$113.61
Factories, office buildings, stores, garages, warehouses and similar places of business	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	Per Flat - Per Annum	\$174.34	\$6.94	\$181.28	\$181.28	\$181.28
Private hospitals, rest homes, schools, fraternity houses, clubs, hotels and similar places	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	Per room - Per Annum	\$99.17	\$3.95	\$103.12	\$103.12	\$103.12
Basins	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	Each	\$217.00	\$8.64	\$225.64	\$225.64	\$225.64

Table 6a - Continued

## User Fees Adjusted for Inflation and Other - Water &amp; Wastewater Consumption Rates

Rate Description	Water & Wastewater Consumption Rates	Fee Category	Fee Basis	2018	2019		2020	2021
				Approved Rate	Other Adjustments	Budget Rate	Plan Rate	Plan Rate
Baths	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	Each	\$217.00	\$8.64	\$225.64	\$225.64	\$225.64
Bidets	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	Each	\$217.00	\$8.64	\$225.64	\$225.64	\$225.64
Saunas connected to water or drains	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	Each	\$217.00	\$8.64	\$225.64	\$225.64	\$225.64
Shower Baths	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	Not attached to bath tub - Each	\$217.00	\$8.64	\$225.64	\$225.64	\$225.64
Sinks	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	Each	\$217.00	\$8.64	\$225.64	\$225.64	\$225.64
Urinals	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	Self-acting - Each	\$259.39	\$10.32	\$269.71	\$269.71	\$269.71
Water Closets	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	Self Acting - Each	\$346.99	\$13.81	\$360.80	\$360.80	\$360.80
Laundry Tubs	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	For pair of tubs (in one fixture)	\$217.00	\$8.64	\$225.64	\$225.64	\$225.64
Laundry Tubs	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	For single or additional tub - Each	\$109.26	\$4.35	\$113.61	\$113.61	\$113.61
Washing Machines	Flat Rate Non-Residential Consumers - Former City of Toronto	Full Cost Recovery	Each	\$217.00	\$8.64	\$225.64	\$225.64	\$225.64
Baptistries	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Each	\$73.31	\$2.92	\$76.23	\$76.23	\$76.23

Table 6a - Continued

## User Fees Adjusted for Inflation and Other - Water &amp; Wastewater Consumption Rates

Rate Description	Water & Wastewater Consumption Rates	Fee Category	Fee Basis	2018	2019		2020	2021
				Approved Rate	Other Adjustments	Budget Rate	Plan Rate	Plan Rate
Barber shop or beauty parlour	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Each	\$217.00	\$8.64	\$225.64	\$225.64	\$225.64
Church buildings used as a place of worship	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Each for any such fixture in a church building so used coming within rows 18-30	Variable		Variable	Variable	Variable
Dental Fountains	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Each	\$538.25	\$21.42	\$559.67	\$559.67	\$559.67
Commercial dish washers	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Each	\$432.36	\$17.21	\$449.57	\$449.57	\$449.57
Drinking Fountains	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Each	\$217.00	\$8.64	\$225.64	\$225.64	\$225.64
Fountains	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	For 1.6mm orifice or less, each per season	\$346.99	\$13.81	\$360.80	\$360.80	\$360.80
Fountains	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	All others, each per person	\$1,380.39	\$54.94	\$1,435.33	\$1,435.33	\$1,435.33
Materials used in buildings or in alterations or repairs to buildings and other construction work	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Bricks per 1,000	\$3.72	\$0.15	\$3.87	\$3.87	\$3.87
Materials used in buildings or in alterations or repairs to buildings and other construction work	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Other masonry, including concrete blocks, tiles, and similar materials, on basis of equivalent number	\$3.72	\$0.15	\$3.87	\$3.87	\$3.87



Table 6a - Continued

## User Fees Adjusted for Inflation and Other - Water &amp; Wastewater Consumption Rates

Rate Description	Water & Wastewater Consumption Rates	Fee Category	Fee Basis	2018	2019		2020	2021
				Approved Rate	Other Adjustments	Budget Rate	Plan Rate	Plan Rate
			of bricks to replace same, per 1,000 bricks					
Materials used in buildings or in alterations or repairs to buildings and other construction work	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Plastering per 1,000 sq. yd	\$130.54	\$5.20	\$135.74	\$135.74	\$135.74
Materials used in buildings or in alterations or repairs to buildings and other construction work	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Per cubic yd - Concrete	\$9.06	\$0.36	\$9.42	\$9.42	\$9.42
Materials used in buildings or in alterations or repairs to buildings and other construction work	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Minimum rate for each building or for repairs or alterations, where any of the above material is used	\$43.57	\$1.73	\$45.30	\$45.30	\$45.30
Photographic washing tanks	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Each	\$217.00	\$8.64	\$225.64	\$225.64	\$225.64
Wash racks	Flat Rate Consumers - Former City of Toronto	Full Cost Recovery	Each	\$1,077.99	\$42.90	\$1,120.89	\$1,120.89	\$1,120.89
Residential and commercial rates, Flat rate, Single family	Unmetered Consumers - Former City of Etobicoke	Full Cost Recovery	Tri-annual	\$356.42	\$14.19	\$370.61	\$370.61	\$370.61
Hydro substations	Unmetered Consumers - Former City of Etobicoke	Full Cost Recovery	Tri-annual	\$256.39	\$10.20	\$266.59	\$266.59	\$266.59
Building water and sewer service rates; not metered up to three months not refundable	Unmetered Consumers - Former City of Etobicoke	Full Cost Recovery	Each	\$758.23	\$30.18	\$788.41	\$788.41	\$788.41

**Table 6b****New User Fees**

<b>Rate Description</b>	<b>Service</b>	<b>Fee Category</b>	<b>Fee Basis</b>	<b>2019 Budget Rate</b>	<b>2020 Plan Rate</b>	<b>2021 Plan Rate</b>
Metered water received at bulk water fill station.	Water Service	Full Cost Recovery	Per cubic meter	Block 1 Water and Wastewater Consumption Rate	Block 1 Water and Wastewater Consumption Rate	Block 1 Water and Wastewater Consumption Rate
<b>2019 User Fee Revenues - New</b>				<u>\$35,000.00</u>		

### Appendix 7

## 2019 Capital Budget; 2020 - 2028 Capital Plan Including Carry Forward Funding

(In \$000s)	Total App'd Cash Flows to Date*	2019 Budget	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	2019 - 2028 Total	Total Project Cost
<b>Total Expenditures by Category</b>													
<b>Health &amp; Safety</b>													
Ashbridges Bay TP		1,190	6,629	2,583	2,374	1,891	31					14,698	14,698
Humber TP		335	5,140	424								5,899	5,899
<b>Sub-Total</b>		<b>1,525</b>	<b>11,769</b>	<b>3,007</b>	<b>2,374</b>	<b>1,891</b>	<b>31</b>					<b>20,597</b>	<b>20,597</b>
<b>Legislated</b>													
Water Service Replacement		26,006	57,043	45,625	48,221	46,246	46,246	45,746	44,246	44,246	44,246	447,871	447,871
Pumping Stations		4,319	7,338	8,919	11,490	12,924	9,558	6,700	8,425	4,250		73,923	73,923
WT - Storage & Treatment		125	125	125								375	375
Ashbridges Bay TP		75,436	117,316	129,560	101,068	60,016	42,764	35,719	20,615	60		582,554	582,554
Highland Creek TP		5,375	9,586	10,417	7,456	37	37	400	1,000	6,500	11,300	52,108	52,108
Humber TP		1,500	2,676			550				550		5,276	5,276
RL Clark TP		2,439	700	3								3,142	3,142
Island TP		920	2,462	16,163	19,280	8,529	367					47,721	47,721
<b>Sub-Total</b>		<b>116,120</b>	<b>197,246</b>	<b>210,812</b>	<b>187,515</b>	<b>128,302</b>	<b>98,972</b>	<b>88,565</b>	<b>74,286</b>	<b>55,606</b>	<b>55,546</b>	<b>1,212,970</b>	<b>1,212,970</b>
<b>State of Good Repair</b>													
Business & Technology		5	79	78	80							242	242
Linear Eng		76,387	112,329	122,283	104,413	88,038	74,298	74,309	80,251	75,489	74,309	882,106	882,106
Sewer Rehabilitation		55,878	77,236	89,179	78,637	69,853	66,953	68,303	67,053	68,603	69,553	711,248	711,248
Sewer Replacement		15,159	19,458	21,086	16,012	17,469	15,100	15,000	15,000	15,000	15,000	164,284	164,284
WM Rehabilitation		56,019	68,171	83,054	71,180	71,560	70,460	70,360	70,260	65,460	65,360	691,884	691,884
WM Replacement		67,297	129,525	117,014	103,704	101,130	95,000	95,000	95,000	95,000	95,000	993,670	993,670
Water Service Replacement		5,115	7,854	7,854	675							21,498	21,498
Pumping Stations		4,156	8,212	7,612	8,816	7,935	7,875	6,815	4,260	3,550	4,000	63,231	63,231
Trunk Water Mains		5,550	5,891	2,360	14,600	25,300	27,800	22,150	25,975	25,925	25,650	181,201	181,201
WT - Storage & Treatment		22,741	32,061	47,276	32,227	10,712	13,737	26,385	35,830	17,155	5,610	243,734	243,734
Trunk Sewers & Pumping Stations		27,267	77,830	70,103	80,188	52,000	61,157	53,115	33,515	28,350	14,082	497,607	497,607
Ashbridges Bay TP		75,490	184,523	217,002	203,880	165,514	120,748	151,159	129,487	114,564	64,040	1,426,407	1,426,407
Highland Creek TP		11,493	39,327	32,880	35,157	43,890	24,610	26,255	18,640	13,927	14,314	260,493	260,493
Humber TP		40,587	43,676	52,590	26,529	32,487	18,057	7,585	11,235	36,360	35,000	304,106	304,106
RL Clark TP		7,950	4,941	315	291	200	200	200	200	200	200	14,697	14,697
RC Harris TP		3,598	12,808	10,648	3,437	2,024	11,550	11,500	11,500	12,550	500	80,115	80,115
FJ Horgan TP		584	1,701	1,281	1,321	825	202	202	200	200	200	6,716	6,716
Island TP		5,189	17,312	8,421	7,438	8,875	3,775	725	525	475	4,675	57,410	57,410
WWF-Implementation Projects		6,103	12,828	25,109	17,081	3,665	4,000	4,000	4,000	6,000	4,500	87,286	87,286
WWF - Stream Restoration		8,361	16,339	14,349	16,947	12,420	7,295	12,665	16,460	14,395	12,805	132,036	132,036
Yards & Facility		562	769	1,733	1,275	1,485	1,485	1,485	1,485	1,485	1,485	13,249	13,249
<b>Sub-Total</b>		<b>495,491</b>	<b>872,870</b>	<b>932,227</b>	<b>823,888</b>	<b>715,382</b>	<b>624,302</b>	<b>647,213</b>	<b>620,876</b>	<b>594,688</b>	<b>506,283</b>	<b>6,833,220</b>	<b>6,833,220</b>
<b>Service Improvement</b>													
Water Meter Program (AMR)		5,183	1,680	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	18,863	18,863
Basement Flooding		76,005	143,565	157,987	183,371	163,152	151,264	147,986	221,612	226,263	217,001	1,688,206	1,688,206
Business & Technology		13,141	12,584	12,572	8,506	7,769	4,769	2,914	2,014	2,014	2,014	68,297	68,297
Linear Eng		1,204	3,000	3,075	3,735	7,125	8,975	8,475	7,975	7,975	7,975	59,514	59,514
Sewer Replacement		1,549	1,825									3,374	3,374
Pumping Stations		193	69									262	262
Trunk Water Mains		470	3,568	3,327	3,333	41	92					10,831	10,831
WT - Storage & Treatment		4,738	8,945	5,521	4,061	60						23,325	23,325
Trunk Sewers & Pumping Stations		700	1,100	700	900	8,400	9,450	750				22,000	22,000
Ashbridges Bay TP		4,080	14,609	14,098	15,826	10,655	2,062	2,115	2,100	20,050	41,300	126,895	126,895
Highland Creek TP		10,205	9,757	15,005	27,652	24,150	29,920	48,125	44,080	25,150	29,290	263,334	263,334
Humber TP		4,706	8,070	7,849	9,277	7,500	3,500					40,902	40,902
RC Harris TP		1,939	5,853	864								8,656	8,656
FJ Horgan TP		442	750	2,360	540	760	1,011					5,863	5,863
Island TP		576	2,900	3,957	867	695	650	75	650	225		10,595	10,595
WTP-Plantwide		2,946	14,128	36,828	49,507	29,174	30,609	30,825	16,710	16,515	13,815	241,057	241,057
WWF-Implementation Projects		102,996	124,013	125,573	135,344	99,892	58,674	69,252	133,640	260,870	237,560	1,347,814	1,347,814
WWF-TRCA		14,791	14,104	14,219	14,337	15,958	16,082	16,209	16,339	16,473	16,610	155,122	155,122
Yards & Facility		5,520	9,888	11,722	1,677	725	605	605	605	9,055	605	41,007	41,007
<b>Sub-Total</b>		<b>251,384</b>	<b>380,408</b>	<b>417,157</b>	<b>460,433</b>	<b>377,556</b>	<b>319,163</b>	<b>328,831</b>	<b>447,225</b>	<b>586,090</b>	<b>567,670</b>	<b>4,135,917</b>	<b>4,135,917</b>
<b>Growth Related</b>													
Linear Eng		531	250	150	150	150	150	150	150	150	150	1,981	1,981
New Connections		41,836	52,503	54,993	49,857	45,223	48,223	48,223	48,223	48,223	48,223	485,527	485,527
New Sewers		6,515	9,566	20,459	27,537	12,651	3,930	2,048	1,698	1,000	1,000	86,404	86,404
WM Replacement		29,321	35,723	31,982	19,712	20,505	18,040	19,000	19,000	19,000	19,000	231,283	231,283
Pumping Stations		6,446	5,558	2,068	2,245	1,050	900					18,267	18,267
Trunk Water Mains		9,525	15,625	17,215	16,709	17,700	17,700	9,345	35			103,854	103,854
WT - Storage & Treatment		2	165	1,000	2,000	3,000						6,167	6,167
Trunk Sewers & Pumping Stations		465	1,347	3,545	12,400	28,150	52,400	52,400	52,200	51,900	50,000	304,807	304,807
Ashbridges Bay TP		550	4,850	5,300	7,900	39,000	66,000	35,350	300	200		159,450	159,450
Highland Creek TP		200	800	500								1,500	1,500
FJ Horgan TP					41							41	41
Island TP		100	700	2,300	3,300							6,400	6,400
Water Efficiency Plan		495	706	603	607	687	520	520	520	520	520	5,698	5,698
WWF-Implementation Projects				100	100	100	100	100	100			500	500
<b>Sub-Total</b>		<b>95,986</b>	<b>127,793</b>	<b>140,215</b>	<b>142,558</b>	<b>168,216</b>	<b>207,963</b>	<b>167,136</b>	<b>122,126</b>	<b>120,993</b>	<b>118,893</b>	<b>1,411,879</b>	<b>1,411,879</b>
<b>Total Expenditures by Category (including carry forward from 2018)</b>		<b>960,506</b>	<b>1,590,086</b>	<b>1,703,418</b>	<b>1,616,768</b>	<b>1,391,347</b>	<b>1,250,431</b>	<b>1,231,745</b>	<b>1,264,513</b>	<b>1,357,377</b>	<b>1,248,392</b>	<b>13,614,583</b>	<b>13,614,583</b>

Report Phase 2 - Program 10 Water Program Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2,S5,S6 Part C Sub-Project Status S2,S3,S4

## CITY OF TORONTO

Gross Expenditures (\$000's)

## Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding

## Water Program

Sub- Priority	Project No. SubProj No.	Project Name Sub-project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By												
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAT000004 HORGAN W.T.P. EXPANSION</b>																								
0	39	PLANT EXPANSION - CONSTRUCTION	CW	S2	05	0	0	0	41	0	41	0	41	0	0	13	0	15	0	0	13	0	0	41
0	42	PLANT EXPANSION - CONSTRUCTION-CHANGE IN SCOPE	CW	S3	05	0	0	0	0	0	0	0	0	0	0	15	0	-15	0	0	0	0	0	0
Sub-total						0	0	0	41	0	41	0	41	0	0	28	0	0	0	0	13	0	0	41
<b>WAT000018 CLARK RESIDUE MGMT. FACILITIES</b>																								
0	24	RESIDUALS RETROFITS AND UPGRADES	CW	S2	02	3,102	0	0	0	0	3,102	0	3,102	0	0	0	0	3,102	0	0	0	0	0	3,102
0	31	RESIDUALS RETROFITS AND UPGRADES-CHANGE IN SCOPE	CW	S3	02	-663	700	3	0	0	40	0	40	0	0	0	0	40	0	0	0	0	0	40
Sub-total						2,439	700	3	0	0	3,142	0	3,142	0	0	0	0	3,142	0	0	0	0	0	3,142
<b>WAT000021 WATER EFFICIENCY PROGRAM</b>																								
0	10	ICI INDOOR WATER AUDIT	CW	S2	05	300	300	300	300	0	1,200	0	1,200	0	0	1,200	0	0	0	0	0	0	0	1,200
0	11	PUBLIC EDUCATION & PROMOTIONS	CW	S2	05	75	75	75	75	0	300	0	300	0	0	300	0	0	0	0	0	0	0	300
0	12	ANCILLARY COSTS	CW	S2	05	70	70	70	70	0	280	0	280	0	0	280	0	0	0	0	0	0	0	280
0	82	WEP - FUTURE -ICI	CW	S6	05	0	0	0	0	520	520	2,600	3,120	0	0	3,120	0	0	0	0	0	0	0	3,120
0	97	ICI INDOOR WATER AUDIT-CHANGE IN SCOPE	CW	S3	05	50	261	158	162	167	798	0	798	0	0	798	0	0	0	0	0	0	0	798
Sub-total						495	706	603	607	687	3,098	2,600	5,698	0	0	5,698	0	0	0	0	0	0	0	5,698
<b>WAT000363 ENGINEERING STUDIES</b>																								
0	2	IMPROVED TREATMENT STUDIES	CW	S2	04	66	0	0	0	0	66	0	66	0	0	0	0	46	0	0	20	0	0	66
0	18	CONTROLLED SUBSTANCES ID AND ABATEMENT	CW	S2	02	100	0	0	0	0	100	0	100	0	0	0	0	100	0	0	0	0	0	100
0	31	ENERGY EFFICIENCY IMPLEMENTATION	CW	S2	04	38	0	0	0	0	38	0	38	0	0	0	0	38	0	0	0	0	0	38
0	70	FACILITY FORECAST/SOGR FUNDING	CW	S6	03	0	0	0	0	0	0	250	250	0	0	0	0	250	0	0	0	0	0	250
0	79	ENERGY EFFICIENCY IMPLEMENTATION-CHANGE IN SCOPE	CW	S3	04	127	100	0	0	0	227	0	227	0	0	0	0	227	0	0	0	0	0	227
0	80	IMPROVED TREATMENT STUDIES-CHANGE IN SCOPE	CW	S3	04	4	50	50	50	50	204	0	204	0	0	0	0	143	0	0	61	0	0	204
0	81	CONTROLLED SUBSTANCES ID AND ABATE-CHANGE IN SCOPE	CW	S3	02	25	125	125	0	0	275	0	275	0	0	0	0	275	0	0	0	0	0	275
Sub-total						360	275	175	50	50	910	250	1,160	0	0	0	0	1,079	0	0	81	0	0	1,160
<b>WAT906334 BUSINESS SYSTEM INFRASTRUCTURE - PW</b>																								
0	12	PCS LEGACY ALARM IMPROVEMENT	CW	S2	04	20	0	0	0	0	20	0	20	0	0	0	0	20	0	0	0	0	0	20



**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

**Water Program**

						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By												
Sub-Project No.	Project Name	Ward	Stat.	Cat.		2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable	Total Financing	
<u>WAT906340 METERING &amp; METER READING SYS</u>																								
0 20	AUTOMATED METER READING SYSTEM-CHANGE IN SCOPE	CW	S3	04		4,605	1,680	1,500	1,500	1,500	10,785	7,500	18,285	0	0	0	0	18,285	0	0	0	0	0	18,285
Sub-total						5,183	1,680	1,500	1,500	1,500	11,363	7,500	18,863	0	0	0	0	18,863	0	0	0	0	0	18,863
<u>WAT906468 HORGAN TRUNK MAIN EXPANSION</u>																								
0 44	DOWNSVIEW MAIN-KEELE PS TO DOWNSVIEW CONS	CW	S6	05		0	0	1,000	16,000	17,000	34,000	26,000	60,000	0	0	0	0	60,000	0	0	0	0	0	60,000
0 52	DOWNSVIEW MAIN (KEELE PS TO DOWNSVIEW) Engineering	CW	S2	05		1,240	1,100	1,700	700	700	5,440	980	6,420	0	0	2,586	0	3,834	0	0	0	0	0	6,420
0 53	DOWNSVIEW MAIN (KEELE PS TO DOWNSV-CHANGE IN SCOPE	CW	S3	05		-240	0	200	0	0	-40	100	60	0	0	3,894	0	-3,834	0	0	0	0	0	60
Sub-total						1,000	1,100	2,900	16,700	17,700	39,400	27,080	66,480	0	0	6,480	0	60,000	0	0	0	0	0	66,480
<u>WAT906470 ISLAND W.T.P. R&amp;R</u>																								
0 8	CHEMICAL & RESIDUALS MANAGMENT ENGINEERING	CW	S2	02		2,407	900	980	850	200	5,337	200	5,537	0	0	0	0	5,537	0	0	0	0	0	5,537
0 11	CHEMICAL & RESIDUALS MANAGEMENT CONST	CW	S2	02		1,530	15,000	18,000	7,400	0	41,930	0	41,930	0	0	2,551	0	39,379	0	0	0	0	0	41,930
0 34	CHEMICAL & RESIDUALS MANAGMENT ENG-CHANGE IN SCOPE	CW	S3	02		-1,517	659	183	430	929	684	167	851	0	0	0	0	851	0	0	0	0	0	851
0 35	CHEMICAL & RESIDUALS MANAGEMENT CO-CHANGE IN SCOPE	CW	S3	02		-1,500	-14,097	-3,000	10,600	7,400	-597	0	-597	0	0	3,564	0	-4,161	0	0	0	0	0	-597
Sub-total						920	2,462	16,163	19,280	8,529	47,354	367	47,721	0	0	6,115	0	41,606	0	0	0	0	0	47,721
<u>WAT906481 DISTRICT WATERMAINS - NEW</u>																								
0 1	NEW WATERMAIN	CW	S2	05		58	500	0	0	0	558	0	558	0	0	558	0	0	0	0	0	0	0	558
0 3	NEW WM - 10 YEAR	CW	S6	05		0	0	0	500	500	1,000	2,500	3,500	0	0	3,500	0	0	0	0	0	0	0	3,500
0 17	NEW WM -CHANGE IN SCOPE	CW	S3	05		-48	0	500	0	0	452	0	452	0	0	452	0	0	0	0	0	0	0	452
Sub-total						10	500	500	500	500	2,010	2,500	4,510	0	0	4,510	0	0	0	0	0	0	0	4,510
<u>WAT906483 PW ENGINEERING</u>																								
0 2	CAPITAL PROGRAMMING & FACILITY ASSET PLANNING	CW	S2	03		3,903	2,300	0	0	0	6,203	0	6,203	0	0	0	0	6,203	0	0	0	0	0	6,203
0 5	WATERMAIN ASSET PLANNING	CW	S2	03		2,839	2,050	1,055	1,100	1,120	8,164	675	8,839	0	0	2,195	0	3,145	0	0	3,499	0	0	8,839
0 7	EASEMENT ACQUISITION	CW	S2	04		690	0	0	0	0	690	0	690	0	0	0	0	690	0	0	0	0	0	690
0 22	WATER LOSS REDUCTION STRATEGY	CW	S2	03		889	429	1,000	1,000	1,000	4,318	0	4,318	0	0	0	0	4,318	0	0	0	0	0	4,318
0 37	ASSET MGMT SYSTEM IMPLEMENTATION	CW	S2	04		1,550	1,000	1,000	1,000	1,000	5,550	1,500	7,050	0	0	1,763	0	5,287	0	0	0	0	0	7,050
0 38	WATERMAIN ASSET PLANNING - 10 YEAR	CW	S6	04		0	0	75	235	475	785	2,375	3,160	0	0	792	0	2,368	0	0	0	0	0	3,160

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAT906483 PW ENGINEERING</u>																								
0	52	JOS UPDATE PHASE II	CW	S2	05	657	0	0	0	0	657	0	657	0	0	329	0	-1	0	0	329	0	0	657
0	53	EASEMENT ACQUISITION - 10 YEAR	CW	S6	04	0	0	0	500	500	1,000	2,500	3,500	0	0	0	0	3,500	0	0	0	0	0	3,500
0	76	WATERMAIN ASSET PLANNING-CHANGE IN SCOPE	CW	S3	03	-1,831	-45	365	265	50	-1,196	1,795	599	0	0	-770	0	1,133	0	0	236	0	0	599
0	77	CAPITAL PROGRAMMING & FACILITY ASS-CHANGE IN SCOPE	CW	S3	03	-2,585	33	4,140	2,000	1,000	4,588	0	4,588	0	0	0	0	4,588	0	0	0	0	0	4,588
0	78	JOS UPDATE PHASE II-CHANGE IN SCOPE	CW	S3	05	-301	100	0	0	0	-201	0	-201	0	0	-101	0	1	0	0	-101	0	0	-201
0	79	ASSET MGMT SYSTEM IMPLEMENTATION-CHANGE IN SCOPE	CW	S3	04	-1,300	0	0	0	0	-1,300	0	-1,300	0	0	-325	0	-975	0	0	0	0	0	-1,300
0	80	WATER LOSS REDUCTION STRATEGY-CHANGE IN SCOPE	CW	S3	03	-338	551	38	0	0	251	0	251	0	0	0	0	251	0	0	0	0	0	251
0	81	EASEMENT ACQUISITION-CHANGE IN SCOPE	CW	S3	04	114	500	500	0	0	1,114	0	1,114	0	0	0	0	1,114	0	0	0	0	0	1,114
Sub-total						4,287	6,918	8,173	6,100	5,145	30,623	8,845	39,468	0	0	3,883	0	31,622	0	0	3,963	0	0	39,468
<u>WAT906752 TRANSMISSION R&amp;R</u>																								
0	49	TRUNK WATERMAIN REHAB	CW	S2	03	260	320	250	250	0	1,080	0	1,080	0	0	0	0	1,080	0	0	0	0	0	1,080
0	50	TRUNK WATERMAIN REHAB	CW	S6	03	0	0	0	0	250	250	1,250	1,500	0	0	0	0	1,500	0	0	0	0	0	1,500
0	51	CAST IRON TRUNK REPLC - PHASE 2	CW	S2	03	512	213	0	0	0	725	0	725	0	0	0	0	725	0	0	0	0	0	725
0	52	CAST IRON TRUNK REPLC - PHASE 3 - ENGINEERING	CW	S2	03	1,051	707	0	0	0	1,758	0	1,758	0	0	0	0	1,758	0	0	0	0	0	1,758
0	58	CAST IRON TRUNK REPLC - PHASE 3 - CONSTRUCTION	CW	S2	03	1,500	0	0	0	0	1,500	0	1,500	0	0	0	0	1,500	0	0	0	0	0	1,500
0	82	CAST IRON TRUNK REPLC - PHASE 3 - CHANGE IN SCOPE	CW	S3	03	-325	119	0	0	0	-206	0	-206	0	0	0	0	-206	0	0	0	0	0	-206
0	83	TRUNK WATERMAIN REHAB-CHANGE IN SCOPE	CW	S3	03	150	100	150	150	400	950	2,000	2,950	0	0	0	0	2,950	0	0	0	0	0	2,950
0	84	CAST IRON TRUNK REPLC - PHASE 2-CHANGE IN SCOPE	CW	S3	03	-48	57	110	0	0	119	0	119	0	0	0	0	119	0	0	0	0	0	119
0	85	CAST IRON TRUNK REPLC - PHASE 3 - CHANGE IN SCOPE	CW	S3	03	-990	1,000	0	0	0	10	0	10	0	0	0	0	10	0	0	0	0	0	10
Sub-total						2,110	2,516	510	400	650	6,186	3,250	9,436	0	0	0	0	9,436	0	0	0	0	0	9,436
<u>WAT906900 TRANSMISSION R&amp;R</u>																								
0	1	TRANS FACILITIES REHAB	CW	S2	03	750	750	750	750	0	3,000	0	3,000	0	0	0	0	3,000	0	0	0	0	0	3,000
0	7	RESERVOIR REHAB - FUTURE	CW	S6	03	0	0	0	0	150	150	6,950	7,100	0	0	0	0	7,100	0	0	0	0	0	7,100
0	36	ST CLAIR RESERVOIR REHAB/WATER QUALITY PROTECTION	CW	S2	03	6,949	980	17	0	0	7,946	0	7,946	0	0	0	0	7,946	0	0	0	0	0	7,946

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAT906900 TRANSMISSION R&amp;R</b>																								
0	43	DOWNSVIEW PS - Construction	CW	S6	05	0	0	1,000	2,000	3,000	6,000	0	6,000	0	0	0	0	6,000	0	0	0	0	0	6,000
0	44	PUMPING STATION REHAB - Engineering	CW	S4	03	100	500	900	860	1,060	3,420	7,200	10,620	0	0	0	0	10,620	0	0	0	0	0	10,620
0	45	PUMPING STATION REHAB - Construction	CW	S6	03	0	50	4,500	5,000	2,700	12,250	40,350	52,600	0	0	0	0	52,600	0	0	0	0	0	52,600
0	48	ROSEHILL RESERVOIR	CW	S2	03	12,525	16,725	8,325	17	17	37,609	0	37,609	0	0	0	0	37,609	0	0	0	0	0	37,609
0	49	DOWNSVIEW PS & CONNECTOR EA	CW	S2	05	142	0	0	0	0	142	0	142	0	0	55	0	87	0	0	0	0	0	142
0	50	PARKDALE PS REHABILITATION	CW	S2	03	2,722	197	8	0	0	2,927	0	2,927	0	0	0	0	2,927	0	0	0	0	0	2,927
0	51	ROSEHILL PS REHAB	CW	S2	03	2,722	48	50	0	0	2,820	0	2,820	0	0	0	0	2,820	0	0	0	0	0	2,820
0	67	PUMP REPLACEMENTS	CW	S2	03	1,050	0	0	0	0	1,050	0	1,050	0	0	0	0	1,050	0	0	0	0	0	1,050
0	70	TRANS FACILITIES REHAB - 10 YEAR	CW	S6	03	0	0	0	0	0	0	3,400	3,400	0	0	0	0	3,400	0	0	0	0	0	3,400
0	72	RESERVOIR REHAB - PHASE 2 - ENG	CW	S2	03	500	688	580	10	7	1,785	0	1,785	0	0	0	0	1,785	0	0	0	0	0	1,785
0	74	PS REHAB - PHASE 2 - ENG	CW	S2	03	1,528	1,216	950	24	24	3,742	0	3,742	0	0	0	0	3,742	0	0	0	0	0	3,742
0	91	SCARBOROUGH RESERVOIR SURGE TANK	CW	S4	03	125	400	4,600	4,200	550	9,875	125	10,000	0	0	0	0	10,000	0	0	0	0	0	10,000
0	92	RESERVOIR REHAB - PHASE 2 - CONSTRUCTION	CW	S6	03	0	1,500	9,500	8,000	0	19,000	0	19,000	0	0	0	0	19,000	0	0	0	0	0	19,000
0	93	RESERVOIR REHAB - FUTURE - CONSTRUCTION	CW	S6	03	0	0	0	0	0	0	35,500	35,500	0	0	0	0	35,500	0	0	0	0	0	35,500
0	94	PS REHAB - PHASE 2 - CONSTRUCTION	CW	S2	03	4,040	10,950	6,500	0	0	21,490	0	21,490	0	0	0	0	21,490	0	0	0	0	0	21,490
0	96	DOWNSVIEW PS & CONNECTOR EA-CHANGE IN SCOPE	CW	S3	05	-140	165	0	0	0	25	0	25	0	0	112	0	-87	0	0	0	0	0	25
0	97	TRANS FACILITIES REHAB-CHANGE IN SCOPE	CW	S3	03	450	100	100	100	850	1,600	1,200	2,800	0	0	0	0	2,800	0	0	0	0	0	2,800
0	98	ST CLAIR RESERVOIR REHAB/WATER QUA-CHANGE IN SCOPE	CW	S3	03	-1,649	2,049	0	7	0	407	0	407	0	0	0	0	407	0	0	0	0	0	407
0	99	PARKDALE PS REHABILITATION-CHANGE IN SCOPE	CW	S3	03	-277	443	0	0	0	166	0	166	0	0	0	0	166	0	0	0	0	0	166
0	100	ROSEHILL RESERVOIR-CHANGE IN SCOPE	CW	S3	03	-3,728	-6,210	1,210	20	0	-8,708	0	-8,708	0	0	0	0	-8,708	0	0	0	0	0	-8,708
0	101	ELEVATED TANKS REPLACEMENT	CW	S6	03	0	0	0	0	0	0	1,075	1,075	0	0	0	0	1,075	0	0	0	0	0	1,075
0	103	ROSEHILL PS REHAB-CHANGE IN SCOPE	CW	S3	03	-1,258	1,149	240	0	0	131	0	131	0	0	0	0	131	0	0	0	0	0	131
0	104	RESERVOIR REHAB - PHASE 2 - ENG-CHANGE IN SCOPE	CW	S3	03	-150	-347	-180	460	3	-214	7	-207	0	0	0	0	-207	0	0	0	0	0	-207
0	105	PS REHAB - PHASE 2 - ENG-CHANGE IN SCOPE	CW	S3	03	-728	-180	-124	929	1	-102	0	-102	0	0	0	0	-102	0	0	0	0	0	-102



**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAT906900 TRANSMISSION R&amp;R</u>																								
0	106	PS REHAB - PHASE 2 - CONSTRUCTION-CHANGE IN SCOPE	CW	S3	03	-3,240	-7,250	4,000	6,500	0	10	0	10	0	0	0	0	10	0	0	0	0	0	10
0	107	PUMP REPLACEMENTS-CHANGE IN SCOPE	CW	S3	03	-150	1,300	0	0	0	1,150	0	1,150	0	0	0	0	1,150	0	0	0	0	0	1,150
Sub-total						22,283	25,223	42,926	28,877	8,362	127,671	95,807	223,478	0	0	167	0	223,311	0	0	0	0	0	223,478
<u>WAT906902 HARRIS W.T.P. R&amp;R</u>																								
0	3	FACILITY & PROCESS UPGRADES	CW	S2	03	500	500	500	500	0	2,000	0	2,000	0	0	0	0	2,000	0	0	0	0	0	2,000
0	21	HVAC REHAB CONSTRUCTION	CW	S2	03	5,492	4,241	0	0	0	9,733	0	9,733	0	0	0	0	9,733	0	0	0	0	0	9,733
0	29	HARRIS FILTERS REHABILITATION - PILOT	CW	S2	03	6,250	948	24	0	0	7,222	0	7,222	0	0	0	0	7,222	0	0	0	0	0	7,222
0	56	REHAB OF SETTLING BASIN ROOF & SLUICE GATES	CW	S2	03	510	10	13	0	0	533	0	533	0	0	0	0	533	0	0	0	0	0	533
0	70	FILTER MEDIA UPGRADE - FUTURE	CW	S6	03	0	150	0	150	0	300	0	300	0	0	0	0	300	0	0	0	0	0	300
0	71	FACILITY & PROCESS UPGRADES - FUTURE	CW	S6	03	0	0	0	0	500	500	2,500	3,000	0	0	0	0	3,000	0	0	0	0	0	3,000
0	79	EXTERIOR SECURITY LIGHTING UPGRADES	CW	S2	03	0	100	550	550	0	1,200	0	1,200	0	0	0	0	1,200	0	0	0	0	0	1,200
0	80	FACILITY INFRASTRUCTURE REHAB	CW	S4	03	900	1,800	0	0	0	2,700	0	2,700	0	0	0	0	2,700	0	0	0	0	0	2,700
0	81	LIQUID CHEMICAL SYSTEM IMPROVEMENTS	CW	S2	04	3,282	7	0	0	0	3,289	0	3,289	0	0	0	0	3,289	0	0	0	0	0	3,289
0	85	HARRIS FILTERS REHABILITATION	CW	S6	03	0	0	0	450	500	950	44,550	45,500	0	0	0	0	45,500	0	0	0	0	0	45,500
0	98	HERITAGE MASONRY AND ARCHITECTURAL RESTORATION	CW	S2	03	200	200	200	200	0	800	0	800	0	0	0	0	800	0	0	0	0	0	800
0	99	CONTROL ROOM RELOCATION	CW	S2	04	1,345	204	0	0	0	1,549	0	1,549	0	0	0	0	1,549	0	0	0	0	0	1,549
0	100	EMERGENCY STANDBY POWER	CW	S2	04	2,339	347	0	0	0	2,686	0	2,686	0	0	0	0	2,686	0	0	0	0	0	2,686
0	102	PHONE SYSTEM UPGRADE	CW	S2	03	0	70	510	0	0	580	0	580	0	0	0	0	580	0	0	0	0	0	580
0	106	BUILDING ENVELOPE REHAB	CW	S2	03	136	0	0	0	0	136	0	136	0	0	0	0	136	0	0	0	0	0	136
0	112	TRAVELLING SCREENS 3 & 5 UPGRADE	CW	S2	03	0	300	450	0	0	750	0	750	0	0	0	0	750	0	0	0	0	0	750
0	119	ENERGY OPTIMIZATION	CW	S2	04	1,170	1,000	0	0	0	2,170	0	2,170	0	0	0	0	2,170	0	0	0	0	0	2,170
0	132	EMERGENCY STANDBY POWER-CHANGE IN SCOPE	CW	S3	04	-1,725	2,732	134	0	0	1,141	0	1,141	0	0	0	0	1,141	0	0	0	0	0	1,141
0	133	CONTROL ROOM RELOCATION-CHANGE IN SCOPE	CW	S3	04	-726	108	725	0	0	107	0	107	0	0	0	0	107	0	0	0	0	0	107
0	134	BUILDING ENVELOPE REHAB-CHANGE IN SCOPE	CW	S3	03	-136	0	0	0	0	-136	0	-136	0	0	0	0	-136	0	0	0	0	0	-136

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAT906902 HARRIS W.T.P. R&amp;R</u>																									
0	135	HARRIS FILTERS REHABILITATION - PI-CHANGE IN SCOPE	CW	S3	03	-5,200	4,822	5,751	1,050	24	6,447	0	6,447	0	0	0	0	6,447	0	0	0	0	0	6,447	
0	136	LIQUID CHEMICAL SYSTEM IMPROVEMENT-CHANGE IN SCOPE	CW	S3	04	-2,856	565	0	0	0	-2,291	0	-2,291	0	0	0	0	-2,291	0	0	0	0	0	-2,291	
0	137	FACILITY & PROCESS UPGRADES-CHANGE IN SCOPE	CW	S3	03	139	103	55	56	0	353	0	353	0	0	0	0	353	0	0	0	0	0	353	
0	138	HVAC REHAB CONSTRUCTION-CHANGE IN SCOPE	CW	S3	03	-4,854	-116	4,035	121	0	-814	0	-814	0	0	0	0	-814	0	0	0	0	0	-814	
0	139	REHAB OF SETTLING BASIN ROOF & SLU-CHANGE IN SCOPE	CW	S3	03	-339	150	0	0	0	-189	0	-189	0	0	0	0	-189	0	0	0	0	0	-189	
0	140	EXTERIOR SECURITY LIGHTING UPGRADE-CHANGE IN SCOPE	CW	S3	03	0	-100	-550	-450	550	-550	550	0	0	0	0	0	0	0	0	0	0	0	0	
0	141	TRAVELLING SCREENS 3 & 5 UPGRADE-CHANGE IN SCOPE	CW	S3	03	0	-300	-450	300	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	142	PHONE SYSTEM UPGRADE-CHANGE IN SCOPE	CW	S3	03	0	-70	-440	510	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	143	ENERGY OPTIMIZATION-CHANGE IN SCOPE	CW	S3	04	-890	890	5	0	0	5	0	5	0	0	0	0	5	0	0	0	0	0	5	
Sub-total						5,537	18,661	11,512	3,437	2,024	41,171	47,600	88,771	0	0	0	0	88,771	0	0	0	0	0	88,771	
<u>WAT906903 FJ HORGAN W.T.P. R&amp;R</u>																									
0	5	FACILITY & PROCESS UPGRADES	CW	S2	03	1,174	550	200	200	0	2,124	0	2,124	0	0	0	0	2,124	0	0	0	0	0	2,124	
0	8	RAW WATER PUMP UGRADES	CW	S2	03	321	0	0	0	0	321	0	321	0	0	0	0	321	0	0	0	0	0	321	
0	15	REPLACEMENT OF MCCS	CW	S2	03	533	297	50	3	0	883	0	883	0	0	0	0	883	0	0	0	0	0	883	
0	28	FACILITY & PROCESS UPGRADES - FUTURE	CW	S6	03	0	0	0	0	200	200	1,000	1,200	0	0	0	0	1,200	0	0	0	0	0	1,200	
0	31	BUILDING FIRE, HVAC, LIGHTING UPGRADES	CW	S2	04	1,455	1,635	1,010	0	0	4,100	0	4,100	0	0	0	0	4,100	0	0	0	0	0	4,100	
0	32	ELEC GROUNDING SYSTEM & BULK CHEM UNLOADING IMPRO	CW	S2	04	679	690	0	0	0	1,369	0	1,369	0	0	0	0	1,369	0	0	0	0	0	1,369	
0	33	OFFICE RENOVATION	CW	S6	03	0	100	675	575	475	1,825	4	1,829	0	0	0	0	1,829	0	0	0	0	0	1,829	
0	34	TREATED WATER PUMP UPGRADES	CW	S2	04	203	0	0	0	0	203	0	203	0	0	0	0	203	0	0	0	0	0	203	
0	65	TREATED WATER PUMP UPGRADES-CHANGE IN SCOPE	CW	S3	04	-86	0	0	0	0	-86	0	-86	0	0	0	0	-86	0	0	0	0	0	-86	
0	66	FACILITY & PROCESS UPGRADES-CHANGE IN SCOPE	CW	S3	03	-1,011	-207	230	531	150	-307	0	-307	0	0	0	0	-307	0	0	0	0	0	-307	
0	67	ELEC GROUNDING SYSTEM & BULK CHEM-CHANGE IN SCOPE	CW	S3	04	-504	-290	1,910	540	10	1,666	11	1,677	0	0	0	0	1,677	0	0	0	0	0	1,677	
0	68	BUILDING FIRE, HVAC, LIGHTING UPGR-CHANGE IN SCOPE	CW	S3	04	-1,305	-1,285	-560	0	750	-2,400	1,000	-1,400	0	0	0	0	-1,400	0	0	0	0	0	-1,400	
0	69	REPLACEMENT OF MCCS-CHANGE IN SCOPE	CW	S3	03	-233	321	-19	-3	0	66	0	66	0	0	0	0	66	0	0	0	0	0	66	

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAT906903 FJ HORGAN W.T.P. R&amp;R</u>																									
0	70	RAW WATER PUMP UGRADES-CHANGE IN SCOPE	CW	S3	03	-200	640	145	15	0	600	0	600	0	0	0	0	600	0	0	0	0	0	600	
Sub-total						1,026	2,451	3,641	1,861	1,585	10,564	2,015	12,579	0	0	0	0	12,579	0	0	0	0	0	12,579	
<u>WAT906906 TRUNK WATERMAIN EXPANSION</u>																									
0	25	JOS WM SCAR PS TO ST CLAIR AND MIDLAND - ENG	CW	S2	05	801	610	436	0	0	1,847	0	1,847	0	0	877	0	550	0	0	420	0	0	1,847	
0	66	JOS - WM Scar PS to St. Clair&Midland (CONST)	CW	S2	05	21,393	19,000	2,000	0	0	42,393	0	42,393	0	0	20,124	0	12,637	0	0	9,632	0	0	42,393	
0	72	JOS WM SCAR PS TO ST CLAIR AND MID-CHANGE IN SCOPE	CW	S3	05	-276	-85	-103	9	0	-455	0	-455	0	0	-317	0	-34	0	0	-104	0	0	-455	
0	73	JOS - WM Scar PS to St. Clair&Midl-CHANGE IN SCOPE	CW	S3	05	-13,393	-5,000	11,982	0	0	-6,411	0	-6,411	0	0	-5,664	0	709	0	0	-1,456	0	0	-6,411	
Sub-total						8,525	14,525	14,315	9	0	37,374	0	37,374	0	0	15,020	0	13,862	0	0	8,492	0	0	37,374	
<u>WAT906914 SWITCH GEAR TRANSFORMER</u>																									
0	13	INDOOR/OUTDOOR SWITCHGEAR (PHASE 3)	CW	S2	03	1,169	0	0	0	0	1,169	0	1,169	0	0	0	0	1,169	0	0	0	0	0	1,169	
0	29	INDOOR/OUTDOOR SWITCHGEAR (PHASE 4)	CW	S2	03	1,104	6,250	5,250	5,250	5,250	23,104	2,675	25,779	0	0	0	0	25,779	0	0	0	0	0	25,779	
0	32	INDOOR/OUTDOOR SWITCHGEAR (PHASE 3-CHANGE IN SCOPE)	CW	S3	03	-1,109	1,113	0	0	0	4	0	4	0	0	0	0	4	0	0	0	0	0	4	
0	33	INDOOR/OUTDOOR SWITCHGEAR (PHASE 4-CHANGE IN SCOPE)	CW	S3	03	-704	-360	100	100	100	-764	-15	-779	0	0	0	0	-779	0	0	0	0	0	-779	
Sub-total						460	7,003	5,350	5,350	5,350	23,513	2,660	26,173	0	0	0	0	26,173	0	0	0	0	0	26,173	
<u>WAT906918 WATER SUSTAINABILITY PROGRAM</u>																									
0	1	WATER SUSTAINABILITY PROGRAM	CW	S2	04	7,836	3,382	0	0	0	11,218	0	11,218	0	0	740	0	7,102	0	0	3,376	0	0	11,218	
0	12	STANDBY POWER - ROSEHILL	CW	S2	04	6,036	43	33	14	0	6,126	0	6,126	0	0	416	0	3,872	0	0	1,838	0	0	6,126	
0	23	WATER SUSTAINABILITY PROGRAM-CHANGE IN SCOPE	CW	S3	04	-6,486	2,195	5,457	3,997	10	5,173	0	5,173	0	0	955	0	2,660	0	0	1,558	0	0	5,173	
0	24	STANDBY POWER - ROSEHILL-CHANGE IN SCOPE	CW	S3	04	-2,883	3,175	-19	0	0	273	0	273	0	0	246	0	-54	0	0	81	0	0	273	
Sub-total						4,503	8,795	5,471	4,011	10	22,790	0	22,790	0	0	2,357	0	13,580	0	0	6,853	0	0	22,790	
<u>WAT906919 RL CLARK W.T.P. R&amp;R</u>																									
0	1	FACILITY & PROCESS UPGRADES	CW	S2	03	200	200	200	200	0	800	0	800	0	0	0	0	800	0	0	0	0	0	800	
0	8	PROCESS EQUIPMENT UPGRADE ENGINEERING	CW	S2	03	69	1,780	60	35	0	1,944	0	1,944	0	0	118	0	1,826	0	0	0	0	0	1,944	
0	12	FACILITY & PROCESS UPGRADES - FUTURE	CW	S6	03	0	0	0	0	200	200	1,000	1,200	0	0	0	0	1,200	0	0	0	0	0	1,200	
0	15	PROCESS EQUIPMENT UPGRADE CONSTRUCTION	CW	S2	03	7,721	2,500	0	0	0	10,221	0	10,221	0	0	621	0	9,600	0	0	0	0	0	10,221	

