



**City of Hamilton**  
**GENERAL ISSUES COMMITTEE**  
**AGENDA**

**Meeting #:** 20-020  
**Date:** November 23, 2020  
**Time:** 9:30 a.m.  
**Location:** Council Chambers, Hamilton City Hall  
71 Main Street West

Stephanie Paparella, Legislative Coordinator (905) 546-2424 ext. 3993

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# INFORMATION REPORT

<b>TO:</b>	Chair and Members General Issues Committee
<b>COMMITTEE DATE:</b>	November 23, 2020
<b>SUBJECT/REPORT NO:</b>	Alectra Utilities Water, Wastewater and Storm 2020 Service Activity Report (FCS20072) (City Wide)
<b>WARD(S) AFFECTED:</b>	City Wide
<b>PREPARED BY:</b>	John Savoia (905) 546-2424 Ext. 7298
<b>SUBMITTED BY:</b>	Brian McMullen Director, Financial Planning, Administration and Policy Corporate Services Department
<b>SIGNATURE:</b>	

## COUNCIL DIRECTION

Not applicable.

## INFORMATION

Alectra Utilities Corporation (“Alectra Utilities”) has been providing water and wastewater / storm account management and billing services to the City of Hamilton (“City”) since December 2001 with a renewed service agreement executed in June 2020 extending terms to December 31, 2024 (for details refer to FCS19095(a)). The budgeted cost of these services for 2020 is \$5.6 M. Costs are adjusted annually based on the terms of the service agreement, growth in customer accounts and for the City’s 50% share of any postal rate increases that may occur from time to time.

Appendix “A” to Report FCS20072 provides a report of the service activities provided by Alectra Utilities during 2020.

## APPENDICES AND SCHEDULES ATTACHED

Appendix “A” to Report FCS2072 – Water and Wastewater / Storm – 2020 Service Activity Report to the City of Hamilton – October 2020

JS/dt



# **2020 Water and Wastewater / Stormwater Services Activity Report to the City of Hamilton**

October 2020

Shelley Parker



## **2020 in Review**

Alectra Utilities Corporation ("Alectra") services approximately one million homes and businesses across an 1,800 square kilometre service territory comprising seventeen communities. Our mission is to be the energy ally that our customers expect us to be. We are equipped to help our communities discover the possibilities that energy conservation and new technologies can have on enhancing the quality of life in the communities we serve

Alectra and its predecessor Horizon Utilities Corporation ("Horizon Utilities") has been providing water and wastewater/storm account management and billing services to the City of Hamilton ("City") since December 2001. Billing, payment and related customer services are provided to 155,000 water and wastewater/storm customers. Approximately 32,100 customers receive a stand-alone water/wastewater/storm invoice due to the customer premise being located within the City of Hamilton, but not within Alectra's electricity distribution service territory.

Alectra also provides water billing services to the municipalities of Guelph, Markham and Vaughan, serving a total of 410,000 water customers with combined electricity and water billing and related customer services.

In June 2020, Alectra and the City extended their water services related contractual relationship through to December 31, 2024. During the negotiations in December 2019, the City had raised a concern that Alectra had a privacy breach of customer information. In response to the concerns, Alectra completed an investigation which confirmed that a breach of customer data did not occur and provided a letter of explanation to customers with their bills. As a result, the Renewal Agreement not only includes minor changes to service provisions but enhanced language regarding confidentiality and privacy.

To further improve the customer experience, Alectra launched its new Contact Centre Solution in January 2020. This new omni-channel application is web based and replaces the legacy IVR systems which helps enable seamless customer support over voice, email, social media platforms, and self-service channels. Customers can now reach Alectra's Customer Care team at 1-833-ALECTRA.

In February and March 2020, Alectra complied with Ontario Energy Board regulation changes aimed at standardizing electricity services in Ontario and to ease payment pressures on consumers. This resulted in increased payment timelines for City of Hamilton water customers on Alectra's combined bill as the Due Date was increased from 19 days to 23 days from the date of bill issuance.