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By												
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAT906919 RL CLARK W.T.P. R&amp;R</u>																								
0	44	EVACUATION AND COMMUNICATION SYSTEMS	CW	S2	03	112	0	0	0	0	112	0	112	0	0	0	0	112	0	0	0	0	0	112
0	76	PROCESS EQUIPMENT UPGRADE CONSTRUC-CHANGE IN SCOPE	CW	S3	03	-693	1,000	0	0	0	307	0	307	0	0	937	0	-630	0	0	0	0	0	307
0	77	PROCESS EQUIPMENT UPGRADE ENGINEER-CHANGE IN SCOPE	CW	S3	03	602	-592	0	0	0	10	0	10	0	0	171	0	-161	0	0	0	0	0	10
0	78	FACILITY & PROCESS UPGRADES-CHANGE IN SCOPE	CW	S3	03	51	53	55	56	0	215	0	215	0	0	0	0	215	0	0	0	0	0	215
0	79	EVACUATION AND COMMUNICATION SYSTE-CHANGE IN SCOPE	CW	S3	03	-112	0	0	0	0	-112	0	-112	0	0	0	0	-112	0	0	0	0	0	-112
Sub-total						7,950	4,941	315	291	200	13,697	1,000	14,697	0	0	1,847	0	12,850	0	0	0	0	0	14,697
<u>WAT906930 DIST W/M REPLACEMENT</u>																								
0	4	10 YEAR WATERMAIN REPLACEMENT	CW	S6	03	0	0	0	73,500	95,000	168,500	475,000	643,500	0	0	0	0	643,500	0	0	0	0	0	643,500
0	21	2011 WM REPLC	CW	S2	03	3	0	0	0	0	3	0	3	0	0	0	0	3	0	0	0	0	0	3
0	29	DIST W/M REPLC - 2012	CW	S2	03	147	0	0	0	0	147	0	147	0	0	0	0	147	0	0	0	0	0	147
0	42	10 YEAR WATERMAIN UPGRADES	CW	S6	05	0	0	0	13,300	17,500	30,800	91,500	122,300	0	0	0	0	122,300	0	0	0	0	0	122,300
0	51	DIST W/M REPLACEMENT - 2014	CW	S2	03	365	0	0	0	0	365	0	365	0	0	57	0	308	0	0	0	0	0	365
0	55	WATERMAIN REPLACEMENT - METROLINX	CW	S2	03	1,090	1,796	2,456	0	0	5,342	0	5,342	0	0	0	0	5,342	0	0	0	0	0	5,342
0	59	2013 WM REPLC - UPGRADES	CW	S2	05	101	0	0	0	0	101	0	101	0	0	31	0	70	0	0	0	0	0	101
0	63	DIST W/M REPLACEMENT - 2015	CW	S2	03	2,317	0	0	0	0	2,317	0	2,317	0	0	344	0	1,973	0	0	0	0	0	2,317
0	64	WATERMAIN UPGRADES - 2015	CW	S2	05	390	0	0	0	0	390	0	390	0	0	124	0	266	0	0	0	0	0	390
0	73	DIST W/M REPLACEMENT - 2016	CW	S2	03	8,933	0	0	0	0	8,933	0	8,933	0	0	1,371	0	7,562	0	0	0	0	0	8,933
0	74	WATERMAIN UPGRADES - 2016	CW	S2	05	2,706	0	0	0	0	2,706	0	2,706	0	0	857	0	1,849	0	0	0	0	0	2,706
0	83	DIST W/M REPLACEMENT - 2017	CW	S2	03	8,289	15	0	0	0	8,304	0	8,304	0	0	1,230	0	7,074	0	0	0	0	0	8,304
0	84	WATERMAIN UPGRADES - 2017	CW	S2	05	1,188	0	0	0	0	1,188	0	1,188	0	0	376	0	812	0	0	0	0	0	1,188
0	85	DIST W/M REPLACEMENT - 2018	CW	S2	03	52,339	11,690	928	0	0	64,957	0	64,957	0	0	9,264	0	55,693	0	0	0	0	0	64,957
0	86	WATERMAIN UPGRADES - 2018	CW	S2	05	14,303	2,921	0	0	0	17,224	0	17,224	0	0	5,789	0	11,435	0	0	0	0	0	17,224
0	110	DIST W/M REPLACEMENT - 2019	CW	S2	03	55,201	18,616	8,466	253	0	82,536	0	82,536	0	0	12,834	0	69,702	0	0	0	0	0	82,536
0	111	WATERMAIN UPGRADES - 2019	CW	S2	05	24,014	8,368	3,688	72	0	36,142	0	36,142	0	0	11,243	0	24,899	0	0	0	0	0	36,142

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAT906930 DIST W/M REPLACEMENT</u>																							
0 112	DIST W/M REPLACEMENT - 2014-CHANGE IN SCOPE	CW	S3	03	-350	324	0	0	0	-26	0	-26	0	0	-31	0	5	0	0	0	0	0	-26
0 113	DIST W/M REPLACEMENT - 2015-CHANGE IN SCOPE	CW	S3	03	-2,100	2,153	0	0	0	53	0	53	0	0	-162	0	215	0	0	0	0	0	53
0 114	DIST W/M REPLACEMENT - 2017-CHANGE IN SCOPE	CW	S3	03	-7,519	7,312	0	0	0	-207	0	-207	0	0	-608	0	401	0	0	0	0	0	-207
0 115	DIST W/M REPLACEMENT - 2018-CHANGE IN SCOPE	CW	S3	03	-22,804	11,182	7,179	105	0	-4,338	0	-4,338	0	0	-4,605	0	267	0	0	0	0	0	-4,338
0 116	DIST W/M REPLACEMENT - 2019-CHANGE IN SCOPE	CW	S3	03	-20,817	71,667	97,160	29,461	6,130	183,601	0	183,601	0	0	-7,030	0	190,631	0	0	0	0	0	183,601
0 117	WATERMAIN UPGRADES - 2015-CHANGE IN SCOPE	CW	S3	05	-320	321	0	0	0	1	0	1	0	0	72	0	-71	0	0	0	0	0	1
0 118	WATERMAIN UPGRADES - 2016-CHANGE IN SCOPE	CW	S3	05	-2,601	616	0	0	0	-1,985	0	-1,985	0	0	-496	0	-1,489	0	0	0	0	0	-1,985
0 119	WATERMAIN UPGRADES - 2017-CHANGE IN SCOPE	CW	S3	05	-1,156	289	0	0	0	-867	0	-867	0	0	-215	0	-652	0	0	0	0	0	-867
0 120	DIST W/M REPLACEMENT - 2016-CHANGE IN SCOPE	CW	S3	03	-8,536	3,991	0	0	0	-4,545	0	-4,545	0	0	-1,033	0	-3,512	0	0	0	0	0	-4,545
0 121	WATERMAIN UPGRADES - 2018-CHANGE IN SCOPE	CW	S3	05	-5,262	4,368	0	0	0	-894	0	-894	0	0	2,377	0	-3,271	0	0	0	0	0	-894
0 122	WATERMAIN UPGRADES - 2019-CHANGE IN SCOPE	CW	S3	05	-7,793	10,832	18,831	4,773	2,434	29,077	0	29,077	0	0	6,264	0	22,813	0	0	0	0	0	29,077
0 123	2013 WM REPLC - UPGRADES-CHANGE IN SCOPE	CW	S3	05	-101	0	0	0	0	-101	0	-101	0	0	-31	0	-70	0	0	0	0	0	-101
0 124	DIST W/M REPLC - 2012-CHANGE IN SCOPE	CW	S3	03	-10	0	0	0	0	-10	0	-10	0	0	0	0	-10	0	0	0	0	0	-10
0 127	WATERMAIN REPLACEMENT - METROLINX-CHANGE IN SCOPE	CW	S3	03	-400	114	460	20	0	194	0	194	0	0	0	0	194	0	0	0	0	0	194
0 130	2011 WM REPLC-CHANGE IN SCOPE	CW	S3	03	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1
Sub-total					91,618	156,575	139,168	121,484	121,064	629,909	566,500	1,196,409	0	0	38,022	0	01,158,387	0	0	0	0	0	1,196,409
<u>WAT906932 DIST W/M REHABILITATION</u>																							
0 3	10 YEAR WATERMAIN REHABILITATION	CW	S6	03	0	1,500	54,000	69,000	70,300	194,800	335,600	530,400	0	0	0	0	530,400	0	0	0	0	0	530,400
0 4	HYDRANT & VALVE REPAIR	CW	S2	03	1,568	0	0	0	0	1,568	0	1,568	0	0	0	0	1,568	0	0	0	0	0	1,568
0 6	WATERMAIN STRUCTURAL LINING	CW	S2	03	68,624	18,594	239	175	0	87,632	0	87,632	0	0	0	0	87,632	0	0	0	0	0	87,632
0 7	CATHODIC PROTECTION	CW	S2	03	7,162	500	0	0	0	7,662	0	7,662	0	0	0	0	7,662	0	0	0	0	0	7,662
0 30	CUT REPAIR	CW	S2	03	3,549	0	0	0	0	3,549	0	3,549	0	0	0	0	3,549	0	0	0	0	0	3,549
0 34	CUT REPAIR - FUTURE	CW	S6	03	0	142	296	1,260	1,260	2,958	6,300	9,258	0	0	0	0	9,258	0	0	0	0	0	9,258
0 59	PRV INSPECTION & RENEWAL	CW	S2	03	1,600	565	0	0	0	2,165	0	2,165	0	0	0	0	2,165	0	0	0	0	0	2,165

**CITY OF TORONTO**

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**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAT906932 DIST W/M REHABILITATION</u>																							
0 60	INFRASTRUCTURE REHAB & UPGRADES - METROLINX	CW	S2	03	75	75	75	0	0	225	0	225	0	0	0	0	225	0	0	0	0	0	225
0 61	WATERMAIN STRUCTURAL LINING-CHANGE IN SCOPE	CW	S3	03	-20,106	37,385	25,560	0	0	42,839	0	42,839	0	0	0	0	42,839	0	0	0	0	0	42,839
0 62	PRV INSPECTION & RENEWAL-CHANGE IN SCOPE	CW	S3	03	-1,110	1,140	0	0	0	30	0	30	0	0	0	0	30	0	0	0	0	0	30
0 63	HYDRANT & VALVE REPAIR-CHANGE IN SCOPE	CW	S3	03	-368	930	0	0	0	562	0	562	0	0	0	0	562	0	0	0	0	0	562
0 64	CUT REPAIR-CHANGE IN SCOPE	CW	S3	03	-1,455	2,584	2,584	445	0	4,158	0	4,158	0	0	0	0	4,158	0	0	0	0	0	4,158
0 65	CATHODIC PROTECTION-CHANGE IN SCOPE	CW	S3	03	-3,520	4,756	300	300	0	1,836	0	1,836	0	0	0	0	1,836	0	0	0	0	0	1,836
Sub-total					56,019	68,171	83,054	71,180	71,560	349,984	341,900	691,884	0	0	0	0	691,884	0	0	0	0	0	691,884
<u>WAT906934 DIST WATER SERVICE REPAIR</u>																							
0 4	10 YR WATER SERVICE REPAIR - LEAD PROGRAM	CW	S6	02	0	0	1,300	3,000	9,750	14,050	48,750	62,800	0	0	0	0	62,800	0	0	0	0	0	62,800
0 6	10 YR WATER SERVICE REPAIR - SOGR	CW	S6	02	0	0	0	10,000	15,000	25,000	90,000	115,000	0	0	0	0	115,000	0	0	0	0	0	115,000
0 12	WATER SERVICE REPAIR - LEAD PROGRAM	CW	S2	02	12,606	4,901	1	0	0	17,508	0	17,508	0	0	0	0	17,508	0	0	0	0	0	17,508
0 32	WSR CUT REPAIR	CW	S2	03	1,613	0	0	0	0	1,613	0	1,613	0	0	0	0	1,613	0	0	0	0	0	1,613
0 39	2012 WATER SERVICE REPLC - SOGR	CW	S2	02	60	0	0	0	0	60	0	60	0	0	0	0	60	0	0	0	0	0	60
0 41	2013 WATER SERVICE REPAIR	CW	S2	02	140	0	0	0	0	140	0	140	0	0	0	0	140	0	0	0	0	0	140
0 45	WSR CUT REPAIR - FUTURE	CW	S6	02	0	797	1,098	6,496	6,496	14,887	32,480	47,367	0	0	0	0	47,367	0	0	0	0	0	47,367
0 52	2014 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	148	0	0	0	0	148	0	148	0	0	0	0	148	0	0	0	0	0	148
0 59	2015 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	865	0	0	0	0	865	0	865	0	0	0	0	865	0	0	0	0	0	865
0 68	2016 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	3,992	0	0	0	0	3,992	0	3,992	0	0	0	0	3,992	0	0	0	0	0	3,992
0 71	WATER SERVICE REPAIR - WM REHAB PROGRAM	CW	S2	02	19,035	4,000	2,000	0	0	25,035	0	25,035	0	0	0	0	25,035	0	0	0	0	0	25,035
0 72	10 YR WATER SERVICE REPAIR - WITH WM SL	CW	S6	02	0	0	4,000	8,000	10,000	22,000	50,000	72,000	0	0	0	0	72,000	0	0	0	0	0	72,000
0 73	WATER SERVICE REPLACEMENT - TUNNEL	CW	S6	02	0	0	50	2,000	2,000	4,050	3,500	7,550	0	0	0	0	7,550	0	0	0	0	0	7,550
0 74	REPLACEMENT OF FROZEN SERVICES	CW	S2	02	240	0	0	0	0	240	0	240	0	0	0	0	240	0	0	0	0	0	240
0 75	WSR CUT REPAIRS WITH WM SL	CW	S2	02	1,613	0	0	0	0	1,613	0	1,613	0	0	0	0	1,613	0	0	0	0	0	1,613
0 78	2011 WATER SERVICE REPAIR	CW	S2	02	12	0	0	0	0	12	0	12	0	0	0	0	12	0	0	0	0	0	12

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**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAT906934 DIST WATER SERVICE REPAIR</u>																								
0	84	2017 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	6,374	0	0	0	0	6,374	0	6,374	0	0	0	0	6,374	0	0	0	0	0	6,374
0	85	2018 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	10,000	3,000	0	0	0	13,000	0	13,000	0	0	0	0	13,000	0	0	0	0	0	13,000
0	108	2019 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	10,000	7,000	3,000	0	0	20,000	0	20,000	0	0	0	0	20,000	0	0	0	0	0	20,000
0	109	2015 WATER SERVICE REPLACEMENT - S-CHANGE IN SCOPE	CW	S3	02	-733	1,019	0	0	0	286	0	286	0	0	0	0	286	0	0	0	0	0	286
0	110	2016 WATER SERVICE REPLACEMENT - S-CHANGE IN SCOPE	CW	S3	02	-3,424	3,436	0	0	0	12	0	12	0	0	0	0	12	0	0	0	0	0	12
0	111	2017 WATER SERVICE REPLACEMENT - S-CHANGE IN SCOPE	CW	S3	02	-5,472	2,917	0	0	0	-2,555	0	-2,555	0	0	0	0	-2,555	0	0	0	0	0	-2,555
0	112	2018 WATER SERVICE REPLACEMENT - S-CHANGE IN SCOPE	CW	S3	02	-5,449	3,271	4,252	0	0	2,074	0	2,074	0	0	0	0	2,074	0	0	0	0	0	2,074
0	113	2019 WATER SERVICE REPLACEMENT - S-CHANGE IN SCOPE	CW	S3	02	-5,000	12,000	20,000	8,000	3,000	38,000	0	38,000	0	0	0	0	38,000	0	0	0	0	0	38,000
0	114	WATER SERVICE REPAIR - LEAD PROGRA-CHANGE IN SCOPE	CW	S3	02	-4,410	6,396	5,749	4,050	0	11,785	0	11,785	0	0	0	0	11,785	0	0	0	0	0	11,785
0	115	2012 WATER SERVICE REPLC - SOGR-CHANGE IN SCOPE	CW	S3	02	-60	0	0	0	0	-60	0	-60	0	0	0	0	-60	0	0	0	0	0	-60
0	116	WSR CUT REPAIR-CHANGE IN SCOPE	CW	S3	03	3,502	7,854	7,854	675	0	19,885	0	19,885	0	0	0	0	19,885	0	0	0	0	0	19,885
0	117	2013 WSR-CHANGE IN SCOPE	CW	S3	02	-133	0	0	0	0	-133	0	-133	0	0	0	0	-133	0	0	0	0	0	-133
0	118	WATER SERVICE REPAIR - WM REHAB PR-CHANGE IN SCOPE	CW	S3	02	-13,150	7,517	3,500	6,000	0	3,867	0	3,867	0	0	0	0	3,867	0	0	0	0	0	3,867
0	119	2014 WATER SERVICE REPLACEMENT - S-CHANGE IN SCOPE	CW	S3	02	-118	114	0	0	0	-4	0	-4	0	0	0	0	-4	0	0	0	0	0	-4
0	121	WSR CUT REPAIRS WITH WM SL-CHANGE IN SCOPE	CW	S3	02	-893	675	675	675	0	1,132	0	1,132	0	0	0	0	1,132	0	0	0	0	0	1,132
0	122	REPLACEMENT OF FROZEN SERVICES-CHANGE IN SCOPE	CW	S3	02	-240	0	0	0	0	-240	0	-240	0	0	0	0	-240	0	0	0	0	0	-240
0	123	2011 WSR-CHANGE IN SCOPE	CW	S3	02	3	0	0	0	0	3	0	3	0	0	0	0	3	0	0	0	0	0	3
Sub-total						31,121	64,897	53,479	48,896	46,246	244,639	224,730	469,369	0	0	0	0	469,369	0	0	0	0	0	469,369
<u>WAT906935 NEW SERVICE CONNECTIONS</u>																								
0	2	NEW SERVICE CONNECTIONS - CUT REPAIRS	CW	S2	05	5,377	0	0	0	0	5,377	0	5,377	0	0	0	0	5,377	0	0	0	0	0	5,377
0	7	NEW SERVICE CONNECTIONS - SITE SERVICING	CW	S2	05	6,946	0	0	0	0	6,946	0	6,946	0	0	0	0	6,946	0	0	0	0	0	6,946
0	14	NEW SERVICE CONNECTIONS - 10 Year	CW	S6	05	0	0	0	32,000	32,000	64,000	175,000	239,000	0	0	0	0	239,000	0	0	0	0	0	239,000
0	15	NEW SERVICE CONNECTIONS - CUT REPAIRS - FUTURE	CW	S6	05	0	1,622	2,235	13,223	13,223	30,303	66,115	96,418	0	0	0	0	96,418	0	0	0	0	0	96,418
0	26	NEW SERVICE CONNECTIONS - SITE SER-CHANGE IN SCOPE	CW	S3	05	24,213	32,123	34,000	0	0	90,336	0	90,336	0	0	0	0	90,336	0	0	0	0	0	90,336

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**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAT906935 NEW SERVICE CONNECTIONS</u>																									
0	27	NEW SERVICE CONNECTIONS - CUT REPA-CHANGE IN SCOPE	CW	S3	05	5,300	18,758	18,758	4,634	0	47,450	0	47,450	0	0	0	0	47,450	0	0	0	0	0	47,450	
Sub-total						41,836	52,503	54,993	49,857	45,223	244,412	241,115	485,527	0	0	0	0	485,527	0	0	0	0	0	485,527	
<u>WAT906951 ENGINEERING</u>																									
0	2	CONSULTING FEES	CW	S2	03	21,842	8,367	4,378	2,500	1,170	38,257	2,102	40,359	0	0	0	0	40,359	0	0	0	0	0	40,359	
0	5	10 YEAR ENGINEERING	CW	S6	03	0	32,534	34,618	36,591	46,054	149,797	284,282	434,079	0	0	0	0	434,079	0	0	0	0	0	434,079	
0	57	PPFA SALARIES - FUTURE	CW	S6	03	0	2,292	2,292	2,292	2,292	9,168	11,460	20,628	0	0	0	0	20,628	0	0	0	0	0	20,628	
0	63	ROAD RESTORATION	CW	S2	03	2,621	2,151	0	0	0	4,772	0	4,772	0	0	0	0	4,772	0	0	0	0	0	4,772	
0	78	ECS SALARIES-CHANGE IN SCOPE	CW	S3	03	14,491	0	0	0	0	14,491	0	14,491	0	0	0	0	14,491	0	0	0	0	0	14,491	
0	79	TW SALARIES-CHANGE IN SCOPE	CW	S3	03	2,148	0	0	0	0	2,148	0	2,148	0	0	0	0	2,148	0	0	0	0	0	2,148	
0	80	LEGAL SERVICES SALARIES-CHANGE IN SCOPE	CW	S3	03	225	0	0	0	0	225	0	225	0	0	0	0	225	0	0	0	0	0	225	
0	81	ROAD RESTORATION-CHANGE IN SCOPE	CW	S3	03	-1,473	-1,486	365	365	0	-2,229	0	-2,229	0	0	0	0	-2,229	0	0	0	0	0	-2,229	
0	82	CONSULTING FEES-CHANGE IN SCOPE	CW	S3	03	-8,002	14,298	20,073	15,999	7,079	49,447	-438	49,009	0	0	0	0	49,009	0	0	0	0	0	49,009	
0	83	PPFA SALARIES-CHANGE IN SCOPE	CW	S3	03	2,935	0	0	0	0	2,935	0	2,935	0	0	0	0	2,935	0	0	0	0	0	2,935	
0	84	PMMD SALARIES-CHANGE IN SCOPE	CW	S3	03	311	0	0	0	0	311	0	311	0	0	0	0	311	0	0	0	0	0	311	
Sub-total						35,098	58,156	61,726	57,747	56,595	269,322	297,406	566,728	0	0	0	0	566,728	0	0	0	0	0	566,728	
<u>WAT906977 ISLAND W.T.P. R&amp;R</u>																									
0	1	FACILITY & PROCESS UPGRADES	CW	S2	03	375	375	375	375	0	1,500	0	1,500	0	0	0	0	1,500	0	0	0	0	0	1,500	
0	12	FACILITY UPGRADE - FORMER MARINE YARD	CW	S2	03	2,164	0	0	0	0	2,164	0	2,164	0	0	0	0	2,164	0	0	0	0	0	2,164	
0	32	TRAVELLING SCREEN REPLACEMENT	CW	S2	03	440	3,191	0	0	0	3,631	0	3,631	0	0	0	0	3,631	0	0	0	0	0	3,631	
0	50	AMMONIA AND FLUORIDE SYSTEM UPGRADES	CW	S2	03	7,948	4,006	7	0	0	11,961	0	11,961	0	0	0	0	11,961	0	0	0	0	0	11,961	
0	51	CHEMICAL SYSTEMS' ELECTRICAL FEED DISTRIBUTION	CW	S2	03	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1	
0	53	FACILITY & PROCESS UPGRADES - FUTURE	CW	S6	03	0	0	0	0	375	375	1,875	2,250	0	0	0	0	2,250	0	0	0	0	0	2,250	
0	54	FILTER MEDIA REPLC - FUTURE	CW	S4	03	300	0	0	0	0	300	450	750	0	0	0	0	750	0	0	0	0	0	750	
0	69	Generators' DR3 Program	CW	S2	04	0	80	695	650	0	1,425	0	1,425	0	0	0	0	1,425	0	0	0	0	0	1,425	





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**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By									
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt
<b>WAT907558 REGENT PARK CAPITAL CONTRIBUTION</b>																						
0	16	REGENT PARK CAPITAL CONTRIBUTION --CHANGE IN SCOPE	13	S3	05	-591	0	591	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-total						542	1,416	1,421	51	71	3,501	40	3,541	0	0	3,541	0	0	0	0	0	3,541
<b>WAT907946 BUSINESS IT PROJECTS</b>																						
0	7	ENTERPRISE WORK MANAGEMENT SYSTEM PROJECT	CW	S2	04	1,554	1,325	1,000	400	350	4,629	0	4,629	0	0	0	0	0	0	0	4,629	
0	18	ENTERPRISE WORK MANAGEMENT SYSTEM -CHANGE IN SCOPE	CW	S3	04	-654	-400	250	400	500	96	0	96	0	0	0	96	0	0	0	0	
Sub-total						900	925	1,250	800	850	4,725	0	4,725	0	0	0	0	4,725	0	0	0	4,725
<b>WAT908087 TRUNK WATERMAIN</b>																						
0	1	TRANSMISSION SYSTEM AUTOMATION	CW	S2	04	5,801	4,575	41	92	0	10,509	0	10,509	0	0	0	10,509	0	0	0	10,509	
0	4	JOS - REVENUE METER REPLACEMENT	CW	S2	03	4,369	1,000	0	0	0	5,369	0	5,369	0	0	0	2,684	0	0	2,685	5,369	
0	5	CAST IRON T/M REPLACEMENT - FUTURE	CW	S6	03	0	1,200	1,850	14,200	24,650	41,900	124,250	166,150	0	0	0	166,150	0	0	0	166,150	
0	6	3RD PARTY RELOCATIONS (METROLINX)	CW	S2	04	50	50	50	0	0	150	0	150	0	0	0	150	0	0	0	150	
0	16	TRANSMISSION SYSTEM AUTOMATION-CHANGE IN SCOPE	CW	S3	04	-5,381	-1,057	3,236	3,241	41	80	92	172	0	0	0	172	0	0	0	172	
0	17	JOS - REVENUE METER REPLACEMENT-CHANGE IN SCOPE	CW	S3	03	-929	1,175	0	0	0	246	0	246	0	0	0	123	0	0	123	246	
Sub-total						3,910	6,943	5,177	17,533	24,691	58,254	124,342	182,596	0	0	0	0	179,788	0	0	2,808	182,596
<b>WAT908248 WT&amp;S PLANTWIDE</b>																						
0	1	UV DISINFECTION - CONCEPTUAL DESIGN	CW	S2	04	248	0	0	0	0	248	0	248	0	0	0	248	0	0	0	248	
0	2	UV DISINFECTION - ENGINEERING	CW	S6	04	0	0	0	700	980	1,680	7,140	8,820	0	0	0	8,820	0	0	0	8,820	
0	3	UV DISINFECTION - CONSTRUCTION	CW	S6	04	0	0	0	0	0	0	63,210	63,210	0	0	0	63,210	0	0	0	63,210	
0	4	ZEBRA MUSSEL CONTROL - ENG	CW	S2	04	738	450	450	175	32	1,845	32	1,877	0	0	0	1,877	0	0	0	1,877	
0	5	ZEBRA MUSSEL CONTROL - CONSTRUCTION	CW	S4	04	250	4,250	4,500	10,000	1,000	20,000	0	20,000	0	0	0	20,000	0	0	0	20,000	
0	6	STANDBY POWER - PHASE 2 - ENG	CW	S2	04	1,768	2,750	3,170	1,686	760	10,134	700	10,834	0	0	655	0	6,929	0	0	3,250	
0	7	STANDBY POWER - FUTURE	CW	S6	04	0	0	300	450	700	1,450	4,150	5,600	0	0	581	0	3,338	0	0	1,681	
0	10	UV DISINFECTION - ISLAND WTP - ENGINEERING	CW	S2	04	1,251	500	1,000	550	150	3,451	50	3,501	0	0	0	3,501	0	0	0	3,501	
0	11	UV DISINFECTION - ISLAND WTP - CONSTRUCTION	CW	S6	04	0	0	10,000	10,000	6,690	26,690	0	26,690	0	0	0	26,690	0	0	0	26,690	
0	12	SCRUBBER AND TONNER CONNECTION IMPROVEMENTS AT WTP	CW	S2	04	1,956	1,168	500	470	5	4,099	0	4,099	0	0	256	0	2,613	0	0	1,230	

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

<b>Water Program</b>						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
Sub- Priority	Project No. SubProj No.	Project Name Sub-project Name	Ward	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAT908248 WT&amp;S PLANTWIDE</b>																								
0	18	SOURCE WATER PROTECTION-LAKE ONTARIO COLLABORATIVE	CW	S2	04	375	305	0	0	0	680	0	680	0	0	0	0	680	0	0	0	0	0	680
0	19	STANDBY POWER - PHASE 2 - CONSTRUCTION	CW	S6	04	0	3,500	16,000	22,500	15,100	57,100	6,500	63,600	0	0	0	0	44,520	0	0	19,080	0	0	63,600
0	20	STANDBY POWER - FUTURE - CONSTRUCTION	CW	S6	04	0	0	0	0	1,500	1,500	26,500	28,000	0	0	2,900	0	16,700	0	0	8,400	0	0	28,000
0	21	SCRUBBER AND TONNER CONNECTION IMP-CHANGE IN SCOPE	CW	S3	04	-1,415	1,159	1,115	1,145	1,482	3,486	58	3,544	0	0	535	0	1,945	0	0	1,064	0	0	3,544
0	22	UV DISINFECTION - CONCEPTUAL DESIG-CHANGE IN SCOPE	CW	S3	04	-248	0	0	0	0	-248	0	-248	0	0	0	0	-248	0	0	0	0	0	-248
0	23	SOURCE WATER PROTECTION-LAKE ONTAR-CHANGE IN SCOPE	CW	S3	04	-375	125	650	650	0	1,050	0	1,050	0	0	0	0	1,050	0	0	0	0	0	1,050
0	24	UV DISINFECTION - ISLAND WTP - ENG-CHANGE IN SCOPE	CW	S3	04	-606	96	-955	450	454	-561	95	-466	0	0	0	0	-466	0	0	0	0	0	-466
0	25	STANDBY POWER - PHASE 2 - ENG-CHANGE IN SCOPE	CW	S3	04	-608	-318	188	484	226	-28	60	32	0	0	471	0	-449	0	0	10	0	0	32
0	26	ZEBRA MUSSEL CONTROL - ENG-CHANGE IN SCOPE	CW	S3	04	-388	143	-90	247	95	7	-21	-14	0	0	0	0	-14	0	0	0	0	0	-14
Sub-total						2,946	14,128	36,828	49,507	29,174	132,583	108,474	241,057	0	0	5,398	0	200,944	0	0	34,715	0	0	241,057
<b>Total Program Expenditure</b>						350,393	557,898	580,998	526,451	464,255	2,479,995	2,131,481	4,611,476	0	0	111,016	0	4,443,535	0	0	56,925	0	0	4,611,476

**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 7: 2019 Capital Budget;2020-2028 Capital Plan Including Carry Forward Funding**

Water Program						Current and Future Year Cash Flow Commitments and Estimates						Current and Future Year Cash Flow Commitments and Estimates Financed By											
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserve Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
Sub- Priority	Project No. SubProj No.	Project Name Sub-project Name	Ward	Stat.	Cat.																		
Financed By:																							
		Development Charges				28,710	32,531	27,372	7,082	4,498	100,193	10,823	111,016	0	0	111,016	0	0	0	0	0	0	111,016
		Reserve Funds (Ind."XR" Ref.)				315,566	514,998	541,767	509,571	453,344	2,335,246	2,108,289	4,443,535	0	0	0	0	0	0	0	0	0	4,443,535
		Other2 (External)				6,117	10,369	11,859	9,798	6,413	44,556	12,369	56,925	0	0	0	0	0	0	56,925	0	0	56,925
<b>Total Program Financing</b>						350,393	557,898	580,998	526,451	464,255	2,479,995	2,131,481	4,611,476	0	0	111,016	0	0	56,925	0	0	0	4,611,476

Status Code	Description
S2	S2 Prior Year (With 2019 and/or Future Year Cashflow)
S3	S3 Prior Year - Change of Scope 2019 and/or Future Year Cost(Cashflow)
S4	S4 New - Stand-Alone Project (Current Year Only)
S5	S5 New (On-going or Phased Projects)
S6	S6 New - Future Year (Commencing in 2020 & Beyond)

Category Code	Description
01	Health and Safety C01
02	Legislated C02
03	State of Good Repair C03
04	Service Improvement and Enhancement C04
05	Growth Related C05
06	Reserved Category 1 C06
07	Reserved Category 2 C07



**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 7: 2019 Capital Budget; 2020-2028 Capital Plan Including Carry Forward Funding**

**Wastewater Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAS000007 ASHBRIDGES BAY WWTP REHAB</u>																									
0	309	AIR HEADER REHAB-CHANGE IN SCOPE	CW	S3	03	-2,176	766	0	0	0	-1,410	0	-1,410	0	0	0	0	-1,410	0	0	0	0	0	-1,410	
0	310	DIGESTERS CLEANING REHAB - TANKS 1-CHANGE IN SCOPE	CW	S3	03	-1,762	202	727	0	1	-832	0	-832	0	0	0	0	-832	0	0	0	0	0	-832	
0	311	POLYMER UPGRADE-CHANGE IN SCOPE	CW	S3	03	-20,525	-8,895	17,908	4,444	17,388	10,320	371	10,691	0	0	0	0	10,691	0	0	0	0	0	10,691	
0	312	GROUND AND FACILITIES-CHANGE IN SCOPE	CW	S3	03	-96	0	0	0	440	344	0	344	0	0	0	0	344	0	0	0	0	0	344	
0	313	PROCESS AND EQUIPMENT-CHANGE IN SCOPE	CW	S3	03	-290	210	55	56	1,100	1,131	0	1,131	0	0	0	0	1,131	0	0	0	0	0	1,131	
0	314	FERROUS UPGRADES-CHANGE IN SCOPE	CW	S3	03	-1,754	1,821	0	0	0	67	0	67	0	0	480	0	-413	0	0	0	0	0	67	
0	315	ELECTRICAL REHAB - ECAP-CHANGE IN SCOPE	CW	S3	01	-2,294	2,380	224	0	0	310	0	310	0	0	0	0	310	0	0	0	0	0	310	
0	316	P BLDG HEADWORKS ENG DESIGN&CONTRA-CHANGE IN SCOPE	CW	S3	03	-384	861	176	0	0	653	0	653	0	0	206	0	447	0	0	0	0	0	653	
0	317	PROCESS UPGRADES & ODOUR CONTROL E-CHANGE IN SCOPE	CW	S3	04	-60	90	0	0	0	30	0	30	0	0	9	0	21	0	0	0	0	0	30	
0	318	HEATING AND AIR SYSTEMS	CW	S4	03	705	4,095	5,755	6,005	2,555	19,115	130	19,245	0	0	0	0	19,245	0	0	0	0	0	19,245	
0	320	EAST BYPASS	CW	S4	02	250	700	1,450	1,200	10,800	14,400	73,610	88,010	0	0	0	0	88,010	0	0	0	0	0	88,010	
0	321	ABTP SOLAR PV PILOT PROJECT	CW	S4	04	250	2,050	75	225	0	2,600	0	2,600	0	0	0	0	2,600	0	0	0	0	0	2,600	
0	322	SECONDARY CLARIFIER CROSS COLLECTOR UPGR TANK 2&4	CW	S4	04	75	1,800	1,100	15	10	3,000	0	3,000	0	0	0	0	3,000	0	0	0	0	0	3,000	
0	323	BLOWER 7-9 OVERHAUL-CHANGE IN SCOPE	CW	S3	03	0	500	0	0	0	500	0	500	0	0	0	0	500	0	0	0	0	0	500	
0	324	ABTP - PROCESS ROADMAP PHASE 2-CHANGE IN SCOPE	CW	S3	05	-500	350	850	100	0	800	0	800	0	0	0	0	800	0	0	0	0	0	800	
0	325	HVAC CONVERSION Z-BLDG-CHANGE IN SCOPE	CW	S3	03	0	100	130	0	0	230	0	230	0	0	0	0	230	0	0	0	0	0	230	
0	326	OPERATIONS CENTRE - ENGINEERING-CHANGE IN SCOPE	CW	S3	03	-10	0	0	0	0	-10	0	-10	0	0	0	0	-10	0	0	0	0	0	-10	
Sub-total						18,897	58,890	54,981	54,239	51,844	238,851	152,758	391,609	0	0	1,541	0	390,068	0	0	0	0	0	391,609	
<u>WAS000115 HUMBER T.P.</u>																									
0	9	CO-GENERATION	CW	S2	04	87	0	0	0	0	87	0	87	0	0	0	0	87	0	0	0	0	0	87	
0	64	CO-GENERATION-CHANGE IN SCOPE	CW	S3	04	33	0	0	0	0	33	0	33	0	0	0	0	33	0	0	0	0	0	33	
Sub-total						120	0	0	0	0	120	0	120	0	0	0	0	120	0	0	0	0	0	0	120
<u>WAS000259 TRUNK SEWER SYSTEM</u>																									
0	15	TRUNK SEWER REHABILITATION - 2012	CW	S2	03	1,093	87	16	0	0	1,196	0	1,196	0	0	0	0	1,196	0	0	0	0	0	1,196	

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 7: 2019 Capital Budget; 2020-2028 Capital Plan Including Carry Forward Funding**

**Wastewater Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAS000259 TRUNK SEWER SYSTEM</b>																								
0	18	BLACK CREEK STS DESIGN & CONSTRUCTION	CW	S6	05	0	1,000	3,545	12,400	28,150	45,095	258,900	303,995	0	0	0	0	303,995	0	0	0	0	0	303,995
0	27	TRUNK SEWER REHABILITATION - 2014	CW	S2	03	23,755	3,380	10	14	0	27,159	0	27,159	0	0	0	0	27,159	0	0	0	0	0	27,159
0	34	BLACK CREEK STS EA	CW	S2	05	1,352	0	0	0	0	1,352	0	1,352	0	0	0	0	1,352	0	0	0	0	0	1,352
0	47	TRUNK SEWER REHABILITATION - 2016	CW	S2	03	22,085	9,047	1,535	151	0	32,818	0	32,818	0	0	0	0	32,818	0	0	0	0	0	32,818
0	53	TRUNK SEWER REHABILITATION - 2018	CW	S2	03	13,962	44,974	69,585	39,611	9,357	177,489	142	177,631	0	0	0	0	177,631	0	0	0	0	0	177,631
0	55	TRUNK SEWER REHABILITATION - FORECAST	CW	S6	03	0	300	1,400	10,965	25,230	37,895	170,117	208,012	0	0	0	0	208,012	0	0	0	0	0	208,012
0	62	TRUNK SEWER REHABILITATION - 2012-CHANGE IN SCOPE	CW	S3	03	-742	943	5	0	0	206	0	206	0	0	0	0	206	0	0	0	0	0	206
0	63	TRUNK SEWER REHABILITATION - 2016-CHANGE IN SCOPE	CW	S3	03	-10,775	1,514	-1,524	-151	0	-10,936	0	-10,936	0	0	0	0	-10,936	0	0	0	0	0	-10,936
0	64	BLACK CREEK STS EA-CHANGE IN SCOPE	CW	S3	05	-887	347	0	0	0	-540	0	-540	0	0	0	0	-540	0	0	0	0	0	-540
0	65	TRUNK SEWER REHABILITATION - 2018-CHANGE IN SCOPE	CW	S3	03	-7,439	2,360	-8,650	-3,181	8,600	-8,310	8,002	-308	0	0	0	0	-308	0	0	0	0	0	-308
0	66	TRUNK SEWER REHABILITATION - 2014-CHANGE IN SCOPE	CW	S3	03	-15,447	12,590	2,256	2	0	-599	0	-599	0	0	0	0	-599	0	0	0	0	0	-599
0	67	TRUNK SEWER REHABILITATION - 2019	CW	S4	03	775	2,635	5,470	32,777	8,813	50,470	11,958	62,428	0	0	0	0	62,428	0	0	0	0	0	62,428
0	68	LOWER SIMCOE CSO	CW	S4	04	700	1,100	700	900	8,400	11,800	10,200	22,000	0	0	0	0	22,000	0	0	0	0	0	22,000
Sub-total						28,432	80,277	74,348	93,488	88,550	365,095	459,319	824,414	0	0	0	0	824,414	0	0	0	0	0	824,414
<b>WAS000442 BASEMENT FLOODING RELIEF</b>																								
0	1	BASEMENT FLOODING PROTECTION SUBSIDY PROGRAM	CW	S2	04	5,500	5,500	0	0	0	11,000	0	11,000	0	0	0	0	11,000	0	0	0	0	0	11,000
0	8	BASEMENT FLOODING STUDIES & EAS	CW	S2	04	701	0	0	0	0	701	0	701	0	0	7	0	694	0	0	0	0	0	701
0	9	BASEMENT FLOODING RELIEF - TUNNEL PROJECT	CW	S2	04	5,446	5,800	37,700	37,000	37,000	122,946	81,900	204,846	0	0	96	0	204,750	0	0	0	0	0	204,846
0	12	ROAD RESTORATION FOR BSMT FLDG PRJS	CW	S2	04	292	0	0	0	0	292	0	292	0	0	2	0	290	0	0	0	0	0	292
0	14	BASEMENT FLOODING DESIGN - GROUP 1	CW	S2	04	1,206	0	0	0	0	1,206	0	1,206	0	0	20	0	1,186	0	0	0	0	0	1,206
0	18	BASEMENT FLOODING DESIGN - GROUP 2	CW	S2	04	3,135	2,126	0	0	0	5,261	0	5,261	0	0	15	0	5,246	0	0	0	0	0	5,261
0	19	BASEMENT FLOODING RELIEF - GROUP 2	CW	S2	04	16,906	4,203	0	0	0	21,109	0	21,109	0	0	450	0	20,659	0	0	0	0	0	21,109
0	20	BASEMENT FLOODING DESIGN - GROUP 3	CW	S2	04	2,219	1,030	919	0	0	4,168	0	4,168	0	0	54	0	4,114	0	0	0	0	0	4,168
0	29	BASEMENT FLOODING RELIEF - GROUP 1	CW	S2	04	2,528	30	0	0	0	2,558	0	2,558	0	0	2	0	2,556	0	0	0	0	0	2,558

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 7: 2019 Capital Budget; 2020-2028 Capital Plan Including Carry Forward Funding**

**Wastewater Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By															
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing					
<b>WAS000442 BASEMENT FLOODING RELIEF</b>																												
0	52	BASEMENT FLOODING RELIEF - FUTURE			CW	S6	04	0	0	0	0	0	0	0	400,000	400,000	0	0	27,000	0	373,000	0	0	0	0	0	0	400,000
0	76	BASEMENT FLOODING FLOW MONITORING			CW	S2	04	954	982	0	0	0	1,936	0	1,936	1,936	0	0	0	0	1,936	0	0	0	0	0	0	1,936
0	77	BASEMENT FLOODING DESIGN - GROUP 4 (ENGINEERING)			CW	S2	04	34,297	34,520	42,713	47,250	46,465	205,245	123,754	328,999	328,999	0	0	513	0	328,486	0	0	0	0	0	0	328,999
0	81	BASEMENT FLOODING STUDIES & EAS-CW IMPLEMENTATION			CW	S2	04	5,758	3,755	1,750	1,000	750	13,013	0	13,013	13,013	0	0	65	0	12,948	0	0	0	0	0	0	13,013
0	84	10 YEAR BASEMENT FLOODING STUDIES & EAs			CW	S6	04	0	100	186	289	291	866	1,500	2,366	2,366	0	0	355	0	2,011	0	0	0	0	0	0	2,366
0	85	10 YEAR BASEMENT FLOODING FLOW MONITORING			CW	S6	04	0	0	1,000	1,025	1,051	3,076	5,668	8,744	8,744	0	0	1,313	0	7,431	0	0	0	0	0	0	8,744
0	89	BASEMENT FLOODING RELIEF - GROUP 4 (CONSTRUCTION)			CW	S2	04	39,481	63,740	44,277	53,652	72,173	273,323	196,981	470,304	470,304	0	0	1,020	0	469,284	0	0	0	0	0	0	470,304
0	90	NEW - REFRESHING EXPIRED EA'S			CW	S6	04	0	600	1,100	1,500	1,500	4,700	15,500	20,200	20,200	0	0	3,031	0	17,169	0	0	0	0	0	0	20,200
0	91	BASEMENT FLOODING DESIGN - GROUP 5			CW	S6	04	0	0	0	0	3,000	3,000	103,000	106,000	106,000	0	0	15,900	0	90,100	0	0	0	0	0	0	106,000
0	93	BASEMENT FLOODING PROTECTION SUBSIDY PROG - FUTURE			CW	S6	04	0	0	5,500	5,500	5,500	16,500	27,500	44,000	44,000	0	0	0	0	44,000	0	0	0	0	0	0	44,000
0	107	BASEMENT FLOODING RELIEF - GROUP 3 (CONSTRUCTION)			CW	S2	04	12,443	16,744	13,978	0	0	43,165	0	43,165	43,165	0	0	396	0	42,769	0	0	0	0	0	0	43,165
0	132	BASEMENT FLOODING STUDIES & EAS-CW-CHANGE IN SCOPE			CW	S3	04	-1,238	9,861	19,915	17,940	14,505	60,983	1,100	62,083	62,083	0	0	7,146	0	54,937	0	0	0	0	0	0	62,083
0	133	BASEMENT FLOODING RELIEF - GROUP 1-CHANGE IN SCOPE			CW	S3	04	-2,407	911	0	0	0	-1,496	0	-1,496	-1,496	0	0	157	0	-1,653	0	0	0	0	0	0	-1,496
0	134	BASEMENT FLOODING DESIGN - GROUP 3-CHANGE IN SCOPE			CW	S3	04	-282	529	0	0	0	247	0	247	247	0	0	609	0	-362	0	0	0	0	0	0	247
0	135	BASEMENT FLOODING DESIGN - GROUP 4-CHANGE IN SCOPE			CW	S3	04	-17,697	-4,557	-8,750	-1,929	-16,628	-49,561	-54,771	-104,332	-104,332	0	0	33,186	0	-137,518	0	0	0	0	0	0	-104,332
0	136	BASEMENT FLOODING RELIEF - GROUP 4-CHANGE IN SCOPE			CW	S3	04	-15,156	-25,088	15,734	14,510	-2,455	-12,455	38,994	26,539	26,539	0	0	63,283	0	-36,744	0	0	0	0	0	0	26,539
0	137	BASEMENT FLOODING STUDIES & EAS-CHANGE IN SCOPE			CW	S3	04	-616	400	150	200	0	134	0	134	134	0	0	119	0	15	0	0	0	0	0	0	134
0	138	BASEMENT FLOODING RELIEF - GROUP 3-CHANGE IN SCOPE			CW	S3	04	-3,450	3,101	-492	6,284	0	5,443	0	5,443	5,443	0	0	6,896	0	-1,453	0	0	0	0	0	0	5,443
0	139	BASEMENT FLOODING RELIEF - TUNNEL -CHANGE IN SCOPE			CW	S3	04	-1,761	2,165	-17,693	-850	0	-18,139	23,000	4,861	4,861	4,861	0	0	31,361	0	-26,500	0	0	0	0	0	4,861
0	140	BASEMENT FLOODING DESIGN - GROUP 1-CHANGE IN SCOPE			CW	S3	04	-1,076	1,703	0	0	0	627	0	627	627	0	0	255	0	372	0	0	0	0	0	0	627
0	141	BASEMENT FLOODING RELIEF - GROUP 2-CHANGE IN SCOPE			CW	S3	04	-8,554	11,046	0	0	0	2,492	0	2,492	2,492	0	0	3,090	0	-598	0	0	0	0	0	0	2,492
0	142	BASEMENT FLOODING DESIGN - GROUP 2-CHANGE IN SCOPE			CW	S3	04	-3,032	3,854	0	0	0	822	0	822	822	0	0	897	0	-75	0	0	0	0	0	0	822
0	143	BASEMENT FLOODING FLOW MONITORING-CHANGE IN SCOPE			CW	S3	04	606	308	0	0	0	914	0	914	914	0	0	428	0	486	0	0	0	0	0	0	914





## CITY OF TORONTO

Gross Expenditures (\$000's)

## Appendix 7: 2019 Capital Budget; 2020-2028 Capital Plan Including Carry Forward Funding

## Wastewater Program

Sub- Project No. Project Name Priority/SubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<b>WAS906328 SWM END OF PIPE FACILITIES</b>																									
0	76	NORTH TORONTO CSO CONSTR - 2018 SC-CHANGE IN SCOPE	CW	S3	04	-240	150	1,650	0	0	1,560	0	1,560	0	0	282	0	1,278	0	0	0	0	0	1,560	
0	77	HUMBER BAY POND (ETOBICOKE)-CHANGE IN SCOPE	CW	S3	03	-40	215	2,115	1,016	115	3,421	0	3,421	0	0	543	0	2,878	0	0	0	0	0	3,421	
0	78	EARL BALES PARK SWM FACILITY - PHA-CHANGE IN SCOPE	CW	S3	04	-950	951	0	0	0	1	0	1	0	0	71	0	-70	0	0	0	0	0	1	
Sub-total						1,176	3,660	13,065	10,793	331	29,025	136,430	165,455	0	0	24,484	0	140,971	0	0	0	0	0	165,455	
<b>WAS906331 SWM SOURCE CONTROL PROG</b>																									
0	9	DOWNSPOUT DISCONNECTION PROGRAM	CW	S2	04	70	70	20	20	0	180	0	180	0	0	0	0	180	0	0	0	0	0	180	
0	17	DOWNSPOUT DISCONNECTION PROGRAM-CHANGE IN SCOPE	CW	S3	04	20	-25	0	0	0	-5	0	-5	0	0	0	0	-5	0	0	0	0	0	-5	
Sub-total						90	45	20	20	0	175	0	175	0	0	0	0	0	175	0	0	0	0	0	175
<b>WAS906380 HIGHLAND CREEK WWTP - ODOUR CONTROL</b>																									
0	1	ODOUR CONTROL UPGRADES - PHASE 1 ENG	25	S2	04	190	203	56	50	20	519	0	519	0	0	42	0	477	0	0	0	0	0	519	
0	2	ODOUR CONTROL UPGRADES - PHASE 1 CONSTR	25	S2	02	2,418	5,119	0	0	0	7,537	0	7,537	0	0	607	0	6,930	0	0	0	0	0	7,537	
0	3	ODOUR CONTROL UPGRADES - PHASE 2	25	S6	02	0	0	0	0	0	0	19,200	19,200	0	0	2,841	0	16,359	0	0	0	0	0	19,200	
0	24	ODOUR CONTROL UPGRADES - PHASE 1 E-CHANGE IN SCOPE	25	S3	04	660	261	134	6	30	1,091	20	1,111	0	0	204	0	907	0	0	0	0	0	1,111	
0	25	ODOUR CONTROL UPGRADES - PHASE 1 C-CHANGE IN SCOPE	25	S3	02	2,057	-1,760	1,917	0	0	2,214	0	2,214	0	0	856	0	1,358	0	0	0	0	0	2,214	
Sub-total						5,325	3,823	2,107	56	50	11,361	19,220	30,581	0	0	4,550	0	26,031	0	0	0	0	0	0	30,581
<b>WAS906487 HIGHLAND CREEK T.P. - IV YR2004</b>																									
0	22	PCS PLANT SERVICES	CW	S2	04	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1	
Sub-total						1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	1
<b>WAS906492 WET WEATHER FLOW MP</b>																									
0	1	SWM INA/EA	CW	S2	04	740	655	440	110	0	1,945	0	1,945	0	0	157	0	1,788	0	0	0	0	0	1,945	
0	11	10YR WWFMMP PUBLIC EDUCATION	CW	S6	04	0	610	610	610	610	2,440	3,050	5,490	0	0	810	0	4,680	0	0	0	0	0	5,490	
0	14	WWFMP IMPLEMENTATION - DESIGN	CW	S2	04	731	300	0	0	0	1,031	0	1,031	0	0	90	0	941	0	0	0	0	0	1,031	
0	40	10YR WWFMMP IMPLEMENTATION	CW	S6	04	0	0	0	0	0	0	5,000	5,000	0	0	740	0	4,260	0	0	0	0	0	5,000	
0	41	SWM CONVEYANCE 2012	CW	S2	04	37	0	0	0	0	37	0	37	0	0	3	0	34	0	0	0	0	0	37	
0	58	SWM CONVEYANCE 2015	CW	S2	04	785	0	0	0	0	785	0	785	0	0	63	0	722	0	0	0	0	0	785	



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**Appendix 7: 2019 Capital Budget; 2020-2028 Capital Plan Including Carry Forward Funding**

**Wastewater Program**

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By								
					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
<b>WAS906495 SEWER ASSET PLANNING</b>																						
0 39	SEWER SYSTEM INSPECTION-CHANGE IN SCOPE	CW	S3	03	2,454	12,073	20,131	15,400	15,700	65,758	10,500	76,258	0	0	0	0	76,258	0	0	0	0	76,258
0 40	SEWER ASSET PLANNING-CHANGE IN SCOPE	CW	S3	03	-5,828	3,696	2,757	1,145	2,850	4,620	1,000	5,620	0	0	298	0	5,322	0	0	0	0	5,620
0 41	PPD - INFRASTRUCTURE PLANNING STUD-CHANGE IN SCOPE	CW	S3	05	25	150	0	0	0	175	0	175	0	0	0	0	175	0	0	0	0	175
0 42	CORP IT - IDC-CHANGE IN SCOPE	CW	S3	04	150	0	0	0	0	150	0	150	0	0	0	0	150	0	0	0	0	150
Sub-total					15,901	33,959	32,538	26,695	25,850	134,943	112,950	247,893	0	0	6,796	0	241,097	0	0	0	0	247,893
<b>WAS906500 NEW SEWER CONSTRUCTION</b>																						
0 4	NEW SEWERS - FUTURE	CW	S6	05	0	0	1,000	1,000	1,000	3,000	5,000	8,000	0	0	8,000	0	0	0	0	0	0	8,000
0 5	NEW SEWERS	CW	S2	05	88	500	0	0	0	588	0	588	0	0	371	0	217	0	0	0	0	588
0 24	WATERFRONT SANITARY MASTER SERVICING PLAN IMP	CW	S2	05	6,500	6,500	1,500	750	0	15,250	0	15,250	0	0	7,625	0	7,625	0	0	0	0	15,250
0 25	DOWNSVIEW LANDS EXTERNAL UPGRADES	CW	S2	05	0	1,450	5,000	1,550	0	8,000	0	8,000	0	0	8,000	0	0	0	0	0	0	8,000
0 36	SHEPPARD SANITARY SEWER AT EAST DON STS	CW	S2	05	2,000	1,000	0	0	0	3,000	0	3,000	0	0	1,866	0	1,134	0	0	0	0	3,000
0 40	WATERFRONT SANITARY MASTER SERVICI-CHANGE IN SCOPE	CW	S3	05	-5,150	1,116	11,559	22,437	10,851	40,813	4,676	45,489	0	0	11,152	0	34,337	0	0	0	0	45,489
0 41	SHEPPARD SANITARY SEWER AT EAST DO-CHANGE IN SCOPE	CW	S3	05	-2,000	-1,000	1,400	1,800	800	1,000	0	1,000	0	0	623	0	377	0	0	0	0	1,000
0 42	NEW SEWERS-CHANGE IN SCOPE	CW	S3	05	-38	0	0	0	0	-38	0	-38	0	0	179	0	-217	0	0	0	0	-38
Sub-total					1,400	9,566	20,459	27,537	12,651	71,613	9,676	81,289	0	0	37,816	0	43,473	0	0	0	0	81,289
<b>WAS906735 DIST SEWER REHAB OPS YR2005</b>																						
0 10	GROUP 1 SEWAGE PUMPING STATION UPGRADES	CW	S2	03	16	20	0	0	0	36	0	36	0	0	4	0	32	0	0	0	0	36
0 20	GROUP 1 SEWAGE PUMPING STATION UPG-CHANGE IN SCOPE	CW	S3	03	-1	1	0	0	0	0	0	0	0	0	1	0	-1	0	0	0	0	0
Sub-total					15	21	0	0	0	36	0	36	0	0	5	0	31	0	0	0	0	36
<b>WAS906741 HIGHLAND CREEK TP YR2005</b>																						
0 1	WAS THICKENING AND DEWATERING - ENG	CW	S2	03	2	0	0	0	0	2	0	2	0	0	0	0	2	0	0	0	0	2
0 21	WAS THICKENING AND DEWATERING - EN-CHANGE IN SCOPE	CW	S3	03	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1
Sub-total					3	0	0	0	0	3	0	3	0	0	0	0	3	0	0	0	0	3
<b>WAS906742 HUMBER TP YR2005</b>																						
0 8	ODOUR CONTROL ENGINEERING	CW	S2	04	374	90	20	0	0	484	0	484	0	0	0	0	484	0	0	0	0	484

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**Wastewater Program**

Sub- Project No. Project Name Priority/SubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By													
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAS906742 HUMBER TP YR2005</u>																									
0	58	ODOUR CONTROL ENGINEERING-CHANGE IN SCOPE	CW	S3	04	383	188	-20	0	0	551	0	551	0	0	156	0	395	0	0	0	0	0	551	
Sub-total						757	278	0	0	0	1,035	0	1,035	0	0	156	0	879	0	0	0	0	0	1,035	
<u>WAS906743 ASHRIDGES BAY TP YR2005</u>																									
0	1	MISC MECH ENGINEERING	CW	S2	03	720	80	0	0	0	800	0	800	0	0	68	0	732	0	0	0	0	0	800	
0	7	SERVICE AIR UPGRADES	CW	S2	03	1,166	0	0	0	0	1,166	0	1,166	0	0	0	0	1,166	0	0	0	0	0	1,166	
0	63	MISC MECH ENGINEERING-CHANGE IN SCOPE	CW	S3	03	-400	380	35	9	0	24	0	24	0	0	53	0	-29	0	0	0	0	0	24	
0	64	SERVICE AIR UPGRADES-CHANGE IN SCOPE	CW	S3	03	-1,132	1,289	0	0	0	157	0	157	0	0	0	0	157	0	0	0	0	0	157	
Sub-total						354	1,749	35	9	0	2,147	0	2,147	0	0	121	0	2,026	0	0	0	0	0	2,147	
<u>WAS906755 WESTERN BEACHES RETROFIT</u>																									
0	1	WESTERN BEACHES RETROFIT	CW	S2	03	8,902	6,377	15	86	0	15,380	0	15,380	0	0	1,481	0	13,899	0	0	0	0	0	15,380	
0	17	WESTERN BEACHES RETROFIT-CHANGE IN SCOPE	CW	S3	03	-5,300	2,593	19,935	11,309	50	28,587	0	28,587	0	0	5,024	0	23,563	0	0	0	0	0	28,587	
Sub-total						3,602	8,970	19,950	11,395	50	43,967	0	43,967	0	0	6,505	0	37,462	0	0	0	0	0	43,967	
<u>WAS906926 OPERATIONAL SUPPORT</u>																									
0	6	FACILITY RENOVATION	CW	S2	04	1,015	750	0	0	0	1,765	0	1,765	0	0	0	0	1,765	0	0	0	0	0	1,765	
0	23	EMP MONITORING NEEDS	CW	S2	04	50	0	0	0	0	50	0	50	0	0	0	0	50	0	0	0	0	0	50	
0	40	PCS UPGRADES FOR WASTEWATER TREATMENT	CW	S2	04	6,842	6,100	4,065	25	0	17,032	0	17,032	0	0	0	0	17,032	0	0	0	0	0	17,032	
0	71	YARD & FACILITIES - 10 YEAR PLAN	CW	S6	03	0	525	1,275	1,275	1,275	4,350	6,375	10,725	0	0	0	0	10,725	0	0	0	0	0	10,725	
0	95	DIVISIONAL SECURITY - BACKLOG	CW	S6	04	0	605	605	605	605	2,420	3,025	5,445	0	0	0	0	5,445	0	0	0	0	0	5,445	
0	100	DIVISIONAL SECURITY	CW	S2	04	1,135	0	0	0	0	1,135	0	1,135	0	0	0	0	1,135	0	0	0	0	0	1,135	
0	105	BACKUP POWER - FINCH AND DEE	CW	S2	04	0	0	500	0	0	500	0	500	0	0	0	0	500	0	0	0	0	0	500	
0	107	OFFICE MODERNIZATION - MH18	CW	S2	04	450	975	0	0	0	1,425	0	1,425	0	0	0	0	1,425	0	0	0	0	0	1,425	
0	114	DISTRICT OPERATIONS FACILITY UPGRADES	CW	S2	04	250	1,000	2,000	400	0	3,650	0	3,650	0	0	0	0	3,650	0	0	0	0	0	3,650	
0	122	435 KIPLING AVENUE	CW	S2	04	2,020	3,750	0	0	0	5,770	0	5,770	0	0	0	0	5,770	0	0	0	0	0	5,770	
0	123	PCS UPGRADES FOR WASTEWATER TREATM-CHANGE IN SCOPE	CW	S3	04	-4,746	-3,086	-290	0	0	-8,122	0	-8,122	0	0	0	0	-8,122	0	0	0	0	0	-8,122	
0	124	FACILITY RENOVATION-CHANGE IN SCOPE	CW	S3	04	1,823	1,313	267	272	120	3,795	0	3,795	0	0	0	0	3,795	0	0	0	0	0	3,795	

**CITY OF TORONTO**

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**Wastewater Program**

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By									
					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAS906926 OPERATIONAL SUPPORT</b>																							
0 126	DIVISIONAL SECURITY-CHANGE IN SCOPE	CW	S3	04	47	20	0	0	0	67	0	67	0	0	0	0	67	0	0	0	0	0	67
0 127	BACKUP POWER - FINCH AND DEE-CHANGE IN SCOPE	CW	S3	04	0	0	-400	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 128	OFFICE MODERNIZATION - MH18-CHANGE IN SCOPE	CW	S3	04	-450	-975	0	0	0	-1,425	0	-1,425	0	0	0	0	-1,425	0	0	0	0	0	-1,425
0 129	435 KIPLING AVENUE-CHANGE IN SCOPE	CW	S3	04	-1,870	-1,850	3,750	0	0	30	0	30	0	0	0	0	30	0	0	0	0	0	30
0 130	EMP MONITORING NEEDS-CHANGE IN SCOPE	CW	S3	04	0	50	50	0	0	100	0	100	0	0	0	0	100	0	0	0	0	0	100
	Sub-total				6,566	9,177	11,822	2,977	2,000	32,542	9,400	41,942	0	0	0	0	41,942	0	0	0	0	0	41,942
<b>WAS906958 SEWER SYSTEM REHABILITATION</b>																							
0 2	GROUPS 2, 3 & 4 SEWAGE PUMPING STATION UPGRADES	CW	S2	03	4	0	0	0	0	4	0	4	0	0	1	0	3	0	0	0	0	0	4
0 5	CCTV INSPECTION	CW	S2	03	1,048	1,100	0	0	0	2,148	0	2,148	0	0	0	0	2,148	0	0	0	0	0	2,148
0 7	10 YEAR SEWER REHABILITATION	CW	S6	03	0	2,850	20,623	51,253	65,853	140,579	340,265	480,844	0	0	0	0	480,844	0	0	0	0	0	480,844
0 8	SPS SCADA UPGRADES - ENGINEERING	CW	S2	04	517	0	0	0	0	517	0	517	0	0	42	0	475	0	0	0	0	0	517
0 9	SEWER REHABILITATION	CW	S2	03	23,854	13,836	5,500	4,700	0	47,890	0	47,890	0	0	0	0	47,890	0	0	0	0	0	47,890
0 23	SEWAGE PUMPING STATION STANDBY POWER	CW	S2	02	117	0	0	0	0	117	0	117	0	0	9	0	108	0	0	0	0	0	117
0 24	GROUP 5 SEWAGE PUMPING STATION UPGRADES	CW	S2	05	8,700	4,507	80	0	0	13,287	0	13,287	0	0	1,214	0	12,073	0	0	0	0	0	13,287
0 79	SEWER REHABILITATION - CWD	CW	S2	03	55,323	21,580	2,743	2,743	0	82,389	0	82,389	0	0	0	0	82,389	0	0	0	0	0	82,389
0 98	SEWER REHABILITATION - CWD-CHANGE IN SCOPE	CW	S3	03	-30,270	18,983	49,496	15,000	0	53,209	0	53,209	0	0	0	0	53,209	0	0	0	0	0	53,209
0 99	GROUP 5 SEWAGE PUMPING STATION UPG-CHANGE IN SCOPE	CW	S3	05	-2,254	1,001	1,698	0	0	445	0	445	0	0	818	0	-373	0	0	0	0	0	445
0 100	SEWAGE PUMPING STATION STANDBY POW-CHANGE IN SCOPE	CW	S3	02	-102	103	0	0	0	1	0	1	0	0	8	0	-7	0	0	0	0	0	1
0 101	SPS SCADA UPGRADES - ENGINEERING-CHANGE IN SCOPE	CW	S3	04	-324	69	0	0	0	-255	0	-255	0	0	-3	0	-252	0	0	0	0	0	-255
0 102	SEWER REHABILITATION-CHANGE IN SCOPE	CW	S3	03	2,860	14,837	6,816	4,300	4,000	32,813	200	33,013	0	0	0	0	33,013	0	0	0	0	0	33,013
0 103	CCTV INSPECTION-CHANGE IN SCOPE	CW	S3	03	68	49	0	0	0	117	0	117	0	0	0	0	117	0	0	0	0	0	117
0 105	SEWER REHABILITATION - CUT REPAIRS	CW	S4	03	2,995	4,001	4,001	641	0	11,638	0	11,638	0	0	0	0	11,638	0	0	0	0	0	11,638
0 106	GROUPS 2, 3 & 4 SEWAGE PUMPING STA-CHANGE IN SCOPE	CW	S3	03	2	0	0	0	0	2	0	2	0	0	0	0	2	0	0	0	0	0	2
	Sub-total				62,538	82,916	90,957	78,637	69,853	384,901	340,465	725,366	0	0	2,089	0	723,277	0	0	0	0	0	725,366

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					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAS906960 STREAM RESTORATION &amp; EROSION CONTRC</b>																							
0 5	10 YEAR STREAM RESTORATION - ALL DISTRICTS	CW	S6	03	0	85	250	950	255	1,540	39,495	41,035	0	0	0	0	41,035	0	0	0	0	41,035	
0 7	STREAM RESTORATION	CW	S2	03	73	0	0	0	0	73	0	73	0	0	6	0	67	0	0	0	0	73	
0 41	WATERCOURSE - ENGINEERING	CW	S2	03	972	1,300	900	1,040	665	4,877	795	5,672	0	0	441	0	5,231	0	0	0	0	5,672	
0 43	PARTNER PROJECTS	CW	S2	03	600	600	200	0	0	1,400	0	1,400	0	0	112	0	1,288	0	0	0	0	1,400	
0 45	WATERCOURSE - CONSTRUCTION	CW	S4	03	850	5,470	2,045	1,500	1,450	11,315	1,700	13,015	0	0	0	0	13,015	0	0	0	0	13,015	
0 51	STUDIES, EAs, MASTER PLANS	CW	S2	03	3,017	1,562	593	75	0	5,247	0	5,247	0	0	461	0	4,786	0	0	0	0	5,247	
0 52	CRITICAL REPAIRS	CW	S2	03	3,159	1,958	2,223	673	548	8,561	30	8,591	0	0	668	0	7,923	0	0	0	0	8,591	
0 53	EMERGENCY EROSION CONTROL	CW	S2	03	300	300	300	150	0	1,050	0	1,050	0	0	84	0	966	0	0	0	0	1,050	
0 54	STUDY, EA, MASTER PLAN UPDATES - FUTURE	CW	S6	03	0	0	500	500	500	1,500	1,500	3,000	0	0	444	0	2,556	0	0	0	0	3,000	
0 58	WATERCOURSE - CONSTRUCTION - FUTURE	CW	S6	03	0	250	2,750	7,600	5,650	16,250	18,000	34,250	0	0	0	0	34,250	0	0	0	0	34,250	
0 62	STUDIES, EAs, MASTER PLANS -CHANGE IN SCOPE	CW	S3	03	-1,770	775	845	275	175	300	75	375	0	0	372	0	3	0	0	0	0	375	
0 63	EMERGENCY EROSION CONTROL-CHANGE IN SCOPE	CW	S3	03	2,384	2,572	2,691	2,904	2,710	13,261	615	13,876	0	0	-84	0	13,960	0	0	0	0	13,876	
0 64	STREAM RESTORATION -CHANGE IN SCOPE	CW	S3	03	-22	0	0	0	0	-22	0	-22	0	0	-6	0	-16	0	0	0	0	-22	
0 65	CRITICAL REPAIRS-CHANGE IN SCOPE	CW	S3	03	-824	1,416	299	517	-523	885	-5	880	0	0	-668	0	1,548	0	0	0	0	880	
0 66	PARTNER PROJECTS-CHANGE IN SCOPE	CW	S3	03	0	0	0	0	0	0	0	0	0	0	-112	0	112	0	0	0	0	0	
0 67	WATERCOURSE - ENGINEERING-CHANGE IN SCOPE	CW	S3	03	-378	51	753	763	990	2,179	1,415	3,594	0	0	-441	0	4,035	0	0	0	0	3,594	
Sub-total					8,361	16,339	14,349	16,947	12,420	68,416	63,620	132,036	0	0	1,277	0	130,759	0	0	0	0	132,036	
<b>WAS906966 SWM TRCA FUNDING</b>																							
0 8	10 YEAR TRCA FUNDING	CW	S6	04	0	4,604	4,719	4,837	4,958	19,118	26,713	45,831	0	0	0	0	45,831	0	0	0	0	45,831	
0 24	TORONTO WATER TRANSFER TO TRCA CAP-CHANGE IN SCOPE	CW	S3	04	4,491	0	0	0	0	4,491	0	4,491	0	0	674	0	3,817	0	0	0	0	4,491	
Sub-total					4,491	4,604	4,719	4,837	4,958	23,609	26,713	50,322	0	0	674	0	49,648	0	0	0	0	50,322	
<b>WAS906968 ENGINEERING</b>																							
0 2	CONSULTING FEES	CW	S2	03	16,913	6,921	2,301	1,145	710	27,990	996	28,986	0	0	0	0	28,986	0	0	0	0	28,986	
0 59	ROAD RESTORATION	CW	S2	03	729	0	0	0	0	729	0	729	0	0	0	0	729	0	0	0	0	729	





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**Wastewater Program**

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By								
					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
<b>WAS906973 SEWER REPLACEMENT PROGRAM</b>																						
0 105	SEWER REPLC - 2019 PROGRAM-CHANGE IN SCOPE	CW	S3	03	-9,821	6,660	15,588	4,712	2,469	19,608	100	19,708	0	0	-130	0	19,838	0	0	0	0	19,708
0 106	2012 SEWER REPLC-CHANGE IN SCOPE	CW	S3	03	-320	225	0	0	0	-95	0	-95	0	0	0	0	-95	0	0	0	0	-95
0 107	CSP RENEWAL-CHANGE IN SCOPE	CW	S3	03	-1,639	659	400	0	0	-580	0	-580	0	0	-62	0	-518	0	0	0	0	-580
0 108	EBF REPORT-CHANGE IN SCOPE	CW	S3	04	-521	1,000	0	0	0	479	0	479	0	0	43	0	436	0	0	0	0	479
0 109	WATERFRONT STORMWATER INFRASTRUCTU-CHANGE IN SCOPE	CW	S3	04	-2,250	825	0	0	0	-1,425	0	-1,425	0	0	-1,139	0	-286	0	0	0	0	-1,425
0 110	SEWER REPLC - 2014 PROGRAM-CHANGE IN SCOPE	CW	S3	03	-9	0	0	0	0	-9	0	-9	0	0	-1	0	-8	0	0	0	0	-9
0 111	SEWER REPLC - 2015 PROGRAM-CHANGE IN SCOPE	CW	S3	03	-394	150	0	0	0	-244	0	-244	0	0	-20	0	-224	0	0	0	0	-244
0 114	SEWER REPLACEMENT - METROLINX-CHANGE IN SCOPE	CW	S3	03	-600	291	241	0	0	-68	0	-68	0	0	0	0	-68	0	0	0	0	-68
0 115	FORCEMAIN REPLACEMENT - 2016-CHANGE IN SCOPE	CW	S3	03	-6,680	-3,231	5,635	5,000	0	724	0	724	0	0	0	0	724	0	0	0	0	724
Sub-total					19,712	28,791	27,493	22,362	22,619	120,977	96,050	217,027	0	0	10,227	0	206,800	0	0	0	0	217,027
<b>WAS906980 ASHBRIDGES BAY T.P. YR2006</b>																						
0 9	DEWATERING EQUIPMENT UPGRADES	CW	S2	03	100	0	0	0	0	100	0	100	0	0	8	0	92	0	0	0	0	100
0 45	DEWATERING EQUIPMENT UPGRADES-CHANGE IN SCOPE	CW	S3	03	1	0	0	0	0	1	0	1	0	0	7	0	-6	0	0	0	0	1
Sub-total					101	0	0	0	0	101	0	101	0	0	15	0	86	0	0	0	0	101
<b>WAS906981 HIGHLAND CREEK WWTP UPGRADES</b>																						
0 1	PROCESS & FACILITY UPGRADE	CW	S2	04	2,598	1,607	1,650	1,600	85	7,540	0	7,540	0	0	0	0	7,540	0	0	0	0	7,540
0 3	BIOSOLIDS TREATMENT UPGRADES	CW	S2	03	299	31	0	0	0	330	0	330	0	0	31	0	299	0	0	0	0	330
0 5	TRANSFORMERS AND SWITCHGEAR	CW	S2	05	198	800	500	0	0	1,498	0	1,498	0	0	120	0	1,378	0	0	0	0	1,498
0 7	MECH & ELECTRICAL UPGRADE ENGINEERING	CW	S2	03	60	0	0	0	0	60	0	60	0	0	0	0	60	0	0	0	0	60
0 8	DIGESTER GAS SYSTEM UPGRADES	CW	S2	03	3,668	5,482	0	0	0	9,150	0	9,150	0	0	0	0	9,150	0	0	0	0	9,150
0 23	ELECTRICAL UPGRADES - ECAR	CW	S2	03	5,122	0	0	0	0	5,122	0	5,122	0	0	0	0	5,122	0	0	0	0	5,122
0 32	CEPA COMPLIANCE - CL NOTICE - HCTP	CW	S2	02	5,561	8,900	8,532	50	0	23,043	0	23,043	0	0	0	0	23,043	0	0	0	0	23,043
0 80	DIGESTER CLEANING, REHAB AND IMPROVEMENTS #4-7	CW	S2	03	189	46	15	14	0	264	0	264	0	0	0	0	264	0	0	0	0	264
0 92	LIQUID TRAIN REPAIRS - PHASE 1	CW	S2	03	36,371	35,040	19,000	10,000	0	100,411	0	100,411	0	0	0	0	100,411	0	0	0	0	100,411

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**Wastewater Program**

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By								
					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
<b>WAS906981 HIGHLAND CREEK WWTP UPGRADES</b>																						
0 102	LIQUID TRAIN - ENGINEERING	CW	S2	03	4,155	5,400	5,100	2,640	2,640	19,935	26,947	46,882	0	0	0	0	46,882	0	0	0	0	46,882
0 103	LIQUID TRAIN - CONSTRUCTION	CW	S6	04	0	0	0	0	0	0	122,000	122,000	0	0	0	0	122,000	0	0	0	0	122,000
0 104	PROCESS & FACILITY UPGRADE - FUTURE	CW	S6	03	0	0	0	0	100	100	2,500	2,600	0	0	0	0	2,600	0	0	0	0	2,600
0 105	LIQUID TRAIN REPAIRS - PHASE 2	CW	S6	03	0	0	0	0	0	0	29,100	29,100	0	0	0	0	29,100	0	0	0	0	29,100
0 123	COMMUNICATION SYSTEM	CW	S2	04	600	2,250	2,220	20	10	5,100	0	5,100	0	0	0	0	5,100	0	0	0	0	5,100
0 152	DIGESTER CLEANING, REHAB AND IMPRO-CHANGE IN SCOPE	CW	S3	03	341	-16	52	-14	0	363	0	363	0	0	0	0	363	0	0	0	0	363
0 153	LIQUID TRAIN REPAIRS - PHASE 1-CHANGE IN SCOPE	CW	S3	03	-33,451	-7,110	8,650	21,817	36,150	26,056	19,690	45,746	0	0	0	0	45,746	0	0	0	0	45,746
0 154	BIOSOLIDS TREATMENT UPGRADES -CHANGE IN SCOPE	CW	S3	03	-240	290	0	0	0	50	0	50	0	0	26	0	24	0	0	0	0	50
0 155	DIGESTER GAS SYSTEM UPGRADES-CHANGE IN SCOPE	CW	S3	03	432	-347	13	0	0	98	0	98	0	0	0	0	98	0	0	0	0	98
0 156	TRANSFORMERS AND SWITCHGEAR-CHANGE IN SCOPE	CW	S3	05	2	0	0	0	0	2	0	2	0	0	102	0	-100	0	0	0	0	2
0 157	PROCESS & FACILITY UPGRADE-CHANGE IN SCOPE	CW	S3	04	-1,644	766	-45	-44	1,515	548	1,035	1,583	0	0	0	0	1,583	0	0	0	0	1,583
0 158	ELECTRICAL UPGRADES - ECAR-CHANGE IN SCOPE	CW	S3	03	-4,692	46	0	0	0	-4,646	0	-4,646	0	0	0	0	-4,646	0	0	0	0	-4,646
0 159	LIQUID TRAIN - ENGINEERING-CHANGE IN SCOPE	CW	S3	03	-1,705	115	50	700	0	-840	2,509	1,669	0	0	0	0	1,669	0	0	0	0	1,669
0 161	MECH & ELECTRICAL UPGRADE ENGINEER-CHANGE IN SCOPE	CW	S3	03	-60	0	0	0	0	-60	0	-60	0	0	0	0	-60	0	0	0	0	-60
0 162	CEPA COMPLIANCE - CL NOTICE - HCTP-CHANGE IN SCOPE	CW	S3	02	-4,661	-2,673	-32	7,406	37	77	37	114	0	0	0	0	114	0	0	0	0	114
0 163	COMMUNICATION SYSTEM-CHANGE IN SCOPE	CW	S3	04	-250	-1,930	-1,270	3,330	490	370	0	370	0	0	0	0	370	0	0	0	0	370
Sub-total					12,893	48,697	44,435	47,519	41,027	194,571	203,818	398,389	0	0	279	0	398,110	0	0	0	0	398,389
<b>WAS906982 HUMBER WWTP UPGRADES</b>																						
0 2	CHLORINE FACILITY UPGRADE	CW	S2	01	718	0	0	0	0	718	0	718	0	0	0	0	718	0	0	0	0	718
0 6	NEW SUBSTATION	CW	S2	03	77	0	0	0	0	77	0	77	0	0	0	0	77	0	0	0	0	77
0 7	ELECTRICAL CONDITION ASSESSMENT RECOMMENDATIONS	CW	S2	01	2,285	23	23	0	0	2,331	0	2,331	0	0	0	0	2,331	0	0	0	0	2,331
0 29	ADMIN BUILDING EXPANSION - ENGINEERING	CW	S2	04	710	800	454	427	0	2,391	0	2,391	0	0	0	0	2,391	0	0	0	0	2,391
0 52	HVAC UPGRADES	CW	S2	03	5,978	2,322	17	0	0	8,317	0	8,317	0	0	0	0	8,317	0	0	0	0	8,317
0 81	BLOWER REPLACEMENT	CW	S2	03	5	0	0	100	200	305	12,550	12,855	0	0	0	0	12,855	0	0	0	0	12,855

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**Appendix 7: 2019 Capital Budget; 2020-2028 Capital Plan Including Carry Forward Funding**

**Wastewater Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
<b>WAS906982 HUMBER WWTP UPGRADES</b>																							
0	82	DIGESTERS CLEANING REHAB	CW	S2	04	5,400	6,500	6,000	4,000	3,000	24,900	0	24,900	0	0	0	0	24,900	0	0	0	0	24,900
0	84	DIGESTER CLEANING & REHAB - FUTURE	CW	S6	03	0	0	0	0	1,250	1,250	5,250	6,500	0	0	0	0	6,500	0	0	0	0	6,500
0	95	REPLACEMENT OF WASTE GAS BURNERS	CW	S2	03	8,211	5,500	2,770	40	0	16,521	0	16,521	0	0	0	0	16,521	0	0	0	0	16,521
0	99	WET WEATHER FLOW	CW	S2	04	540	600	2,500	4,750	4,500	12,890	0	12,890	0	0	0	0	12,890	0	0	0	0	12,890
0	107	MESI UPGRADES	CW	S2	03	600	500	500	500	0	2,100	0	2,100	0	0	0	0	2,100	0	0	0	0	2,100
0	114	FIELD OFFICE	CW	S2	03	324	0	0	0	0	324	0	324	0	0	0	0	324	0	0	0	0	324
0	115	ADMIN BUILDING EXPANSION - CONSTRUCTION	CW	S2	03	1,568	1,500	1,500	1,550	0	6,118	0	6,118	0	0	0	0	6,118	0	0	0	0	6,118
0	116	SERVICE REHAB AND UPGRADES	CW	S2	03	600	500	2,500	4,750	4,500	12,850	0	12,850	0	0	0	0	12,850	0	0	0	0	12,850
0	129	ELECTRICAL CONDITION ASSESSMENT RE-CHANGE IN SCOPE	CW	S3	01	-2,200	2,167	1	0	0	-32	0	-32	0	0	0	0	-32	0	0	0	0	-32
0	130	ADMIN BUILDING EXPANSION - CONSTRU-CHANGE IN SCOPE	CW	S3	03	-168	-400	-400	600	0	-368	0	-368	0	0	0	0	-368	0	0	0	0	-368
0	131	ADMIN BUILDING EXPANSION - ENGINEE-CHANGE IN SCOPE	CW	S3	04	69	-195	-105	-400	0	-631	0	-631	0	0	0	0	-631	0	0	0	0	-631
0	132	CHLORINE FACILITY UPGRADE-CHANGE IN SCOPE	CW	S3	01	-718	0	0	0	0	-718	0	-718	0	0	0	0	-718	0	0	0	0	-718
0	133	DIGESTERS CLEANING REHAB-CHANGE IN SCOPE	CW	S3	04	-2,400	0	1,000	1,500	0	100	0	100	0	0	0	0	100	0	0	0	0	100
0	134	MESI UPGRADES-CHANGE IN SCOPE	CW	S3	03	-49	53	55	56	0	115	0	115	0	0	0	0	115	0	0	0	0	115
0	136	SECURITY UPGRADES	CW	S4	01	250	2,950	400	0	0	3,600	0	3,600	0	0	0	0	3,600	0	0	0	0	3,600
0	137	NEW SUBSTATION-CHANGE IN SCOPE	CW	S3	03	29	45	0	0	0	74	0	74	0	0	0	0	74	0	0	0	0	74
0	138	FLOOD PROTECTION-CHANGE IN SCOPE	CW	S3	02	300	275	0	0	0	575	0	575	0	0	0	0	575	0	0	0	0	575
0	139	HVAC UPGRADES-CHANGE IN SCOPE	CW	S3	03	-2,038	-56	2,442	0	0	348	0	348	0	0	0	0	348	0	0	0	0	348
0	140	BLOWER REPLACEMENT-CHANGE IN SCOPE	CW	S3	03	0	30	0	0	0	30	0	30	0	0	0	0	30	0	0	0	0	30
0	141	FIELD OFFICE-CHANGE IN SCOPE	CW	S3	03	-67	110	0	0	0	43	0	43	0	0	0	0	43	0	0	0	0	43
0	142	REPLACEMENT OF WASTE GAS BURNERS-CHANGE IN SCOPE	CW	S3	03	-4,753	600	4,150	288	0	285	0	285	0	0	0	0	285	0	0	0	0	285
0	143	WET WEATHER FLOW-CHANGE IN SCOPE	CW	S3	04	-490	87	-2,000	-1,000	0	-3,403	3,500	97	0	0	0	0	97	0	0	0	0	97
0	144	SERVICE REHAB AND UPGRADES-CHANGE IN SCOPE	CW	S3	03	0	400	3,800	3,350	3,600	11,150	5,450	16,600	0	0	0	0	16,600	0	0	0	0	16,600
Sub-total						14,781	24,311	25,607	20,511	17,050	102,260	26,750	129,010	0	0	0	0	129,010	0	0	0	0	129,010



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**Wastewater Program**

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						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt
<b>WAS907097 ASHBRIDGES BAY WWTP - BUILDING SERVIC</b>																						
0	71	GROVE LANDSCAPING - PHASE 1-CHANGE IN SCOPE	CW	S3	04	-7	0	0	0	0	-7	0	-7	0	0	0	0	0	0	0	-7	
Sub-total						2,525	3,982	4,513	1,000	1,000	13,020	6,450	19,470	0	0	0	0	19,470	0	0	0	19,470
<b>WAS907098 ASHBRIDGES BAY WWTP - EFFLUENT SYSTE</b>																						
0	1	DISINFECTION ENGINEERING	CW	S2	02	4,900	1,550	1,075	492	75	8,092	58	8,150	0	0	657	0	7,493	0	0	0	8,150
0	2	OUTFALL CONSTRUCTION	CW	S2	02	30,000	52,000	57,000	62,000	52,000	253,000	69,000	322,000	0	0	25,914	0	296,086	0	0	0	322,000
0	13	OUTFALL ASSESSMENT	CW	S2	02	57	0	0	0	0	57	0	57	0	0	5	0	52	0	0	0	57
0	14	OUTFALL ENGINEERING	CW	S2	02	5,730	5,863	3,400	2,500	3,100	20,593	4,419	25,012	0	0	2,012	0	23,000	0	0	0	25,012
0	15	DISINFECTION SYSTEM CONSTRUCTION	CW	S2	02	89,633	70,135	50,000	41,000	0	250,768	0	250,768	0	0	21,497	0	229,271	0	0	0	250,768
0	31	OUTFALL - SITE PREP	CW	S2	02	31	0	0	0	0	31	0	31	0	0	5	0	26	0	0	0	31
0	37	OUTFALL ASSESSMENT-CHANGE IN SCOPE	CW	S3	02	-57	0	0	0	0	-57	0	-57	0	0	-5	0	-52	0	0	0	-57
0	38	DISINFECTION SYSTEM CONSTRUCTION-CHANGE IN SCOPE	CW	S3	02	-54,498	-20,000	8,135	4,435	0	-61,928	0	-61,928	0	0	6,445	0	-68,373	0	0	0	-61,928
0	39	DISINFECTION ENGINEERING-CHANGE IN SCOPE	CW	S3	02	-3,006	1,131	1,000	1,000	0	125	0	125	0	0	568	0	-443	0	0	0	125
0	40	OUTFALL CONSTRUCTION-CHANGE IN SCOPE	CW	S3	02	5,000	8,500	8,000	-11,959	-6,959	2,582	-51,982	-49,400	0	0	14,421	0	-63,821	0	0	0	-49,400
0	41	OUTFALL ENGINEERING-CHANGE IN SCOPE	CW	S3	02	-2,604	-2,563	-500	400	1,000	-4,267	4,053	-214	0	0	1,658	0	-1,872	0	0	0	-214
Sub-total						75,186	116,616	128,110	99,868	49,216	468,996	25,548	494,544	0	0	73,177	0	421,367	0	0	0	494,544
<b>WAS907099 ASHBRIDGES BAY WWTP - LIQUID TREATMEN</b>																						
0	1	FINE BUBBLE AERATION - TANK #2	CW	S2	03	316	0	0	0	0	316	0	316	0	0	25	0	291	0	0	0	316
0	2	ODOUR CONTROL - PRIMARY TANKS 7-9 UPGRADES	CW	S6	04	0	0	0	0	0	0	61,100	61,100	0	0	9,041	0	52,059	0	0	0	61,100
0	3	P BLDG HEADWORKS UPGRADE	CW	S2	03	10,627	0	0	0	0	10,627	0	10,627	0	0	1,235	0	9,392	0	0	0	10,627
0	6	M & T PUMPING STATION CRITICAL REPAIRS	CW	S2	03	2,085	0	0	0	0	2,085	0	2,085	0	0	0	0	2,085	0	0	0	2,085
0	10	INTEGRATED PUMPING STATION (IPS) - ENGINEERING	CW	S2	03	5,844	4,763	5,823	2,705	2,210	21,345	14,496	35,841	0	0	0	0	35,841	0	0	0	35,841
0	39	INTEGRATED PUMPING STATION (IPS) - CONSTRUCTION	CW	S2	03	19,220	26,550	47,000	25,025	65,000	182,795	197,850	380,645	0	0	225	0	380,420	0	0	0	380,645
0	77	FINE BUBBLE AERATION - ENGINEERING	CW	S2	03	449	0	0	0	0	449	10,500	10,949	0	0	903	0	10,046	0	0	0	10,949
0	78	FINE BUBBLE AERATION - CONSTRUCTION	CW	S6	03	0	0	0	0	0	0	75,000	75,000	0	0	0	0	75,000	0	0	0	75,000

**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 7: 2019 Capital Budget; 2020-2028 Capital Plan Including Carry Forward Funding**

**Wastewater Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAS907099 ASHBRIDGES BAY WWTP - LIQUID TREATMENT</u>																									
0	84	AERATION TANK 12 & 13	CW	S4	05	50	4,000	4,450	7,800	39,000	55,300	101,850	157,150	0	0	38,550	0	118,600	0	0	0	0	0	157,150	
0	89	INTEGRATED PUMPING STATION (IPS) --CHANGE IN SCOPE	CW	S3	03	979	27,350	45,465	74,275	15,000	163,069	85,650	248,719	0	0	92,898	0	155,821	0	0	0	0	0	248,719	
0	90	INTEGRATED PUMPING STATION (IPS) --CHANGE IN SCOPE	CW	S3	03	-815	870	500	0	0	555	75	630	0	0	5,471	0	-4,841	0	0	0	0	0	630	
0	91	M & T PUMPING STATION CRITICAL REP-CHANGE IN SCOPE	CW	S3	03	-1,235	1,417	0	0	0	182	0	182	0	0	0	0	182	0	0	0	0	0	182	
0	92	FINE BUBBLE AERATION - ENGINEERING-CHANGE IN SCOPE	CW	S3	03	1	74	0	0	0	75	3,000	3,075	0	0	1,173	0	1,902	0	0	0	0	0	3,075	
0	93	FINE BUBBLE AERATION - TANK #2-CHANGE IN SCOPE	CW	S3	03	-316	0	0	0	0	-316	0	-316	0	0	-25	0	-291	0	0	0	0	0	-316	
0	94	P BLDG HEADWORKS UPGRADE-CHANGE IN SCOPE	CW	S3	03	-4,992	6,727	0	0	0	1,735	0	1,735	0	0	619	0	1,116	0	0	0	0	0	1,735	
Sub-total						32,213	71,751	103,238	109,805	121,210	438,217	549,521	987,738	0	0	150,115	0	837,623	0	0	0	0	0	987,738	
<u>WAS907100 ASHBRIDGES BAY WWTP - SOLIDS &amp; GAS HA</u>																									
0	3	WASTE ACTIVATED SLUDGE UPGRADE - ENGINEERING	CW	S2	03	2,788	2,500	2,500	2,000	500	10,288	304	10,592	0	0	871	0	9,721	0	0	0	0	0	10,592	
0	4	DIGESTERS 9-12 REFURBISH	CW	S2	03	21,933	10,767	6,485	12	80	39,277	0	39,277	0	0	3,563	0	35,714	0	0	0	0	0	39,277	
0	8	BIOSOLIDS PELLETIZER RETROFIT	CW	S2	03	422	400	400	400	0	1,622	0	1,622	0	0	0	0	1,622	0	0	0	0	0	1,622	
0	22	WASTE ACTIVATED SLUDGE UPGRADE - CONSTRUCTION	CW	S2	03	36,485	35,000	35,000	30,000	20,000	156,485	0	156,485	0	0	12,637	0	143,848	0	0	0	0	0	156,485	
0	25	PELLETIZER TRUCK LOADING FACILITY UPGRADES	CW	S2	03	968	695	820	55	55	2,593	0	2,593	0	0	0	0	2,593	0	0	0	0	0	2,593	
0	52	PRIMARY SLUDGE BUFFER TANK AND HEAT RECOVERY	CW	S4	04	50	200	1,975	3,200	350	5,775	65	5,840	0	0	0	0	5,840	0	0	0	0	0	5,840	
0	53	PELLETIZER FACILITY	CW	S4	03	800	2,000	2,000	2,500	400	7,700	97,850	105,550	0	0	0	0	105,550	0	0	0	0	0	105,550	
0	56	WASTE ACTIVATED SLUDGE UPGRADE - C-CHANGE IN SCOPE	CW	S3	03	-31,485	3,000	7,000	15,000	22,000	15,515	0	15,515	0	0	12,812	0	2,703	0	0	0	0	0	15,515	
0	57	WASTE ACTIVATED SLUDGE UPGRADE - E-CHANGE IN SCOPE	CW	S3	03	-1,288	-1,000	0	500	1,500	-288	0	-288	0	0	675	0	-963	0	0	0	0	0	-288	
0	58	DIGESTERS 9-12 REFURBISH-CHANGE IN SCOPE	CW	S3	03	-12,123	4,243	9,945	1,261	0	3,326	0	3,326	0	0	2,741	0	585	0	0	0	0	0	3,326	
0	59	BIOSOLIDS PELLETIZER RETROFIT-CHANGE IN SCOPE	CW	S3	03	-22	0	0	-236	0	-258	0	-258	0	0	0	0	-258	0	0	0	0	0	-258	
0	60	PELLETIZER TRUCK LOADING FACILITY -CHANGE IN SCOPE	CW	S3	03	-468	348	0	0	60	-60	125	65	0	0	0	0	65	0	0	0	0	0	65	
Sub-total						18,060	58,153	66,125	54,692	44,945	241,975	98,344	340,319	0	0	33,299	0	307,020	0	0	0	0	0	340,319	
<u>WAS907101 ASHBRIDGES BAY WWTP - O&amp;M UPGRADES</u>																									
0	5	BOILER #4 DESIGN	CW	S2	03	6	0	0	0	0	6	0	6	0	0	0	0	6	0	0	0	0	0	6	



**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 7: 2019 Capital Budget; 2020-2028 Capital Plan Including Carry Forward Funding**

**Wastewater Program**

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By								
					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable	Total Financing
<b>WAS907106 HUMBER WWTP - ODOUR CONTROL</b>																						
0 1	ODOUR CONTROL IMPLEMENTATION - PHASE 1	CW	S2	02	766	0	0	0	0	766	0	766	0	0	69	0	697	0	0	0	0	766
0 15	ODOUR CONTROL IMPLEMENTATION - PHA-CHANGE IN SCOPE	CW	S3	02	434	2,401	0	0	550	3,385	550	3,935	0	0	637	0	3,298	0	0	0	0	3,935
Sub-total					1,200	2,401	0	0	550	4,151	550	4,701	0	0	706	0	3,995	0	0	0	0	4,701
<b>WAS907224 SEWAGE PUMPING STATION UPGRADES</b>																						
0 1	SPS UPGRADES	CW	S2	02	2,212	750	0	0	0	2,962	0	2,962	0	0	292	0	2,670	0	0	0	0	2,962
0 4	SUNNYSIDE AND MARYPORT SPS UPGRADES	CW	S2	05	150	400	3,350	4,265	1,975	10,140	10	10,150	0	0	817	0	9,333	0	0	0	0	10,150
0 18	SPS UPGRADES - GROUP 6	CW	S2	02	3,891	5,250	5,356	4,390	3,598	22,485	55	22,540	0	0	1,814	0	20,726	0	0	0	0	22,540
0 26	SPS UPGRADES - GROUP 7	CW	S2	03	4	0	0	0	0	4	0	4	0	0	1	0	3	0	0	0	0	4
0 34	FACILITY & PROCESS UPGRADES	CW	S2	02	435	3,025	3,125	2,600	2,200	11,385	3,200	14,585	0	0	1,179	0	13,406	0	0	0	0	14,585
0 35	SCOTT ST PS & SIMCOE ST PS	CW	S2	03	400	500	500	500	0	1,900	0	1,900	0	0	0	0	1,900	0	0	0	0	1,900
0 36	SPS UPGRADES - GRINDERS	CW	S6	03	0	100	250	200	1,700	2,250	1,525	3,775	0	0	0	0	3,775	0	0	0	0	3,775
0 37	SPS UPGRADES - GROUP 8	CW	S6	02	0	0	0	100	325	425	22,925	23,350	0	0	3,456	0	19,894	0	0	0	0	23,350
0 38	SPS UPGRADES - VFD	CW	S6	03	0	0	0	50	675	725	4,025	4,750	0	0	0	0	4,750	0	0	0	0	4,750
0 39	SUNNYSIDE AND MARYPORT SPS UPGRADE-CHANGE IN SCOPE	CW	S3	05	-150	-350	-3,060	-2,020	-925	-6,505	890	-5,615	0	0	1,451	0	-7,066	0	0	0	0	-5,615
0 40	FACILITY & PROCESS UPGRADES-CHANGE IN SCOPE	CW	S3	02	-60	-1,950	438	3,900	6,300	8,628	2,753	11,381	0	0	2,663	0	8,718	0	0	0	0	11,381
0 41	SCOTT ST PS & SIMCOE ST PS-CHANGE IN SCOPE	CW	S3	03	51	53	55	56	0	215	0	215	0	0	0	0	215	0	0	0	0	215
0 42	SPS UPGRADES - GROUP 7-CHANGE IN SCOPE	CW	S3	03	6	0	0	0	0	6	0	6	0	0	1	0	5	0	0	0	0	6
0 43	SPS UPGRADES - GROUP 6-CHANGE IN SCOPE	CW	S3	02	-1,068	215	0	500	501	148	0	148	0	0	1,544	0	-1,396	0	0	0	0	148
0 44	SPS UPGRADES-CHANGE IN SCOPE	CW	S3	02	-1,106	-55	0	0	0	-1,161	0	-1,161	0	0	-22	0	-1,139	0	0	0	0	-1,161
0 45	SUNNYSIDE SPS - WETWELL	CW	S6	03	0	30	400	1,660	410	2,500	0	2,500	0	0	370	0	2,130	0	0	0	0	2,500
Sub-total					4,765	7,968	10,414	16,201	16,759	56,107	35,383	91,490	0	0	13,566	0	77,924	0	0	0	0	91,490
<b>WAS907559 DON &amp; WATERFRONT TRUNK CSO</b>																						
0 1	DON & WATERFRONT TRUNK/CSO PKG 1 - DESIGN	CW	S2	04	10,946	6,475	6,475	6,475	615	30,986	461	31,447	0	0	2,566	0	28,881	0	0	0	0	31,447
0 4	Don & Waterfront Trunk/CSO Construction - PHASE 2	CW	S6	04	0	0	0	0	25	25	197,000	197,025	0	0	29,153	0	167,872	0	0	0	0	197,025



**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 7: 2019 Capital Budget; 2020-2028 Capital Plan Including Carry Forward Funding**

**Wastewater Program**

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By									
					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAS907559 DON &amp; WATERFRONT TRUNK CSO</b>																							
0 15	DCW - PHASE 1 - ADDITIONAL SCOPE	CW	S2	04	2,850	0	0	0	0	2,850	0	2,850	0	0	229	0	2,621	0	0	0	0	2,850	
0 17	DCW - PH1 - OFFLINE STORAGE TANK SHEPPARD/LESLIE	CW	S2	04	1,340	11,175	4,060	51	50	16,676	0	16,676	0	0	1,353	0	15,323	0	0	0	0	16,676	
0 18	Don & Waterfront Trunk/CSO Construction - PHASE 1	CW	S2	04	80,000	85,000	85,000	85,000	85,000	420,000	62,500	482,500	0	0	33,509	0	448,991	0	0	0	0	482,500	
0 19	DCW - MTI REGULATION/RTC	CW	S6	04	0	250	750	2,250	2,750	6,000	2,300	8,300	0	0	1,228	0	7,072	0	0	0	0	8,300	
0 20	DCW - HRT DON & WATERFRONT TRUNK CSO	CW	S6	04	0	0	150	4,000	4,000	8,150	274,600	282,750	0	0	41,837	0	240,913	0	0	0	0	282,750	
0 21	DCW - COXWELL CONNECTIONS	CW	S6	04	0	0	0	0	3,000	3,000	114,500	117,500	0	0	17,386	0	100,114	0	0	0	0	117,500	
0 24	DON & WATERFRONT TRUNK/CSO PKG 1 --CHANGE IN SCOPE	CW	S3	04	-6,425	5,196	0	0	2,500	1,271	0	1,271	0	0	2,341	0	-1,070	0	0	0	0	1,271	
0 25	DCW - PHASE 1 - ADDITIONAL SCOPE-CHANGE IN SCOPE	CW	S3	04	-1,716	1,716	0	0	0	0	0	0	0	0	193	0	-193	0	0	0	0	0	
0 26	Don & Waterfront Trunk/CSO Constru-CHANGE IN SCOPE	CW	S3	04	3,895	-8,252	-15,000	-5,000	-26,000	-50,357	-37,038	-87,395	0	0	13,114	0	-100,509	0	0	0	0	-87,395	
0 27	DCW - PH1 - OFFLINE STORAGE TANK S-CHANGE IN SCOPE	CW	S3	04	-715	-10,596	3,940	11,349	7,652	11,630	50	11,680	0	0	2,843	0	8,837	0	0	0	0	11,680	
Sub-total					90,175	90,964	85,375	104,125	79,592	450,231	614,373	1,064,604	0	0	145,752	0	918,852	0	0	0	0	1,064,604	
<b>WAS907700 NORTH TORONTO WTP UPGRADES</b>																							
0 2	NTPP - ELECTRICAL UPGRADES - ECAR	CW	S2	01	3,129	1,991	1,585	31	0	6,736	0	6,736	0	0	0	0	6,736	0	0	0	0	6,736	
0 10	OPS INTERFACE NTPP	CW	S2	04	200	0	0	0	0	200	0	200	0	0	0	0	200	0	0	0	0	200	
0 11	NTPP - PROCESS IMPROVEMENTS	CW	S2	04	5,572	5,100	50	50	0	10,772	0	10,772	0	0	0	0	10,772	0	0	0	0	10,772	
0 15	NTPP - ELECTRICAL UPGRADES - ECAR-CHANGE IN SCOPE	CW	S3	01	-2,430	2,186	774	2,343	1,891	4,764	31	4,795	0	0	0	0	4,795	0	0	0	0	4,795	
0 16	NTPP - PROCESS IMPROVEMENTS-CHANGE IN SCOPE	CW	S3	04	-4,638	1,162	5,960	5,811	3,770	12,065	12	12,077	0	0	0	0	12,077	0	0	0	0	12,077	
Sub-total					1,833	10,439	8,369	8,235	5,661	34,537	43	34,580	0	0	0	0	34,580	0	0	0	0	34,580	
<b>WAS908143 Georgetown South City Infrastructure Upgrades</b>																							
0 1	GEORGETOWN SOUTH CITY INFRASTRUCTURE UPGRADES	CW	S2	05	5,115	0	0	0	0	5,115	0	5,115	0	0	412	0	4,703	0	0	0	0	5,115	
0 9	GEORGETOWN SOUTH CITY INFRASTRUCTU-CHANGE IN SCOPE	CW	S3	05	0	0	0	0	0	0	0	0	0	0	4,703	0	-4,703	0	0	0	0	0	
Sub-total					5,115	0	0	0	0	5,115	0	5,115	0	0	5,115	0	0	0	0	0	0	5,115	
<b>WASWP003 EMERY CREEK POND</b>																							
0 1	EMERY CREEK POND	CW	S2	04	1,097	94	0	0	0	1,191	0	1,191	0	0	97	0	1,094	0	0	0	0	1,191	



**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 7: 2019 Capital Budget; 2020-2028 Capital Plan Including Carry Forward Funding**

**Wastewater Program**

		Current and Future Year Cash Flow Commitments and Estimates									Current and Future Year Cash Flow Commitments and Estimates Financed By												
		2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserve Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing				
Sub- Priority	Project No. SubProj No.	Project Name Sub-project Name	Ward	Stat.	Cat.																		
Financed By:																							
		Provincial Grants & Subsidies				0	2,500	2,500	2,500	3,000	10,500	15,000	25,500	25,500	0	0	0	0	0	0	0	0	25,500
		Federal Subsidy				0	2,500	2,500	2,500	3,000	10,500	15,000	25,500	0	25,500	0	0	0	0	0	0	0	25,500
		Development Charges				62,065	93,364	105,577	72,122	78,081	411,209	361,548	772,757	0	0	772,757	0	0	0	0	0	0	772,757
		Reserve Funds (Ind."XR" Ref.)				548,048	933,824	1,011,843	1,013,195	843,011	4,349,921	3,829,429	8,179,350	0	0	0	0	0	0	0	0	0	8,179,350
		<b>Total Program Financing</b>				610,113	1,032,188	1,122,420	1,090,317	927,092	4,782,130	4,220,977	9,003,107	25,500	25,500	772,757	0	0	0	0	0	0	9,003,107

**Status Code Description**

S2 S2 Prior Year (With 2019 and/or Future Year Cashflow)

S3 S3 Prior Year - Change of Scope 2019 and/or Future Year Cost(Cashflow)

S4 S4 New - Stand-Alone Project (Current Year Only)

S5 S5 New (On-going or Phased Projects)

S6 S6 New - Future Year (Commencing in 2020 & Beyond)

**Category Code Description**

01 Health and Safety C01

02 Legislated C02

03 State of Good Repair C03

04 Service Improvement and Enhancement C04

05 Growth Related C05

06 Reserved Category 1 C06

07 Reserved Category 2 C07

## Appendix 8

### 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding

(In \$000s)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total 2019 Cash Flow & FY Commits
<b>Expenditures:</b>											
<b>Previously Approved</b>											
Water Meter Program (AMR)	578										578
Basement Flooding	130,866	138,430	141,337	138,902	156,388	147,270	148,000	92,065	15,300		1,108,558
Business & Technology	14,289	11,663	9,343	3,730	3,175	1,800					44,000
Linear Eng	68,383	37,607	17,734	14,745	7,000	2,429	705	2,139			150,742
NewConnections	12,323										12,323
NewSewers	13,703	9,450	6,500	2,300							31,953
Sewer Rehabilitation	80,225	36,516	8,243	7,443							132,427
Sewer Replacement	37,934	11,792	4,536	830							55,092
WM Rehabilitation	82,578	19,734	314	175							102,801
WM Replacement	187,116	56,840	20,683	586	71	40					265,336
Water Service Replacement	66,698	18,901	5,001								90,600
Pumping Stations	26,800	24,966	12,458	11,755	7,773	3,165	100				87,017
Trunk Water Mains	36,977	27,575	4,477	1,042	700	700	245	35			71,751
WT - Storage & Treatment	49,277	41,229	22,463	6,065	5,298	2,650	25				127,007
Trunk Sewers & Pumping Stations	62,247	57,488	71,146	39,776	9,357	142					240,156
Ashbridges Bay TP	308,384	283,867	239,572	199,814	155,651	107,726	106,250	73,527	10,384		1,485,175
Highland Creek TP	66,106	70,878	64,273	41,374	29,755	21,340	19,155	18,460	1,362		332,703
Humber TP	66,039	51,735	51,279	31,417	34,789	10,900	4,900	4,910	3,009		258,978
RL Clark TP	11,204	4,480	260	235							16,179
RC Harris TP	21,224	7,927	2,247	1,250							32,648
FJ Horgan TP	4,365	3,172	1,260	244							9,041
Island TP	18,310	24,305	20,057	9,275	200	200					72,347
WTP-Plantwide	6,336	5,173	5,120	2,881	947	732	50				21,239
Water Efficiency Plan	445	445	445	445							1,780
WWF-Implementation Projects	122,228	131,446	115,361	100,357	91,065	69,511	5,340	9,600	33,200		678,108
WWF-TRCA	800										800
WWF - Stream Restoration	8,121	5,720	4,216	1,938	1,213	470	180	105	70		22,033
Yards & Facility	12,807	9,217	2,958	502	210	210	210	210	8,660		34,984
<b>Subtotal</b>	<b>1,516,363</b>	<b>1,090,556</b>	<b>831,283</b>	<b>617,081</b>	<b>503,592</b>	<b>369,285</b>	<b>285,160</b>	<b>201,051</b>	<b>71,985</b>	<b>-</b>	<b>5,486,356</b>
<b>Change in Scope</b>											
Water Meter Program (AMR)	4,605	1,680	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	18,285
Basement Flooding	(54,861)	4,435	8,864	36,155	(4,578)	(19,627)	(30,665)	18,615	20,000	20,000	(1,662)
Business & Technology	(3,008)	(300)	2,161	1,682	1,500						2,035
Linear Eng	9,739	41,646	69,139	51,785	33,692	12,315	2,395	(1,269)			219,442
NewConnections	29,513	50,881	52,758	4,634							137,786
NewSewers	(7,188)	116	12,959	24,237	11,651	2,930	1,048	698			46,451
Sewer Rehabilitation	(27,342)	33,869	56,312	19,300	4,000	200					86,339
Sewer Replacement	(21,226)	9,491	16,550	4,682	2,469	100					12,066
WM Rehabilitation	(26,559)	46,795	28,444	745							49,425
WM Replacement	(90,498)	108,408	128,313	35,530	8,564						190,317
Water Service Replacement	(35,577)	45,199	42,030	19,400	3,000						74,052
Pumping Stations	(11,686)	(4,144)	4,766	7,436	5,876	3,643					5,891
Trunk Water Mains	(21,432)	(3,691)	15,575	3,400	441	492	500	400	400	400	(3,515)
WT - Storage & Treatment	(21,896)	(2,383)	10,959	12,163	1,014	1,192					1,049
Trunk Sewers & Pumping Stations	(35,290)	17,754	(7,913)	(3,330)	8,600	8,002					(12,177)
Ashbridges Bay TP	(154,018)	28,515	111,426	98,039	53,110	4,624	(14,227)	(16,815)	40,165	31,525	182,344
Highland Creek TP	(38,833)	(11,408)	(5,471)	28,891	33,222	20,727	15,725	(6,240)	5,215	8,004	49,832
Humber TP	(19,161)	4,877	9,184	4,389	4,348	8,357	35	25	551		12,605
RL Clark TP	(815)	1,161	58	56							460
RC Harris TP	(16,587)	8,784	9,265	1,587	1,024	550					4,623
FJ Horgan TP	(3,339)	(821)	1,706	1,083	910	1,011					550
Island TP	(12,425)	(9,831)	6,634	16,960	10,124	817					12,279
WTP-Plantwide	(3,640)	1,205	908	2,976	2,257	187	5				3,898
Water Efficiency Plan	50	261	158	162	167						798
WWF-Implementation Projects	(13,129)	4,535	33,911	43,808	667	(42,757)	(3,428)	(6,500)	(23,900)	28,000	21,207
WWF-TRCA	13,991										13,991
WWF - Stream Restoration	(610)	4,814	4,588	4,459	3,352	1,560	380	90	50	20	18,703
Yards & Facility	(6,725)	310	8,617	570	120					210	3,102
<b>Subtotal</b>	<b>(567,947)</b>	<b>382,158</b>	<b>623,401</b>	<b>422,299</b>	<b>187,030</b>	<b>5,823</b>	<b>(26,732)</b>	<b>(9,496)</b>	<b>43,981</b>	<b>89,659</b>	<b>1,150,176</b>
<b>New w/Future Year</b>											
Business & Technology	1,865	970	75	50	200						3,160
Sewer Rehabilitation	2,995	4,001	4,001	641							11,638
WT - Storage & Treatment	225	900	5,500	5,060	1,610	1,920	2,430	1,575	950	450	20,620
Trunk Sewers & Pumping Stations	1,475	3,735	6,170	33,677	17,213	18,218	3,860	80			84,428
Ashbridges Bay TP	2,380	15,345	17,045	21,295	53,815	105,215	101,530	55,150	24,735	8,375	404,885
Humber TP	250	2,950	400								3,600
RC Harris TP	900	1,800									2,700
Island TP	900	8,700	2,300	3,300		150		150		150	15,650
WTP-Plantwide	250	4,250	4,500	10,000	1,000						20,000
WWF - Stream Restoration	850	5,470	2,045	1,500	1,450	1,000	700				13,015
<b>Subtotal</b>	<b>12,090</b>	<b>48,121</b>	<b>42,036</b>	<b>75,523</b>	<b>75,288</b>	<b>126,503</b>	<b>108,520</b>	<b>56,955</b>	<b>25,685</b>	<b>8,975</b>	<b>579,696</b>
<b>Total Expenditure</b>	<b>960,506</b>	<b>1,520,835</b>	<b>1,496,720</b>	<b>1,114,903</b>	<b>765,910</b>	<b>501,611</b>	<b>366,948</b>	<b>248,510</b>	<b>141,651</b>	<b>98,634</b>	<b>7,216,228</b>
<b>Financing:</b>											
Other (Region of York)	6,117	9,319	6,969	2,913	1,223	585	373	265			27,764
Reserves/Res Funds	863,614	1,385,972	1,358,666	1,036,318	688,236	438,718	309,702	220,930	127,080	86,783	6,516,019
Development Charges	90,775	125,544	131,085	75,672	76,451	62,308	56,873	27,315	14,571	11,851	672,445
<b>Total Financing</b>	<b>960,506</b>	<b>1,520,835</b>	<b>1,496,720</b>	<b>1,114,903</b>	<b>765,910</b>	<b>501,611</b>	<b>366,948</b>	<b>248,510</b>	<b>141,651</b>	<b>98,634</b>	<b>7,216,228</b>





**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Water Program**

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By									
					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAT906468 HORGAN TRUNK MAIN EXPANSION</b>																							
0 53	DOWNSVIEW MAIN (KEELE PS TO DOWNSV-CHANGE IN SCOPE	CW	S3	05	-240	0	200	0	0	-40	100	60	0	0	3,894	0	-3,834	0	0	0	0	0	60
Sub-total					1,000	1,100	1,900	700	700	5,400	1,080	6,480	0	0	6,480	0	0	0	0	0	0	0	6,480
<b>WAT906470 ISLAND W.T.P. R&amp;R</b>																							
0 8	CHEMICAL & RESIDUALS MANAGMENT ENGINEERING	CW	S2	02	2,407	900	980	850	200	5,337	200	5,537	0	0	0	0	5,537	0	0	0	0	0	5,537
0 11	CHEMICAL & RESIDUALS MANAGEMENT CONST	CW	S2	02	1,530	15,000	18,000	7,400	0	41,930	0	41,930	0	0	2,551	0	39,379	0	0	0	0	0	41,930
0 34	CHEMICAL & RESIDUALS MANAGMENT ENG-CHANGE IN SCOPE	CW	S3	02	-1,517	659	183	430	929	684	167	851	0	0	0	0	851	0	0	0	0	0	851
0 35	CHEMICAL & RESIDUALS MANAGEMENT CO-CHANGE IN SCOPE	CW	S3	02	-1,500	-14,097	-3,000	10,600	7,400	-597	0	-597	0	0	3,564	0	-4,161	0	0	0	0	0	-597
Sub-total					920	2,462	16,163	19,280	8,529	47,354	367	47,721	0	0	6,115	0	41,606	0	0	0	0	0	47,721
<b>WAT906481 DISTRICT WATERMAINS - NEW</b>																							
0 1	NEW WATERMAIN	CW	S2	05	58	500	0	0	0	558	0	558	0	0	558	0	0	0	0	0	0	0	558
0 17	NEW WM -CHANGE IN SCOPE	CW	S3	05	-48	0	500	0	0	452	0	452	0	0	452	0	0	0	0	0	0	0	452
Sub-total					10	500	500	0	0	1,010	0	1,010	0	0	1,010	0	0	0	0	0	0	0	1,010
<b>WAT906483 PW ENGINEERING</b>																							
0 2	CAPITAL PROGRAMMING & FACILITY ASSET PLANNING	CW	S2	03	3,903	2,300	0	0	0	6,203	0	6,203	0	0	0	0	6,203	0	0	0	0	0	6,203
0 5	WATERMAIN ASSET PLANNING	CW	S2	03	2,839	2,050	1,055	1,100	1,120	8,164	675	8,839	0	0	2,195	0	3,145	0	0	3,499	0	0	8,839
0 7	EASEMENT ACQUISITION	CW	S2	04	690	0	0	0	0	690	0	690	0	0	0	0	690	0	0	0	0	0	690
0 22	WATER LOSS REDUCTION STRATEGY	CW	S2	03	889	429	1,000	1,000	1,000	4,318	0	4,318	0	0	0	0	4,318	0	0	0	0	0	4,318
0 37	ASSET MGMT SYSTEM IMPLEMENTATION	CW	S2	04	1,550	1,000	1,000	1,000	1,000	5,550	1,500	7,050	0	0	1,763	0	5,287	0	0	0	0	0	7,050
0 52	JOS UPDATE PHASE II	CW	S2	05	657	0	0	0	0	657	0	657	0	0	329	0	-1	0	0	329	0	0	657
0 76	WATERMAIN ASSET PLANNING-CHANGE IN SCOPE	CW	S3	03	-1,831	-45	365	265	50	-1,196	1,795	599	0	0	-770	0	1,133	0	0	236	0	0	599
0 77	CAPITAL PROGRAMMING & FACILITY ASS-CHANGE IN SCOPE	CW	S3	03	-2,585	33	4,140	2,000	1,000	4,588	0	4,588	0	0	0	0	4,588	0	0	0	0	0	4,588
0 78	JOS UPDATE PHASE II-CHANGE IN SCOPE	CW	S3	05	-301	100	0	0	0	-201	0	-201	0	0	-101	0	1	0	0	-101	0	0	-201
0 79	ASSET MGMT SYSTEM IMPLEMENTATION-CHANGE IN SCOPE	CW	S3	04	-1,300	0	0	0	0	-1,300	0	-1,300	0	0	-325	0	-975	0	0	0	0	0	-1,300
0 80	WATER LOSS REDUCTION STRATEGY-CHANGE IN SCOPE	CW	S3	03	-338	551	38	0	0	251	0	251	0	0	0	0	251	0	0	0	0	0	251

**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Water Program**

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By									
					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAT906483 PW ENGINEERING</b>																							
0 81	EASEMENT ACQUISITION-CHANGE IN SCOPE	CW	S3	04	114	500	500	0	0	1,114	0	1,114	0	0	0	0	1,114	0	0	0	0	1,114	
Sub-total					4,287	6,918	8,098	5,365	4,170	28,838	3,970	32,808	0	0	3,091	0	25,754	0	0	3,963	0	32,808	
<b>WAT906752 TRANSMISSION R&amp;R</b>																							
0 49	TRUNK WATERMAIN REHAB	CW	S2	03	260	320	250	250	0	1,080	0	1,080	0	0	0	0	1,080	0	0	0	0	1,080	
0 51	CAST IRON TRUNK REPLC - PHASE 2	CW	S2	03	512	213	0	0	0	725	0	725	0	0	0	0	725	0	0	0	0	725	
0 52	CAST IRON TRUNK REPLC - PHASE 3 - ENGINEERING	CW	S2	03	1,051	707	0	0	0	1,758	0	1,758	0	0	0	0	1,758	0	0	0	0	1,758	
0 58	CAST IRON TRUNK REPLC - PHASE 3 - CONSTRUCTION	CW	S2	03	1,500	0	0	0	0	1,500	0	1,500	0	0	0	0	1,500	0	0	0	0	1,500	
0 82	CAST IRON TRUNK REPLC - PHASE 3 - CHANGE IN SCOPE	CW	S3	03	-325	119	0	0	0	-206	0	-206	0	0	0	0	-206	0	0	0	0	-206	
0 83	TRUNK WATERMAIN REHAB-CHANGE IN SCOPE	CW	S3	03	150	100	150	150	400	950	2,000	2,950	0	0	0	0	2,950	0	0	0	0	2,950	
0 84	CAST IRON TRUNK REPLC - PHASE 2-CHANGE IN SCOPE	CW	S3	03	-48	57	110	0	0	119	0	119	0	0	0	0	119	0	0	0	0	119	
0 85	CAST IRON TRUNK REPLC - PHASE 3 - CHANGE IN SCOPE	CW	S3	03	-990	1,000	0	0	0	10	0	10	0	0	0	0	10	0	0	0	0	10	
Sub-total					2,110	2,516	510	400	400	5,936	2,000	7,936	0	0	0	0	7,936	0	0	0	0	7,936	
<b>WAT906900 TRANSMISSION R&amp;R</b>																							
0 1	TRANS FACILITIES REHAB	CW	S2	03	750	750	750	750	0	3,000	0	3,000	0	0	0	0	3,000	0	0	0	0	3,000	
0 36	ST CLAIR RESERVOIR REHAB/WATER QUALITY PROTECTION	CW	S2	03	6,949	980	17	0	0	7,946	0	7,946	0	0	0	0	7,946	0	0	0	0	7,946	
0 44	PUMPING STATION REHAB - Engineering	CW	S4	03	100	500	900	860	1,060	3,420	7,200	10,620	0	0	0	0	10,620	0	0	0	0	10,620	
0 48	ROSEHILL RESERVOIR	CW	S2	03	12,525	16,725	8,325	17	17	37,609	0	37,609	0	0	0	0	37,609	0	0	0	0	37,609	
0 49	DOWNSVIEW PS & CONNECTOR EA	CW	S2	05	142	0	0	0	0	142	0	142	0	0	55	0	87	0	0	0	0	142	
0 50	PARKDALE PS REHABILITATION	CW	S2	03	2,722	197	8	0	0	2,927	0	2,927	0	0	0	0	2,927	0	0	0	0	2,927	
0 51	ROSEHILL PS REHAB	CW	S2	03	2,722	48	50	0	0	2,820	0	2,820	0	0	0	0	2,820	0	0	0	0	2,820	
0 67	PUMP REPLACEMENTS	CW	S2	03	1,050	0	0	0	0	1,050	0	1,050	0	0	0	0	1,050	0	0	0	0	1,050	
0 72	RESERVOIR REHAB - PHASE 2 - ENG	CW	S2	03	500	688	580	10	7	1,785	0	1,785	0	0	0	0	1,785	0	0	0	0	1,785	
0 74	PS REHAB - PHASE 2 - ENG	CW	S2	03	1,528	1,216	950	24	24	3,742	0	3,742	0	0	0	0	3,742	0	0	0	0	3,742	
0 91	SCARBOROUGH RESERVOIR SURGE TANK	CW	S4	03	125	400	4,600	4,200	550	9,875	125	10,000	0	0	0	0	10,000	0	0	0	0	10,000	



**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
<u>WAT906900 TRANSMISSION R&amp;R</u>																							
0	94	PS REHAB - PHASE 2 - CONSTRUCTION	CW	S2	03	4,040	10,950	6,500	0	0	21,490	0	21,490	0	0	0	0	21,490	0	0	0	0	21,490
0	96	DOWNSVIEW PS & CONNECTOR EA-CHANGE IN SCOPE	CW	S3	05	-140	165	0	0	0	25	0	25	0	0	112	0	-87	0	0	0	0	25
0	97	TRANS FACILITIES REHAB-CHANGE IN SCOPE	CW	S3	03	450	100	100	100	850	1,600	1,200	2,800	0	0	0	0	2,800	0	0	0	0	2,800
0	98	ST CLAIR RESERVOIR REHAB/WATER QUA-CHANGE IN SCOPE	CW	S3	03	-1,649	2,049	0	7	0	407	0	407	0	0	0	0	407	0	0	0	0	407
0	99	PARKDALE PS REHABILITATION-CHANGE IN SCOPE	CW	S3	03	-277	443	0	0	0	166	0	166	0	0	0	0	166	0	0	0	0	166
0	100	ROSEHILL RESERVOIR-CHANGE IN SCOPE	CW	S3	03	-3,728	-6,210	1,210	20	0	-8,708	0	-8,708	0	0	0	0	-8,708	0	0	0	0	-8,708
0	103	ROSEHILL PS REHAB-CHANGE IN SCOPE	CW	S3	03	-1,258	1,149	240	0	0	131	0	131	0	0	0	0	131	0	0	0	0	131
0	104	RESERVOIR REHAB - PHASE 2 - ENG-CHANGE IN SCOPE	CW	S3	03	-150	-347	-180	460	3	-214	7	-207	0	0	0	0	-207	0	0	0	0	-207
0	105	PS REHAB - PHASE 2 - ENG-CHANGE IN SCOPE	CW	S3	03	-728	-180	-124	929	1	-102	0	-102	0	0	0	0	-102	0	0	0	0	-102
0	106	PS REHAB - PHASE 2 - CONSTRUCTION-CHANGE IN SCOPE	CW	S3	03	-3,240	-7,250	4,000	6,500	0	10	0	10	0	0	0	0	10	0	0	0	0	10
0	107	PUMP REPLACEMENTS-CHANGE IN SCOPE	CW	S3	03	-150	1,300	0	0	0	1,150	0	1,150	0	0	0	0	1,150	0	0	0	0	1,150
Sub-total						22,283	23,673	27,926	13,877	2,512	90,271	8,532	98,803	0	0	167	0	98,636	0	0	0	0	98,803
<u>WAT906902 HARRIS W.T.P. R&amp;R</u>																							
0	3	FACILITY & PROCESS UPGRADES	CW	S2	03	500	500	500	500	0	2,000	0	2,000	0	0	0	0	2,000	0	0	0	0	2,000
0	21	HVAC REHAB CONSTRUCTION	CW	S2	03	5,492	4,241	0	0	0	9,733	0	9,733	0	0	0	0	9,733	0	0	0	0	9,733
0	29	HARRIS FILTERS REHABILITATION - PILOT	CW	S2	03	6,250	948	24	0	0	7,222	0	7,222	0	0	0	0	7,222	0	0	0	0	7,222
0	56	REHAB OF SETTling BASIN ROOF & SLUICE GATES	CW	S2	03	510	10	13	0	0	533	0	533	0	0	0	0	533	0	0	0	0	533
0	79	EXTERIOR SECURITY LIGHTING UPGRADES	CW	S2	03	0	100	550	550	0	1,200	0	1,200	0	0	0	0	1,200	0	0	0	0	1,200
0	80	FACILITY INFRASTRUCTURE REHAB	CW	S4	03	900	1,800	0	0	0	2,700	0	2,700	0	0	0	0	2,700	0	0	0	0	2,700
0	81	LIQUID CHEMICAL SYSTEM IMPROVEMENTS	CW	S2	04	3,282	7	0	0	0	3,289	0	3,289	0	0	0	0	3,289	0	0	0	0	3,289
0	98	HERITAGE MASONRY AND ARCHITECTURAL RESTORATION	CW	S2	03	200	200	200	200	0	800	0	800	0	0	0	0	800	0	0	0	0	800
0	99	CONTROL ROOM RELOCATION	CW	S2	04	1,345	204	0	0	0	1,549	0	1,549	0	0	0	0	1,549	0	0	0	0	1,549
0	100	EMERGENCY STANDBY POWER	CW	S2	04	2,339	347	0	0	0	2,686	0	2,686	0	0	0	0	2,686	0	0	0	0	2,686
0	102	PHONE SYSTEM UPGRADE	CW	S2	03	0	70	510	0	0	580	0	580	0	0	0	0	580	0	0	0	0	580

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By													
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAT906902 HARRIS W.T.P. R&amp;R</u>																									
0	106	BUILDING ENVELOPE REHAB	CW	S2	03	136	0	0	0	0	136	0	136	0	0	0	0	136	0	0	0	0	0	136	
0	112	TRAVELLING SCREENS 3 & 5 UPGRADE	CW	S2	03	0	300	450	0	0	750	0	750	0	0	0	0	750	0	0	0	0	0	750	
0	119	ENERGY OPTIMIZATION	CW	S2	04	1,170	1,000	0	0	0	2,170	0	2,170	0	0	0	0	2,170	0	0	0	0	0	2,170	
0	132	EMERGENCY STANDBY POWER-CHANGE IN SCOPE	CW	S3	04	-1,725	2,732	134	0	0	1,141	0	1,141	0	0	0	0	1,141	0	0	0	0	0	1,141	
0	133	CONTROL ROOM RELOCATION-CHANGE IN SCOPE	CW	S3	04	-726	108	725	0	0	107	0	107	0	0	0	0	107	0	0	0	0	0	107	
0	134	BUILDING ENVELOPE REHAB-CHANGE IN SCOPE	CW	S3	03	-136	0	0	0	0	-136	0	-136	0	0	0	0	-136	0	0	0	0	0	-136	
0	135	HARRIS FILTERS REHABILITATION - PI-CHANGE IN SCOPE	CW	S3	03	-5,200	4,822	5,751	1,050	24	6,447	0	6,447	0	0	0	0	6,447	0	0	0	0	0	6,447	
0	136	LIQUID CHEMICAL SYSTEM IMPROVEMENT-CHANGE IN SCOPE	CW	S3	04	-2,856	565	0	0	0	-2,291	0	-2,291	0	0	0	0	-2,291	0	0	0	0	0	-2,291	
0	137	FACILITY & PROCESS UPGRADES-CHANGE IN SCOPE	CW	S3	03	139	103	55	56	0	353	0	353	0	0	0	0	353	0	0	0	0	0	353	
0	138	HVAC REHAB CONSTRUCTION-CHANGE IN SCOPE	CW	S3	03	-4,854	-116	4,035	121	0	-814	0	-814	0	0	0	0	-814	0	0	0	0	0	-814	
0	139	REHAB OF SETTLING BASIN ROOF & SLU-CHANGE IN SCOPE	CW	S3	03	-339	150	0	0	0	-189	0	-189	0	0	0	0	-189	0	0	0	0	0	-189	
0	140	EXTERIOR SECURITY LIGHTING UPGRADE-CHANGE IN SCOPE	CW	S3	03	0	-100	-550	-450	550	-550	550	0	0	0	0	0	0	0	0	0	0	0	0	
0	141	TRAVELLING SCREENS 3 & 5 UPGRADE-CHANGE IN SCOPE	CW	S3	03	0	-300	-450	300	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	142	PHONE SYSTEM UPGRADE-CHANGE IN SCOPE	CW	S3	03	0	-70	-440	510	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	143	ENERGY OPTIMIZATION-CHANGE IN SCOPE	CW	S3	04	-890	890	5	0	0	5	0	5	0	0	0	0	5	0	0	0	0	0	5	
Sub-total						5,537	18,511	11,512	2,837	1,024	39,421	550	39,971	0	0	0	0	39,971	0	0	0	0	0	39,971	
<u>WAT906903 FJ HORGAN W.T.P. R&amp;R</u>																									
0	5	FACILITY & PROCESS UPGRADES	CW	S2	03	1,174	550	200	200	0	2,124	0	2,124	0	0	0	0	2,124	0	0	0	0	0	2,124	
0	8	RAW WATER PUMP UGRADES	CW	S2	03	321	0	0	0	0	321	0	321	0	0	0	0	321	0	0	0	0	0	321	
0	15	REPLACEMENT OF MCCS	CW	S2	03	533	297	50	3	0	883	0	883	0	0	0	0	883	0	0	0	0	0	883	
0	31	BUILDING FIRE, HVAC, LIGHTING UPGRADES	CW	S2	04	1,455	1,635	1,010	0	0	4,100	0	4,100	0	0	0	0	4,100	0	0	0	0	0	4,100	
0	32	ELEC GROUNDING SYSTEM & BULK CHEM UNLOADING IMPRO	CW	S2	04	679	690	0	0	0	1,369	0	1,369	0	0	0	0	1,369	0	0	0	0	0	1,369	
0	34	TREATED WATER PUMP UPGRADES	CW	S2	04	203	0	0	0	0	203	0	203	0	0	0	0	203	0	0	0	0	0	203	
0	65	TREATED WATER PUMP UPGRADES-CHANGE IN SCOPE	CW	S3	04	-86	0	0	0	0	-86	0	-86	0	0	0	0	-86	0	0	0	0	0	-86	



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Gross Expenditures (\$000's)

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other 2	Debt - Recoverable Debt	Total Financing	
<u>WAT906919 RL CLARK W.T.P. R&amp;R</u>																							
0 1	FACILITY & PROCESS UPGRADES	CW	S2	03	200	200	200	200	0	800	0	800	0	0	0	0	800	0	0	0	0	0	800
0 8	PROCESS EQUIPMENT UPGRADE ENGINEERING	CW	S2	03	69	1,780	60	35	0	1,944	0	1,944	0	0	118	0	1,826	0	0	0	0	0	1,944
0 15	PROCESS EQUIPMENT UPGRADE CONSTRUCTION	CW	S2	03	7,721	2,500	0	0	0	10,221	0	10,221	0	0	621	0	9,600	0	0	0	0	0	10,221
0 44	EVACUATION AND COMMUNICATION SYSTEMS	CW	S2	03	112	0	0	0	0	112	0	112	0	0	0	0	112	0	0	0	0	0	112
0 76	PROCESS EQUIPMENT UPGRADE CONSTRUC-CHANGE IN SCOPE	CW	S3	03	-693	1,000	0	0	0	307	0	307	0	0	937	0	-630	0	0	0	0	0	307
0 77	PROCESS EQUIPMENT UPGRADE ENGINEER-CHANGE IN SCOPE	CW	S3	03	602	-592	0	0	0	10	0	10	0	0	171	0	-161	0	0	0	0	0	10
0 78	FACILITY & PROCESS UPGRADES-CHANGE IN SCOPE	CW	S3	03	51	53	55	56	0	215	0	215	0	0	0	0	215	0	0	0	0	0	215
0 79	EVACUATION AND COMMUNICATION SYSTE-CHANGE IN SCOPE	CW	S3	03	-112	0	0	0	0	-112	0	-112	0	0	0	0	-112	0	0	0	0	0	-112
Sub-total					7,950	4,941	315	291	0	13,497	0	13,497	0	0	1,847	0	11,650	0	0	0	0	0	13,497
<u>WAT906930 DIST W/M REPLACEMENT</u>																							
0 21	2011 WM REPLC	CW	S2	03	3	0	0	0	0	3	0	3	0	0	0	0	3	0	0	0	0	0	3
0 29	DIST W/M REPLC - 2012	CW	S2	03	147	0	0	0	0	147	0	147	0	0	0	0	147	0	0	0	0	0	147
0 51	DIST W/M REPLACEMENT - 2014	CW	S2	03	365	0	0	0	0	365	0	365	0	0	57	0	308	0	0	0	0	0	365
0 55	WATERMAIN REPLACEMENT - METROLINX	CW	S2	03	1,090	1,796	2,456	0	0	5,342	0	5,342	0	0	0	0	5,342	0	0	0	0	0	5,342
0 59	2013 WM REPLC - UPGRADES	CW	S2	05	101	0	0	0	0	101	0	101	0	0	31	0	70	0	0	0	0	0	101
0 63	DIST W/M REPLACEMENT - 2015	CW	S2	03	2,317	0	0	0	0	2,317	0	2,317	0	0	344	0	1,973	0	0	0	0	0	2,317
0 64	WATERMAIN UPGRADES - 2015	CW	S2	05	390	0	0	0	0	390	0	390	0	0	124	0	266	0	0	0	0	0	390
0 73	DIST W/M REPLACEMENT - 2016	CW	S2	03	8,933	0	0	0	0	8,933	0	8,933	0	0	1,371	0	7,562	0	0	0	0	0	8,933
0 74	WATERMAIN UPGRADES - 2016	CW	S2	05	2,706	0	0	0	0	2,706	0	2,706	0	0	857	0	1,849	0	0	0	0	0	2,706
0 83	DIST W/M REPLACEMENT - 2017	CW	S2	03	8,289	15	0	0	0	8,304	0	8,304	0	0	1,230	0	7,074	0	0	0	0	0	8,304
0 84	WATERMAIN UPGRADES - 2017	CW	S2	05	1,188	0	0	0	0	1,188	0	1,188	0	0	376	0	812	0	0	0	0	0	1,188
0 85	DIST W/M REPLACEMENT - 2018	CW	S2	03	52,339	11,690	928	0	0	64,957	0	64,957	0	0	9,264	0	55,693	0	0	0	0	0	64,957
0 86	WATERMAIN UPGRADES - 2018	CW	S2	05	14,303	2,921	0	0	0	17,224	0	17,224	0	0	5,789	0	11,435	0	0	0	0	0	17,224
0 110	DIST W/M REPLACEMENT - 2019	CW	S2	03	55,201	18,616	8,466	253	0	82,536	0	82,536	0	0	12,834	0	69,702	0	0	0	0	0	82,536

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
Sub- Priority	Project No. SubProj No.	Project Name Sub-project Name	Ward	Stat.	Cat.																			
<u>WAT906930 DIST W/M REPLACEMENT</u>																								
0	111	WATERMAIN UPGRADES - 2019	CW	S2	05	24,014	8,368	3,688	72	0	36,142	0	36,142	0	0	11,243	0	24,899	0	0	0	0	0	36,142
0	112	DIST W/M REPLACEMENT - 2014-CHANGE IN SCOPE	CW	S3	03	-350	324	0	0	0	-26	0	-26	0	0	-31	0	5	0	0	0	0	0	-26
0	113	DIST W/M REPLACEMENT - 2015-CHANGE IN SCOPE	CW	S3	03	-2,100	2,153	0	0	0	53	0	53	0	0	-162	0	215	0	0	0	0	0	53
0	114	DIST W/M REPLACEMENT - 2017-CHANGE IN SCOPE	CW	S3	03	-7,519	7,312	0	0	0	-207	0	-207	0	0	-608	0	401	0	0	0	0	0	-207
0	115	DIST W/M REPLACEMENT - 2018-CHANGE IN SCOPE	CW	S3	03	-22,804	11,182	7,179	105	0	-4,338	0	-4,338	0	0	-4,605	0	267	0	0	0	0	0	-4,338
0	116	DIST W/M REPLACEMENT - 2019-CHANGE IN SCOPE	CW	S3	03	-20,817	71,667	97,160	29,461	6,130	183,601	0	183,601	0	0	-7,030	0	190,631	0	0	0	0	0	183,601
0	117	WATERMAIN UPGRADES - 2015-CHANGE IN SCOPE	CW	S3	05	-320	321	0	0	0	1	0	1	0	0	72	0	-71	0	0	0	0	0	1
0	118	WATERMAIN UPGRADES - 2016-CHANGE IN SCOPE	CW	S3	05	-2,601	616	0	0	0	-1,985	0	-1,985	0	0	-496	0	-1,489	0	0	0	0	0	-1,985
0	119	WATERMAIN UPGRADES - 2017-CHANGE IN SCOPE	CW	S3	05	-1,156	289	0	0	0	-867	0	-867	0	0	-215	0	-652	0	0	0	0	0	-867
0	120	DIST W/M REPLACEMENT - 2016-CHANGE IN SCOPE	CW	S3	03	-8,536	3,991	0	0	0	-4,545	0	-4,545	0	0	-1,033	0	-3,512	0	0	0	0	0	-4,545
0	121	WATERMAIN UPGRADES - 2018-CHANGE IN SCOPE	CW	S3	05	-5,262	4,368	0	0	0	-894	0	-894	0	0	2,377	0	-3,271	0	0	0	0	0	-894
0	122	WATERMAIN UPGRADES - 2019-CHANGE IN SCOPE	CW	S3	05	-7,793	10,832	18,831	4,773	2,434	29,077	0	29,077	0	0	6,264	0	22,813	0	0	0	0	0	29,077
0	123	2013 WM REPLC - UPGRADES-CHANGE IN SCOPE	CW	S3	05	-101	0	0	0	0	-101	0	-101	0	0	-31	0	-70	0	0	0	0	0	-101
0	124	DIST W/M REPLC - 2012-CHANGE IN SCOPE	CW	S3	03	-10	0	0	0	0	-10	0	-10	0	0	0	0	-10	0	0	0	0	0	-10
0	127	WATERMAIN REPLACEMENT - METROLINX-CHANGE IN SCOPE	CW	S3	03	-400	114	460	20	0	194	0	194	0	0	0	0	194	0	0	0	0	0	194
0	130	2011 WM REPLC-CHANGE IN SCOPE	CW	S3	03	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1
Sub-total						91,618	156,575	139,168	34,684	8,564	430,609	0	430,609	0	0	38,022	0	392,587	0	0	0	0	0	430,609
<u>WAT906932 DIST W/M REHABILITATION</u>																								
0	4	HYDRANT & VALVE REPAIR	CW	S2	03	1,568	0	0	0	0	1,568	0	1,568	0	0	0	0	1,568	0	0	0	0	0	1,568
0	6	WATERMAIN STRUCTURAL LINING	CW	S2	03	68,624	18,594	239	175	0	87,632	0	87,632	0	0	0	0	87,632	0	0	0	0	0	87,632
0	7	CATHODIC PROTECTION	CW	S2	03	7,162	500	0	0	0	7,662	0	7,662	0	0	0	0	7,662	0	0	0	0	0	7,662
0	30	CUT REPAIR	CW	S2	03	3,549	0	0	0	0	3,549	0	3,549	0	0	0	0	3,549	0	0	0	0	0	3,549
0	59	PRV INSPECTION & RENEWAL	CW	S2	03	1,600	565	0	0	0	2,165	0	2,165	0	0	0	0	2,165	0	0	0	0	0	2,165
0	60	INFRASTRUCTURE REHAB & UPGRADES - METROLINX	CW	S2	03	75	75	75	0	0	225	0	225	0	0	0	0	225	0	0	0	0	0	225

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**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAT906932 DIST W/M REHABILITATION</b>																							
0 61	WATERMAIN STRUCTURAL LINING-CHANGE IN SCOPE	CW	S3	03	-20,106	37,385	25,560	0	0	42,839	0	42,839	0	0	0	0	42,839	0	0	0	0	0	42,839
0 62	PRV INSPECTION & RENEWAL-CHANGE IN SCOPE	CW	S3	03	-1,110	1,140	0	0	0	30	0	30	0	0	0	0	30	0	0	0	0	0	30
0 63	HYDRANT & VALVE REPAIR-CHANGE IN SCOPE	CW	S3	03	-368	930	0	0	0	562	0	562	0	0	0	0	562	0	0	0	0	0	562
0 64	CUT REPAIR-CHANGE IN SCOPE	CW	S3	03	-1,455	2,584	2,584	445	0	4,158	0	4,158	0	0	0	0	4,158	0	0	0	0	0	4,158
0 65	CATHODIC PROTECTION-CHANGE IN SCOPE	CW	S3	03	-3,520	4,756	300	300	0	1,836	0	1,836	0	0	0	0	1,836	0	0	0	0	0	1,836
Sub-total					56,019	66,529	28,758	920	0	152,226	0	152,226	0	0	0	0	152,226	0	0	0	0	0	152,226
<b>WAT906934 DIST WATER SERVICE REPAIR</b>																							
0 12	WATER SERVICE REPAIR - LEAD PROGRAM	CW	S2	02	12,606	4,901	1	0	0	17,508	0	17,508	0	0	0	0	17,508	0	0	0	0	0	17,508
0 32	WSR CUT REPAIR	CW	S2	03	1,613	0	0	0	0	1,613	0	1,613	0	0	0	0	1,613	0	0	0	0	0	1,613
0 39	2012 WATER SERVICE REPLC - SOGR	CW	S2	02	60	0	0	0	0	60	0	60	0	0	0	0	60	0	0	0	0	0	60
0 41	2013 WATER SERVICE REPAIR	CW	S2	02	140	0	0	0	0	140	0	140	0	0	0	0	140	0	0	0	0	0	140
0 52	2014 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	148	0	0	0	0	148	0	148	0	0	0	0	148	0	0	0	0	0	148
0 59	2015 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	865	0	0	0	0	865	0	865	0	0	0	0	865	0	0	0	0	0	865
0 68	2016 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	3,992	0	0	0	0	3,992	0	3,992	0	0	0	0	3,992	0	0	0	0	0	3,992
0 71	WATER SERVICE REPAIR - WM REHAB PROGRAM	CW	S2	02	19,035	4,000	2,000	0	0	25,035	0	25,035	0	0	0	0	25,035	0	0	0	0	0	25,035
0 74	REPLACEMENT OF FROZEN SERVICES	CW	S2	02	240	0	0	0	0	240	0	240	0	0	0	0	240	0	0	0	0	0	240
0 75	WSR CUT REPAIRS WITH WM SL	CW	S2	02	1,613	0	0	0	0	1,613	0	1,613	0	0	0	0	1,613	0	0	0	0	0	1,613
0 78	2011 WATER SERVICE REPAIR	CW	S2	02	12	0	0	0	0	12	0	12	0	0	0	0	12	0	0	0	0	0	12
0 84	2017 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	6,374	0	0	0	0	6,374	0	6,374	0	0	0	0	6,374	0	0	0	0	0	6,374
0 85	2018 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	10,000	3,000	0	0	0	13,000	0	13,000	0	0	0	0	13,000	0	0	0	0	0	13,000
0 108	2019 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	10,000	7,000	3,000	0	0	20,000	0	20,000	0	0	0	0	20,000	0	0	0	0	0	20,000
0 109	2015 WATER SERVICE REPLACEMENT - S-CHANGE IN SCOPE	CW	S3	02	-733	1,019	0	0	0	286	0	286	0	0	0	0	286	0	0	0	0	0	286
0 110	2016 WATER SERVICE REPLACEMENT - S-CHANGE IN SCOPE	CW	S3	02	-3,424	3,436	0	0	0	12	0	12	0	0	0	0	12	0	0	0	0	0	12
0 111	2017 WATER SERVICE REPLACEMENT - S-CHANGE IN SCOPE	CW	S3	02	-5,472	2,917	0	0	0	-2,555	0	-2,555	0	0	0	0	-2,555	0	0	0	0	0	-2,555

**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAT906934 DIST WATER SERVICE REPAIR</u>																									
0	112	2018 WATER SERVICE REPLACEMENT - S-CHANGE IN SCOPE	CW	S3	02	-5,449	3,271	4,252	0	0	2,074	0	2,074	0	0	0	0	2,074	0	0	0	0	0	2,074	
0	113	2019 WATER SERVICE REPLACEMENT - S-CHANGE IN SCOPE	CW	S3	02	-5,000	12,000	20,000	8,000	3,000	38,000	0	38,000	0	0	0	0	38,000	0	0	0	0	0	38,000	
0	114	WATER SERVICE REPAIR - LEAD PROGRA-CHANGE IN SCOPE	CW	S3	02	-4,410	6,396	5,749	4,050	0	11,785	0	11,785	0	0	0	0	11,785	0	0	0	0	0	11,785	
0	115	2012 WATER SERVICE REPLC - SOGR-CHANGE IN SCOPE	CW	S3	02	-60	0	0	0	0	-60	0	-60	0	0	0	0	-60	0	0	0	0	0	-60	
0	116	WSR CUT REPAIR-CHANGE IN SCOPE	CW	S3	03	3,502	7,854	7,854	675	0	19,885	0	19,885	0	0	0	0	19,885	0	0	0	0	0	19,885	
0	117	2013 WSR-CHANGE IN SCOPE	CW	S3	02	-133	0	0	0	0	-133	0	-133	0	0	0	0	-133	0	0	0	0	0	-133	
0	118	WATER SERVICE REPAIR - WM REHAB PR-CHANGE IN SCOPE	CW	S3	02	-13,150	7,517	3,500	6,000	0	3,867	0	3,867	0	0	0	0	3,867	0	0	0	0	0	3,867	
0	119	2014 WATER SERVICE REPLACEMENT - S-CHANGE IN SCOPE	CW	S3	02	-118	114	0	0	0	-4	0	-4	0	0	0	0	-4	0	0	0	0	0	-4	
0	121	WSR CUT REPAIRS WITH WM SL-CHANGE IN SCOPE	CW	S3	02	-893	675	675	675	0	1,132	0	1,132	0	0	0	0	1,132	0	0	0	0	0	1,132	
0	122	REPLACEMENT OF FROZEN SERVICES-CHANGE IN SCOPE	CW	S3	02	-240	0	0	0	0	-240	0	-240	0	0	0	0	-240	0	0	0	0	0	-240	
0	123	2011 WSR-CHANGE IN SCOPE	CW	S3	02	3	0	0	0	0	3	0	3	0	0	0	0	3	0	0	0	0	0	3	
Sub-total						31,121	64,100	47,031	19,400	3,000	164,652	0	164,652	0	0	0	0	164,652	0	0	0	0	0	164,652	
<u>WAT906935 NEW SERVICE CONNECTIONS</u>																									
0	2	NEW SERVICE CONNECTIONS - CUT REPAIRS	CW	S2	05	5,377	0	0	0	0	5,377	0	5,377	0	0	0	0	5,377	0	0	0	0	0	5,377	
0	7	NEW SERVICE CONNECTIONS - SITE SERVICING	CW	S2	05	6,946	0	0	0	0	6,946	0	6,946	0	0	0	0	6,946	0	0	0	0	0	6,946	
0	26	NEW SERVICE CONNECTIONS - SITE SER-CHANGE IN SCOPE	CW	S3	05	24,213	32,123	34,000	0	0	90,336	0	90,336	0	0	0	0	90,336	0	0	0	0	0	90,336	
0	27	NEW SERVICE CONNECTIONS - CUT REPA-CHANGE IN SCOPE	CW	S3	05	5,300	18,758	18,758	4,634	0	47,450	0	47,450	0	0	0	0	47,450	0	0	0	0	0	47,450	
Sub-total						41,836	50,881	52,758	4,634	0	150,109	0	150,109	0	0	0	0	150,109	0	0	0	0	0	150,109	
<u>WAT906951 ENGINEERING</u>																									
0	2	CONSULTING FEES	CW	S2	03	21,842	8,367	4,378	2,500	1,170	38,257	2,102	40,359	0	0	0	0	40,359	0	0	0	0	0	40,359	
0	63	ROAD RESTORATION	CW	S2	03	2,621	2,151	0	0	0	4,772	0	4,772	0	0	0	0	4,772	0	0	0	0	0	4,772	
0	78	ECS SALARIES-CHANGE IN SCOPE	CW	S3	03	14,491	0	0	0	0	14,491	0	14,491	0	0	0	0	14,491	0	0	0	0	0	14,491	
0	79	TW SALARIES-CHANGE IN SCOPE	CW	S3	03	2,148	0	0	0	0	2,148	0	2,148	0	0	0	0	2,148	0	0	0	0	0	2,148	
0	80	LEGAL SERVICES SALARIES-CHANGE IN SCOPE	CW	S3	03	225	0	0	0	0	225	0	225	0	0	0	0	225	0	0	0	0	0	225	





**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Water Program**

Sub-Project No.	Project Name	Priority	SubProj No.	Sub-project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By													
								2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<b>WAT906977 ISLAND W.T.P. R&amp;R</b>																											
0	121			PLANTWIDE HVAC UPGRADES-CHANGE IN SCOPE	CW	S3	04	-1,644	2,047	2,807	137	0	3,347	0	3,347	0	0	0	0	0	3,347	0	0	0	0	0	3,347
				Sub-total				5,865	20,712	12,828	10,255	1,795	51,455	1,100	52,555	0	0	0	0	0	52,555	0	0	0	0	0	52,555
<b>WAT907353 LAWRENCE ALLAN REVITALIZATION PLAN</b>																											
0	1			LAWRENCE ALLAN REVITALIZATION PLAN - INTERNAL	CW	S2	05	11,668	5,775	473	210	0	18,126	0	18,126	0	0	18,126	0	0	0	0	0	0	0	0	18,126
0	2			LAWRENCE ALLAN REVITALIZATION PLAN - EXTERNAL	CW	S2	05	250	3,592	3,842	0	0	7,684	0	7,684	0	0	7,684	0	0	0	0	0	0	0	0	7,684
0	13			LAWRENCE ALLAN REVITALIZATION PLAN-CHANGE IN SCOPE	CW	S3	05	-8,368	-3,275	3,227	0	0	-8,416	0	-8,416	0	0	-8,416	0	0	0	0	0	0	0	-8,416	
0	14			LAWRENCE ALLAN REVITALIZATION PLAN-CHANGE IN SCOPE	CW	S3	05	-250	0	0	806	0	556	0	556	0	0	556	0	0	0	0	0	0	0	556	
				Sub-total				3,300	6,092	7,542	1,016	0	17,950	0	17,950	0	0	17,950	0	0	0	0	0	0	0	17,950	
<b>WAT907558 REGENT PARK CAPITAL CONTRIBUTION</b>																											
0	14			REGENT PARK CAPITAL CONTRIBUTION - PHASE 3 - 5	13	S2	05	1,133	1,416	830	51	71	3,501	40	3,541	0	0	3,541	0	0	0	0	0	0	0	0	3,541
0	16			REGENT PARK CAPITAL CONTRIBUTION --CHANGE IN SCOPE	13	S3	05	-591	0	591	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Sub-total				542	1,416	1,421	51	71	3,501	40	3,541	0	0	3,541	0	0	0	0	0	0	0	3,541	
<b>WAT907946 BUSINESS IT PROJECTS</b>																											
0	7			ENTERPRISE WORK MANAGEMENT SYSTEM PROJECT	CW	S2	04	1,554	1,325	1,000	400	350	4,629	0	4,629	0	0	0	0	4,629	0	0	0	0	0	0	4,629
0	18			ENTERPRISE WORK MANAGEMENT SYSTEM -CHANGE IN SCOPE	CW	S3	04	-654	-400	250	400	500	96	0	96	0	0	0	0	96	0	0	0	0	0	96	
				Sub-total				900	925	1,250	800	850	4,725	0	4,725	0	0	0	0	4,725	0	0	0	0	0	4,725	
<b>WAT908087 TRUNK WATERMAIN</b>																											
0	1			TRANSMISSION SYSTEM AUTOMATION	CW	S2	04	5,801	4,575	41	92	0	10,509	0	10,509	0	0	0	0	10,509	0	0	0	0	0	10,509	
0	4			JOS - REVENUE METER REPLACEMENT	CW	S2	03	4,369	1,000	0	0	0	5,369	0	5,369	0	0	0	0	2,684	0	0	2,685	0	0	5,369	
0	6			3RD PARTY RELOCATIONS (METROLINX)	CW	S2	04	50	50	50	0	0	150	0	150	0	0	0	0	150	0	0	0	0	0	150	
0	16			TRANSMISSION SYSTEM AUTOMATION-CHANGE IN SCOPE	CW	S3	04	-5,381	-1,057	3,236	3,241	41	80	92	172	0	0	0	0	172	0	0	0	0	0	172	
0	17			JOS - REVENUE METER REPLACEMENT-CHANGE IN SCOPE	CW	S3	03	-929	1,175	0	0	0	246	0	246	0	0	0	0	123	0	0	123	0	0	246	
				Sub-total				3,910	5,743	3,327	3,333	41	16,354	92	16,446	0	0	0	0	13,638	0	0	2,808	0	0	16,446	
<b>WAT908248 WT&amp;S PLANTWIDE</b>																											
0	1			UV DISINFECTION - CONCEPTUAL DESIGN	CW	S2	04	248	0	0	0	0	248	0	248	0	0	0	0	248	0	0	0	0	0	248	

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Water Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAT908248 WT&amp;S PLANTWIDE</b>																								
0	4	ZEBRA MUSSEL CONTROL - ENG	CW	S2	04	738	450	450	175	32	1,845	32	1,877	0	0	0	0	1,877	0	0	0	0	0	1,877
0	5	ZEBRA MUSSEL CONTROL - CONSTRUCTION	CW	S4	04	250	4,250	4,500	10,000	1,000	20,000	0	20,000	0	0	0	0	20,000	0	0	0	0	0	20,000
0	6	STANDBY POWER - PHASE 2 - ENG	CW	S2	04	1,768	2,750	3,170	1,686	760	10,134	700	10,834	0	0	655	0	6,929	0	0	3,250	0	0	10,834
0	10	UV DISINFECTION - ISLAND WTP - ENGINEERING	CW	S2	04	1,251	500	1,000	550	150	3,451	50	3,501	0	0	0	0	3,501	0	0	0	0	0	3,501
0	12	SCRUBBER AND TONNER CONNECTION IMPROVEMENTS AT WTP	CW	S2	04	1,956	1,168	500	470	5	4,099	0	4,099	0	0	256	0	2,613	0	0	1,230	0	0	4,099
0	18	SOURCE WATER PROTECTION-LAKE ONTARIO COLLABORATIVE	CW	S2	04	375	305	0	0	0	680	0	680	0	0	0	0	680	0	0	0	0	0	680
0	21	SCRUBBER AND TONNER CONNECTION IMP-CHANGE IN SCOPE	CW	S3	04	-1,415	1,159	1,115	1,145	1,482	3,486	58	3,544	0	0	535	0	1,945	0	0	1,064	0	0	3,544
0	22	UV DISINFECTION - CONCEPTUAL DESIG-CHANGE IN SCOPE	CW	S3	04	-248	0	0	0	0	-248	0	-248	0	0	0	0	-248	0	0	0	0	0	-248
0	23	SOURCE WATER PROTECTION-LAKE ONTAR-CHANGE IN SCOPE	CW	S3	04	-375	125	650	650	0	1,050	0	1,050	0	0	0	0	1,050	0	0	0	0	0	1,050
0	24	UV DISINFECTION - ISLAND WTP - ENG-CHANGE IN SCOPE	CW	S3	04	-606	96	-955	450	454	-561	95	-466	0	0	0	0	-466	0	0	0	0	0	-466
0	25	STANDBY POWER - PHASE 2 - ENG-CHANGE IN SCOPE	CW	S3	04	-608	-318	188	484	226	-28	60	32	0	0	471	0	-449	0	0	10	0	0	32
0	26	ZEBRA MUSSEL CONTROL - ENG-CHANGE IN SCOPE	CW	S3	04	-388	143	-90	247	95	7	-21	-14	0	0	0	0	-14	0	0	0	0	0	-14
Sub-total						2,946	10,628	10,528	15,857	4,204	44,163	974	45,137	0	0	1,917	0	37,666	0	0	5,554	0	0	45,137
<b>Total Program Expenditure</b>						350,393	511,981	433,288	170,055	56,121	1,521,838	33,340	1,555,178	0	0	100,123	0	1,427,291	0	0	27,764	0	0	1,555,178

**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

<b>Water Program</b>					<b>Current and Future Year Cash Flow Commitments and Estimates</b>						<b>Current and Future Year Cash Flow Commitments and Estimates Financed By</b>										
<u>Sub- Project No. Project Name</u>	<u>Priority SubProj No. Sub-project Name</u>	<u>Ward Stat. Cat.</u>	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserve Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
Financed By:																					
Development Charges			28,710	32,531	27,322	6,476	3,131	98,170	1,953	100,123	0	0	100,123	0	0	0	0	0	0	0	100,123
Reserve Funds (Ind."XR" Ref.)			315,566	470,131	398,997	160,666	51,767	1,397,127	30,164	1,427,291	0	0	0	0	1,427,291	0	0	0	0	0	1,427,291
Other2 (External)			6,117	9,319	6,969	2,913	1,223	26,541	1,223	27,764	0	0	0	0	0	0	0	27,764	0	0	27,764
<b>Total Program Financing</b>			350,393	511,981	433,288	170,055	56,121	1,521,838	33,340	1,555,178	0	0	100,123	0	1,427,291	0	0	27,764	0	0	1,555,178

<b>Status Code</b>	<b>Description</b>
S2	S2 Prior Year (With 2019 and/or Future Year Cashflow)
S3	S3 Prior Year - Change of Scope 2019 and/or Future Year Cost(Cashflow)
S4	S4 New - Stand-Alone Project (Current Year Only)
S5	S5 New (On-going or Phased Projects)

<b>Category Code</b>	<b>Description</b>
01	Health and Safety C01
02	Legislated C02
03	State of Good Repair C03
04	Service Improvement and Enhancement C04
05	Growth Related C05
06	Reserved Category 1 C06
07	Reserved Category 2 C07

**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Wastewater Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
<u>WAS000007 ASHBRIDGES BAY WWTP REHAB</u>																							
0	19	FERROUS UPGRADES	CW	S2	03	7,097	31	0	0	0	7,128	0	7,128	0	0	585	0	6,543	0	0	0	0	7,128
0	30	ELECTRICAL REHAB - ECAP	CW	S2	01	2,785	72	0	0	0	2,857	0	2,857	0	0	0	0	2,857	0	0	0	0	2,857
0	41	POLYMER UPGRADE	CW	S2	03	21,950	38,909	11,110	18,974	222	91,165	0	91,165	0	0	0	0	91,165	0	0	0	0	91,165
0	47	P BLDG HEADWORKS ENG DESIGN&CONTRACT ADMIN	CW	S2	03	2,082	275	49	0	0	2,406	0	2,406	0	0	253	0	2,153	0	0	0	0	2,406
0	49	PROCESS UPGRADES & ODOUR CONTROL ENGINEERING	CW	S2	04	81	0	0	0	0	81	0	81	0	0	8	0	73	0	0	0	0	81
0	189	PROCESS AND EQUIPMENT	CW	S2	03	1,463	1,100	1,100	1,100	0	4,763	0	4,763	0	0	0	0	4,763	0	0	0	0	4,763
0	190	GROUND AND FACILITIES	CW	S2	03	696	440	440	440	0	2,016	0	2,016	0	0	0	0	2,016	0	0	0	0	2,016
0	215	DIGESTERS CLEANING REHAB - TANKS 14, 16, 13	CW	S2	03	5,566	3,690	3,615	5	4	12,880	0	12,880	0	0	0	0	12,880	0	0	0	0	12,880
0	216	OPERATIONS CENTRE - ENGINEERING	CW	S2	03	260	0	0	0	0	260	0	260	0	0	0	0	260	0	0	0	0	260
0	226	ABTP - PROCESS ROADMAP PHASE 2	CW	S2	05	1,000	500	0	0	0	1,500	0	1,500	0	0	0	0	1,500	0	0	0	0	1,500
0	227	AIR HEADER REHAB	CW	S2	03	2,637	0	0	0	0	2,637	0	2,637	0	0	0	0	2,637	0	0	0	0	2,637
0	229	D BUILDING PHASE 2	CW	S2	03	2,144	11,000	11,000	11,000	10,405	45,549	110	45,659	0	0	0	0	45,659	0	0	0	0	45,659
0	246	NEW FLEET PURCHASES	CW	S2	04	25	25	25	25	0	100	0	100	0	0	0	0	100	0	0	0	0	100
0	256	DIGESTER CLEANING - 10 YEAR PLAN	CW	S4	03	200	500	240	350	700	1,990	21,500	23,490	0	0	0	0	23,490	0	0	0	0	23,490
0	264	HVAC CONVERSION Z-BLDG	CW	S2	03	28	0	0	0	0	28	0	28	0	0	0	0	28	0	0	0	0	28
0	285	BLOWER 7-9 OVERHAUL	CW	S2	03	500	0	0	0	0	500	0	500	0	0	0	0	500	0	0	0	0	500
0	292	BLOWER STUDY	CW	S2	03	100	0	0	0	0	100	0	100	0	0	0	0	100	0	0	0	0	100
0	306	BLOWER STUDY-CHANGE IN SCOPE	CW	S3	03	-100	0	0	0	0	-100	0	-100	0	0	0	0	-100	0	0	0	0	-100
0	307	NEW FLEET PURCHASES-CHANGE IN SCOPE	CW	S3	04	0	0	0	0	25	25	0	25	0	0	0	0	25	0	0	0	0	25
0	308	D BUILDING PHASE 2-CHANGE IN SCOPE	CW	S3	03	-1,046	-4,882	-1,548	-1,600	-6,306	-15,382	-63	-15,445	0	0	0	0	-15,445	0	0	0	0	-15,445
0	309	AIR HEADER REHAB-CHANGE IN SCOPE	CW	S3	03	-2,176	766	0	0	0	-1,410	0	-1,410	0	0	0	0	-1,410	0	0	0	0	-1,410
0	310	DIGESTERS CLEANING REHAB - TANKS 1-CHANGE IN SCOPE	CW	S3	03	-1,762	202	727	0	1	-832	0	-832	0	0	0	0	-832	0	0	0	0	-832
0	311	POLYMER UPGRADE-CHANGE IN SCOPE	CW	S3	03	-20,525	-8,895	17,908	4,444	17,388	10,320	371	10,691	0	0	0	0	10,691	0	0	0	0	10,691
0	312	GROUND AND FACILITIES-CHANGE IN SCOPE	CW	S3	03	-96	0	0	0	440	344	0	344	0	0	0	0	344	0	0	0	0	344

## CITY OF TORONTO

## Gross Expenditures (\$000's)

## Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding

Wastewater Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
WAS000007 ASHBRIDGES BAY WWTP REHAB																							
0 313	PROCESS AND EQUIPMENT-CHANGE IN SCOPE	CW	S3	03	-290	210	55	56	1,100	1,131	0	1,131	0	0	0	0	1,131	0	0	0	0	0	1,131
0 314	FERROUS UPGRADES-CHANGE IN SCOPE	CW	S3	03	-1,754	1,821	0	0	0	67	0	67	0	0	480	0	-413	0	0	0	0	0	67
0 315	ELECTRICAL REHAB - ECAP-CHANGE IN SCOPE	CW	S3	01	-2,294	2,380	224	0	0	310	0	310	0	0	0	0	310	0	0	0	0	0	310
0 316	P BLDG HEADWORKS ENG DESIGN&CONTRA-CHANGE IN SCOPE	CW	S3	03	-384	861	176	0	0	653	0	653	0	0	206	0	447	0	0	0	0	0	653
0 317	PROCESS UPGRADES & ODOUR CONTROL E-CHANGE IN SCOPE	CW	S3	04	-60	90	0	0	0	30	0	30	0	0	9	0	21	0	0	0	0	0	30
0 318	HEATING AND AIR SYSTEMS	CW	S4	03	705	4,095	5,755	6,005	2,555	19,115	130	19,245	0	0	0	0	19,245	0	0	0	0	0	19,245
0 320	EAST BYPASS	CW	S4	02	250	700	1,450	1,200	10,800	14,400	73,610	88,010	0	0	0	0	88,010	0	0	0	0	0	88,010
0 321	ABTP SOLAR PV PILOT PROJECT	CW	S4	04	250	2,050	75	225	0	2,600	0	2,600	0	0	0	0	2,600	0	0	0	0	0	2,600
0 322	SECONDARY CLARIFIER CROSS COLLECTOR UPGR TANK 2&4	CW	S4	04	75	1,800	1,100	15	10	3,000	0	3,000	0	0	0	0	3,000	0	0	0	0	0	3,000
0 323	BLOWER 7-9 OVERHAUL-CHANGE IN SCOPE	CW	S3	03	0	500	0	0	0	500	0	500	0	0	0	0	500	0	0	0	0	0	500
0 324	ABTP - PROCESS ROADMAP PHASE 2-CHANGE IN SCOPE	CW	S3	05	-500	350	850	100	0	800	0	800	0	0	0	0	800	0	0	0	0	0	800
0 325	HVAC CONVERSION Z-BLDG-CHANGE IN SCOPE	CW	S3	03	0	100	130	0	0	230	0	230	0	0	0	0	230	0	0	0	0	0	230
0 326	OPERATIONS CENTRE - ENGINEERING-CHANGE IN SCOPE	CW	S3	03	-10	0	0	0	0	-10	0	-10	0	0	0	0	-10	0	0	0	0	0	-10
Sub-total					18,897	58,690	54,481	42,339	37,344	211,751	95,658	307,409	0	0	1,541	0	305,868	0	0	0	0	0	307,409
WAS000115 HUMBER T.P.																							
0 9	CO-GENERATION	CW	S2	04	87	0	0	0	0	87	0	87	0	0	0	0	87	0	0	0	0	0	87
0 64	CO-GENERATION-CHANGE IN SCOPE	CW	S3	04	33	0	0	0	0	33	0	33	0	0	0	0	33	0	0	0	0	0	33
Sub-total					120	0	0	0	0	120	0	120	0	0	0	0	120	0	0	0	0	0	120
WAS000259 TRUNK SEWER SYSTEM																							
0 15	TRUNK SEWER REHABILITATION - 2012	CW	S2	03	1,093	87	16	0	0	1,196	0	1,196	0	0	0	0	1,196	0	0	0	0	0	1,196
0 27	TRUNK SEWER REHABILITATION - 2014	CW	S2	03	23,755	3,380	10	14	0	27,159	0	27,159	0	0	0	0	27,159	0	0	0	0	0	27,159
0 34	BLACK CREEK STS EA	CW	S2	05	1,352	0	0	0	0	1,352	0	1,352	0	0	0	0	1,352	0	0	0	0	0	1,352
0 47	TRUNK SEWER REHABILITATION - 2016	CW	S2	03	22,085	9,047	1,535	151	0	32,818	0	32,818	0	0	0	0	32,818	0	0	0	0	0	32,818
0 53	TRUNK SEWER REHABILITATION - 2018	CW	S2	03	13,962	44,974	69,585	39,611	9,357	177,489	142	177,631	0	0	0	0	177,631	0	0	0	0	0	177,631

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**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Wastewater Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAS000259 TRUNK SEWER SYSTEM</b>																								
0	62	TRUNK SEWER REHABILITATION - 2012-CHANGE IN SCOPE	CW	S3	03	-742	943	5	0	0	206	0	206	0	0	0	0	206	0	0	0	0	0	206
0	63	TRUNK SEWER REHABILITATION - 2016-CHANGE IN SCOPE	CW	S3	03	-10,775	1,514	-1,524	-151	0	-10,936	0	-10,936	0	0	0	0	-10,936	0	0	0	0	0	-10,936
0	64	BLACK CREEK STS EA-CHANGE IN SCOPE	CW	S3	05	-887	347	0	0	0	-540	0	-540	0	0	0	0	-540	0	0	0	0	0	-540
0	65	TRUNK SEWER REHABILITATION - 2018-CHANGE IN SCOPE	CW	S3	03	-7,439	2,360	-8,650	-3,181	8,600	-8,310	8,002	-308	0	0	0	0	-308	0	0	0	0	0	-308
0	66	TRUNK SEWER REHABILITATION - 2014-CHANGE IN SCOPE	CW	S3	03	-15,447	12,590	2,256	2	0	-599	0	-599	0	0	0	0	-599	0	0	0	0	0	-599
0	67	TRUNK SEWER REHABILITATION - 2019	CW	S4	03	775	2,635	5,470	32,777	8,813	50,470	11,958	62,428	0	0	0	0	62,428	0	0	0	0	0	62,428
0	68	LOWER SIMCOE CSO	CW	S4	04	700	1,100	700	900	8,400	11,800	10,200	22,000	0	0	0	0	22,000	0	0	0	0	0	22,000
Sub-total						28,432	78,977	69,403	70,123	35,170	282,105	30,302	312,407	0	0	0	0	312,407	0	0	0	0	0	312,407
<b>WAS000442 BASEMENT FLOODING RELIEF</b>																								
0	1	BASEMENT FLOODING PROTECTION SUBSIDY PROGRAM	CW	S2	04	5,500	5,500	0	0	0	11,000	0	11,000	0	0	0	0	11,000	0	0	0	0	0	11,000
0	8	BASEMENT FLOODING STUDIES & EAS	CW	S2	04	701	0	0	0	0	701	0	701	0	0	7	0	694	0	0	0	0	0	701
0	9	BASEMENT FLOODING RELIEF - TUNNEL PROJECT	CW	S2	04	5,446	5,800	37,700	37,000	37,000	122,946	81,900	204,846	0	0	96	0	204,750	0	0	0	0	0	204,846
0	12	ROAD RESTORATION FOR BSMT FLDG PRJS	CW	S2	04	292	0	0	0	0	292	0	292	0	0	2	0	290	0	0	0	0	0	292
0	14	BASEMENT FLOODING DESIGN - GROUP 1	CW	S2	04	1,206	0	0	0	0	1,206	0	1,206	0	0	20	0	1,186	0	0	0	0	0	1,206
0	18	BASEMENT FLOODING DESIGN - GROUP 2	CW	S2	04	3,135	2,126	0	0	0	5,261	0	5,261	0	0	15	0	5,246	0	0	0	0	0	5,261
0	19	BASEMENT FLOODING RELIEF - GROUP 2	CW	S2	04	16,906	4,203	0	0	0	21,109	0	21,109	0	0	450	0	20,659	0	0	0	0	0	21,109
0	20	BASEMENT FLOODING DESIGN - GROUP 3	CW	S2	04	2,219	1,030	919	0	0	4,168	0	4,168	0	0	54	0	4,114	0	0	0	0	0	4,168
0	29	BASEMENT FLOODING RELIEF - GROUP 1	CW	S2	04	2,528	30	0	0	0	2,558	0	2,558	0	0	2	0	2,556	0	0	0	0	0	2,558
0	76	BASEMENT FLOODING FLOW MONITORING	CW	S2	04	954	982	0	0	0	1,936	0	1,936	0	0	0	0	1,936	0	0	0	0	0	1,936
0	77	BASEMENT FLOODING DESIGN - GROUP 4 (ENGINEERING)	CW	S2	04	34,297	34,520	42,713	47,250	46,465	205,245	123,754	328,999	0	0	513	0	328,486	0	0	0	0	0	328,999
0	81	BASEMENT FLOODING STUDIES & EAS-CW IMPLEMENTATION	CW	S2	04	5,758	3,755	1,750	1,000	750	13,013	0	13,013	0	0	65	0	12,948	0	0	0	0	0	13,013
0	89	BASEMENT FLOODING RELIEF - GROUP 4 (CONSTRUCTION)	CW	S2	04	39,481	63,740	44,277	53,652	72,173	273,323	196,981	470,304	0	0	1,020	0	469,284	0	0	0	0	0	470,304
0	107	BASEMENT FLOODING RELIEF - GROUP 3 (CONSTRUCTION)	CW	S2	04	12,443	16,744	13,978	0	0	43,165	0	43,165	0	0	396	0	42,769	0	0	0	0	0	43,165
0	132	BASEMENT FLOODING STUDIES & EAS-CW-CHANGE IN SCOPE	CW	S3	04	-1,238	9,861	19,915	17,940	14,505	60,983	1,100	62,083	0	0	7,146	0	54,937	0	0	0	0	0	62,083

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**Wastewater Program**

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By										
					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<b>WAS000442 BASEMENT FLOODING RELIEF</b>																								
0 133	BASEMENT FLOODING RELIEF - GROUP 1-CHANGE IN SCOPE	CW	S3	04	-2,407	911	0	0	0	-1,496	0	-1,496	0	0	157	0	-1,653	0	0	0	0	0	0	-1,496
0 134	BASEMENT FLOODING DESIGN - GROUP 3-CHANGE IN SCOPE	CW	S3	04	-282	529	0	0	0	247	0	247	0	0	609	0	-362	0	0	0	0	0	0	247
0 135	BASEMENT FLOODING DESIGN - GROUP 4-CHANGE IN SCOPE	CW	S3	04	-17,697	-4,557	-8,750	-1,929	-16,628	-49,561	-54,771	-104,332	0	0	33,186	0	-137,518	0	0	0	0	0	0	-104,332
0 136	BASEMENT FLOODING RELIEF - GROUP 4-CHANGE IN SCOPE	CW	S3	04	-15,156	-25,088	15,734	14,510	-2,455	-12,455	38,994	26,539	0	0	63,283	0	-36,744	0	0	0	0	0	0	26,539
0 137	BASEMENT FLOODING STUDIES & EAS-CHANGE IN SCOPE	CW	S3	04	-616	400	150	200	0	134	0	134	0	0	119	0	15	0	0	0	0	0	0	134
0 138	BASEMENT FLOODING RELIEF - GROUP 3-CHANGE IN SCOPE	CW	S3	04	-3,450	3,101	-492	6,284	0	5,443	0	5,443	0	0	6,896	0	-1,453	0	0	0	0	0	0	5,443
0 139	BASEMENT FLOODING RELIEF - TUNNEL -CHANGE IN SCOPE	CW	S3	04	-1,761	2,165	-17,693	-850	0	-18,139	23,000	4,861	0	0	31,361	0	-26,500	0	0	0	0	0	0	4,861
0 140	BASEMENT FLOODING DESIGN - GROUP 1-CHANGE IN SCOPE	CW	S3	04	-1,076	1,703	0	0	0	627	0	627	0	0	255	0	372	0	0	0	0	0	0	627
0 141	BASEMENT FLOODING RELIEF - GROUP 2-CHANGE IN SCOPE	CW	S3	04	-8,554	11,046	0	0	0	2,492	0	2,492	0	0	3,090	0	-598	0	0	0	0	0	0	2,492
0 142	BASEMENT FLOODING DESIGN - GROUP 2-CHANGE IN SCOPE	CW	S3	04	-3,032	3,854	0	0	0	822	0	822	0	0	897	0	-75	0	0	0	0	0	0	822
0 143	BASEMENT FLOODING FLOW MONITORING-CHANGE IN SCOPE	CW	S3	04	606	308	0	0	0	914	0	914	0	0	428	0	486	0	0	0	0	0	0	914
0 144	ROAD RESTORATION FOR BSMT FLDG PRJ-CHANGE IN SCOPE	CW	S3	04	-198	202	0	0	0	4	0	4	0	0	42	0	-38	0	0	0	0	0	0	4
Sub-total					76,005	142,865	150,201	175,057	151,810	695,938	410,958	1,106,896	0	0	150,109	0	956,787	0	0	0	0	0	0	1,106,896
<b>WAS000521 HIGHLAND CREEK WWTP - BUILDING SERV &amp;</b>																								
0 3	HCTP BLDG REHAB & IMPROVEMENTS	CW	S2	03	1,375	0	0	0	0	1,375	0	1,375	0	0	0	0	1,375	0	0	0	0	0	0	1,375
0 11	HCTP BLDG REHAB & IMPROVEMENTS-CHANGE IN SCOPE	CW	S3	03	-375	350	0	0	0	-25	0	-25	0	0	0	0	-25	0	0	0	0	0	0	-25
Sub-total					1,000	350	0	0	0	1,350	0	1,350	0	0	0	0	1,350	0	0	0	0	0	0	1,350
<b>WAS906322 W&amp;WW LABORATORIES</b>																								
0 22	LAB & EMP FACILITIES	CW	S2	04	7,550	2,500	0	0	0	10,050	8,450	18,500	0	0	0	0	18,500	0	0	0	0	0	0	18,500
0 27	LAB EQUIPMENT - FUTURE	CW	S2	03	337	242	458	102	210	1,349	840	2,189	0	0	0	0	2,189	0	0	0	0	0	0	2,189
0 33	LAB EQUIPMENT - FUTURE-CHANGE IN SCOPE	CW	S3	03	-337	2	0	-102	0	-437	210	-227	0	0	0	0	-227	0	0	0	0	0	0	-227
0 34	LAB EQUIPMENT-CHANGE IN SCOPE	CW	S3	03	562	0	0	0	0	562	0	562	0	0	0	0	562	0	0	0	0	0	0	562
0 35	LAB & EMP FACILITIES-CHANGE IN SCOPE	CW	S3	04	-6,500	1,750	4,950	0	0	200	0	200	0	0	0	0	200	0	0	0	0	0	0	200
Sub-total					1,612	4,494	5,408	0	210	11,724	9,500	21,224	0	0	0	0	21,224	0	0	0	0	0	0	21,224
<b>WAS906328 SWM END OF PIPE FACILITIES</b>																								







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**Wastewater Program**

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By									
					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable	Total Financing	
<b>WAS906495 SEWER ASSET PLANNING</b>																							
0 39	SEWER SYSTEM INSPECTION-CHANGE IN SCOPE	CW	S3	03	2,454	12,073	20,131	15,400	15,700	65,758	10,500	76,258	0	0	0	0	76,258	0	0	0	0	76,258	
0 40	SEWER ASSET PLANNING-CHANGE IN SCOPE	CW	S3	03	-5,828	3,696	2,757	1,145	2,850	4,620	1,000	5,620	0	0	298	0	5,322	0	0	0	0	5,620	
0 41	PPD - INFRASTRUCTURE PLANNING STUD-CHANGE IN SCOPE	CW	S3	05	25	150	0	0	0	175	0	175	0	0	0	0	175	0	0	0	0	175	
0 42	CORP IT - IDC-CHANGE IN SCOPE	CW	S3	04	150	0	0	0	0	150	0	150	0	0	0	0	150	0	0	0	0	150	
Sub-total					15,901	32,459	30,888	24,545	20,550	124,343	11,500	135,843	0	0	3,326	0	132,517	0	0	0	0	135,843	
<b>WAS906500 NEW SEWER CONSTRUCTION</b>																							
0 5	NEW SEWERS	CW	S2	05	88	500	0	0	0	588	0	588	0	0	371	0	217	0	0	0	0	588	
0 24	WATERFRONT SANITARY MASTER SERVICING PLAN IMP	CW	S2	05	6,500	6,500	1,500	750	0	15,250	0	15,250	0	0	7,625	0	7,625	0	0	0	0	15,250	
0 25	DOWNSVIEW LANDS EXTERNAL UPGRADES	CW	S2	05	0	1,450	5,000	1,550	0	8,000	0	8,000	0	0	8,000	0	0	0	0	0	0	8,000	
0 36	SHEPPARD SANITARY SEWER AT EAST DON STS	CW	S2	05	2,000	1,000	0	0	0	3,000	0	3,000	0	0	1,866	0	1,134	0	0	0	0	3,000	
0 40	WATERFRONT SANITARY MASTER SERVICI-CHANGE IN SCOPE	CW	S3	05	-5,150	1,116	11,559	22,437	10,851	40,813	4,676	45,489	0	0	11,152	0	34,337	0	0	0	0	45,489	
0 41	SHEPPARD SANITARY SEWER AT EAST DO-CHANGE IN SCOPE	CW	S3	05	-2,000	-1,000	1,400	1,800	800	1,000	0	1,000	0	0	623	0	377	0	0	0	0	1,000	
0 42	NEW SEWERS-CHANGE IN SCOPE	CW	S3	05	-38	0	0	0	0	-38	0	-38	0	0	179	0	-217	0	0	0	0	-38	
Sub-total					1,400	9,566	19,459	26,537	11,651	68,613	4,676	73,289	0	0	29,816	0	43,473	0	0	0	0	73,289	
<b>WAS906735 DIST SEWER REHAB OPS YR2005</b>																							
0 10	GROUP 1 SEWAGE PUMPING STATION UPGRADES	CW	S2	03	16	20	0	0	0	36	0	36	0	0	4	0	32	0	0	0	0	36	
0 20	GROUP 1 SEWAGE PUMPING STATION UPG-CHANGE IN SCOPE	CW	S3	03	-1	1	0	0	0	0	0	0	0	0	1	0	-1	0	0	0	0	0	
Sub-total					15	21	0	0	0	36	0	36	0	0	5	0	31	0	0	0	0	36	
<b>WAS906741 HIGHLAND CREEK TP YR2005</b>																							
0 1	WAS THICKENING AND DEWATERING - ENG	CW	S2	03	2	0	0	0	0	2	0	2	0	0	0	0	2	0	0	0	0	2	
0 21	WAS THICKENING AND DEWATERING - EN-CHANGE IN SCOPE	CW	S3	03	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	
Sub-total					3	0	0	0	0	3	0	3	0	0	0	0	3	0	0	0	0	3	
<b>WAS906742 HUMBER TP YR2005</b>																							
0 8	ODOUR CONTROL ENGINEERING	CW	S2	04	374	90	20	0	0	484	0	484	0	0	0	0	484	0	0	0	0	484	



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					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
<b>WAS906926 OPERATIONAL SUPPORT</b>																						
0 128	OFFICE MODERNIZATION - MH18-CHANGE IN SCOPE	CW	S3	04	-450	-975	0	0	0	-1,425	0	-1,425	0	0	0	0	-1,425	0	0	0	0	-1,425
0 129	435 KIPLING AVENUE-CHANGE IN SCOPE	CW	S3	04	-1,870	-1,850	3,750	0	0	30	0	30	0	0	0	0	30	0	0	0	0	30
0 130	EMP MONITORING NEEDS-CHANGE IN SCOPE	CW	S3	04	0	50	50	0	0	100	0	100	0	0	0	0	100	0	0	0	0	100
Sub-total					6,566	8,047	9,942	1,097	120	25,772	0	25,772	0	0	0	0	25,772	0	0	0	0	25,772
<b>WAS906958 SEWER SYSTEM REHABILITATION</b>																						
0 2	GROUPS 2, 3 & 4 SEWAGE PUMPING STATION UPGRADES	CW	S2	03	4	0	0	0	0	4	0	4	0	0	1	0	3	0	0	0	0	4
0 5	CCTV INSPECTION	CW	S2	03	1,048	1,100	0	0	0	2,148	0	2,148	0	0	0	0	2,148	0	0	0	0	2,148
0 8	SPS SCADA UPGRADES - ENGINEERING	CW	S2	04	517	0	0	0	0	517	0	517	0	0	42	0	475	0	0	0	0	517
0 9	SEWER REHABILITATION	CW	S2	03	23,854	13,836	5,500	4,700	0	47,890	0	47,890	0	0	0	0	47,890	0	0	0	0	47,890
0 23	SEWAGE PUMPING STATION STANDBY POWER	CW	S2	02	117	0	0	0	0	117	0	117	0	0	9	0	108	0	0	0	0	117
0 24	GROUP 5 SEWAGE PUMPING STATION UPGRADES	CW	S2	05	8,700	4,507	80	0	0	13,287	0	13,287	0	0	1,214	0	12,073	0	0	0	0	13,287
0 79	SEWER REHABILITATION - CWD	CW	S2	03	55,323	21,580	2,743	2,743	0	82,389	0	82,389	0	0	0	0	82,389	0	0	0	0	82,389
0 98	SEWER REHABILITATION - CWD-CHANGE IN SCOPE	CW	S3	03	-30,270	18,983	49,496	15,000	0	53,209	0	53,209	0	0	0	0	53,209	0	0	0	0	53,209
0 99	GROUP 5 SEWAGE PUMPING STATION UPG-CHANGE IN SCOPE	CW	S3	05	-2,254	1,001	1,698	0	0	445	0	445	0	0	818	0	-373	0	0	0	0	445
0 100	SEWAGE PUMPING STATION STANDBY POW-CHANGE IN SCOPE	CW	S3	02	-102	103	0	0	0	1	0	1	0	0	8	0	-7	0	0	0	0	1
0 101	SPS SCADA UPGRADES - ENGINEERING-CHANGE IN SCOPE	CW	S3	04	-324	69	0	0	0	-255	0	-255	0	0	-3	0	-252	0	0	0	0	-255
0 102	SEWER REHABILITATION-CHANGE IN SCOPE	CW	S3	03	2,860	14,837	6,816	4,300	4,000	32,813	200	33,013	0	0	0	0	33,013	0	0	0	0	33,013
0 103	CCTV INSPECTION-CHANGE IN SCOPE	CW	S3	03	68	49	0	0	0	117	0	117	0	0	0	0	117	0	0	0	0	117
0 105	SEWER REHABILITATION - CUT REPAIRS	CW	S4	03	2,995	4,001	4,001	641	0	11,638	0	11,638	0	0	0	0	11,638	0	0	0	0	11,638
0 106	GROUPS 2, 3 & 4 SEWAGE PUMPING STA-CHANGE IN SCOPE	CW	S3	03	2	0	0	0	0	2	0	2	0	0	0	0	2	0	0	0	0	2
Sub-total					62,538	80,066	70,334	27,384	4,000	244,322	200	244,522	0	0	2,089	0	242,433	0	0	0	0	244,522
<b>WAS906960 STREAM RESTORATION &amp; EROSION CONTRC</b>																						
0 7	STREAM RESTORATION	CW	S2	03	73	0	0	0	0	73	0	73	0	0	6	0	67	0	0	0	0	73
0 41	WATERCOURSE - ENGINEERING	CW	S2	03	972	1,300	900	1,040	665	4,877	795	5,672	0	0	441	0	5,231	0	0	0	0	5,672

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**Wastewater Program**

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By										
					2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<b>WAS906960 STREAM RESTORATION &amp; EROSION CONTRC</b>																								
0 43	PARTNER PROJECTS	CW	S2	03	600	600	200	0	0	1,400	0	1,400	0	0	112	0	1,288	0	0	0	0	0	1,400	
0 45	WATERCOURSE - CONSTRUCTION	CW	S4	03	850	5,470	2,045	1,500	1,450	11,315	1,700	13,015	0	0	0	0	13,015	0	0	0	0	0	13,015	
0 51	STUDIES, EAs, MASTER PLANS	CW	S2	03	3,017	1,562	593	75	0	5,247	0	5,247	0	0	461	0	4,786	0	0	0	0	0	5,247	
0 52	CRITICAL REPAIRS	CW	S2	03	3,159	1,958	2,223	673	548	8,561	30	8,591	0	0	668	0	7,923	0	0	0	0	0	8,591	
0 53	EMERGENCY EROSION CONTROL	CW	S2	03	300	300	300	150	0	1,050	0	1,050	0	0	84	0	966	0	0	0	0	0	1,050	
0 62	STUDIES, EAs, MASTER PLANS -CHANGE IN SCOPE	CW	S3	03	-1,770	775	845	275	175	300	75	375	0	0	372	0	3	0	0	0	0	0	375	
0 63	EMERGENCY EROSION CONTROL-CHANGE IN SCOPE	CW	S3	03	2,384	2,572	2,691	2,904	2,710	13,261	615	13,876	0	0	-84	0	13,960	0	0	0	0	0	13,876	
0 64	STREAM RESTORATION -CHANGE IN SCOPE	CW	S3	03	-22	0	0	0	0	-22	0	-22	0	0	-6	0	-16	0	0	0	0	0	-22	
0 65	CRITICAL REPAIRS-CHANGE IN SCOPE	CW	S3	03	-824	1,416	299	517	-523	885	-5	880	0	0	-668	0	1,548	0	0	0	0	0	880	
0 66	PARTNER PROJECTS-CHANGE IN SCOPE	CW	S3	03	0	0	0	0	0	0	0	0	0	0	-112	0	112	0	0	0	0	0	0	
0 67	WATERCOURSE - ENGINEERING-CHANGE IN SCOPE	CW	S3	03	-378	51	753	763	990	2,179	1,415	3,594	0	0	-441	0	4,035	0	0	0	0	0	3,594	
Sub-total					8,361	16,004	10,849	7,897	6,015	49,126	4,625	53,751	0	0	833	0	52,918	0	0	0	0	0	53,751	
<b>WAS906966 SWM TRCA FUNDING</b>																								
0 24	TORONTO WATER TRANSFER TO TRCA CAP-CHANGE IN SCOPE	CW	S3	04	4,491	0	0	0	0	4,491	0	4,491	0	0	674	0	3,817	0	0	0	0	0	4,491	
Sub-total					4,491	0	0	0	0	4,491	0	4,491	0	0	674	0	3,817	0	0	0	0	0	0	4,491
<b>WAS906968 ENGINEERING</b>																								
0 2	CONSULTING FEES	CW	S2	03	16,913	6,921	2,301	1,145	710	27,990	996	28,986	0	0	0	0	28,986	0	0	0	0	0	28,986	
0 59	ROAD RESTORATION	CW	S2	03	729	0	0	0	0	729	0	729	0	0	0	0	729	0	0	0	0	0	729	
0 70	CONSULTING FEES-CHANGE IN SCOPE	CW	S3	03	-8,509	10,290	21,135	16,976	7,013	46,905	584	47,489	0	0	0	0	47,489	0	0	0	0	0	47,489	
0 71	ECS SALARIES-CHANGE IN SCOPE	CW	S3	03	14,491	0	0	0	0	14,491	0	14,491	0	0	0	0	14,491	0	0	0	0	0	14,491	
0 72	TW SALARIES-CHANGE IN SCOPE	CW	S3	03	1,089	0	0	0	0	1,089	0	1,089	0	0	0	0	1,089	0	0	0	0	0	1,089	
0 73	ROAD RESTORATION-CHANGE IN SCOPE	CW	S3	03	-59	0	0	0	0	-59	0	-59	0	0	0	0	-59	0	0	0	0	0	-59	
Sub-total					24,654	17,211	23,436	18,121	7,723	91,145	1,580	92,725	0	0	0	0	92,725	0	0	0	0	0	92,725	
<b>WAS906973 SEWER REPLACEMENT PROGRAM</b>																								
0 25	2012 SEWER REPLC	CW	S2	03	325	0	0	0	0	325	0	325	0	0	0	0	325	0	0	0	0	0	325	

**CITY OF TORONTO**

Gross Expenditures (\$000's)

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Wastewater Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAS906973 SEWER REPLACEMENT PROGRAM</u>																								
0	35	2013 SEWER REPLC	CW	S2	03	10	0	0	0	0	10	0	10	0	0	1	0	9	0	0	0	0	0	10
0	36	SEWER REPLC - 2014 PROGRAM	CW	S2	03	28	0	0	0	0	28	0	28	0	0	2	0	26	0	0	0	0	0	28
0	46	WATERFRONT STORMWATER INFRASTRUCTURE	CW	S2	04	3,250	0	0	0	0	3,250	0	3,250	0	0	2,017	0	1,233	0	0	0	0	0	3,250
0	47	EBF REPORT	CW	S2	04	1,070	0	0	0	0	1,070	0	1,070	0	0	701	0	369	0	0	0	0	0	1,070
0	52	SEWER REPLACEMENT - METROLINX	CW	S2	03	1,213	1,966	1,916	800	0	5,895	0	5,895	0	0	0	0	5,895	0	0	0	0	0	5,895
0	62	SEWER REPLC - 2015 PROGRAM	CW	S2	03	604	0	0	0	0	604	0	604	0	0	48	0	556	0	0	0	0	0	604
0	71	SEWER REPLC - 2016 PROGRAM	CW	S2	03	3,694	0	0	0	0	3,694	0	3,694	0	0	297	0	3,397	0	0	0	0	0	3,694
0	75	FORCEMAIN REPLACEMENT - 2016	CW	S2	03	10,354	10,514	47	0	0	20,915	0	20,915	0	0	0	0	20,915	0	0	0	0	0	20,915
0	78	SEWER REPLC - 2017 PROGRAM	CW	S2	03	879	60	0	0	0	939	0	939	0	0	75	0	864	0	0	0	0	0	939
0	79	SEWER REPLC - 2018 PROGRAM	CW	S2	03	1,938	2,820	129	30	0	4,917	0	4,917	0	0	393	0	4,524	0	0	0	0	0	4,917
0	98	SEWER REPLC - 2019 PROGRAM	CW	S2	03	18,382	5,927	2,491	0	0	26,800	0	26,800	0	0	2,158	0	24,642	0	0	0	0	0	26,800
0	100	CSP RENEWAL	CW	S2	03	5,812	1,019	0	0	0	6,831	0	6,831	0	0	543	0	6,288	0	0	0	0	0	6,831
0	102	SEWER REPLC - 2016 PROGRAM-CHANGE IN SCOPE	CW	S3	03	-3,465	1,947	0	0	0	-1,518	0	-1,518	0	0	-129	0	-1,389	0	0	0	0	0	-1,518
0	103	SEWER REPLC - 2017 PROGRAM-CHANGE IN SCOPE	CW	S3	03	-721	154	0	0	0	-567	0	-567	0	0	-47	0	-520	0	0	0	0	0	-567
0	104	SEWER REPLC - 2018 PROGRAM-CHANGE IN SCOPE	CW	S3	03	-1,427	-2,420	321	-30	0	-3,556	0	-3,556	0	0	-288	0	-3,268	0	0	0	0	0	-3,556
0	105	SEWER REPLC - 2019 PROGRAM-CHANGE IN SCOPE	CW	S3	03	-9,821	6,660	15,588	4,712	2,469	19,608	100	19,708	0	0	-130	0	19,838	0	0	0	0	0	19,708
0	106	2012 SEWER REPLC-CHANGE IN SCOPE	CW	S3	03	-320	225	0	0	0	-95	0	-95	0	0	0	0	-95	0	0	0	0	0	-95
0	107	CSP RENEWAL-CHANGE IN SCOPE	CW	S3	03	-1,639	659	400	0	0	-580	0	-580	0	0	-62	0	-518	0	0	0	0	0	-580
0	108	EBF REPORT-CHANGE IN SCOPE	CW	S3	04	-521	1,000	0	0	0	479	0	479	0	0	43	0	436	0	0	0	0	0	479
0	109	WATERFRONT STORMWATER INFRASTRUCTU-CHANGE IN SCOPE	CW	S3	04	-2,250	825	0	0	0	-1,425	0	-1,425	0	0	-1,139	0	-286	0	0	0	0	0	-1,425
0	110	SEWER REPLC - 2014 PROGRAM-CHANGE IN SCOPE	CW	S3	03	-9	0	0	0	0	-9	0	-9	0	0	-1	0	-8	0	0	0	0	0	-9
0	111	SEWER REPLC - 2015 PROGRAM-CHANGE IN SCOPE	CW	S3	03	-394	150	0	0	0	-244	0	-244	0	0	-20	0	-224	0	0	0	0	0	-244
0	114	SEWER REPLACEMENT - METROLINX-CHANGE IN SCOPE	CW	S3	03	-600	291	241	0	0	-68	0	-68	0	0	0	0	-68	0	0	0	0	0	-68



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Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding

Wastewater Program

						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAS906981 HIGHLAND CREEK WWTP UPGRADES</u>																							
0 158	ELECTRICAL UPGRADES - ECAR-CHANGE IN SCOPE	CW	S3	03	-4,692	46	0	0	0	-4,646	0	-4,646	0	0	0	0	-4,646	0	0	0	0	0	-4,646
0 159	LIQUID TRAIN - ENGINEERING-CHANGE IN SCOPE	CW	S3	03	-1,705	115	50	700	0	-840	2,509	1,669	0	0	0	0	1,669	0	0	0	0	0	1,669
0 161	MECH & ELECTRICAL UPGRADE ENGINEER-CHANGE IN SCOPE	CW	S3	03	-60	0	0	0	0	-60	0	-60	0	0	0	0	-60	0	0	0	0	0	-60
0 162	CEPA COMPLIANCE - CL NOTICE - HCTP-CHANGE IN SCOPE	CW	S3	02	-4,661	-2,673	-32	7,406	37	77	37	114	0	0	0	0	114	0	0	0	0	0	114
0 163	COMMUNICATION SYSTEM-CHANGE IN SCOPE	CW	S3	04	-250	-1,930	-1,270	3,330	490	370	0	370	0	0	0	0	370	0	0	0	0	0	370
Sub-total					12,893	48,697	44,435	47,519	40,927	194,471	50,218	244,689	0	0	279	0	244,410	0	0	0	0	0	244,689
<u>WAS906982 HUMBER WWTP UPGRADES</u>																							
0 2	CHLORINE FACILITY UPGRADE	CW	S2	01	718	0	0	0	0	718	0	718	0	0	0	0	718	0	0	0	0	0	718
0 6	NEW SUBSTATION	CW	S2	03	77	0	0	0	0	77	0	77	0	0	0	0	77	0	0	0	0	0	77
0 7	ELECTRICAL CONDITION ASSESSMENT RECOMMENDATIONS	CW	S2	01	2,285	23	23	0	0	2,331	0	2,331	0	0	0	0	2,331	0	0	0	0	0	2,331
0 29	ADMIN BUILDING EXPANSION - ENGINEERING	CW	S2	04	710	800	454	427	0	2,391	0	2,391	0	0	0	0	2,391	0	0	0	0	0	2,391
0 52	HVAC UPGRADES	CW	S2	03	5,978	2,322	17	0	0	8,317	0	8,317	0	0	0	0	8,317	0	0	0	0	0	8,317
0 81	BLOWER REPLACEMENT	CW	S2	03	5	0	0	100	200	305	12,550	12,855	0	0	0	0	12,855	0	0	0	0	0	12,855
0 82	DIGESTERS CLEANING REHAB	CW	S2	04	5,400	6,500	6,000	4,000	3,000	24,900	0	24,900	0	0	0	0	24,900	0	0	0	0	0	24,900
0 95	REPLACEMENT OF WASTE GAS BURNERS	CW	S2	03	8,211	5,500	2,770	40	0	16,521	0	16,521	0	0	0	0	16,521	0	0	0	0	0	16,521
0 99	WET WEATHER FLOW	CW	S2	04	540	600	2,500	4,750	4,500	12,890	0	12,890	0	0	0	0	12,890	0	0	0	0	0	12,890
0 107	MESI UPGRADES	CW	S2	03	600	500	500	500	0	2,100	0	2,100	0	0	0	0	2,100	0	0	0	0	0	2,100
0 114	FIELD OFFICE	CW	S2	03	324	0	0	0	0	324	0	324	0	0	0	0	324	0	0	0	0	0	324
0 115	ADMIN BUILDING EXPANSION - CONSTRUCTION	CW	S2	03	1,568	1,500	1,500	1,550	0	6,118	0	6,118	0	0	0	0	6,118	0	0	0	0	0	6,118
0 116	SERVICE REHAB AND UPGRADES	CW	S2	03	600	500	2,500	4,750	4,500	12,850	0	12,850	0	0	0	0	12,850	0	0	0	0	0	12,850
0 129	ELECTRICAL CONDITION ASSESSMENT RE-CHANGE IN SCOPE	CW	S3	01	-2,200	2,167	1	0	0	-32	0	-32	0	0	0	0	-32	0	0	0	0	0	-32
0 130	ADMIN BUILDING EXPANSION - CONSTRU-CHANGE IN SCOPE	CW	S3	03	-168	-400	-400	600	0	-368	0	-368	0	0	0	0	-368	0	0	0	0	0	-368
0 131	ADMIN BUILDING EXPANSION - ENGINEE-CHANGE IN SCOPE	CW	S3	04	69	-195	-105	-400	0	-631	0	-631	0	0	0	0	-631	0	0	0	0	0	-631
0 132	CHLORINE FACILITY UPGRADE-CHANGE IN SCOPE	CW	S3	01	-718	0	0	0	0	-718	0	-718	0	0	0	0	-718	0	0	0	0	0	-718





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Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
<u>WAS907097 ASHBRIDGES BAY WWTP - BUILDING SERVIC</u>																							
0	7	CONTROLLED SUBSTANCE IDENTIFICATION AND ABATEMENT	CW	S2	02	100	100	0	0	0	200	0	200	0	0	0	0	200	0	0	0	0	200
0	19	BIO GAS UTILIZATION	CW	S2	04	850	1,000	1,000	2,000	2,000	6,850	1,150	8,000	0	0	0	0	8,000	0	0	0	0	8,000
0	21	BLOWER BLDG & OLD NORTH SUBSTATION IMPROVEMENTS	14	S2	04	6,321	5,474	23	0	0	11,818	0	11,818	0	0	0	0	11,818	0	0	0	0	11,818
0	64	GROVE LANDSCAPING - PHASE 1	CW	S2	04	117	7	0	0	0	124	0	124	0	0	0	0	124	0	0	0	0	124
0	68	BLOWER BLDG & OLD NORTH SUBSTATION-CHANGE IN SCOPE	14	S3	04	-3,956	-1,699	3,690	0	0	-1,965	0	-1,965	0	0	0	0	-1,965	0	0	0	0	-1,965
0	69	BIO GAS UTILIZATION-CHANGE IN SCOPE	CW	S3	04	-800	-800	-200	-1,000	-1,000	-3,800	4,000	200	0	0	0	0	200	0	0	0	0	200
0	70	CONTROLLED SUBSTANCE IDENTIFICATIO-CHANGE IN SCOPE	CW	S3	02	-100	-100	0	0	0	-200	0	-200	0	0	0	0	-200	0	0	0	0	-200
0	71	GROVE LANDSCAPING - PHASE 1-CHANGE IN SCOPE	CW	S3	04	-7	0	0	0	0	-7	0	-7	0	0	0	0	-7	0	0	0	0	-7
Sub-total						2,525	3,982	4,513	1,000	1,000	13,020	5,150	18,170	0	0	0	0	18,170	0	0	0	0	18,170
<u>WAS907098 ASHBRIDGES BAY WWTP - EFFLUENT SYSTE</u>																							
0	1	DISINFECTION ENGINEERING	CW	S2	02	4,900	1,550	1,075	492	75	8,092	58	8,150	0	0	657	0	7,493	0	0	0	0	8,150
0	2	OUTFALL CONSTRUCTION	CW	S2	02	30,000	52,000	57,000	62,000	52,000	253,000	69,000	322,000	0	0	25,914	0	296,086	0	0	0	0	322,000
0	13	OUTFALL ASSESSMENT	CW	S2	02	57	0	0	0	0	57	0	57	0	0	5	0	52	0	0	0	0	57
0	14	OUTFALL ENGINEERING	CW	S2	02	5,730	5,863	3,400	2,500	3,100	20,593	4,419	25,012	0	0	2,012	0	23,000	0	0	0	0	25,012
0	15	DISINFECTION SYSTEM CONSTRUCTION	CW	S2	02	89,633	70,135	50,000	41,000	0	250,768	0	250,768	0	0	21,497	0	229,271	0	0	0	0	250,768
0	31	OUTFALL - SITE PREP	CW	S2	02	31	0	0	0	0	31	0	31	0	0	5	0	26	0	0	0	0	31
0	37	OUTFALL ASSESSMENT-CHANGE IN SCOPE	CW	S3	02	-57	0	0	0	0	-57	0	-57	0	0	-5	0	-52	0	0	0	0	-57
0	38	DISINFECTION SYSTEM CONSTRUCTION-CHANGE IN SCOPE	CW	S3	02	-54,498	-20,000	8,135	4,435	0	-61,928	0	-61,928	0	0	6,445	0	-68,373	0	0	0	0	-61,928
0	39	DISINFECTION ENGINEERING-CHANGE IN SCOPE	CW	S3	02	-3,006	1,131	1,000	1,000	0	125	0	125	0	0	568	0	-443	0	0	0	0	125
0	40	OUTFALL CONSTRUCTION-CHANGE IN SCOPE	CW	S3	02	5,000	8,500	8,000	-11,959	-6,959	2,582	-51,982	-49,400	0	0	14,421	0	-63,821	0	0	0	0	-49,400
0	41	OUTFALL ENGINEERING-CHANGE IN SCOPE	CW	S3	02	-2,604	-2,563	-500	400	1,000	-4,267	4,053	-214	0	0	1,658	0	-1,872	0	0	0	0	-214
Sub-total						75,186	116,616	128,110	99,868	49,216	468,996	25,548	494,544	0	0	73,177	0	421,367	0	0	0	0	494,544
<u>WAS907099 ASHBRIDGES BAY WWTP - LIQUID TREATMEI</u>																							
0	1	FINE BUBBLE AERATION - TANK #2	CW	S2	03	316	0	0	0	0	316	0	316	0	0	25	0	291	0	0	0	0	316

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**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Wastewater Program**

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						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAS907099 ASHBRIDGES BAY WWTP - LIQUID TREATMENT</u>																									
0	3	P BLDG HEADWORKS UPGRADE	CW	S2	03	10,627	0	0	0	0	10,627	0	10,627	0	0	1,235	0	9,392	0	0	0	0	0	10,627	
0	6	M & T PUMPING STATION CRITICAL REPAIRS	CW	S2	03	2,085	0	0	0	0	2,085	0	2,085	0	0	0	0	2,085	0	0	0	0	0	2,085	
0	10	INTEGRATED PUMPING STATION (IPS) - ENGINEERING	CW	S2	03	5,844	4,763	5,823	2,705	2,210	21,345	14,496	35,841	0	0	0	0	35,841	0	0	0	0	0	35,841	
0	39	INTEGRATED PUMPING STATION (IPS) - CONSTRUCTION	CW	S2	03	19,220	26,550	47,000	25,025	65,000	182,795	197,850	380,645	0	0	225	0	380,420	0	0	0	0	0	380,645	
0	77	FINE BUBBLE AERATION - ENGINEERING	CW	S2	03	449	0	0	0	0	449	10,500	10,949	0	0	903	0	10,046	0	0	0	0	0	10,949	
0	84	AERATION TANK 12 & 13	CW	S4	05	50	4,000	4,450	7,800	39,000	55,300	101,850	157,150	0	0	38,550	0	118,600	0	0	0	0	0	157,150	
0	89	INTEGRATED PUMPING STATION (IPS) --CHANGE IN SCOPE	CW	S3	03	979	27,350	45,465	74,275	15,000	163,069	85,650	248,719	0	0	92,898	0	155,821	0	0	0	0	0	248,719	
0	90	INTEGRATED PUMPING STATION (IPS) --CHANGE IN SCOPE	CW	S3	03	-815	870	500	0	0	555	75	630	0	0	5,471	0	-4,841	0	0	0	0	0	630	
0	91	M & T PUMPING STATION CRITICAL REP-CHANGE IN SCOPE	CW	S3	03	-1,235	1,417	0	0	0	182	0	182	0	0	0	0	182	0	0	0	0	0	182	
0	92	FINE BUBBLE AERATION - ENGINEERING-CHANGE IN SCOPE	CW	S3	03	1	74	0	0	0	75	3,000	3,075	0	0	1,173	0	1,902	0	0	0	0	0	3,075	
0	93	FINE BUBBLE AERATION - TANK #2-CHANGE IN SCOPE	CW	S3	03	-316	0	0	0	0	-316	0	-316	0	0	-25	0	-291	0	0	0	0	0	-316	
0	94	P BLDG HEADWORKS UPGRADE-CHANGE IN SCOPE	CW	S3	03	-4,992	6,727	0	0	0	1,735	0	1,735	0	0	619	0	1,116	0	0	0	0	0	1,735	
Sub-total						32,213	71,751	103,238	109,805	121,210	438,217	413,421	851,638	0	0	141,074	0	710,564	0	0	0	0	0	851,638	
<u>WAS907100 ASHBRIDGES BAY WWTP - SOLIDS &amp; GAS HA</u>																									
0	3	WASTE ACTIVATED SLUDGE UPGRADE - ENGINEERING	CW	S2	03	2,788	2,500	2,500	2,000	500	10,288	304	10,592	0	0	871	0	9,721	0	0	0	0	0	10,592	
0	4	DIGESTERS 9-12 REFURBISH	CW	S2	03	21,933	10,767	6,485	12	80	39,277	0	39,277	0	0	3,563	0	35,714	0	0	0	0	0	39,277	
0	8	BIOSOLIDS PELLETTIZER RETROFIT	CW	S2	03	422	400	400	400	0	1,622	0	1,622	0	0	0	0	1,622	0	0	0	0	0	1,622	
0	22	WASTE ACTIVATED SLUDGE UPGRADE - CONSTRUCTION	CW	S2	03	36,485	35,000	35,000	30,000	20,000	156,485	0	156,485	0	0	12,637	0	143,848	0	0	0	0	0	156,485	
0	25	PELLETIZER TRUCK LOADING FACILITY UPGRADES	CW	S2	03	968	695	820	55	55	2,593	0	2,593	0	0	0	0	2,593	0	0	0	0	0	2,593	
0	52	PRIMARY SLUDGE BUFFER TANK AND HEAT RECOVERY	CW	S4	04	50	200	1,975	3,200	350	5,775	65	5,840	0	0	0	0	5,840	0	0	0	0	0	5,840	
0	53	PELLETIZER FACILITY	CW	S4	03	800	2,000	2,000	2,500	400	7,700	97,850	105,550	0	0	0	0	105,550	0	0	0	0	0	105,550	
0	56	WASTE ACTIVATED SLUDGE UPGRADE - C-CHANGE IN SCOPE	CW	S3	03	-31,485	3,000	7,000	15,000	22,000	15,515	0	15,515	0	0	12,812	0	2,703	0	0	0	0	0	15,515	
0	57	WASTE ACTIVATED SLUDGE UPGRADE - E-CHANGE IN SCOPE	CW	S3	03	-1,288	-1,000	0	500	1,500	-288	0	-288	0	0	675	0	-963	0	0	0	0	0	-288	
0	58	DIGESTERS 9-12 REFURBISH-CHANGE IN SCOPE	CW	S3	03	-12,123	4,243	9,945	1,261	0	3,326	0	3,326	0	0	2,741	0	585	0	0	0	0	0	3,326	

**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Wastewater Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By										
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt
<b>WAS907100 ASHBRIDGES BAY WWTP - SOLIDS &amp; GAS HA</b>																						
0	59	BIOSOLIDS PELLETIZER RETROFIT-CHANGE IN SCOPE	CW	S3	03	-22	0	0	-236	0	-258	0	-258	0	0	0	0	0	0	-258		
0	60	PELLETIZER TRUCK LOADING FACILITY -CHANGE IN SCOPE	CW	S3	03	-468	348	0	0	60	-60	125	65	0	0	0	0	0	0	65		
Sub-total						18,060	58,153	66,125	54,692	44,945	241,975	98,344	340,319	0	0	33,299	0	307,020	0	0	0	340,319
<b>WAS907101 ASHBRIDGES BAY WWTP - O&amp;M UPGRADES</b>																						
0	5	BOILER #4 DESIGN	CW	S2	03	6	0	0	0	0	6	0	6	0	0	0	0	0	0	0	6	
0	6	MESI UPGRADES	CW	S2	03	2,962	3,000	0	0	0	5,962	0	5,962	0	0	0	0	0	0	0	5,962	
0	7	MISC MECH REHAB	CW	S2	03	3,184	0	0	0	0	3,184	0	3,184	0	0	0	0	0	0	0	3,184	
0	38	MISC MECH REHAB-CHANGE IN SCOPE	CW	S3	03	-1,567	1,600	0	0	0	33	0	33	0	0	0	0	0	0	0	33	
0	39	MESI UPGRADES-CHANGE IN SCOPE	CW	S3	03	0	0	3,100	3,200	3,200	9,500	0	9,500	0	0	0	0	0	0	0	9,500	
Sub-total						4,585	4,600	3,100	3,200	3,200	18,685	0	18,685	0	0	0	0	0	0	0	0	18,685
<b>WAS907102 ASHBRIDGES BAY WWTP - ODOUR CONTROL</b>																						
0	6	BIOFILTERS UPGRADE & REPLACEMENT	CW	S2	03	3,399	850	72	0	0	4,321	0	4,321	0	0	365	0	3,956	0	0	4,321	
0	13	D BUILDING TREATMENT & BIOFILTER	CW	S2	03	656	0	0	0	0	656	0	656	0	0	64	0	592	0	0	656	
0	42	D BUILDING TREATMENT & BIOFILTER-CHANGE IN SCOPE	CW	S3	03	-156	197	0	0	0	41	0	41	0	0	41	0	0	0	0	41	
0	43	BIOFILTERS UPGRADE & REPLACEMENT-CHANGE IN SCOPE	CW	S3	03	-907	700	0	0	0	-207	0	-207	0	0	253	0	-460	0	0	-207	
Sub-total						2,992	1,747	72	0	0	4,811	0	4,811	0	0	723	0	4,088	0	0	0	4,811
<b>WAS907104 HUMBER WWTP - LIQUID TREATMENT &amp; HANI</b>																						
0	2	SECONDARY TREATMENT UPGRADES - SOUTH - ENGINEERING	CW	S2	03	3,300	3,300	3,300	3,260	5,246	18,406	1,169	19,575	0	0	1,576	0	17,999	0	0	19,575	
0	19	SECONDARY TREATMENT UPGRADES - SOUTH - CONS	CW	S2	03	23,000	24,000	31,000	12,000	17,290	107,290	10,000	117,290	0	0	9,443	0	107,847	0	0	117,290	
0	28	SECONDARY TREATMENT UPGRADES - SOU-CHANGE IN SCOPE	CW	S3	03	10	90	225	0	0	325	11	336	0	0	1,413	0	-1,077	0	0	336	
0	29	SECONDARY TREATMENT UPGRADES - SOU-CHANGE IN SCOPE	CW	S3	03	0	0	-5,000	0	210	-4,790	-596	-5,386	0	0	7,114	0	-12,500	0	0	-5,386	
Sub-total						26,310	27,390	29,525	15,260	22,746	121,231	10,584	131,815	0	0	19,546	0	112,269	0	0	0	131,815
<b>WAS907105 HUMBER WWTP - O&amp;M UPGRADES</b>																						
0	1	GAS COMPRESSOR SYSTEM UPGRADES	CW	S2	03	813	0	0	0	0	813	0	813	0	0	0	0	813	0	0	813	
0	2	LIQUID STREAM UPGRADES	CW	S2	03	386	0	0	0	0	386	0	386	0	0	31	0	355	0	0	386	

**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Wastewater Program**

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By												
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<b>WAS907105 HUMBER WWTP - O&amp;M UPGRADES</b>																								
0	35	LIQUID STREAM UPGRADES-CHANGE IN SCOPE	CW	S3	03	-386	0	0	0	0	-386	0	-386	0	0	-31	0	-355	0	0	0	0	0	-386
0	36	GAS COMPRESSOR SYSTEM UPGRADES-CHANGE IN SCOPE	CW	S3	03	-418	541	0	0	0	123	0	123	0	0	0	0	123	0	0	0	0	0	123
Sub-total						395	541	0	0	0	936	0	936	0	0	0	0	936	0	0	0	0	0	936
<b>WAS907106 HUMBER WWTP - ODOUR CONTROL</b>																								
0	1	ODOUR CONTROL IMPLEMENTATION - PHASE 1	CW	S2	02	766	0	0	0	0	766	0	766	0	0	69	0	697	0	0	0	0	0	766
0	15	ODOUR CONTROL IMPLEMENTATION - PHA-CHANGE IN SCOPE	CW	S3	02	434	2,401	0	0	550	3,385	550	3,935	0	0	637	0	3,298	0	0	0	0	0	3,935
Sub-total						1,200	2,401	0	0	550	4,151	550	4,701	0	0	706	0	3,995	0	0	0	0	0	4,701
<b>WAS907224 SEWAGE PUMPING STATION UPGRADES</b>																								
0	1	SPS UPGRADES	CW	S2	02	2,212	750	0	0	0	2,962	0	2,962	0	0	292	0	2,670	0	0	0	0	0	2,962
0	4	SUNNYSIDE AND MARYPORT SPS UPGRADES	CW	S2	05	150	400	3,350	4,265	1,975	10,140	10	10,150	0	0	817	0	9,333	0	0	0	0	0	10,150
0	18	SPS UPGRADES - GROUP 6	CW	S2	02	3,891	5,250	5,356	4,390	3,598	22,485	55	22,540	0	0	1,814	0	20,726	0	0	0	0	0	22,540
0	26	SPS UPGRADES - GROUP 7	CW	S2	03	4	0	0	0	0	4	0	4	0	0	1	0	3	0	0	0	0	0	4
0	34	FACILITY & PROCESS UPGRADES	CW	S2	02	435	3,025	3,125	2,600	2,200	11,385	3,200	14,585	0	0	1,179	0	13,406	0	0	0	0	0	14,585
0	35	SCOTT ST PS & SIMCOE ST PS	CW	S2	03	400	500	500	500	0	1,900	0	1,900	0	0	0	0	1,900	0	0	0	0	0	1,900
0	39	SUNNYSIDE AND MARYPORT SPS UPGRADE-CHANGE IN SCOPE	CW	S3	05	-150	-350	-3,060	-2,020	-925	-6,505	890	-5,615	0	0	1,451	0	-7,066	0	0	0	0	0	-5,615
0	40	FACILITY & PROCESS UPGRADES-CHANGE IN SCOPE	CW	S3	02	-60	-1,950	438	3,900	6,300	8,628	2,753	11,381	0	0	2,663	0	8,718	0	0	0	0	0	11,381
0	41	SCOTT ST PS & SIMCOE ST PS-CHANGE IN SCOPE	CW	S3	03	51	53	55	56	0	215	0	215	0	0	0	0	215	0	0	0	0	0	215
0	42	SPS UPGRADES - GROUP 7-CHANGE IN SCOPE	CW	S3	03	6	0	0	0	0	6	0	6	0	0	1	0	5	0	0	0	0	0	6
0	43	SPS UPGRADES - GROUP 6-CHANGE IN SCOPE	CW	S3	02	-1,068	215	0	500	501	148	0	148	0	0	1,544	0	-1,396	0	0	0	0	0	148
0	44	SPS UPGRADES-CHANGE IN SCOPE	CW	S3	02	-1,106	-55	0	0	0	-1,161	0	-1,161	0	0	-22	0	-1,139	0	0	0	0	0	-1,161
Sub-total						4,765	7,838	9,764	14,191	13,649	50,207	6,908	57,115	0	0	9,740	0	47,375	0	0	0	0	0	57,115
<b>WAS907559 DON &amp; WATERFRONT TRUNK CSO</b>																								
0	1	DON & WATERFRONT TRUNK/CSO PKG 1 - DESIGN	CW	S2	04	10,946	6,475	6,475	6,475	615	30,986	461	31,447	0	0	2,566	0	28,881	0	0	0	0	0	31,447
0	15	DCW - PHASE 1 - ADDITIONAL SCOPE	CW	S2	04	2,850	0	0	0	0	2,850	0	2,850	0	0	229	0	2,621	0	0	0	0	0	2,850
0	17	DCW - PH1 - OFFLINE STORAGE TANK SHEPPARD/LESLIE	CW	S2	04	1,340	11,175	4,060	51	50	16,676	0	16,676	0	0	1,353	0	15,323	0	0	0	0	0	16,676





**CITY OF TORONTO**

**Gross Expenditures (\$000's)**

**Appendix 8: 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding**

**Wastewater Program**

Sub- Project No. Project Name Priority SubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments and Estimates						Current and Future Year Cash Flow Commitments and Estimates Financed By									
						2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserve Reserves	Reserve Funds	Capital from Current	Other 1	Other2
Financed By:																					
Development Charges						62,065	93,013	103,763	69,196	73,320	401,357	170,965	572,322	0	0	0	0	0	0	572,322	
Reserve Funds (Ind."XR" Ref.)						548,048	915,841	959,669	875,652	636,469	3,935,679	1,153,049	5,088,728	0	0	0	0	0	0	5,088,728	
<b>Total Program Financing</b>						<b>610,113</b>	<b>1,008,854</b>	<b>1,063,432</b>	<b>944,848</b>	<b>709,789</b>	<b>4,337,036</b>	<b>1,324,014</b>	<b>5,661,050</b>	<b>0</b>	<b>0</b>	<b>572,322</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,661,050</b>

- Status Code Description**  
 S2 S2 Prior Year (With 2019 and/or Future Year Cashflow)  
 S3 S3 Prior Year - Change of Scope 2019 and/or Future Year Cost\Cashflow)  
 S4 S4 New - Stand-Alone Project (Current Year Only)  
 S5 S5 New (On-going or Phased Projects)

- Category Code Description**  
 01 Health and Safety C01  
 02 Legislated C02  
 03 State of Good Repair C03  
 04 Service Improvement and Enhancement C04  
 05 Growth Related C05  
 06 Reserved Category 1 C06  
 07 Reserved Category 2 C07



## **Appendix 9**

### **2019 Capital Budget with Financing Detail**

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



**CITY OF TORONTO**  
**Appendix 9: 2019 Capital Budget with Financing Detail**  
**Water Program**  
**Sub-Project Summary**

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2019	Financing										
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable	
<b>0</b>	<b><u>WAT000018</u></b>	<b><u>CLARK RESIDUE MGMT. FACILITIES</u></b>													
0	24 RESIDUALS RETROFITS AND UPGRADES	01/01/2013	12/31/2019	3,102	0	0	0	0	3,102	0	0	0	0	0	0
0	31 RESIDUALS RETROFITS AND UPGRADES-CHANGE IN SC	01/01/2019	12/31/2021	-663	0	0	0	0	-663	0	0	0	0	0	0
	<b>Project Sub-total:</b>			<b>2,439</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,439</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>	<b><u>WAT000021</u></b>	<b><u>WATER EFFICIENCY PROGRAM</u></b>													
0	10 ICI INDOOR WATER AUDIT	01/01/2005	12/31/2022	300	0	0	300	0	0	0	0	0	0	0	0
0	11 PUBLIC EDUCATION & PROMOTIONS	01/01/2005	12/31/2022	75	0	0	75	0	0	0	0	0	0	0	0
0	12 ANCILLARY COSTS	01/01/2005	12/31/2022	70	0	0	70	0	0	0	0	0	0	0	0
0	97 ICI INDOOR WATER AUDIT-CHANGE IN SCOPE	01/01/2019	12/31/2023	50	0	0	50	0	0	0	0	0	0	0	0
	<b>Project Sub-total:</b>			<b>495</b>	<b>0</b>	<b>0</b>	<b>495</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>	<b><u>WAT000363</u></b>	<b><u>ENGINEERING STUDIES</u></b>													
0	2 IMPROVED TREATMENT STUDIES	01/01/2005	12/31/2019	66	0	0	0	0	46	0	0	20	0	0	0
0	18 CONTROLLED SUBSTANCES ID AND ABATEMENT	01/01/2007	12/31/2019	100	0	0	0	0	100	0	0	0	0	0	0
0	31 ENERGY EFFICIENCY IMPLEMENTATION	01/01/2008	12/31/2019	38	0	0	0	0	38	0	0	0	0	0	0
0	79 ENERGY EFFICIENCY IMPLEMENTATION-CHANGE IN SCO	01/01/2019	12/31/2020	127	0	0	0	0	127	0	0	0	0	0	0
0	80 IMPROVED TREATMENT STUDIES-CHANGE IN SCOPE	08/28/2018	12/31/2023	4	0	0	0	0	3	0	0	1	0	0	0
0	81 CONTROLLED SUBSTANCES ID AND ABATE-CHANGE IN S	01/01/2019	12/31/2021	25	0	0	0	0	25	0	0	0	0	0	0
	<b>Project Sub-total:</b>			<b>360</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>339</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>	<b><u>WAT906334</u></b>	<b><u>BUSINESS SYSTEM INFRASTRUCTURE - PW</u></b>													
0	12 PCS LEGACY ALARM IMPROVEMENT	01/01/2011	12/31/2019	20	0	0	0	0	20	0	0	0	0	0	0
0	23 RELIABILITY IMPROVEMENT PROGRAM	01/01/2013	12/31/2019	355	0	0	0	0	355	0	0	0	0	0	0
0	41 SCADA UPGRADES FOR WWT	01/01/2012	12/31/2019	3,326	0	0	0	0	3,326	0	0	0	0	0	0
0	67 SCADA UPGRADES FOR WWT - II	01/01/2012	12/31/2019	972	0	0	0	0	972	0	0	0	0	0	0
0	85 NETWORK IMPROVEMENTS	01/01/2016	12/31/2019	585	0	0	0	0	585	0	0	0	0	0	0
0	87 PCS UPGRADES 2017	01/01/2016	12/31/2020	210	0	0	0	0	210	0	0	0	0	0	0
0	88 TRUNK RADIO - EQUIPMENT	01/01/2016	12/31/2022	160	0	0	0	0	160	0	0	0	0	0	0
0	97 SCADA SOFTWARE	01/01/2016	12/31/2019	260	0	0	0	0	260	0	0	0	0	0	0
0	101 NETWORK EQUIPMENT LIFE CYCLE REPLACEMENT - 201	01/01/2018	12/31/2019	5	0	0	0	0	5	0	0	0	0	0	0
0	109 SCADA UPGRADES FOR WWT - II -CHANGE IN SCOPE	01/01/2019	12/31/2023	-123	0	0	0	0	-123	0	0	0	0	0	0
0	110 RELIABILITY IMPROVEMENT PROGRAM-CHANGE IN SCOF	01/01/2019	12/31/2022	-80	0	0	0	0	-80	0	0	0	0	0	0
0	111 NETWORK IMPROVEMENTS-CHANGE IN SCOPE	01/01/2019	12/31/2020	127	0	0	0	0	127	0	0	0	0	0	0
0	112 SCADA UPGRADES FOR WWT-CHANGE IN SCOPE	01/01/2019	12/31/2022	2,677	0	0	0	0	2,677	0	0	0	0	0	0
0	113 TECHNOLOGY IMPROVEMENTS	01/01/2019	12/31/2023	1,865	0	0	0	0	1,865	0	0	0	0	0	0
0	114 SCADA SOFTWARE-CHANGE IN SCOPE	01/01/2019	12/31/2022	-80	0	0	0	0	-80	0	0	0	0	0	0

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



**CITY OF TORONTO**  
**Appendix 9: 2019 Capital Budget with Financing Detail**  
**Water Program**  
**Sub-Project Summary**

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2019	Financing									
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>	<b><u>WAT906334 BUSINESS SYSTEM INFRASTRUCTURE - PW</u></b>													
0	116 TRUNK RADIO - EQUIPMENT-CHANGE IN SCOPE	01/01/2019	12/31/2019	-160	0	0	0	0	-160	0	0	0	0	0
0	117 PCS UPGRADES FOR WATER SUPPLY-CHANGE IN SCOPE	01/01/2019	12/31/2019	1	0	0	0	0	1	0	0	0	0	0
0	118 PCS LEGACY ALARM IMPROVEMENT -CHANGE IN SCOPE	01/01/2019	12/31/2019	30	0	0	0	0	30	0	0	0	0	0
	<b>Project Sub-total:</b>			10,150	0	0	0	0	10,150	0	0	0	0	0
<b>0</b>	<b><u>WAT906340 METERING &amp; METER READING SYS</u></b>													
0	2 AUTOMATED METER READING SYSTEM	01/01/2005	12/31/2019	578	0	0	0	0	578	0	0	0	0	0
0	20 AUTOMATED METER READING SYSTEM-CHANGE IN SCOPE	01/01/2019	12/31/2028	4,605	0	0	0	0	4,605	0	0	0	0	0
	<b>Project Sub-total:</b>			5,183	0	0	0	0	5,183	0	0	0	0	0
<b>0</b>	<b><u>WAT906468 HORGAN TRUNK MAIN EXPANSION</u></b>													
0	52 DOWNSVIEW MAIN (KEELE PS TO DOWNSVIEW) Engineeri	01/01/2018	12/31/2019	1,240	0	0	620	0	620	0	0	0	0	0
0	53 DOWNSVIEW MAIN (KEELE PS TO DOWNSV-CHANGE IN SCOPE)	01/01/2019	12/31/2026	-240	0	0	380	0	-620	0	0	0	0	0
	<b>Project Sub-total:</b>			1,000	0	0	1,000	0	0	0	0	0	0	0
<b>0</b>	<b><u>WAT906470 ISLAND W.T.P. R&amp;R</u></b>													
0	8 CHEMICAL & RESIDUALS MANAGMENT ENGINEERING	01/01/2013	12/31/2019	2,407	0	0	0	0	2,407	0	0	0	0	0
0	11 CHEMICAL & RESIDUALS MANAGEMENT CONST	01/01/2015	12/31/2019	1,530	0	0	95	0	1,435	0	0	0	0	0
0	34 CHEMICAL & RESIDUALS MANAGMENT ENG-CHANGE IN SCOPE	01/01/2019	12/31/2024	-1,517	0	0	0	0	-1,517	0	0	0	0	0
0	35 CHEMICAL & RESIDUALS MANAGEMENT CO-CHANGE IN SCOPE	01/01/2019	12/31/2023	-1,500	0	0	-91	0	-1,409	0	0	0	0	0
	<b>Project Sub-total:</b>			920	0	0	4	0	916	0	0	0	0	0
<b>0</b>	<b><u>WAT906481 DISTRICT WATERMAINS - NEW</u></b>													
0	1 NEW WATERMAIN	01/01/2005	12/31/2019	58	0	0	58	0	0	0	0	0	0	0
0	17 NEW WM -CHANGE IN SCOPE	01/01/2019	12/31/2021	-48	0	0	-48	0	0	0	0	0	0	0
	<b>Project Sub-total:</b>			10	0	0	10	0	0	0	0	0	0	0
<b>0</b>	<b><u>WAT906483 PW ENGINEERING</u></b>													
0	2 CAPITAL PROGRAMMING & FACILITY ASSET PLANNING	01/01/2005	12/31/2020	3,903	0	0	0	0	3,903	0	0	0	0	0
0	5 WATERMAIN ASSET PLANNING	01/01/2007	12/31/2019	2,839	0	0	694	0	1,021	0	0	1,124	0	0
0	7 EASEMENT ACQUISITION	01/01/2007	12/31/2019	690	0	0	0	0	690	0	0	0	0	0
0	22 WATER LOSS REDUCTION STRATEGY	01/01/2012	12/31/2023	889	0	0	0	0	889	0	0	0	0	0
0	37 ASSET MGMT SYSTEM IMPLEMENTATION	01/01/2016	12/31/2019	1,550	0	0	388	0	1,162	0	0	0	0	0
0	52 JOS UPDATE PHASE II	01/01/2015	12/31/2019	657	0	0	329	0	-1	0	0	329	0	0
0	76 WATERMAIN ASSET PLANNING-CHANGE IN SCOPE	01/01/2019	12/31/2026	-1,831	0	0	-542	0	-564	0	0	-725	0	0
0	77 CAPITAL PROGRAMMING & FACILITY ASS-CHANGE IN SCOPE	01/01/2019	12/31/2023	-2,585	0	0	0	0	-2,585	0	0	0	0	0
0	78 JOS UPDATE PHASE II-CHANGE IN SCOPE	01/01/2019	12/31/2020	-301	0	0	-151	0	1	0	0	-151	0	0
0	79 ASSET MGMT SYSTEM IMPLEMENTATION-CHANGE IN SCOPE	01/01/2019	12/31/2019	-1,300	0	0	-325	0	-975	0	0	0	0	0

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



**CITY OF TORONTO**  
**Appendix 9: 2019 Capital Budget with Financing Detail**  
**Water Program**  
**Sub-Project Summary**

Project/Financing				2019	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>		<b><u>WAT906483</u></b>		<b><u>PW ENGINEERING</u></b>											
0	80	WATER LOSS REDUCTION STRATEGY-CHANGE IN SCOPE	01/01/2019	12/31/2021	-338	0	0	0	0	-338	0	0	0	0	0
0	81	EASEMENT ACQUISITION-CHANGE IN SCOPE	01/01/2019	12/31/2021	114	0	0	0	0	114	0	0	0	0	0
<b>Project Sub-total:</b>					<b>4,287</b>	<b>0</b>	<b>0</b>	<b>393</b>	<b>0</b>	<b>3,317</b>	<b>0</b>	<b>0</b>	<b>577</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAT906752</u></b>		<b><u>TRANSMISSION R&amp;R</u></b>											
0	49	TRUNK WATERMAIN REHAB	01/01/2013	12/31/2022	260	0	0	0	0	260	0	0	0	0	0
0	51	CAST IRON TRUNK REPLC - PHASE 2	01/01/2013	12/31/2019	512	0	0	0	0	512	0	0	0	0	0
0	52	CAST IRON TRUNK REPLC - PHASE 3 - ENGINEERING	01/01/2014	12/31/2020	1,051	0	0	0	0	1,051	0	0	0	0	0
0	58	CAST IRON TRUNK REPLC - PHASE 3 - CONSTRUCTION	01/01/2016	12/31/2019	1,500	0	0	0	0	1,500	0	0	0	0	0
0	82	CAST IRON TRUNK REPLC - PHASE 3 - -CHANGE IN SCOPE	01/01/2019	12/31/2020	-325	0	0	0	0	-325	0	0	0	0	0
0	83	TRUNK WATERMAIN REHAB-CHANGE IN SCOPE	01/01/2019	12/31/2028	150	0	0	0	0	150	0	0	0	0	0
0	84	CAST IRON TRUNK REPLC - PHASE 2-CHANGE IN SCOPE	01/01/2019	12/31/2021	-48	0	0	0	0	-48	0	0	0	0	0
0	85	CAST IRON TRUNK REPLC - PHASE 3 - -CHANGE IN SCOPE	01/01/2019	12/31/2020	-990	0	0	0	0	-990	0	0	0	0	0
<b>Project Sub-total:</b>					<b>2,110</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,110</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAT906900</u></b>		<b><u>TRANSMISSION R&amp;R</u></b>											
0	1	TRANS FACILITIES REHAB	01/01/2006	12/31/2022	750	0	0	0	0	750	0	0	0	0	0
0	36	ST CLAIR RESERVOIR REHAB/WATER QUALITY PROTECT	01/01/2014	12/31/2021	6,949	0	0	0	0	6,949	0	0	0	0	0
0	44	PUMPING STATION REHAB - Engineering	01/01/2019	12/31/2028	100	0	0	0	0	100	0	0	0	0	0
0	48	ROSEHILL RESERVOIR	01/01/2015	12/31/2023	12,525	0	0	0	0	12,525	0	0	0	0	0
0	49	DOWNSVIEW PS & CONNECTOR EA	01/01/2015	12/31/2019	142	0	0	55	0	87	0	0	0	0	0
0	50	PARKDALE PS REHABILITATION	01/01/2015	12/31/2019	2,722	0	0	0	0	2,722	0	0	0	0	0
0	51	ROSEHILL PS REHAB	01/01/2015	12/31/2019	2,722	0	0	0	0	2,722	0	0	0	0	0
0	67	PUMP REPLACEMENTS	01/01/2016	12/31/2019	1,050	0	0	0	0	1,050	0	0	0	0	0
0	72	RESERVOIR REHAB - PHASE 2 - ENG	01/01/2016	12/31/2023	500	0	0	0	0	500	0	0	0	0	0
0	74	PS REHAB - PHASE 2 - ENG	01/01/2016	12/31/2019	1,528	0	0	0	0	1,528	0	0	0	0	0
0	91	SCARBOROUGH RESERVOIR SURGE TANK	01/01/2019	12/31/2025	125	0	0	0	0	125	0	0	0	0	0
0	94	PS REHAB - PHASE 2 - CONSTRUCTION	01/01/2018	12/31/2019	4,040	0	0	0	0	4,040	0	0	0	0	0
0	96	DOWNSVIEW PS & CONNECTOR EA-CHANGE IN SCOPE	01/01/2019	12/31/2020	-140	0	0	-53	0	-87	0	0	0	0	0
0	97	TRANS FACILITIES REHAB-CHANGE IN SCOPE	01/01/2019	12/31/2024	450	0	0	0	0	450	0	0	0	0	0
0	98	ST CLAIR RESERVOIR REHAB/WATER QUA-CHANGE IN S	01/01/2019	12/31/2022	-1,649	0	0	0	0	-1,649	0	0	0	0	0
0	99	PARKDALE PS REHABILITATION-CHANGE IN SCOPE	01/01/2019	12/31/2020	-277	0	0	0	0	-277	0	0	0	0	0
0	100	ROSEHILL RESERVOIR-CHANGE IN SCOPE	01/01/2019	12/31/2022	-3,728	0	0	0	0	-3,728	0	0	0	0	0
0	103	ROSEHILL PS REHAB-CHANGE IN SCOPE	01/01/2019	12/31/2021	-1,258	0	0	0	0	-1,258	0	0	0	0	0
0	104	RESERVOIR REHAB - PHASE 2 - ENG-CHANGE IN SCOPE	01/01/2019	12/31/2024	-150	0	0	0	0	-150	0	0	0	0	0
0	105	PS REHAB - PHASE 2 - ENG-CHANGE IN SCOPE	01/01/2019	12/31/2023	-728	0	0	0	0	-728	0	0	0	0	0

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



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**Water Program**  
**Sub-Project Summary**

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2019	Financing									
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>	<b><u>WAT906900 TRANSMISSION R&amp;R</u></b>													
0	106 PS REHAB - PHASE 2 - CONSTRUCTION-CHANGE IN SCOPE	01/01/2019	12/31/2022	-3,240	0	0	0	0	-3,240	0	0	0	0	0
0	107 PUMP REPLACEMENTS-CHANGE IN SCOPE	01/01/2019	12/31/2020	-150	0	0	0	0	-150	0	0	0	0	0
	<b>Project Sub-total:</b>			<b>22,283</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>22,281</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>	<b><u>WAT906902 HARRIS W.T.P. R&amp;R</u></b>													
0	3 FACILITY & PROCESS UPGRADES	01/01/2006	12/31/2022	500	0	0	0	0	500	0	0	0	0	0
0	21 HVAC REHAB CONSTRUCTION	01/01/2010	12/31/2019	5,492	0	0	0	0	5,492	0	0	0	0	0
0	29 HARRIS FILTERS REHABILITATION - PILOT	01/01/2015	12/31/2019	6,250	0	0	0	0	6,250	0	0	0	0	0
0	56 REHAB OF SETTLING BASIN ROOF & SLUICE GATES	01/01/2014	12/31/2021	510	0	0	0	0	510	0	0	0	0	0
0	80 FACILITY INFRASTRUCTURE REHAB	01/01/2019	12/31/2020	900	0	0	0	0	900	0	0	0	0	0
0	81 LIQUID CHEMICAL SYSTEM IMPROVEMENTS	01/01/2015	12/31/2019	3,282	0	0	0	0	3,282	0	0	0	0	0
0	98 HERITAGE MASONRY AND ARCHITECTURAL RESTORATION	01/01/2016	12/31/2022	200	0	0	0	0	200	0	0	0	0	0
0	99 CONTROL ROOM RELOCATION	01/01/2016	12/31/2019	1,345	0	0	0	0	1,345	0	0	0	0	0
0	100 EMERGENCY STANDBY POWER	01/01/2016	12/31/2019	2,339	0	0	0	0	2,339	0	0	0	0	0
0	106 BUILDING ENVELOPE REHAB	01/01/2016	12/31/2019	136	0	0	0	0	136	0	0	0	0	0
0	119 ENERGY OPTIMIZATION	01/01/2018	12/31/2019	1,170	0	0	0	0	1,170	0	0	0	0	0
0	132 EMERGENCY STANDBY POWER-CHANGE IN SCOPE	01/01/2019	12/31/2021	-1,725	0	0	0	0	-1,725	0	0	0	0	0
0	133 CONTROL ROOM RELOCATION-CHANGE IN SCOPE	01/01/2019	12/31/2021	-726	0	0	0	0	-726	0	0	0	0	0
0	134 BUILDING ENVELOPE REHAB-CHANGE IN SCOPE	01/01/2019	12/31/2019	-136	0	0	0	0	-136	0	0	0	0	0
0	135 HARRIS FILTERS REHABILITATION - PI-CHANGE IN SCOPE	01/01/2019	12/31/2023	-5,200	0	0	0	0	-5,200	0	0	0	0	0
0	136 LIQUID CHEMICAL SYSTEM IMPROVEMENT-CHANGE IN SCOPE	01/01/2019	12/31/2020	-2,856	0	0	0	0	-2,856	0	0	0	0	0
0	137 FACILITY & PROCESS UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2022	139	0	0	0	0	139	0	0	0	0	0
0	138 HVAC REHAB CONSTRUCTION-CHANGE IN SCOPE	01/01/2019	12/31/2022	-4,854	0	0	0	0	-4,854	0	0	0	0	0
0	139 REHAB OF SETTLING BASIN ROOF & SLU-CHANGE IN SCOPE	01/01/2019	12/31/2020	-339	0	0	0	0	-339	0	0	0	0	0
0	143 ENERGY OPTIMIZATION-CHANGE IN SCOPE	01/01/2019	12/31/2021	-890	0	0	0	0	-890	0	0	0	0	0
	<b>Project Sub-total:</b>			<b>5,537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>	<b><u>WAT906903 FJ HORGAN W.T.P. R&amp;R</u></b>													
0	5 FACILITY & PROCESS UPGRADES	01/01/2006	12/31/2022	1,174	0	0	0	0	1,174	0	0	0	0	0
0	8 RAW WATER PUMP UPGRADES	01/01/2016	12/31/2019	321	0	0	0	0	321	0	0	0	0	0
0	15 REPLACEMENT OF MCCS	01/01/2013	12/31/2019	533	0	0	0	0	533	0	0	0	0	0
0	31 BUILDING FIRE, HVAC, LIGHTING UPGRADES	01/01/2016	12/31/2019	1,455	0	0	0	0	1,455	0	0	0	0	0
0	32 ELEC GROUNDING SYSTEM & BULK CHEM UNLOADING	01/01/2015	12/31/2019	679	0	0	0	0	679	0	0	0	0	0
0	34 TREATED WATER PUMP UPGRADES	01/01/2015	12/31/2019	203	0	0	0	0	203	0	0	0	0	0
0	65 TREATED WATER PUMP UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2019	-86	0	0	0	0	-86	0	0	0	0	0
0	66 FACILITY & PROCESS UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2023	-1,011	0	0	0	0	-1,011	0	0	0	0	0

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Project/Financing Priority Project	Project Name	Start Date	Completion Date	2019	Financing									
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>	<b><u>WAT906903 FJ HORGAN W.T.P. R&amp;R</u></b>													
0	67 ELEC GROUNDING SYSTEM & BULK CHEM-CHANGE IN S	01/01/2019	12/31/2024	-504	0	0	0	0	-504	0	0	0	0	0
0	68 BUILDING FIRE, HVAC, LIGHTING UPGR-CHANGE IN SCOF	01/01/2019	12/31/2024	-1,305	0	0	0	0	-1,305	0	0	0	0	0
0	69 REPLACEMENT OF MCCS-CHANGE IN SCOPE	01/01/2019	12/31/2022	-233	0	0	0	0	-233	0	0	0	0	0
0	70 RAW WATER PUMP UGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2022	-200	0	0	0	0	-200	0	0	0	0	0
	<b>Project Sub-total:</b>			1,026	0	0	0	0	1,026	0	0	0	0	0
<b>0</b>	<b><u>WAT906906 TRUNK WATERMAIN EXPANSION</u></b>													
0	25 JOS WM SCAR PS TO ST CLAIR AND MIDLAND - ENG	01/01/2009	12/31/2019	801	0	0	376	0	243	0	0	182	0	0
0	66 JOS - WM Scar PS to St. Clair&Midland (CONST)	01/01/2016	12/31/2019	21,393	0	0	10,064	0	6,468	0	0	4,861	0	0
0	72 JOS WM SCAR PS TO ST CLAIR AND MID-CHANGE IN SCC	01/01/2019	12/31/2022	-276	0	0	-165	0	-48	0	0	-63	0	0
0	73 JOS - WM Scar PS to St. Clair&Midl-CHANGE IN SCOPE	01/01/2019	12/31/2021	-13,393	0	0	-6,849	0	-3,501	0	0	-3,043	0	0
	<b>Project Sub-total:</b>			8,525	0	0	3,426	0	3,162	0	0	1,937	0	0
<b>0</b>	<b><u>WAT906914 SWITCH GEAR TRANSFORMER</u></b>													
0	13 INDOOR/OUTDOOR SWITCHGEAR (PHASE 3)	01/01/2012	12/31/2019	1,169	0	0	0	0	1,169	0	0	0	0	0
0	29 INDOOR/OUTDOOR SWITCHGEAR (PHASE 4)	01/01/2018	12/31/2019	1,104	0	0	0	0	1,104	0	0	0	0	0
0	32 INDOOR/OUTDOOR SWITCHGEAR (PHASE 3-CHANGE IN S	01/01/2019	12/31/2020	-1,109	0	0	0	0	-1,109	0	0	0	0	0
0	33 INDOOR/OUTDOOR SWITCHGEAR (PHASE 4-CHANGE IN S	01/01/2019	12/31/2024	-704	0	0	0	0	-704	0	0	0	0	0
	<b>Project Sub-total:</b>			460	0	0	0	0	460	0	0	0	0	0
<b>0</b>	<b><u>WAT906918 WATER SUSTAINABILITY PROGRAM</u></b>													
0	1 WATER SUSTAINABILITY PROGRAM	01/01/2013	12/31/2019	7,836	0	0	534	0	4,944	0	0	2,358	0	0
0	12 STANDBY POWER - ROSEHILL	01/01/2015	12/31/2019	6,036	0	0	410	0	3,815	0	0	1,811	0	0
0	23 WATER SUSTAINABILITY PROGRAM-CHANGE IN SCOPE	01/01/2019	12/31/2023	-6,486	0	0	-394	0	-4,140	0	0	-1,952	0	0
0	24 STANDBY POWER - ROSEHILL-CHANGE IN SCOPE	01/01/2019	12/31/2021	-2,883	0	0	-83	0	-1,935	0	0	-865	0	0
	<b>Project Sub-total:</b>			4,503	0	0	467	0	2,684	0	0	1,352	0	0
<b>0</b>	<b><u>WAT906919 RL CLARK W.T.P. R&amp;R</u></b>													
0	1 FACILITY & PROCESS UPGRADES	01/01/2006	12/31/2022	200	0	0	0	0	200	0	0	0	0	0
0	8 PROCESS EQUIPMENT UPGRADE ENGINEERING	01/01/2008	12/31/2022	69	0	0	4	0	65	0	0	0	0	0
0	15 PROCESS EQUIPMENT UPGRADE CONSTRUCTION	01/01/2010	12/31/2020	7,721	0	0	469	0	7,252	0	0	0	0	0
0	44 EVACUATION AND COMMUNICATION SYSTEMS	01/01/2013	12/31/2019	112	0	0	0	0	112	0	0	0	0	0
0	76 PROCESS EQUIPMENT UPGRADE CONSTRUC-CHANGE IN	01/01/2019	12/31/2020	-693	0	0	571	0	-1,264	0	0	0	0	0
0	77 PROCESS EQUIPMENT UPGRADE ENGINEER-CHANGE IN	01/01/2019	12/31/2022	602	0	0	95	0	507	0	0	0	0	0
0	78 FACILITY & PROCESS UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2022	51	0	0	0	0	51	0	0	0	0	0
0	79 EVACUATION AND COMMUNICATION SYSTE-CHANGE IN S	01/01/2019	12/31/2019	-112	0	0	0	0	-112	0	0	0	0	0
	<b>Project Sub-total:</b>			7,950	0	0	1,139	0	6,811	0	0	0	0	0

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



**CITY OF TORONTO**  
**Appendix 9: 2019 Capital Budget with Financing Detail**  
**Water Program**  
**Sub-Project Summary**

Project/Financing		Financing													
Priority	Project	Project Name	Start Date	Completion Date	2019 Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>	<b>WAT906930</b>	<b>DIST W/M REPLACEMENT</b>													
0	21	2011 WM REPLC	01/01/2011	12/31/2019	3	0	0	0	0	3	0	0	0	0	0
0	29	DIST W/M REPLC - 2012	01/01/2011	12/31/2019	147	0	0	0	0	147	0	0	0	0	0
0	51	DIST W/M REPLACEMENT - 2014	01/01/2014	12/31/2019	365	0	0	57	0	308	0	0	0	0	0
0	55	WATERMAIN REPLACEMENT - METROLINX	01/01/2014	12/31/2021	1,090	0	0	0	0	1,090	0	0	0	0	0
0	59	2013 WM REPLC - UPGRADES	01/01/2015	12/31/2019	101	0	0	31	0	70	0	0	0	0	0
0	63	DIST W/M REPLACEMENT - 2015	01/01/2015	12/31/2019	2,317	0	0	344	0	1,973	0	0	0	0	0
0	64	WATERMAIN UPGRADES - 2015	01/01/2015	12/31/2019	390	0	0	124	0	266	0	0	0	0	0
0	73	DIST W/M REPLACEMENT - 2016	01/01/2016	12/31/2019	8,933	0	0	1,371	0	7,562	0	0	0	0	0
0	74	WATERMAIN UPGRADES - 2016	01/01/2016	12/31/2019	2,706	0	0	857	0	1,849	0	0	0	0	0
0	83	DIST W/M REPLACEMENT - 2017	01/01/2016	12/31/2019	8,289	0	0	1,228	0	7,061	0	0	0	0	0
0	84	WATERMAIN UPGRADES - 2017	01/01/2016	12/31/2019	1,188	0	0	376	0	812	0	0	0	0	0
0	85	DIST W/M REPLACEMENT - 2018	01/01/2018	12/31/2019	52,339	0	0	7,302	0	45,037	0	0	0	0	0
0	86	WATERMAIN UPGRADES - 2018	01/01/2018	12/31/2019	14,303	0	0	4,880	0	9,423	0	0	0	0	0
0	110	DIST W/M REPLACEMENT - 2019	01/01/2019	12/31/2022	55,201	0	0	8,584	0	46,617	0	0	0	0	0
0	111	WATERMAIN UPGRADES - 2019	01/01/2019	12/31/2022	24,014	0	0	7,471	0	16,543	0	0	0	0	0
0	112	DIST W/M REPLACEMENT - 2014-CHANGE IN SCOPE	01/01/2019	12/31/2020	-350	0	0	-56	0	-294	0	0	0	0	0
0	113	DIST W/M REPLACEMENT - 2015-CHANGE IN SCOPE	01/01/2019	12/31/2020	-2,100	0	0	-327	0	-1,773	0	0	0	0	0
0	114	DIST W/M REPLACEMENT - 2017-CHANGE IN SCOPE	01/01/2019	12/31/2020	-7,519	0	0	-1,169	0	-6,350	0	0	0	0	0
0	115	DIST W/M REPLACEMENT - 2018-CHANGE IN SCOPE	01/01/2019	12/31/2022	-22,804	0	0	-5,032	0	-17,772	0	0	0	0	0
0	116	DIST W/M REPLACEMENT - 2019-CHANGE IN SCOPE	01/01/2019	12/31/2023	-20,817	0	0	-5,942	0	-14,875	0	0	0	0	0
0	117	WATERMAIN UPGRADES - 2015-CHANGE IN SCOPE	01/01/2019	12/31/2020	-320	0	0	-89	0	-231	0	0	0	0	0
0	118	WATERMAIN UPGRADES - 2016-CHANGE IN SCOPE	01/01/2019	12/31/2020	-2,601	0	0	-804	0	-1,797	0	0	0	0	0
0	119	WATERMAIN UPGRADES - 2017-CHANGE IN SCOPE	01/01/2019	12/31/2020	-1,156	0	0	-360	0	-796	0	0	0	0	0
0	120	DIST W/M REPLACEMENT - 2016-CHANGE IN SCOPE	01/01/2019	12/31/2020	-8,536	0	0	-1,340	0	-7,196	0	0	0	0	0
0	121	WATERMAIN UPGRADES - 2018-CHANGE IN SCOPE	01/01/2019	12/31/2020	-5,262	0	0	-359	0	-4,903	0	0	0	0	0
0	122	WATERMAIN UPGRADES - 2019-CHANGE IN SCOPE	01/01/2019	12/31/2023	-7,793	0	0	640	0	-8,433	0	0	0	0	0
0	123	2013 WM REPLC - UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2019	-101	0	0	-31	0	-70	0	0	0	0	0
0	124	DIST W/M REPLC - 2012-CHANGE IN SCOPE	01/01/2019	12/31/2019	-10	0	0	0	0	-10	0	0	0	0	0
0	127	WATERMAIN REPLACEMENT - METROLINX-CHANGE IN SCOPE	01/01/2019	12/31/2022	-400	0	0	0	0	-400	0	0	0	0	0
0	130	2011 WM REPLC-CHANGE IN SCOPE	11/08/2018	12/31/2019	1	0	0	0	0	1	0	0	0	0	0
		<b>Project Sub-total:</b>			91,618	0	0	17,756	0	73,862	0	0	0	0	0
<b>0</b>	<b>WAT906932</b>	<b>DIST W/M REHABILITATION</b>													
0	4	HYDRANT & VALVE REPAIR	01/01/2007	12/31/2019	1,568	0	0	0	0	1,568	0	0	0	0	0
0	6	WATERMAIN STRUCTURAL LINING	01/01/2007	12/31/2019	68,624	0	0	0	0	68,624	0	0	0	0	0

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



**CITY OF TORONTO**  
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**Water Program**  
**Sub-Project Summary**

Project/Financing		2019		Financing											
				Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt
Priority	Project	Project Name													
<b>0</b>	<b>WAT906932</b>	<b>DIST W/M REHABILITATION</b>													
0		7 CATHODIC PROTECTION	01/01/2007	12/31/2019	7,162	0	0	0	0	7,162	0	0	0	0	0
0		30 CUT REPAIR	01/01/2007	12/31/2019	3,549	0	0	0	0	3,549	0	0	0	0	0
0		59 PRV INSPECTION & RENEWAL	01/01/2018	12/31/2020	1,600	0	0	0	0	1,600	0	0	0	0	0
0		60 INFRASTRUCTURE REHAB & UPGRADES - METROLINX	01/01/2018	12/31/2021	75	0	0	0	0	75	0	0	0	0	0
0		61 WATERMAIN STRUCTURAL LINING-CHANGE IN SCOPE	01/01/2019	12/31/2021	-20,106	0	0	0	0	-20,106	0	0	0	0	0
0		62 PRV INSPECTION & RENEWAL-CHANGE IN SCOPE	01/01/2019	12/31/2020	-1,110	0	0	0	0	-1,110	0	0	0	0	0
0		63 HYDRANT & VALVE REPAIR-CHANGE IN SCOPE	01/01/2019	12/31/2020	-368	0	0	0	0	-368	0	0	0	0	0
0		64 CUT REPAIR-CHANGE IN SCOPE	01/01/2019	12/31/2022	-1,455	0	0	0	0	-1,455	0	0	0	0	0
0		65 CATHODIC PROTECTION-CHANGE IN SCOPE	01/01/2019	12/31/2022	-3,520	0	0	0	0	-3,520	0	0	0	0	0
		<b>Project Sub-total:</b>			<b>56,019</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>56,019</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>	<b>WAT906934</b>	<b>DIST WATER SERVICE REPAIR</b>													
0		12 WATER SERVICE REPAIR - LEAD PROGRAM	01/01/2008	12/31/2019	12,606	0	0	0	0	12,606	0	0	0	0	0
0		32 WSR CUT REPAIR	01/01/2012	12/31/2019	1,613	0	0	0	0	1,613	0	0	0	0	0
0		39 2012 WATER SERVICE REPLC - SOGR	01/01/2012	12/31/2019	60	0	0	0	0	60	0	0	0	0	0
0		41 2013 WATER SERVICE REPAIR	01/01/2013	12/31/2019	140	0	0	0	0	140	0	0	0	0	0
0		52 2014 WATER SERVICE REPLACEMENT - SOGR	01/01/2014	12/31/2019	148	0	0	0	0	148	0	0	0	0	0
0		59 2015 WATER SERVICE REPLACEMENT - SOGR	01/01/2015	12/31/2019	865	0	0	0	0	865	0	0	0	0	0
0		68 2016 WATER SERVICE REPLACEMENT - SOGR	01/01/2016	12/31/2019	3,992	0	0	0	0	3,992	0	0	0	0	0
0		71 WATER SERVICE REPAIR - WM REHAB PROGRAM	01/01/2016	12/31/2019	19,035	0	0	0	0	19,035	0	0	0	0	0
0		74 REPLACEMENT OF FROZEN SERVICES	01/01/2016	12/31/2019	240	0	0	0	0	240	0	0	0	0	0
0		75 WSR CUT REPAIRS WITH WM SL	01/01/2016	12/31/2019	1,613	0	0	0	0	1,613	0	0	0	0	0
0		78 2011 WATER SERVICE REPAIR	01/01/2016	12/31/2019	12	0	0	0	0	12	0	0	0	0	0
0		84 2017 WATER SERVICE REPLACEMENT - SOGR	01/01/2016	12/31/2019	6,374	0	0	0	0	6,374	0	0	0	0	0
0		85 2018 WATER SERVICE REPLACEMENT - SOGR	01/01/2018	12/31/2020	10,000	0	0	0	0	10,000	0	0	0	0	0
0		108 2019 WATER SERVICE REPLACEMENT - SOGR	01/01/2019	12/31/2021	10,000	0	0	0	0	10,000	0	0	0	0	0
0		109 2015 WATER SERVICE REPLACEMENT - S-CHANGE IN SC	01/01/2019	12/31/2020	-733	0	0	0	0	-733	0	0	0	0	0
0		110 2016 WATER SERVICE REPLACEMENT - S-CHANGE IN SC	01/01/2019	12/31/2020	-3,424	0	0	0	0	-3,424	0	0	0	0	0
0		111 2017 WATER SERVICE REPLACEMENT - S-CHANGE IN SC	01/01/2019	12/31/2020	-5,472	0	0	0	0	-5,472	0	0	0	0	0
0		112 2018 WATER SERVICE REPLACEMENT - S-CHANGE IN SC	01/01/2019	12/31/2021	-5,449	0	0	0	0	-5,449	0	0	0	0	0
0		113 2019 WATER SERVICE REPLACEMENT - S-CHANGE IN SC	01/01/2019	12/31/2021	-5,000	0	0	0	0	-5,000	0	0	0	0	0
0		114 WATER SERVICE REPAIR - LEAD PROGRA-CHANGE IN SC	01/01/2019	12/31/2022	-4,410	0	0	0	0	-4,410	0	0	0	0	0
0		115 2012 WATER SERVICE REPLC - SOGR-CHANGE IN SCOPE	01/01/2019	12/31/2019	-60	0	0	0	0	-60	0	0	0	0	0
0		116 WSR CUT REPAIR-CHANGE IN SCOPE	01/01/2019	12/31/2022	3,502	0	0	0	0	3,502	0	0	0	0	0
0		117 2013 WSR-CHANGE IN SCOPE	01/01/2019	12/31/2019	-133	0	0	0	0	-133	0	0	0	0	0



(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



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Project/Financing Priority Project	Project Name	Start Date	Completion Date	2019	Financing											
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable		
<b>0</b>	<b><u>WAT906934</u></b>															
	<b>DIST WATER SERVICE REPAIR</b>															
0	118 WATER SERVICE REPAIR - WM REHAB PR-CHANGE IN SC	01/01/2019	12/31/2022	-13,150	0	0	0	0	-13,150	0	0	0	0	0	0	0
0	119 2014 WATER SERVICE REPLACEMENT - S-CHANGE IN SC	01/01/2019	12/31/2020	-118	0	0	0	0	-118	0	0	0	0	0	0	0
0	121 WSR CUT REPAIRS WITH WM SL-CHANGE IN SCOPE	01/01/2019	12/31/2022	-893	0	0	0	0	-893	0	0	0	0	0	0	0
0	122 REPLACEMENT OF FROZEN SERVICES-CHANGE IN SCOP	01/01/2019	12/31/2019	-240	0	0	0	0	-240	0	0	0	0	0	0	0
0	123 2011 WSR-CHANGE IN SCOPE	11/08/2018	12/31/2019	3	0	0	0	0	3	0	0	0	0	0	0	0
	<b>Project Sub-total:</b>			31,121	0	0	0	0	31,121	0	0	0	0	0	0	0
<b>0</b>	<b><u>WAT906935</u></b>															
	<b>NEW SERVICE CONNECTIONS</b>															
0	2 NEW SERVICE CONNECTIONS - CUT REPAIRS	01/01/2008	12/31/2019	5,377	0	0	0	0	5,377	0	0	0	0	0	0	0
0	7 NEW SERVICE CONNECTIONS - SITE SERVICING	01/01/2010	12/31/2019	6,946	0	0	0	0	6,946	0	0	0	0	0	0	0
0	26 NEW SERVICE CONNECTIONS - SITE SER-CHANGE IN SC	01/01/2019	12/31/2021	24,213	0	0	0	0	24,213	0	0	0	0	0	0	0
0	27 NEW SERVICE CONNECTIONS - CUT REPA-CHANGE IN SC	01/01/2019	12/31/2022	5,300	0	0	0	0	5,300	0	0	0	0	0	0	0
	<b>Project Sub-total:</b>			41,836	0	0	0	0	41,836	0	0	0	0	0	0	0
<b>0</b>	<b><u>WAT906951</u></b>															
	<b>ENGINEERING</b>															
0	2 CONSULTING FEES	01/01/2006	12/31/2019	21,842	0	0	0	0	21,842	0	0	0	0	0	0	0
0	63 ROAD RESTORATION	01/01/2006	12/31/2020	2,621	0	0	0	0	2,621	0	0	0	0	0	0	0
0	78 ECS SALARIES-CHANGE IN SCOPE	01/01/2019	12/31/2019	14,491	0	0	0	0	14,491	0	0	0	0	0	0	0
0	79 TW SALARIES-CHANGE IN SCOPE	01/01/2019	12/31/2019	2,148	0	0	0	0	2,148	0	0	0	0	0	0	0
0	80 LEGAL SERVICES SALARIES-CHANGE IN SCOPE	01/01/2019	12/31/2019	225	0	0	0	0	225	0	0	0	0	0	0	0
0	81 ROAD RESTORATION-CHANGE IN SCOPE	01/01/2019	12/31/2022	-1,473	0	0	0	0	-1,473	0	0	0	0	0	0	0
0	82 CONSULTING FEES-CHANGE IN SCOPE	01/01/2019	12/31/2026	-8,002	0	0	0	0	-8,002	0	0	0	0	0	0	0
0	83 PPFA SALARIES-CHANGE IN SCOPE	01/01/2019	12/31/2019	2,935	0	0	0	0	2,935	0	0	0	0	0	0	0
0	84 PMMD SALARIES-CHANGE IN SCOPE	01/01/2019	12/31/2019	311	0	0	0	0	311	0	0	0	0	0	0	0
	<b>Project Sub-total:</b>			35,098	0	0	0	0	35,098	0	0	0	0	0	0	0
<b>0</b>	<b><u>WAT906977</u></b>															
	<b>ISLAND W.T.P. R&amp;R</b>															
0	1 FACILITY & PROCESS UPGRADES	01/01/2006	12/31/2022	375	0	0	0	0	375	0	0	0	0	0	0	0
0	12 FACILITY UPGRADE - FORMER MARINE YARD	01/01/2011	12/31/2019	2,164	0	0	0	0	2,164	0	0	0	0	0	0	0
0	32 TRAVELLING SCREEN REPLACEMENT	01/01/2015	12/31/2019	440	0	0	0	0	440	0	0	0	0	0	0	0
0	50 AMMONIA AND FLUORIDE SYSTEM UPGRADES	01/01/2014	12/31/2019	7,948	0	0	0	0	7,948	0	0	0	0	0	0	0
0	51 CHEMICAL SYSTEMS` ELECTRICAL FEED DISTRIBUTION	01/01/2014	12/31/2019	1	0	0	0	0	1	0	0	0	0	0	0	0
0	54 FILTER MEDIA REPLC - FUTURE	01/01/2019	12/31/2028	300	0	0	0	0	300	0	0	0	0	0	0	0
0	70 PLANTWIDE HVAC UPGRADES	01/01/2015	12/31/2019	2,220	0	0	0	0	2,220	0	0	0	0	0	0	0
0	83 RAW WATER INTAKE CLEANING	01/01/2016	12/31/2019	1,225	0	0	0	0	1,225	0	0	0	0	0	0	0
0	110 AMMONIA AND FLUORIDE SYSTEM UPGRAD-CHANGE IN SC	01/01/2019	12/31/2022	-7,122	0	0	0	0	-7,122	0	0	0	0	0	0	0



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				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>	<b><u>WAT906977 ISLAND W.T.P. R&amp;R</u></b>													
0	111 TRAVELLING SCREEN REPLACEMENT-CHANGE IN SCOPE	01/01/2019	12/31/2023	-10	0	0	0	0	-10	0	0	0	0	0
0	112 FACILITY & PROCESS UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2022	195	0	0	0	0	195	0	0	0	0	0
0	117 ISLAND PHOTOVOLTAIC SYSTEM	01/01/2019	12/31/2022	100	0	0	0	0	100	0	0	0	0	0
0	118 FIS - JSPPS CROSS HARBOUR TUNNEL REHABILITATION	08/27/2018	12/31/2020	500	0	0	0	0	500	0	0	0	0	0
0	119 FACILITY UPGRADE - FORMER MARINE Y-CHANGE IN SCC	01/01/2019	12/31/2020	-827	0	0	0	0	-827	0	0	0	0	0
0	121 PLANTWIDE HVAC UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2022	-1,644	0	0	0	0	-1,644	0	0	0	0	0
	<b>Project Sub-total:</b>			5,865	0	0	0	0	5,865	0	0	0	0	0
<b>0</b>	<b><u>WAT907353 LAWRENCE ALLAN REVITALIZATION PLAN</u></b>													
0	1 LAWRENCE ALLAN REVITALIZATION PLAN - INTERNAL	01/01/2013	12/31/2022	11,668	0	0	11,668	0	0	0	0	0	0	0
0	2 LAWRENCE ALLAN REVITALIZATION PLAN - EXTERNAL	01/01/2013	12/31/2021	250	0	0	250	0	0	0	0	0	0	0
0	13 LAWRENCE ALLAN REVITALIZATION PLAN-CHANGE IN SC	01/01/2019	12/31/2021	-8,368	0	0	-8,368	0	0	0	0	0	0	0
0	14 LAWRENCE ALLAN REVITALIZATION PLAN-CHANGE IN SC	01/01/2019	12/31/2022	-250	0	0	-250	0	0	0	0	0	0	0
	<b>Project Sub-total:</b>			3,300	0	0	3,300	0	0	0	0	0	0	0
<b>0</b>	<b><u>WAT907558 REGENT PARK CAPITAL CONTRIBUTION</u></b>													
0	14 REGENT PARK CAPITAL CONTRIBUTION - PHASE 3 - 5	01/01/2016	12/31/2024	1,133	0	0	1,133	0	0	0	0	0	0	0
0	16 REGENT PARK CAPITAL CONTRIBUTION --CHANGE IN SC	01/01/2019	12/31/2021	-591	0	0	-591	0	0	0	0	0	0	0
	<b>Project Sub-total:</b>			542	0	0	542	0	0	0	0	0	0	0
<b>0</b>	<b><u>WAT907946 BUSINESS IT PROJECTS</u></b>													
0	7 ENTERPRISE WORK MANAGEMENT SYSTEM PROJECT	01/01/2014	12/31/2019	1,554	0	0	0	0	1,554	0	0	0	0	0
0	18 ENTERPRISE WORK MANAGEMENT SYSTEM -CHANGE IN	01/01/2019	12/31/2023	-654	0	0	0	0	-654	0	0	0	0	0
	<b>Project Sub-total:</b>			900	0	0	0	0	900	0	0	0	0	0
<b>0</b>	<b><u>WAT908087 TRUNK WATERMAIN</u></b>													
0	1 TRANSMISSION SYSTEM AUTOMATION	01/01/2015	12/31/2019	5,801	0	0	0	0	5,801	0	0	0	0	0
0	4 JOS - REVENUE METER REPLACEMENT	01/01/2016	12/31/2019	4,369	0	0	0	0	2,184	0	0	2,185	0	0
0	6 3RD PARTY RELOCATIONS (METROLINX)	01/01/2015	12/31/2021	50	0	0	0	0	50	0	0	0	0	0
0	16 TRANSMISSION SYSTEM AUTOMATION-CHANGE IN SCOP	01/01/2019	12/31/2024	-5,381	0	0	0	0	-5,381	0	0	0	0	0
0	17 JOS - REVENUE METER REPLACEMENT-CHANGE IN SCOI	01/01/2019	12/31/2020	-929	0	0	0	0	-464	0	0	-465	0	0
	<b>Project Sub-total:</b>			3,910	0	0	0	0	2,190	0	0	1,720	0	0
<b>0</b>	<b><u>WAT908248 WT&amp;S PLANTWIDE</u></b>													
0	1 UV DISINFECTION - CONCEPTUAL DESIGN	01/01/2016	12/31/2019	248	0	0	0	0	248	0	0	0	0	0
0	4 ZEBRA MUSSEL CONTROL - ENG	01/01/2016	12/31/2019	738	0	0	0	0	738	0	0	0	0	0
0	5 ZEBRA MUSSEL CONTROL - CONSTRUCTION	01/01/2019	12/31/2023	250	0	0	0	0	250	0	0	0	0	0
0	6 STANDBY POWER - PHASE 2 - ENG	01/01/2016	12/31/2019	1,768	0	0	111	0	1,127	0	0	530	0	0

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



**CITY OF TORONTO**  
**Appendix 9: 2019 Capital Budget with Financing Detail**  
**Water Program**  
**Sub-Project Summary**

Project/Financing				2019	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>	<b>WAT908248</b>	<b>WT&amp;S PLANTWIDE</b>													
0	10	UV DISINFECTION - ISLAND WTP - ENGINEERING	01/01/2016	12/31/2019	1,251	0	0	0	0	1,251	0	0	0	0	0
0	12	SCRUBBER AND TONNER CONNECTION IMPROVEMENTS	01/01/2016	12/31/2019	1,956	0	0	128	0	1,241	0	0	587	0	0
0	18	SOURCE WATER PROTECTION-LAKE ONTARIO COLLABOI	01/01/2018	12/31/2020	375	0	0	0	0	375	0	0	0	0	0
0	21	SCRUBBER AND TONNER CONNECTION IMP-CHANGE IN	01/01/2019	12/31/2025	-1,415	0	0	-72	0	-918	0	0	-425	0	0
0	22	UV DISINFECTION - CONCEPTUAL DESIG-CHANGE IN SC	01/01/2019	12/31/2019	-248	0	0	0	0	-248	0	0	0	0	0
0	23	SOURCE WATER PROTECTION-LAKE ONTAR-CHANGE IN	01/01/2019	12/31/2022	-375	0	0	0	0	-375	0	0	0	0	0
0	24	UV DISINFECTION - ISLAND WTP - ENG-CHANGE IN SCOP	01/01/2019	12/31/2024	-606	0	0	0	0	-606	0	0	0	0	0
0	25	STANDBY POWER - PHASE 2 - ENG-CHANGE IN SCOPE	01/01/2019	12/31/2025	-608	0	0	9	0	-435	0	0	-182	0	0
0	26	ZEBRA MUSSEL CONTROL - ENG-CHANGE IN SCOPE	01/01/2019	12/31/2024	-388	0	0	0	0	-388	0	0	0	0	0
		<b>Project Sub-total:</b>			2,946	0	0	176	0	2,260	0	0	510	0	0
<b>Program Total:</b>					350,393	0	0	28,710	0	315,566	0	0	6,117	0	0

**Status Code Description**  
 S2 S2 Prior Year (With 2019 and/or Future Year Cashflow)  
 S3 S3 Prior Year - Change of Scope 2019 and/or Future Year Cost(Cashflow)  
 S4 S4 New - Stand-Alone Project (Current Year Only)  
 S5 S5 New (On-going or Phased Projects)

**Category Code Description**  
 01 Health and Safety C01  
 02 Legislated C02  
 03 State of Good Repair C03  
 04 Service Improvement and Enhancement C04  
 05 Growth Related C05  
 06 Reserved Category 1 C06  
 07 Reserved Category 2 C07

(Phase 2) 11-Wastewater Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2

Type: C Sub-Project Status: S2,S3,S4,S5



**CITY OF TORONTO**

**Appendix 9: 2019 Capital Budget with Financing Detail  
Wastewater Program  
Sub-Project Summary**

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2019	Financing									
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>	<b>WAS000007 ASHBRIDGES BAY WWTP REHAB</b>													
0	19 FERROUS UPGRADES	01/01/2013	12/31/2019	7,097	0	0	583	0	6,514	0	0	0	0	0
0	30 ELECTRICAL REHAB - ECAP	01/01/2005	12/31/2020	2,785	0	0	0	0	2,785	0	0	0	0	0
0	41 POLYMER UPGRADE	01/01/2014	12/31/2019	21,950	0	0	0	0	21,950	0	0	0	0	0
0	47 P BLDG HEADWORKS ENG DESIGN&CONTRACT ADMIN	01/01/2005	12/31/2019	2,082	0	0	227	0	1,855	0	0	0	0	0
0	49 PROCESS UPGRADES & ODOUR CONTROL ENGINEERING	01/01/2005	12/31/2019	81	0	0	8	0	73	0	0	0	0	0
0	189 PROCESS AND EQUIPMENT	01/01/2013	12/31/2019	1,463	0	0	0	0	1,463	0	0	0	0	0
0	190 GROUND AND FACILITIES	01/01/2013	12/31/2019	696	0	0	0	0	696	0	0	0	0	0
0	215 DIGESTERS CLEANING REHAB - TANKS 14, 16, 13	01/01/2014	12/31/2019	5,566	0	0	0	0	5,566	0	0	0	0	0
0	216 OPERATIONS CENTRE - ENGINEERING	01/01/2016	12/31/2019	260	0	0	0	0	260	0	0	0	0	0
0	226 ABTP - PROCESS ROADMAP PHASE 2	01/01/2015	12/31/2019	1,000	0	0	0	0	1,000	0	0	0	0	0
0	227 AIR HEADER REHAB	01/01/2015	12/31/2019	2,637	0	0	0	0	2,637	0	0	0	0	0
0	229 D BUILDING PHASE 2	01/01/2015	12/31/2019	2,144	0	0	0	0	2,144	0	0	0	0	0
0	246 NEW FLEET PURCHASES	01/01/2016	12/31/2022	25	0	0	0	0	25	0	0	0	0	0
0	256 DIGESTER CLEANING - 10 YEAR PLAN	01/01/2019	12/31/2027	200	0	0	0	0	200	0	0	0	0	0
0	264 HVAC CONVERSION Z-BLDG	01/01/2016	12/31/2019	28	0	0	0	0	28	0	0	0	0	0
0	285 BLOWER 7-9 OVERHAUL	01/01/2016	12/31/2019	500	0	0	0	0	500	0	0	0	0	0
0	292 BLOWER STUDY	01/01/2018	12/31/2019	100	0	0	0	0	100	0	0	0	0	0
0	306 BLOWER STUDY-CHANGE IN SCOPE	01/01/2019	12/31/2019	-100	0	0	0	0	-100	0	0	0	0	0
0	308 D BUILDING PHASE 2-CHANGE IN SCOPE	01/01/2019	12/31/2024	-1,046	0	0	0	0	-1,046	0	0	0	0	0
0	309 AIR HEADER REHAB-CHANGE IN SCOPE	01/01/2019	12/31/2020	-2,176	0	0	0	0	-2,176	0	0	0	0	0
0	310 DIGESTERS CLEANING REHAB - TANKS 1-CHANGE IN SC	01/01/2019	12/31/2023	-1,762	0	0	0	0	-1,762	0	0	0	0	0
0	311 POLYMER UPGRADE-CHANGE IN SCOPE	01/01/2019	12/31/2025	-20,525	0	0	0	0	-20,525	0	0	0	0	0
0	312 GROUND AND FACILITIES-CHANGE IN SCOPE	01/01/2019	12/31/2023	-96	0	0	0	0	-96	0	0	0	0	0
0	313 PROCESS AND EQUIPMENT-CHANGE IN SCOPE	01/01/2019	12/31/2023	-290	0	0	0	0	-290	0	0	0	0	0
0	314 FERROUS UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2020	-1,754	0	0	208	0	-1,962	0	0	0	0	0
0	315 ELECTRICAL REHAB - ECAP-CHANGE IN SCOPE	01/01/2019	12/31/2021	-2,294	0	0	0	0	-2,294	0	0	0	0	0
0	316 P BLDG HEADWORKS ENG DESIGN&CONTRA-CHANGE IN	01/01/2019	12/31/2021	-384	0	0	28	0	-412	0	0	0	0	0
0	317 PROCESS UPGRADES & ODOUR CONTROL E-CHANGE IN	01/01/2019	12/31/2020	-60	0	0	-5	0	-55	0	0	0	0	0
0	318 HEATING AND AIR SYSTEMS	01/01/2019	12/31/2025	705	0	0	0	0	705	0	0	0	0	0
0	320 EAST BYPASS	01/01/2019	12/31/2027	250	0	0	0	0	250	0	0	0	0	0
0	321 ABTP SOLAR PV PILOT PROJECT	01/01/2019	12/31/2022	250	0	0	0	0	250	0	0	0	0	0
0	322 SECONDARY CLARIFIER CROSS COLLECTOR UPGR TAN	01/01/2019	12/31/2023	75	0	0	0	0	75	0	0	0	0	0
0	324 ABTP - PROCESS ROADMAP PHASE 2-CHANGE IN SCOPE	01/01/2019	12/31/2022	-500	0	0	0	0	-500	0	0	0	0	0



(Phase 2) 11-Wastewater Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2

Type: C Sub-Project Status: S2,S3,S4,S5



## CITY OF TORONTO

## Appendix 9: 2019 Capital Budget with Financing Detail

## Wastewater Program

## Sub-Project Summary

Project/Financing				2019	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>	<b>WAS000442</b>	<b>BASEMENT FLOODING RELIEF</b>													
0	89	BASEMENT FLOODING RELIEF - GROUP 4 (CONSTRUCTIO	01/01/2016	12/31/2019	39,481	0	0	1,020	0	38,461	0	0	0	0	0
0	107	BASEMENT FLOODING RELIEF - GROUP 3 (CONSTRUCTIO	01/01/2016	12/31/2019	12,443	0	0	396	0	12,047	0	0	0	0	0
0	132	BASEMENT FLOODING STUDIES & EAS-CW-CHANGE IN S	01/01/2019	12/31/2024	-1,238	0	0	613	0	-1,851	0	0	0	0	0
0	133	BASEMENT FLOODING RELIEF - GROUP 1-CHANGE IN SC	01/01/2019	12/31/2020	-2,407	0	0	16	0	-2,423	0	0	0	0	0
0	134	BASEMENT FLOODING DESIGN - GROUP 3-CHANGE IN SC	01/01/2019	12/31/2021	-282	0	0	237	0	-519	0	0	0	0	0
0	135	BASEMENT FLOODING DESIGN - GROUP 4-CHANGE IN SC	01/01/2019	12/31/2027	-17,697	0	0	1,977	0	-19,674	0	0	0	0	0
0	136	BASEMENT FLOODING RELIEF - GROUP 4-CHANGE IN SC	01/01/2019	12/31/2028	-15,156	0	0	2,629	0	-17,785	0	0	0	0	0
0	137	BASEMENT FLOODING STUDIES & EAS-CHANGE IN SCOP	01/01/2019	12/31/2022	-616	0	0	6	0	-622	0	0	0	0	0
0	138	BASEMENT FLOODING RELIEF - GROUP 3-CHANGE IN SC	01/01/2019	12/31/2022	-3,450	0	0	953	0	-4,403	0	0	0	0	0
0	139	BASEMENT FLOODING RELIEF - TUNNEL -CHANGE IN SC	01/01/2019	12/31/2027	-1,761	0	0	457	0	-2,218	0	0	0	0	0
0	140	BASEMENT FLOODING DESIGN - GROUP 1-CHANGE IN SC	01/01/2020	12/31/2020	-1,076	0	0	0	0	-1,076	0	0	0	0	0
0	141	BASEMENT FLOODING RELIEF - GROUP 2-CHANGE IN SC	01/01/2019	12/31/2020	-8,554	0	0	803	0	-9,357	0	0	0	0	0
0	142	BASEMENT FLOODING DESIGN - GROUP 2-CHANGE IN SC	01/01/2020	12/31/2020	-3,032	0	0	0	0	-3,032	0	0	0	0	0
0	143	BASEMENT FLOODING FLOW MONITORING-CHANGE IN S	01/01/2019	12/31/2020	606	0	0	234	0	372	0	0	0	0	0
0	144	ROAD RESTORATION FOR BSMT FLDG PRJ-CHANGE IN S	01/01/2019	12/31/2020	-198	0	0	12	0	-210	0	0	0	0	0
<b>Project Sub-total:</b>					76,005	0	0	10,577	0	65,428	0	0	0	0	0
<b>0</b>	<b>WAS000521</b>	<b>HIGHLAND CREEK WWTP - BUILDING SERV &amp; SITE DEV</b>													
0	3	HCTP BLDG REHAB & IMPROVEMENTS	01/01/2012	12/31/2019	1,375	0	0	0	0	1,375	0	0	0	0	0
0	11	HCTP BLDG REHAB & IMPROVEMENTS-CHANGE IN SCOP	01/01/2019	12/31/2020	-375	0	0	0	0	-375	0	0	0	0	0
<b>Project Sub-total:</b>					1,000	0	0	0	0	1,000	0	0	0	0	0
<b>0</b>	<b>WAS906322</b>	<b>W&amp;WW LABORATORIES</b>													
0	22	LAB & EMP FACILITIES	01/01/2018	12/31/2019	7,550	0	0	0	0	7,550	0	0	0	0	0
0	27	LAB EQUIPMENT - FUTURE	01/01/2018	12/31/2027	337	0	0	0	0	337	0	0	0	0	0
0	33	LAB EQUIPMENT - FUTURE-CHANGE IN SCOPE	01/01/2019	12/31/2028	-337	0	0	0	0	-337	0	0	0	0	0
0	34	LAB EQUIPMENT-CHANGE IN SCOPE	01/01/2019	12/31/2019	562	0	0	0	0	562	0	0	0	0	0
0	35	LAB & EMP FACILITIES-CHANGE IN SCOPE	01/01/2019	12/31/2021	-6,500	0	0	0	0	-6,500	0	0	0	0	0
<b>Project Sub-total:</b>					1,612	0	0	0	0	1,612	0	0	0	0	0
<b>0</b>	<b>WAS906328</b>	<b>SWM END OF PIPE FACILITIES</b>													
0	11	Bonar Creek SWMF Construction	01/01/2014	12/31/2022	1,750	0	0	141	0	1,609	0	0	0	0	0
0	12	EARL BALES PARK SWM FACILITY - PHASE 2	01/01/2012	12/31/2019	1,000	0	0	80	0	920	0	0	0	0	0
0	64	HUMBER BAY POND (ETOBICOKE)	01/01/2016	12/31/2019	290	0	0	26	0	264	0	0	0	0	0
0	67	YR03 D1 END OF PIPE	01/01/2016	12/31/2019	1	0	0	0	0	1	0	0	0	0	0
0	72	NORTH TORONTO CSO CONSTR - 2018 SC	01/01/2018	12/31/2019	340	0	0	33	0	307	0	0	0	0	0





**CITY OF TORONTO**

**Appendix 9: 2019 Capital Budget with Financing Detail**

**Wastewater Program**

**Sub-Project Summary**

Project/Financing				2019	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>		<b><u>WAS906492</u></b>		<b><u>WET WEATHER FLOW MP</u></b>											
0	114	SWM INA/EA-CHANGE IN SCOPE	01/01/2019	12/31/2022	77	0	0	61	0	16	0	0	0	0	0
0	115	WATERFRONT MODELLING STUDIES-CHANGE IN SCOPE	01/01/2019	12/31/2025	-25	0	0	-2	0	-23	0	0	0	0	0
0	116	WWFMP IMPLEMENTATION - DESIGN-CHANGE IN SCOPE	01/01/2019	12/31/2024	-633	0	0	-51	0	-582	0	0	0	0	0
0	117	STORM WATER POND ASSESSMENT & CLEA-CHANGE IN	01/01/2019	12/31/2023	-2,143	0	0	0	0	-2,143	0	0	0	0	0
0	118	ASHBRIDGES BAY LANDFORMS-CHANGE IN SCOPE	01/01/2019	12/31/2025	3,750	0	0	0	0	3,750	0	0	0	0	0
<b>Project Sub-total:</b>					<b>13,508</b>	<b>0</b>	<b>0</b>	<b>630</b>	<b>0</b>	<b>12,878</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAS906495</u></b>		<b><u>SEWER ASSET PLANNING</u></b>											
0	5	SEWER ASSET PLANNING	01/01/2007	12/31/2019	11,404	0	0	915	0	10,489	0	0	0	0	0
0	7	SEWER SYSTEM INSPECTION	01/01/2010	12/31/2020	7,546	0	0	0	0	7,546	0	0	0	0	0
0	21	PPD - INFRASTRUCTURE PLANNING STUDIES	01/01/2014	12/31/2019	150	0	0	0	0	150	0	0	0	0	0
0	39	SEWER SYSTEM INSPECTION-CHANGE IN SCOPE	01/01/2019	12/31/2024	2,454	0	0	0	0	2,454	0	0	0	0	0
0	40	SEWER ASSET PLANNING-CHANGE IN SCOPE	01/01/2019	12/31/2026	-5,828	0	0	-486	0	-5,342	0	0	0	0	0
0	41	PPD - INFRASTRUCTURE PLANNING STUD-CHANGE IN SC	01/01/2019	12/31/2020	25	0	0	0	0	25	0	0	0	0	0
0	42	CORP IT - IDC-CHANGE IN SCOPE	01/01/2019	12/31/2019	150	0	0	0	0	150	0	0	0	0	0
<b>Project Sub-total:</b>					<b>15,901</b>	<b>0</b>	<b>0</b>	<b>429</b>	<b>0</b>	<b>15,472</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAS906500</u></b>		<b><u>NEW SEWER CONSTRUCTION</u></b>											
0	5	NEW SEWERS	01/01/2008	12/31/2019	88	0	0	60	0	28	0	0	0	0	0
0	24	WATERFRONT SANITARY MASTER SERVICING PLAN IMP	01/01/2015	12/31/2019	6,500	0	0	3,250	0	3,250	0	0	0	0	0
0	36	SHEPPARD SANITARY SEWER AT EAST DON STS	01/01/2018	12/31/2020	2,000	0	0	1,244	0	756	0	0	0	0	0
0	40	WATERFRONT SANITARY MASTER SERVICI-CHANGE IN S	01/01/2019	12/31/2026	-5,150	0	0	-2,575	0	-2,575	0	0	0	0	0
0	41	SHEPPARD SANITARY SEWER AT EAST DO-CHANGE IN S	01/01/2019	12/31/2023	-2,000	0	0	-1,244	0	-756	0	0	0	0	0
0	42	NEW SEWERS-CHANGE IN SCOPE	01/01/2019	12/31/2020	-38	0	0	-10	0	-28	0	0	0	0	0
<b>Project Sub-total:</b>					<b>1,400</b>	<b>0</b>	<b>0</b>	<b>725</b>	<b>0</b>	<b>675</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAS906735</u></b>		<b><u>DIST SEWER REHAB OPS YR2005</u></b>											
0	10	GROUP 1 SEWAGE PUMPING STATION UPGRADES	01/01/2005	12/31/2019	16	0	0	2	0	14	0	0	0	0	0
0	20	GROUP 1 SEWAGE PUMPING STATION UPG-CHANGE IN S	01/01/2020	12/31/2020	-1	0	0	0	0	-1	0	0	0	0	0
<b>Project Sub-total:</b>					<b>15</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAS906741</u></b>		<b><u>HIGHLAND CREEK TP YR2005</u></b>											
0	1	WAS THICKENING AND DEWATERING - ENG	01/01/2005	12/31/2019	2	0	0	0	0	2	0	0	0	0	0
0	21	WAS THICKENING AND DEWATERING - EN-CHANGE IN SC	01/01/2019	12/31/2019	1	0	0	0	0	1	0	0	0	0	0
<b>Project Sub-total:</b>					<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAS906742</u></b>		<b><u>HUMBER TP YR2005</u></b>											
0	8	ODOUR CONTROL ENGINEERING	01/01/2008	12/31/2021	374	0	0	0	0	374	0	0	0	0	0





**CITY OF TORONTO**

**Appendix 9: 2019 Capital Budget with Financing Detail**

**Wastewater Program**

**Sub-Project Summary**

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2019	Financing											
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable		
<b>0</b>	<b><u>WAS906742</u></b>	<b><u>HUMBER TP YR2005</u></b>														
0	58 ODOUR CONTROL ENGINEERING-CHANGE IN SCOPE	01/01/2019	12/31/2020	383	0	0	114	0	269	0	0	0	0	0	0	0
	<b>Project Sub-total:</b>			757	0	0	114	0	643	0	0	0	0	0	0	0
<b>0</b>	<b><u>WAS906743</u></b>	<b><u>ASHRIDGES BAY TP YR2005</u></b>														
0	1 MISC MECH ENGINEERING	01/01/2005	12/31/2019	720	0	0	62	0	658	0	0	0	0	0	0	0
0	7 SERVICE AIR UPGRADES	01/01/2006	12/31/2019	1,166	0	0	0	0	1,166	0	0	0	0	0	0	0
0	63 MISC MECH ENGINEERING-CHANGE IN SCOPE	01/01/2019	12/31/2022	-400	0	0	-15	0	-385	0	0	0	0	0	0	0
0	64 SERVICE AIR UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2020	-1,132	0	0	0	0	-1,132	0	0	0	0	0	0	0
	<b>Project Sub-total:</b>			354	0	0	47	0	307	0	0	0	0	0	0	0
<b>0</b>	<b><u>WAS906755</u></b>	<b><u>WESTERN BEACHES RETROFIT</u></b>														
0	1 WESTERN BEACHES RETROFIT	01/01/2005	12/31/2019	8,902	0	0	960	0	7,942	0	0	0	0	0	0	0
0	17 WESTERN BEACHES RETROFIT-CHANGE IN SCOPE	01/01/2019	12/31/2023	-5,300	0	0	-427	0	-4,873	0	0	0	0	0	0	0
	<b>Project Sub-total:</b>			3,602	0	0	533	0	3,069	0	0	0	0	0	0	0
<b>0</b>	<b><u>WAS906926</u></b>	<b><u>OPERATIONAL SUPPORT</u></b>														
0	6 FACILITY RENOVATION	01/01/2006	12/31/2019	1,015	0	0	0	0	1,015	0	0	0	0	0	0	0
0	23 EMP MONITORING NEEDS	01/01/2010	12/31/2019	50	0	0	0	0	50	0	0	0	0	0	0	0
0	40 PCS UPGRADES FOR WASTEWATER TREATMENT	01/01/2013	12/31/2019	6,842	0	0	0	0	6,842	0	0	0	0	0	0	0
0	100 DIVISIONAL SECURITY	01/01/2016	12/31/2019	1,135	0	0	0	0	1,135	0	0	0	0	0	0	0
0	107 OFFICE MODERNIZATION - MH18	01/01/2016	12/31/2020	450	0	0	0	0	450	0	0	0	0	0	0	0
0	114 DISTRICT OPERATIONS FACILITY UPGRADES	01/01/2016	12/31/2022	250	0	0	0	0	250	0	0	0	0	0	0	0
0	122 435 KIPLING AVENUE	01/01/2018	12/31/2019	2,020	0	0	0	0	2,020	0	0	0	0	0	0	0
0	123 PCS UPGRADES FOR WASTEWATER TREATM-CHANGE IN SCOPE	01/01/2019	12/31/2021	-4,746	0	0	0	0	-4,746	0	0	0	0	0	0	0
0	124 FACILITY RENOVATION-CHANGE IN SCOPE	01/01/2019	12/31/2023	1,823	0	0	0	0	1,823	0	0	0	0	0	0	0
0	126 DIVISIONAL SECURITY-CHANGE IN SCOPE	01/01/2019	12/31/2020	47	0	0	0	0	47	0	0	0	0	0	0	0
0	128 OFFICE MODERNIZATION - MH18-CHANGE IN SCOPE	01/01/2019	12/31/2020	-450	0	0	0	0	-450	0	0	0	0	0	0	0
0	129 435 KIPLING AVENUE-CHANGE IN SCOPE	01/01/2019	12/31/2021	-1,870	0	0	0	0	-1,870	0	0	0	0	0	0	0
	<b>Project Sub-total:</b>			6,566	0	0	0	0	6,566	0	0	0	0	0	0	0
<b>0</b>	<b><u>WAS906958</u></b>	<b><u>SEWER SYSTEM REHABILITATION</u></b>														
0	2 GROUPS 2, 3 & 4 SEWAGE PUMPING STATION UPGRADES	01/01/2005	12/31/2019	4	0	0	1	0	3	0	0	0	0	0	0	0
0	5 CCTV INSPECTION	01/01/2007	12/31/2019	1,048	0	0	0	0	1,048	0	0	0	0	0	0	0
0	8 SPS SCADA UPGRADES - ENGINEERING	01/01/2008	12/31/2019	517	0	0	42	0	475	0	0	0	0	0	0	0
0	9 SEWER REHABILITATION	01/01/2008	12/31/2022	23,854	0	0	0	0	23,854	0	0	0	0	0	0	0
0	23 SEWAGE PUMPING STATION STANDBY POWER	01/01/2009	12/31/2019	117	0	0	9	0	108	0	0	0	0	0	0	0
0	24 GROUP 5 SEWAGE PUMPING STATION UPGRADES	01/01/2013	12/31/2019	8,700	0	0	845	0	7,855	0	0	0	0	0	0	0



**CITY OF TORONTO**

**Appendix 9: 2019 Capital Budget with Financing Detail**

**Wastewater Program**

**Sub-Project Summary**

Project/Financing				2019	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>		<b><u>WAS906958</u></b>		<b><u>SEWER SYSTEM REHABILITATION</u></b>											
0	79	SEWER REHABILITATION - CWD	01/01/2016	12/31/2019	55,323	0	0	0	0	55,323	0	0	0	0	0
0	98	SEWER REHABILITATION - CWD-CHANGE IN SCOPE	01/01/2019	12/31/2022	-30,270	0	0	0	0	-30,270	0	0	0	0	0
0	99	GROUP 5 SEWAGE PUMPING STATION UPG-CHANGE IN SCOPE	01/01/2019	12/31/2021	-2,254	0	0	109	0	-2,363	0	0	0	0	0
0	100	SEWAGE PUMPING STATION STANDBY POW-CHANGE IN SCOPE	01/01/2019	12/31/2020	-102	0	0	-7	0	-95	0	0	0	0	0
0	101	SPS SCADA UPGRADES - ENGINEERING-CHANGE IN SCOPE	01/01/2019	12/31/2020	-324	0	0	-13	0	-311	0	0	0	0	0
0	102	SEWER REHABILITATION-CHANGE IN SCOPE	01/01/2019	12/31/2024	2,860	0	0	0	0	2,860	0	0	0	0	0
0	103	CCTV INSPECTION-CHANGE IN SCOPE	01/01/2019	12/31/2020	68	0	0	0	0	68	0	0	0	0	0
0	105	SEWER REHABILITATION - CUT REPAIRS	01/01/2019	12/31/2022	2,995	0	0	0	0	2,995	0	0	0	0	0
0	106	GROUPS 2, 3 & 4 SEWAGE PUMPING STA-CHANGE IN SCOPE	01/01/2019	12/31/2019	2	0	0	0	0	2	0	0	0	0	0
<b>Project Sub-total:</b>					<b>62,538</b>	<b>0</b>	<b>0</b>	<b>986</b>	<b>0</b>	<b>61,552</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAS906960</u></b>		<b><u>STREAM RESTORATION &amp; EROSION CONTROL</u></b>											
0	7	STREAM RESTORATION	01/01/2008	12/31/2019	73	0	0	6	0	67	0	0	0	0	0
0	41	WATERCOURSE - ENGINEERING	01/01/2016	12/31/2019	972	0	0	61	0	911	0	0	0	0	0
0	43	PARTNER PROJECTS	01/01/2016	12/31/2021	600	0	0	48	0	552	0	0	0	0	0
0	45	WATERCOURSE - CONSTRUCTION	01/01/2019	12/31/2025	850	0	0	0	0	850	0	0	0	0	0
0	51	STUDIES, EAs, MASTER PLANS	01/01/2016	12/31/2019	3,017	0	0	281	0	2,736	0	0	0	0	0
0	52	CRITICAL REPAIRS	01/01/2016	12/31/2019	3,159	0	0	230	0	2,929	0	0	0	0	0
0	53	EMERGENCY EROSION CONTROL	01/01/2016	12/31/2022	300	0	0	24	0	276	0	0	0	0	0
0	62	STUDIES, EAs, MASTER PLANS -CHANGE IN SCOPE	01/01/2019	12/31/2024	-1,770	0	0	-96	0	-1,674	0	0	0	0	0
0	63	EMERGENCY EROSION CONTROL-CHANGE IN SCOPE	01/01/2019	12/31/2022	2,384	0	0	-24	0	2,408	0	0	0	0	0
0	64	STREAM RESTORATION -CHANGE IN SCOPE	01/01/2019	12/31/2019	-22	0	0	-6	0	-16	0	0	0	0	0
0	65	CRITICAL REPAIRS-CHANGE IN SCOPE	01/01/2019	12/31/2026	-824	0	0	-230	0	-594	0	0	0	0	0
0	66	PARTNER PROJECTS-CHANGE IN SCOPE	01/01/2019	12/31/2021	0	0	0	-48	0	48	0	0	0	0	0
0	67	WATERCOURSE - ENGINEERING-CHANGE IN SCOPE	01/01/2019	12/31/2027	-378	0	0	-61	0	-317	0	0	0	0	0
<b>Project Sub-total:</b>					<b>8,361</b>	<b>0</b>	<b>0</b>	<b>185</b>	<b>0</b>	<b>8,176</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAS906966</u></b>		<b><u>SWM TRCA FUNDING</u></b>											
0	24	TORONTO WATER TRANSFER TO TRCA CAP-CHANGE IN SCOPE	01/01/2019	12/31/2019	4,491	0	0	674	0	3,817	0	0	0	0	0
<b>Project Sub-total:</b>					<b>4,491</b>	<b>0</b>	<b>0</b>	<b>674</b>	<b>0</b>	<b>3,817</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAS906968</u></b>		<b><u>ENGINEERING</u></b>											
0	2	CONSULTING FEES	01/01/2006	12/31/2019	16,913	0	0	0	0	16,913	0	0	0	0	0
0	59	ROAD RESTORATION	01/01/2006	12/31/2019	729	0	0	0	0	729	0	0	0	0	0
0	70	CONSULTING FEES-CHANGE IN SCOPE	01/01/2019	12/31/2026	-8,509	0	0	0	0	-8,509	0	0	0	0	0
0	71	ECS SALARIES-CHANGE IN SCOPE	01/01/2019	12/31/2019	14,491	0	0	0	0	14,491	0	0	0	0	0

(Phase 2) 11-Wastewater Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2

Type: C Sub-Project Status: S2,S3,S4,S5



**CITY OF TORONTO**

**Appendix 9: 2019 Capital Budget with Financing Detail**

**Wastewater Program**

**Sub-Project Summary**

Project/Financing		Start Date	Completion Date	2019 Cash Flow	Financing									
Priority	Project Name				Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0 WAS906968 ENGINEERING</b>														
0	72 TW SALARIES-CHANGE IN SCOPE	01/01/2019	12/31/2019	1,089	0	0	0	0	1,089	0	0	0	0	0
0	73 ROAD RESTORATION-CHANGE IN SCOPE	01/01/2019	12/31/2019	-59	0	0	0	0	-59	0	0	0	0	0
<b>Project Sub-total:</b>				<b>24,654</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24,654</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0 WAS906973 SEWER REPLACEMENT PROGRAM</b>														
0	25 2012 SEWER REPLC	01/01/2012	12/31/2019	325	0	0	0	0	325	0	0	0	0	0
0	35 2013 SEWER REPLC	01/01/2013	12/31/2019	10	0	0	1	0	9	0	0	0	0	0
0	36 SEWER REPLC - 2014 PROGRAM	01/01/2014	12/31/2019	28	0	0	2	0	26	0	0	0	0	0
0	46 WATERFRONT STORMWATER INFRASTRUCTURE	01/01/2013	12/31/2019	3,250	0	0	2,017	0	1,233	0	0	0	0	0
0	47 EBF REPORT	01/01/2013	12/31/2019	1,070	0	0	701	0	369	0	0	0	0	0
0	52 SEWER REPLACEMENT - METROLINX	01/01/2014	12/31/2022	1,213	0	0	0	0	1,213	0	0	0	0	0
0	62 SEWER REPLC - 2015 PROGRAM	01/01/2015	12/31/2019	604	0	0	48	0	556	0	0	0	0	0
0	71 SEWER REPLC - 2016 PROGRAM	01/01/2016	12/31/2019	3,694	0	0	297	0	3,397	0	0	0	0	0
0	75 FORCEMAIN REPLACEMENT - 2016	01/01/2016	12/31/2019	10,354	0	0	0	0	10,354	0	0	0	0	0
0	78 SEWER REPLC - 2017 PROGRAM	01/01/2016	12/31/2019	879	0	0	70	0	809	0	0	0	0	0
0	79 SEWER REPLC - 2018 PROGRAM	01/01/2018	12/31/2019	1,938	0	0	154	0	1,784	0	0	0	0	0
0	98 SEWER REPLC - 2019 PROGRAM	01/01/2019	12/31/2021	18,382	0	0	1,480	0	16,902	0	0	0	0	0
0	100 CSP RENEWAL	01/01/2018	12/31/2019	5,812	0	0	461	0	5,351	0	0	0	0	0
0	102 SEWER REPLC - 2016 PROGRAM-CHANGE IN SCOPE	01/01/2019	12/31/2020	-3,465	0	0	-279	0	-3,186	0	0	0	0	0
0	103 SEWER REPLC - 2017 PROGRAM-CHANGE IN SCOPE	01/01/2019	12/31/2020	-721	0	0	-58	0	-663	0	0	0	0	0
0	104 SEWER REPLC - 2018 PROGRAM-CHANGE IN SCOPE	01/01/2019	12/31/2022	-1,427	0	0	-115	0	-1,312	0	0	0	0	0
0	105 SEWER REPLC - 2019 PROGRAM-CHANGE IN SCOPE	01/01/2019	12/31/2023	-9,821	0	0	-822	0	-8,999	0	0	0	0	0
0	106 2012 SEWER REPLC-CHANGE IN SCOPE	01/01/2019	12/31/2020	-320	0	0	0	0	-320	0	0	0	0	0
0	107 CSP RENEWAL-CHANGE IN SCOPE	01/01/2019	12/31/2021	-1,639	0	0	-140	0	-1,499	0	0	0	0	0
0	108 EBF REPORT-CHANGE IN SCOPE	01/01/2019	12/31/2020	-521	0	0	-437	0	-84	0	0	0	0	0
0	109 WATERFRONT STORMWATER INFRASTRUCTU-CHANGE II	01/01/2019	12/31/2020	-2,250	0	0	-1,536	0	-714	0	0	0	0	0
0	110 SEWER REPLC - 2014 PROGRAM-CHANGE IN SCOPE	01/01/2019	12/31/2019	-9	0	0	-1	0	-8	0	0	0	0	0
0	111 SEWER REPLC - 2015 PROGRAM-CHANGE IN SCOPE	01/01/2019	12/31/2020	-394	0	0	-32	0	-362	0	0	0	0	0
0	114 SEWER REPLACEMENT - METROLINX-CHANGE IN SCOPE	01/01/2019	12/31/2021	-600	0	0	0	0	-600	0	0	0	0	0
0	115 FORCEMAIN REPLACEMENT - 2016-CHANGE IN SCOPE	01/01/2019	12/31/2022	-6,680	0	0	0	0	-6,680	0	0	0	0	0
<b>Project Sub-total:</b>				<b>19,712</b>	<b>0</b>	<b>0</b>	<b>1,811</b>	<b>0</b>	<b>17,901</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0 WAS906980 ASHBRIDGES BAY T.P. YR2006</b>														
0	9 DEWATERING EQUIPMENT UPGRADES	01/01/2006	12/31/2019	100	0	0	8	0	92	0	0	0	0	0



(Phase 2) 11-Wastewater Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2

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**CITY OF TORONTO**

**Appendix 9: 2019 Capital Budget with Financing Detail**

**Wastewater Program**

**Sub-Project Summary**

Project/Financing				2019	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>	<b><u>WAS906982</u></b>	<b><u>HUMBER WWTP UPGRADES</u></b>													
0	95	REPLACEMENT OF WASTE GAS BURNERS	01/01/2016	12/31/2019	8,211	0	0	0	0	8,211	0	0	0	0	0
0	99	WET WEATHER FLOW	01/01/2016	12/31/2019	540	0	0	0	0	540	0	0	0	0	0
0	107	MESI UPGRADES	01/01/2016	12/31/2019	600	0	0	0	0	600	0	0	0	0	0
0	114	FIELD OFFICE	01/01/2017	12/31/2019	324	0	0	0	0	324	0	0	0	0	0
0	115	ADMIN BUILDING EXPANSION - CONSTRUCTION	01/01/2018	12/31/2019	1,568	0	0	0	0	1,568	0	0	0	0	0
0	116	SERVICE REHAB AND UPGRADES	01/01/2016	12/31/2023	600	0	0	0	0	600	0	0	0	0	0
0	129	ELECTRICAL CONDITION ASSESSMENT RE-CHANGE IN SCOPE	01/01/2019	12/31/2021	-2,200	0	0	0	0	-2,200	0	0	0	0	0
0	130	ADMIN BUILDING EXPANSION - CONSTRU-CHANGE IN SCOPE	01/01/2019	12/31/2022	-168	0	0	0	0	-168	0	0	0	0	0
0	131	ADMIN BUILDING EXPANSION - ENGINEE-CHANGE IN SCOPE	01/01/2019	12/31/2022	69	0	0	0	0	69	0	0	0	0	0
0	132	CHLORINE FACILITY UPGRADE-CHANGE IN SCOPE	01/01/2019	12/31/2019	-718	0	0	0	0	-718	0	0	0	0	0
0	133	DIGESTERS CLEANING REHAB-CHANGE IN SCOPE	01/01/2019	12/31/2022	-2,400	0	0	0	0	-2,400	0	0	0	0	0
0	134	MESI UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2022	-49	0	0	0	0	-49	0	0	0	0	0
0	136	SECURITY UPGRADES	01/01/2019	12/31/2021	250	0	0	0	0	250	0	0	0	0	0
0	137	NEW SUBSTATION-CHANGE IN SCOPE	01/01/2019	12/31/2020	29	0	0	0	0	29	0	0	0	0	0
0	138	FLOOD PROTECTION-CHANGE IN SCOPE	01/01/2019	12/31/2020	300	0	0	0	0	300	0	0	0	0	0
0	139	HVAC UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2021	-2,038	0	0	0	0	-2,038	0	0	0	0	0
0	141	FIELD OFFICE-CHANGE IN SCOPE	01/01/2019	12/31/2020	-67	0	0	0	0	-67	0	0	0	0	0
0	142	REPLACEMENT OF WASTE GAS BURNERS-CHANGE IN SCOPE	01/01/2019	12/31/2022	-4,753	0	0	0	0	-4,753	0	0	0	0	0
0	143	WET WEATHER FLOW-CHANGE IN SCOPE	01/01/2019	12/31/2024	-490	0	0	0	0	-490	0	0	0	0	0
		<b>Project Sub-total:</b>			14,781	0	0	0	0	14,781	0	0	0	0	0
<b>0</b>	<b><u>WAS906994</u></b>	<b><u>HIGHLAND CREEK WWTP - SOLIDS &amp; GAS HANDLING</u></b>													
0	1	HIGHLAND CREEK WWTP - BMP IMPLEMENTATION	01/01/2012	12/31/2019	3,220	0	0	308	0	2,912	0	0	0	0	0
0	3	WAS THICKENING - CONSTR	01/01/2010	12/31/2019	1	0	0	0	0	1	0	0	0	0	0
0	8	HIGHLAND CREEK WWTP - BMP IMPLEMENTATION	01/01/2018	12/31/2019	78	0	0	7	0	71	0	0	0	0	0
0	22	HIGHLAND CREEK WWTP - BMP IMPLEMEN-CHANGE IN SCOPE	01/01/2019	12/31/2028	-1,170	0	0	-5	0	-1,165	0	0	0	0	0
0	23	HIGHLAND CREEK WWTP - BMP IMPLEMEN-CHANGE IN SCOPE	01/01/2019	12/31/2026	5,922	0	0	881	0	5,041	0	0	0	0	0
		<b>Project Sub-total:</b>			8,051	0	0	1,191	0	6,860	0	0	0	0	0
<b>0</b>	<b><u>WAS907038</u></b>	<b><u>Land Acquisition for Source Water Protect</u></b>													
0	25	TRCA - SCARBOROUGH WATERFRONT WEST EA	01/01/2016	12/31/2019	800	0	0	64	0	736	0	0	0	0	0
0	33	TRCA - SCARBOROUGH WATERFRONT WEST-CHANGE IN SCOPE	01/01/2019	12/31/2019	0	0	0	54	0	-54	0	0	0	0	0
0	34	TRCA - CRITICAL EROSION SITES-CHANGE IN SCOPE	01/01/2019	12/31/2019	9,500	0	0	0	0	9,500	0	0	0	0	0
		<b>Project Sub-total:</b>			10,300	0	0	118	0	10,182	0	0	0	0	0

(Phase 2) 11-Wastewater Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2

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**CITY OF TORONTO**

**Appendix 9: 2019 Capital Budget with Financing Detail**

**Wastewater Program**

**Sub-Project Summary**

Project/Financing				2019	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>	<b>WAS907097</b>	<b>ASHBRIDGES BAY WWTP - BUILDING SERVICES &amp; SITE DE</b>													
0		7 CONTROLLED SUBSTANCE IDENTIFICATION AND ABATEM	01/01/2007	12/31/2020	100	0	0	0	0	100	0	0	0	0	0
0		19 BIO GAS UTILIZATION	01/01/2009	12/31/2019	850	0	0	0	0	850	0	0	0	0	0
0		21 BLOWER BLDG & OLD NORTH SUBSTATION IMPROVEMEN	01/01/2010	12/31/2019	6,321	0	0	0	0	6,321	0	0	0	0	0
0		64 GROVE LANDSCAPING - PHASE 1	01/01/2016	12/31/2019	117	0	0	0	0	117	0	0	0	0	0
0		68 BLOWER BLDG & OLD NORTH SUBSTATION-CHANGE IN S	01/01/2019	12/31/2021	-3,956	0	0	0	0	-3,956	0	0	0	0	0
0		69 BIO GAS UTILIZATION-CHANGE IN SCOPE	01/01/2019	12/31/2027	-800	0	0	0	0	-800	0	0	0	0	0
0		70 CONTROLLED SUBSTANCE IDENTIFICATIO-CHANGE IN S	01/01/2019	12/31/2020	-100	0	0	0	0	-100	0	0	0	0	0
0		71 GROVE LANDSCAPING - PHASE 1-CHANGE IN SCOPE	01/01/2019	12/31/2019	-7	0	0	0	0	-7	0	0	0	0	0
		<b>Project Sub-total:</b>			<b>2,525</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,525</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>	<b>WAS907098</b>	<b>ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM</b>													
0		1 DISINFECTION ENGINEERING	01/01/2009	12/31/2024	4,900	0	0	394	0	4,506	0	0	0	0	0
0		2 OUTFALL CONSTRUCTION	01/01/2018	12/31/2025	30,000	0	0	2,414	0	27,586	0	0	0	0	0
0		13 OUTFALL ASSESSMENT	01/01/2012	12/31/2019	57	0	0	5	0	52	0	0	0	0	0
0		14 OUTFALL ENGINEERING	01/01/2015	12/31/2026	5,730	0	0	461	0	5,269	0	0	0	0	0
0		15 DISINFECTION SYSTEM CONSTRUCTION	01/01/2016	12/31/2019	89,633	0	0	8,529	0	81,104	0	0	0	0	0
0		31 OUTFALL - SITE PREP	01/01/2016	12/31/2019	31	0	0	5	0	26	0	0	0	0	0
0		37 OUTFALL ASSESSMENT-CHANGE IN SCOPE	01/01/2019	12/31/2019	-57	0	0	-5	0	-52	0	0	0	0	0
0		38 DISINFECTION SYSTEM CONSTRUCTION-CHANGE IN SCC	01/01/2019	12/31/2022	-54,498	0	0	-3,330	0	-51,168	0	0	0	0	0
0		39 DISINFECTION ENGINEERING-CHANGE IN SCOPE	01/01/2019	12/31/2024	-3,006	0	0	-114	0	-2,892	0	0	0	0	0
0		40 OUTFALL CONSTRUCTION-CHANGE IN SCOPE	01/01/2019	12/31/2025	5,000	0	0	2,765	0	2,235	0	0	0	0	0
0		41 OUTFALL ENGINEERING-CHANGE IN SCOPE	01/01/2019	12/31/2026	-2,604	0	0	2	0	-2,606	0	0	0	0	0
		<b>Project Sub-total:</b>			<b>75,186</b>	<b>0</b>	<b>0</b>	<b>11,126</b>	<b>0</b>	<b>64,060</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>	<b>WAS907099</b>	<b>ASHBRIDGES BAY WWTP - LIQUID TREATMENT &amp; HANDLIN</b>													
0		1 FINE BUBBLE AERATION - TANK #2	01/01/2009	12/31/2019	316	0	0	25	0	291	0	0	0	0	0
0		3 P BLDG HEADWORKS UPGRADE	01/01/2010	12/31/2019	10,627	0	0	1,235	0	9,392	0	0	0	0	0
0		6 M & T PUMPING STATION CRITICAL REPAIRS	01/01/2014	12/31/2019	2,085	0	0	0	0	2,085	0	0	0	0	0
0		10 INTEGRATED PUMPING STATION (IPS) - ENGINEERING	01/01/2011	12/31/2027	5,844	0	0	0	0	5,844	0	0	0	0	0
0		39 INTEGRATED PUMPING STATION (IPS) - CONSTRUCTION	01/01/2012	12/31/2019	19,220	0	0	225	0	18,995	0	0	0	0	0
0		77 FINE BUBBLE AERATION - ENGINEERING	01/01/2016	12/31/2019	449	0	0	56	0	393	0	0	0	0	0
0		84 AERATION TANK 12 & 13	01/01/2019	12/31/2027	50	0	0	50	0	0	0	0	0	0	0
0		89 INTEGRATED PUMPING STATION (IPS) --CHANGE IN SCOF	01/01/2019	12/31/2028	979	0	0	2,764	0	-1,785	0	0	0	0	0
0		90 INTEGRATED PUMPING STATION (IPS) --CHANGE IN SCOF	01/01/2019	12/31/2028	-815	0	0	754	0	-1,569	0	0	0	0	0
0		91 M & T PUMPING STATION CRITICAL REP-CHANGE IN SCOI	01/01/2019	12/31/2020	-1,235	0	0	0	0	-1,235	0	0	0	0	0
0		92 FINE BUBBLE AERATION - ENGINEERING-CHANGE IN SCC	01/01/2019	12/31/2028	1	0	0	11	0	-10	0	0	0	0	0

(Phase 2) 11-Wastewater Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2

Type: C Sub-Project Status: S2,S3,S4,S5



**CITY OF TORONTO**

**Appendix 9: 2019 Capital Budget with Financing Detail**

**Wastewater Program**

**Sub-Project Summary**

Project/Financing				2019	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>		<b><u>WAS907099 ASHBRIDGES BAY WWTP - LIQUID TREATMENT &amp; HANDLIN</u></b>													
0	93	FINE BUBBLE AERATION - TANK #2-CHANGE IN SCOPE	01/01/2019	12/31/2019	-316	0	0	-25	0	-291	0	0	0	0	0
0	94	P BLDG HEADWORKS UPGRADE-CHANGE IN SCOPE	01/01/2019	12/31/2020	-4,992	0	0	-390	0	-4,602	0	0	0	0	0
<b>Project Sub-total:</b>					<b>32,213</b>	<b>0</b>	<b>0</b>	<b>4,705</b>	<b>0</b>	<b>27,508</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAS907100 ASHBRIDGES BAY WWTP - SOLIDS &amp; GAS HANDLING</u></b>													
0	3	WASTE ACTIVATED SLUDGE UPGRADE - ENGINEERING	01/01/2014	12/31/2019	2,788	0	0	244	0	2,544	0	0	0	0	0
0	4	DIGESTERS 9-12 REFURBISH	01/01/2011	12/31/2019	21,933	0	0	2,167	0	19,766	0	0	0	0	0
0	8	BIOSOLIDS PELLETIZER RETROFIT	01/01/2013	12/31/2019	422	0	0	0	0	422	0	0	0	0	0
0	22	WASTE ACTIVATED SLUDGE UPGRADE - CONSTRUCTION	01/01/2016	12/31/2019	36,485	0	0	2,979	0	33,506	0	0	0	0	0
0	25	PELLETIZER TRUCK LOADING FACILITY UPGRADES	01/01/2014	12/31/2019	968	0	0	0	0	968	0	0	0	0	0
0	52	PRIMARY SLUDGE BUFFER TANK AND HEAT RECOVERY	01/01/2019	12/31/2025	50	0	0	0	0	50	0	0	0	0	0
0	53	PELLETIZER FACILITY	01/01/2019	12/31/2028	800	0	0	0	0	800	0	0	0	0	0
0	56	WASTE ACTIVATED SLUDGE UPGRADE - C-CHANGE IN SC	01/01/2019	12/31/2023	-31,485	0	0	-2,239	0	-29,246	0	0	0	0	0
0	57	WASTE ACTIVATED SLUDGE UPGRADE - E-CHANGE IN SC	01/01/2019	12/31/2025	-1,288	0	0	-19	0	-1,269	0	0	0	0	0
0	58	DIGESTERS 9-12 REFURBISH-CHANGE IN SCOPE	01/01/2019	12/31/2023	-12,123	0	0	-715	0	-11,408	0	0	0	0	0
0	59	BIOSOLIDS PELLETIZER RETROFIT-CHANGE IN SCOPE	01/01/2019	12/31/2022	-22	0	0	0	0	-22	0	0	0	0	0
0	60	PELLETIZER TRUCK LOADING FACILITY -CHANGE IN SCO	01/01/2019	12/31/2024	-468	0	0	0	0	-468	0	0	0	0	0
<b>Project Sub-total:</b>					<b>18,060</b>	<b>0</b>	<b>0</b>	<b>2,417</b>	<b>0</b>	<b>15,643</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAS907101 ASHBRIDGES BAY WWTP - O&amp;M UPGRADES</u></b>													
0	5	BOILER #4 DESIGN	01/01/2010	12/31/2019	6	0	0	0	0	6	0	0	0	0	0
0	6	MESI UPGRADES	01/01/2012	12/31/2020	2,962	0	0	0	0	2,962	0	0	0	0	0
0	7	MISC MECH REHAB	01/01/2010	12/31/2019	3,184	0	0	0	0	3,184	0	0	0	0	0
0	38	MISC MECH REHAB-CHANGE IN SCOPE	01/01/2019	12/31/2020	-1,567	0	0	0	0	-1,567	0	0	0	0	0
<b>Project Sub-total:</b>					<b>4,585</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,585</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAS907102 ASHBRIDGES BAY WWTP - ODOUR CONTROL</u></b>													
0	6	BIOFILTERS UPGRADE & REPLACEMENT	01/01/2012	12/31/2019	3,399	0	0	291	0	3,108	0	0	0	0	0
0	13	D BUILDING TREATMENT & BIOFILTER	01/01/2009	12/31/2019	656	0	0	64	0	592	0	0	0	0	0
0	42	D BUILDING TREATMENT & BIOFILTER-CHANGE IN SCOPE	01/01/2019	12/31/2020	-156	0	0	11	0	-167	0	0	0	0	0
0	43	BIOFILTERS UPGRADE & REPLACEMENT-CHANGE IN SCC	01/01/2019	12/31/2021	-907	0	0	83	0	-990	0	0	0	0	0
<b>Project Sub-total:</b>					<b>2,992</b>	<b>0</b>	<b>0</b>	<b>449</b>	<b>0</b>	<b>2,543</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>		<b><u>WAS907104 HUMBER WWTP - LIQUID TREATMENT &amp; HANDLING</u></b>													
0	2	SECONDARY TREATMENT UPGRADES - SOUTH - ENGINEE	01/01/2009	12/31/2027	3,300	0	0	266	0	3,034	0	0	0	0	0
0	19	SECONDARY TREATMENT UPGRADES - SOUTH - CONS	01/01/2015	12/31/2024	23,000	0	0	1,852	0	21,148	0	0	0	0	0
0	28	SECONDARY TREATMENT UPGRADES - SOU-CHANGE IN	01/01/2019	12/31/2027	10	0	0	231	0	-221	0	0	0	0	0

(Phase 2) 11-Wastewater Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2

Type: C Sub-Project Status: S2,S3,S4,S5



**CITY OF TORONTO**

**Appendix 9: 2019 Capital Budget with Financing Detail**

**Wastewater Program**

**Sub-Project Summary**

Project/Financing				2019	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<b>0</b>	<b><u>WAS907104</u></b>	<b><u>HUMBER WWTP - LIQUID TREATMENT &amp; HANDLING</u></b>													
0	29	SECONDARY TREATMENT UPGRADES - SOU-CHANGE IN	01/01/2019	12/31/2024	0	0	0	1,551	0	-1,551	0	0	0	0	0
		<b>Project Sub-total:</b>			26,310	0	0	3,900	0	22,410	0	0	0	0	0
<b>0</b>	<b><u>WAS907105</u></b>	<b><u>HUMBER WWTP - O&amp;M UPGRADES</u></b>													
0	1	GAS COMPRESSOR SYSTEM UPGRADES	01/01/2008	12/31/2019	813	0	0	0	0	813	0	0	0	0	0
0	2	LIQUID STREAM UPGRADES	01/01/2010	12/31/2019	386	0	0	31	0	355	0	0	0	0	0
0	35	LIQUID STREAM UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2019	-386	0	0	-31	0	-355	0	0	0	0	0
0	36	GAS COMPRESSOR SYSTEM UPGRADES-CHANGE IN SC	01/01/2019	12/31/2020	-418	0	0	0	0	-418	0	0	0	0	0
		<b>Project Sub-total:</b>			395	0	0	0	0	395	0	0	0	0	0
<b>0</b>	<b><u>WAS907106</u></b>	<b><u>HUMBER WWTP - ODOUR CONTROL</u></b>													
0	1	ODOUR CONTROL IMPLEMENTATION - PHASE 1	01/01/2013	12/31/2019	766	0	0	69	0	697	0	0	0	0	0
0	15	ODOUR CONTROL IMPLEMENTATION - PHA-CHANGE IN S	01/01/2019	12/31/2027	434	0	0	111	0	323	0	0	0	0	0
		<b>Project Sub-total:</b>			1,200	0	0	180	0	1,020	0	0	0	0	0
<b>0</b>	<b><u>WAS907224</u></b>	<b><u>SEWAGE PUMPING STATION UPGRADES</u></b>													
0	1	SPS UPGRADES	01/01/2011	12/31/2019	2,212	0	0	232	0	1,980	0	0	0	0	0
0	4	SUNNYSIDE AND MARYPORT SPS UPGRADES	01/01/2018	12/31/2024	150	0	0	12	0	138	0	0	0	0	0
0	18	SPS UPGRADES - GROUP 6	01/01/2016	12/31/2024	3,891	0	0	313	0	3,578	0	0	0	0	0
0	26	SPS UPGRADES - GROUP 7	01/01/2012	12/31/2019	4	0	0	1	0	3	0	0	0	0	0
0	34	FACILITY & PROCESS UPGRADES	01/01/2018	12/31/2019	435	0	0	39	0	396	0	0	0	0	0
0	35	SCOTT ST PS & SIMCOE ST PS	01/01/2018	12/31/2022	400	0	0	0	0	400	0	0	0	0	0
0	39	SUNNYSIDE AND MARYPORT SPS UPGRADE-CHANGE IN	01/01/2019	12/31/2024	-150	0	0	-12	0	-138	0	0	0	0	0
0	40	FACILITY & PROCESS UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2025	-60	0	0	16	0	-76	0	0	0	0	0
0	41	SCOTT ST PS & SIMCOE ST PS-CHANGE IN SCOPE	01/01/2019	12/31/2022	51	0	0	0	0	51	0	0	0	0	0
0	42	SPS UPGRADES - GROUP 7-CHANGE IN SCOPE	01/01/2019	12/31/2019	6	0	0	1	0	5	0	0	0	0	0
0	43	SPS UPGRADES - GROUP 6-CHANGE IN SCOPE	01/01/2019	12/31/2024	-1,068	0	0	105	0	-1,173	0	0	0	0	0
0	44	SPS UPGRADES-CHANGE IN SCOPE	01/01/2019	12/31/2020	-1,106	0	0	-66	0	-1,040	0	0	0	0	0
		<b>Project Sub-total:</b>			4,765	0	0	641	0	4,124	0	0	0	0	0
<b>0</b>	<b><u>WAS907559</u></b>	<b><u>DON &amp; WATERFRONT TRUNK CSO</u></b>													
0	1	DON & WATERFRONT TRUNK/CSO PKG 1 - DESIGN	01/01/2013	12/31/2019	10,946	0	0	917	0	10,029	0	0	0	0	0
0	15	DCW - PHASE 1 - ADDITIONAL SCOPE	01/01/2018	12/31/2019	2,850	0	0	229	0	2,621	0	0	0	0	0
0	17	DCW - PH1 - OFFLINE STORAGE TANK SHEPPARD/LESLIE	01/01/2016	12/31/2019	1,340	0	0	118	0	1,222	0	0	0	0	0
0	18	Don & Waterfront Trunk/CSO Construction - PHASE 1	01/01/2018	12/31/2024	80,000	0	0	6,438	0	73,562	0	0	0	0	0
0	24	DON & WATERFRONT TRUNK/CSO PKG 1 --CHANGE IN SC	01/01/2019	12/31/2024	-6,425	0	0	-239	0	-6,186	0	0	0	0	0
0	25	DCW - PHASE 1 - ADDITIONAL SCOPE-CHANGE IN SCOPE	01/01/2019	12/31/2020	-1,716	0	0	-61	0	-1,655	0	0	0	0	0



(Phase 2) 11-Wastewater Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



**CITY OF TORONTO**  
**Appendix 9: 2019 Capital Budget with Financing Detail**  
**Wastewater Program**  
**Sub-Project Summary**

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2019	Financing										
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable	
<b>0 WAS907559 DON &amp; WATERFRONT TRUNK CSO</b>															
0	26 Don & Waterfront Trunk/CSO Constru-CHANGE IN SCOPE	01/01/2019	12/31/2024	3,895	0	0	5,975	0	-2,080	0	0	0	0	0	0
0	27 DCW - PH1 - OFFLINE STORAGE TANK S-CHANGE IN SCOPE	01/01/2019	12/31/2025	-715	0	0	-26	0	-689	0	0	0	0	0	0
<b>Project Sub-total:</b>				<b>90,175</b>	<b>0</b>	<b>0</b>	<b>13,351</b>	<b>0</b>	<b>76,824</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0 WAS907700 NORTH TORONTO WTP UPGRADES</b>															
0	2 NTTP - ELECTRICAL UPGRADES - ECAR	01/01/2012	12/31/2019	3,129	0	0	0	0	3,129	0	0	0	0	0	0
0	10 OPS INTERFACE NTTP	01/01/2016	12/31/2019	200	0	0	0	0	200	0	0	0	0	0	0
0	11 NTTP - PROCESS IMPROVEMENTS	01/01/2016	12/31/2019	5,572	0	0	0	0	5,572	0	0	0	0	0	0
0	15 NTTP - ELECTRICAL UPGRADES - ECAR-CHANGE IN SCOPE	01/01/2019	12/31/2024	-2,430	0	0	0	0	-2,430	0	0	0	0	0	0
0	16 NTTP - PROCESS IMPROVEMENTS-CHANGE IN SCOPE	01/01/2019	12/31/2024	-4,638	0	0	0	0	-4,638	0	0	0	0	0	0
<b>Project Sub-total:</b>				<b>1,833</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,833</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0 WAS908143 Georgetown South City Infrastructure Upgrades</b>															
0	1 GEORGETOWN SOUTH CITY INFRASTRUCTURE UPGRAD	01/01/2015	12/31/2019	5,115	0	0	412	0	4,703	0	0	0	0	0	0
0	9 GEORGETOWN SOUTH CITY INFRASTRUCTU-CHANGE IN	01/01/2019	12/31/2019	0	0	0	4,703	0	-4,703	0	0	0	0	0	0
<b>Project Sub-total:</b>				<b>5,115</b>	<b>0</b>	<b>0</b>	<b>5,115</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0 WASWP003 EMERY CREEK POND</b>															
0	1 EMERY CREEK POND	01/01/2005	12/31/2020	1,097	0	0	89	0	1,008	0	0	0	0	0	0
0	17 EMERY CREEK POND-CHANGE IN SCOPE	01/01/2019	12/31/2020	-549	0	0	-7	0	-542	0	0	0	0	0	0
<b>Project Sub-total:</b>				<b>548</b>	<b>0</b>	<b>0</b>	<b>82</b>	<b>0</b>	<b>466</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0 WASWP050 EQUIPMENT REPLACEMENT &amp; REHABILITATION</b>															
0	78 EQUIPMENT REPLACEMENT	01/01/2012	12/31/2019	10,297	0	0	0	0	10,297	0	0	0	0	0	0
0	137 EQUIPMENT REPLACEMENT-CHANGE IN SCOPE	01/01/2019	12/31/2024	-6,732	0	0	0	0	-6,732	0	0	0	0	0	0
<b>Project Sub-total:</b>				<b>3,565</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,565</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Program Total:</b>				<b>610,113</b>	<b>0</b>	<b>0</b>	<b>62,065</b>	<b>0</b>	<b>548,048</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Status Code Description**  
 S2 S2 Prior Year (With 2019 and/or Future Year Cashflow)  
 S3 S3 Prior Year - Change of Scope 2019 and/or Future Year Cost(Cashflow)  
 S4 S4 New - Stand-Alone Project (Current Year Only)  
 S5 S5 New (On-going or Phased Projects)

**Category Code Description**  
 01 Health and Safety C01  
 02 Legislated C02  
 03 State of Good Repair C03  
 04 Service Improvement and Enhancement C04  
 05 Growth Related C05  
 06 Reserved Category 1 C06  
 07 Reserved Category 2 C07

## Appendix 10

### Inflows and Outflows to/from Reserves and Reserve Funds

#### 2019 Operating Budget

#### Program Specific Reserve / Reserve Funds

Reserve / Reserve Fund Name (In \$000s)	Reserve / Reserve Fund Number	Projected Balance as of Dec. 31, 2018 *	Withdrawals (-) / Contributions (+)		
			2019	2020	2021
		\$	\$	\$	\$
<b>Beginning Balance</b>		<b>18,547.6</b>	<b>16,097.6</b>	<b>10,248.0</b>	<b>5,332.7</b>
Vehicle Replacement Reserve	XQ1012				
<i>Withdrawals (-)</i>		(8,239.3)	(11,638.9)	(10,704.6)	(10,450.1)
<i>Contributions (+)</i>		5,789.3	5,789.3	5,789.3	5,789.3
<b>Total Reserve / Reserve Fund Draws / Contributions</b>		<b>16,097.6</b>	<b>10,248.0</b>	<b>5,332.7</b>	<b>671.9</b>
<b>Balance at Year-End</b>		<b>16,097.6</b>	<b>10,248.0</b>	<b>5,332.7</b>	<b>671.9</b>

\* Based on 9-month 2018 Reserve Fund Variance Report

Reserve / Reserve Fund Name (In \$000s)	Reserve / Reserve Fund Number	Projected Balance as of Dec. 31, 2018 *	Withdrawals (-) / Contributions (+)		
			2019	2020	2021
		\$	\$	\$	\$
<b>Beginning Balance</b>		<b>910,629.3</b>	<b>1,119,149.8</b>	<b>1,252,945.5</b>	<b>919,598.7</b>
Water & Waste Water Capital Reserves	XR6003 & XR6004				
<i>Withdrawals (-)</i>					
- TW Capital Program		(674,914.7)	(734,071.9)	(1,231,498.7)	(1,320,568.5)
- Other		(3,287.5)	(4,252.8)	(7,353.2)	(7,653.3)
<i>Contributions (+)</i>					
- From Operations		882,663.2	867,367.7	901,145.3	923,177.8
- Other: Interest		4,059.6	4,752.7	4,359.8	2,889.4
<b>Total Reserve / Reserve Fund Draws / Contributions</b>		<b>1,119,149.8</b>	<b>1,252,945.5</b>	<b>919,598.7</b>	<b>517,444.1</b>
<b>Balance at Year-End</b>		<b>1,119,149.8</b>	<b>1,252,945.5</b>	<b>919,598.7</b>	<b>517,444.1</b>

\* Based on 9-month 2018 Reserve Fund Variance Report

#### Corporate Reserve / Reserve Funds

Reserve / Reserve Fund Name (In \$000s)	Reserve / Reserve Fund Number	Projected Balance as of Dec. 31, 2018 *	Withdrawals (-) / Contributions (+)		
			2019	2020	2021
		\$	\$	\$	\$
<b>Beginning Balance</b>		<b>35,866.3</b>	<b>40,207.4</b>	<b>44,548.5</b>	<b>48,889.6</b>
Insurance Reserve Fund	XR1010				
<i>Withdrawals (-)</i>					
<i>Contributions (+)</i>		4,341.1	4,341.1	4,341.1	4,341.1
<b>Total Reserve / Reserve Fund Draws / Contributions</b>		<b>40,207.4</b>	<b>44,548.5</b>	<b>48,889.6</b>	<b>53,230.7</b>
<b>Other Program / Agency Net Withdrawals &amp; Contributions</b>					
<b>Balance at Year-End</b>		<b>40,207.4</b>	<b>44,548.5</b>	<b>48,889.6</b>	<b>53,230.7</b>

\* Based on 9-month 2018 Reserve Fund Variance Report

**2019 Operating Budget****Corporate Reserve / Reserve Funds -Continued**

Reserve / Reserve Fund Name (In \$000s)	Reserve / Reserve Fund Number	Projected Balance as of Dec. 31, 2018 *	Withdrawals (-) / Contributions (+)		
			2019	2020	2021
		\$	\$	\$	\$
<b>Beginning Balance</b>		<b>19,294.9</b>	<b>17,935.7</b>	<b>16,580.8</b>	<b>14,917.6</b>
Development Charge Stormwater Management	XR2404 & XR2113				
<i>Withdrawals (-)</i>					
-TW: Operating		(195.0)	(195.0)	(195.0)	(195.0)
-TW: Capital		(1,902.0)	(2,382.0)	(3,039.0)	(5,378.0)
<i>Contributions (+)</i>		737.8	1,222.1	1,570.8	1,693.9
<b>Total Reserve / Reserve Fund Draws / Contributions</b>		<b>17,935.7</b>	<b>16,580.8</b>	<b>14,917.6</b>	<b>11,038.5</b>
<b>Other Program / Agency Net Withdrawals &amp; Contributions</b>					
<b>Balance at Year-End</b>		<b>17,935.7</b>	<b>16,580.8</b>	<b>14,917.6</b>	<b>11,038.5</b>

**2019 – 2028 Capital Budget and Plan****Corporate Reserve / Reserve Funds**

Reserve / Reserve Fund Name (In \$000s)	Project / Sub Project Name and Number	Projected Balance as at Dec 31, 2018 *	Contributions / (Withdrawals)										
			2019 Budget	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	Total
Water DC Reserve Fund XR2111 DC - Water (2011)	Beginning Balance	53,136	66,511	65,828	62,669	63,634	84,934	108,694	133,797	159,432	183,630	208,963	
	<i>Withdrawals (-)</i>												
	DIST W/M REPLACEMENT		(17,756)	(13,881)	(5,831)	(140)	(414)						(38,022)
	DISTRICT WATERMAINS - NEW		(10)	(500)	(500)	(500)	(500)	(500)	(500)	(500)	(500)	(500)	(4,510)
	HORGAN TRUNK MAIN EXPANSION		(1,000)	(1,100)	(1,900)	(700)	(700)	(700)	(345)	(35)			(6,480)
	HORGAN W.T.P. EXPANSION					(28)							(28)
	ISLAND W.T.P. R&R		(4)	(134)	(2,219)	(2,663)	(1,095)						(6,115)
	LAWRENCE ALLAN REVITALIZATION PLAN		(3,300)	(6,092)	(7,542)	(1,016)							(17,950)
	PW ENGINEERING		(393)	(603)	(483)	(515)	(546)	(505)	(380)	(220)	(119)	(119)	(3,883)
	REGENT PARK CAPITAL CONTRIBUTION		(542)	(1,416)	(1,421)	(51)	(71)	(40)					(3,541)
	RL CLARK W.T.P. R&R		(1,139)	(694)	(9)	(5)							(1,847)
	TRANSMISSION R&R		(2)	(165)									(167)
	TRUNK WATERMAIN EXPANSION		(3,426)	(5,837)	(5,753)	(4)							(15,020)
	PROGRAM		(495)	(706)	(603)	(607)	(687)	(520)	(520)	(520)	(520)	(520)	(5,698)
	WATER SUSTAINABILITY PROGRAM		(467)	(910)	(565)	(414)	(1)						(2,357)
	WT&S PLANTWIDE		(176)	(493)	(546)	(439)	(484)	(891)	(941)	(1,073)	(350)	(5)	(5,398)
	Total Withdrawals		(15,729)	(28,710)	(32,531)	(27,372)	(7,082)	(4,498)	(3,156)	(2,686)	(2,348)	(1,489)	(1,144)
<i>Contributions (+)</i>													
Projected Contributions		29,104	28,027	29,372	28,337	28,382	28,257	28,259	28,322	26,546	26,821	27,358	279,681
<b>Total Contributions</b>		<b>29,104</b>	<b>28,027</b>	<b>29,372</b>	<b>28,337</b>	<b>28,382</b>	<b>28,257</b>	<b>28,259</b>	<b>28,322</b>	<b>26,546</b>	<b>26,821</b>	<b>27,358</b>	<b>279,681</b>
<b>Other Program/Agency Net Withdrawals and Contributions</b>													-
<b>Balance at Year-End</b>		<b>66,511</b>	<b>65,828</b>	<b>62,669</b>	<b>63,634</b>	<b>84,934</b>	<b>108,694</b>	<b>133,797</b>	<b>159,432</b>	<b>183,630</b>	<b>208,963</b>	<b>235,177</b>	<b>168,665</b>

\* Based on 9-month 2018 Reserve Fund Variance Report

**2019 – 2028 Capital Budget and Plan**

**Corporate Reserve / Reserve Funds - Continued**

Reserve / Reserve Fund Name (In \$000s)	Project / Sub Project Name and Number	Projected Balance as at Dec 31, 2018 *	Contributions / (Withdrawals)										Total
			2019 Budget	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	
Sanitary Sewer DC Reserve Fund	Beginning Balance	52,602	58,305	33,444	(12,967)	(66,234)	(87,765)	(118,760)	(144,094)	(170,757)	(191,501)	(213,133)	
XR2026 DC - Sewer (2004)	Withdrawals (-)												
XR2112 DC - Sewer (2009)	ASHBRIDGES BAY T.P. YR2006		(15)										(15)
	ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM		(11,126)	(17,255)	(18,956)	(14,777)	(7,282)	(3,147)	(624)	(10)			(73,177)
	ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING		(4,705)	(12,840)	(14,629)	(15,099)	(12,169)	(26,629)	(34,141)	(8,672)	(10,647)	(10,584)	(150,115)
	ASHBRIDGES BAY WWTP - ODOUR CONTROL		(449)	(263)	(11)								(723)
	ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING		(2,417)	(8,069)	(9,020)	(7,221)	(6,526)	(15)	(31)				(33,299)
	ASHBRIDGES BAY WWTP REHAB		(1,049)	(458)	(34)								(1,541)
	ASHRIDGES BAY TP YR2005		(47)	(68)	(5)	(1)							(121)
	BASEMENT FLOODING RELIEF DIST SEWER REHAB OPS YR2005		(10,577)	(20,859)	(21,386)	(14,587)	(22,332)	(22,337)	(21,374)	(32,417)	(14,114)	(17,725)	(197,708)
	DON & WATERFRONT TRUNK CSO		(2)	(3)									(5)
	(13,351)	(13,484)	(12,645)	(3,583)	(11,784)	(8,093)	(9,052)	(16,180)	(32,064)	(25,516)			(145,752)
	Georgetown South City Infrastructure Upgrades		(5,115)										(5,115)
	HIGHLAND CREEK WWTP - ODOUR CONTROL		(799)	(574)	(317)	(8)	(8)	(3)	(59)	(148)	(962)	(1,672)	(4,550)
	HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING		(1,191)	(977)	(1,814)	(3,358)	(3,995)	(4,291)	(3,845)	(2,232)	(22)	(43)	(21,768)
	HIGHLAND CREEK WWTP UPGRADES		(39)	(166)	(74)								(279)
	HUMBER TP YR2005		(114)	(42)									(156)
	HUMBER WWTP - LIQUID TREATMENT & HANDLING		(3,900)	(4,060)	(4,376)	(2,265)	(3,398)	(1,562)	(224)	(764)	(4,842)	(5,179)	(30,570)
	HUMBER WWTP - ODOUR CONTROL		(180)	(360)			(83)				(83)		(706)
	NEW SEWER CONSTRUCTION SEWAGE PUMPING STATION UPGRADES		(725)	(5,758)	(13,401)	(3,670)	(6,924)	(2,465)	(1,524)	(1,349)	(1,000)	(1,000)	(37,816)
	SEWER ASSET PLANNING		(641)	(1,101)	(1,523)	(3,070)	(2,499)	(1,864)	(992)	(1,247)	(629)		(13,566)
	SEWER REPLACEMENT PROGRAM		(429)	(1,033)	(942)	(857)	(769)	(584)	(553)	(553)	(538)	(538)	(6,796)
	SEWER SYSTEM REHABILITATION		(1,811)	(2,019)	(559)	(41)	(32)	(1,153)	(1,153)	(1,153)	(1,153)	(1,153)	(10,227)
	SWM END OF PIPE FACILITIES		(986)	(840)	(263)								(2,089)
			(15)	(96)	(244)								(355)
	Total Withdrawals	(16,859)	(59,683)	(90,325)	(100,199)	(68,537)	(77,801)	(72,143)	(73,572)	(64,725)	(66,054)	(63,410)	<b>(736,449)</b>
	Contributions (+)												
	Projected Contributions	22,562	34,822	43,914	46,932	47,006	46,807	46,808	46,910	43,981	44,422	45,311	<b>446,912</b>
	Total Contributions	22,562	34,822	43,914	46,932	47,006	46,807	46,808	46,910	43,981	44,422	45,311	<b>446,912</b>
	Other Program/Agency Net Withdrawals and Contributions												-
	<b>Balance at Year-End</b>	<b>58,305</b>	<b>33,444</b>	<b>(12,967)</b>	<b>(66,234)</b>	<b>(87,765)</b>	<b>(118,760)</b>	<b>(144,094)</b>	<b>(170,757)</b>	<b>(191,501)</b>	<b>(213,133)</b>	<b>(231,232)</b>	<b>(289,537)</b>

\* Based on 9-month 2018 Reserve Fund Variance Report

Reserve / Reserve Fund Name (In \$000s)	Project / Sub Project Name and Number	Projected Balance as at Dec 31, 2018 *	Contributions / (Withdrawals)										Total
			2019 Budget	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	
Storm Water Management DC Reserve Fund	Beginning Balance	19,295	18,131	16,971	15,503	11,819	9,930	11,339	12,419	12,915	10,834	5,903	
XR2113 DC - SWM (2009)	Withdrawals (-)												
XR2404 DC - SWM (2004)	EMERY CREEK POND		(82)	(87)									(169)
	Land Acquisition for Source Water Protect		(118)										(118)
	STREAM RESTORATION & EROSION CONTROL		(185)	(346)	(287)	(126)	(100)	(85)	(74)	(74)			(1,277)
	SWM TRCA FUNDING		(674)										(674)
	SWM END OF PIPE FACILITIES		(160)	(447)	(1,689)	(1,597)	(49)	(46)	(648)	(3,504)	(6,445)	(9,544)	(24,129)
	RETROFIT		(533)	(1,327)	(2,952)	(1,686)	(7)						(6,505)
	WET WEATHER FLOW MP		(630)	(832)	(450)	(176)	(124)	(479)	(475)	(90)	(90)	(90)	(3,436)
	Total Withdrawals	(1,902)	(2,382)	(3,039)	(5,378)	(3,585)	(280)	(610)	(1,197)	(3,668)	(6,535)	(9,634)	<b>(36,308)</b>
	Contributions (+)												
	Projected Contributions	738	1,222	1,571	1,694	1,696	1,689	1,689	1,693	1,587	1,603	1,635	<b>16,081</b>
	Total Contributions	738	1,222	1,571	1,694	1,696	1,689	1,689	1,693	1,587	1,603	1,635	<b>16,081</b>
	Other Program/Agency Net Withdrawals and Contributions												-
	<b>Balance at Year-End</b>	<b>18,131</b>	<b>16,971</b>	<b>15,503</b>	<b>11,819</b>	<b>9,930</b>	<b>11,339</b>	<b>12,419</b>	<b>12,915</b>	<b>10,834</b>	<b>5,903</b>	<b>(2,096)</b>	<b>(20,227)</b>

\* Based on 9-month 2018 Reserve Fund Variance Report