As a result of the COVID-19 pandemic, Alectra enacted its Emergency Operations Plan on March 20, 2020. Enacting Alectra's Emergency Operations Plan focuses the organization on safely delivering essential services to our communities including Control Room Operations, Emergency Response Crews and select teams that support emergency field operations. In parallel, Customer Service enacted its Business Continuity Plans, deploying teams to work from home on critical activities of billing, payments and customer support. Alectra lifted its Emergency Operations status in June, with line and metering crews returning to field work utilizing new health and safety protocols while the majority of Alectra's office employees continued to work from home.

In May 2020, Council approved interest free loans to cover the cost of private lead service line replacements for low-income homeowners. Alectra ensures that low-income customers that have qualified for other programs including Ontario Electricity Support Program ("OESP") or the Low Income Energy Assistance Program ("LEAP") are made aware of the City's enhanced support program.

In accordance with Council approved water billing policy changes effective June 2018, Alectra Utilities continues to transfer residential accounts into the registered property owner's name as tenants vacate properties. Property owners benefit through opportunities to save interest and administrative costs related to tenant arrears being transferred to the tax roll as well as having the ability of identifying and responding to potential leaks at their rental property. Alectra transitioned 2,500 accounts in 2020 to the property owners. Approximately 6,500 tenant-billed water accounts remain active.

In September, Alectra began piloting new Robotic Process Automation technology that uses "bots" to review and manage certain meter read exceptions. The bots are capable of issuing field activities and triggering customer notifications where required. Once fully operational, this automation can be expanded to increase customer outreach when customers are experiencing higher or lower water consumption than normal.

Alectra is following the City's new Water and Wastewater / Stormwater Backbilling Policy which came into effect in September. The Policy details how back billings are to be managed under various scenarios and clearly sets expectations for customers.

Alectra has added a Wastewater Abatement Account Arrears Report for the City. This new report commenced in October.

## **Pandemic Response**

Throughout the pandemic, Alectra has worked to meet the health and safety expectations of our employees and communities, support customers facing financial challenges, and meet time-sensitive pandemic-related regulatory requirements.

This includes:

- Implementation of new health and safety processes for employees as well as "Work from Home" and "Return to Work" protocols;
- Implementing a customer-focused approach for families and businesses facing financial challenges as a result of COVID-19, which includes:
  - Waiving of Late Payment Charges for residential and small business electricity customers from April 15, 2020 to August 30, 2020;
  - Waiving of Late Payment Charges to water, wastewater and stormwater customers from April 15, 2020 to August 30, 2020;
  - Committing to residential customers that electric service disconnections for non-payment of account will not occur in 2020;

- Introducing a multi-channel communication strategy for small and larger businesses customers to connect with the goal of establishing reasonable payment plans that are manageable; and
- Revising Alectra's Customer Credit Policy to enable security deposits held on commercial accounts to be applied towards arrears. The security deposits will be reapplied over future bills.
- Delivering upon the Government of Ontario's mandate for changes to electricity rates and support programs to provide financial relief to consumers:
  - Fixing Time-of-Use rates at the off-peak rate for all hours of the day (March);
  - Deferring a portion of the Global Adjustment charges for larger commercial and industrial customers (May);
  - Implementing a COVID-19 Energy Assistance Program to qualifying residential customers. Alectra has \$0.98MM available to disperse (July);
  - Implementing a COVID-19 Energy Assistance Program – Small Businesses to qualifying small businesses. Alectra has \$0.87MM available to disperse (August);
  - Instituting Time-of-Use / Tiered rate optionality which allows residential and small business customers to choose the electricity rates that is most beneficial to their circumstances (October); and,
  - Complying with upcoming regulation to provide financial relief to small businesses impacted by the pandemic. Details about the program are expected in November.

Despite the challenges presented by the pandemic, Alectra's Contact Centre remained open to support customers. A "virtual" Contact Centre was quickly established, and most agents were provided with the technology and tools to work from home within thirty days. Agents were provided with key messaging regarding the City of Hamilton's pandemic response and assisted in spreading awareness about available financial support mechanisms.

## 2020 Service Overview

In 2020, Alectra's suite of services for the City included:

- Meter reading
- Bill calculation, printing, mailing and electronic bill presentment options (paperless e-billing)
- Customer notifications
- Full customer call support, responses to inquiries and liaison between the customer and the City for escalated concerns including high consumption inquiries related to seasonal usage
- Oversight and administration of City procedures and programs relating to water and wastewater/storm services such as the Leak Adjustment Policy
- Payment processing
- Account collections including the administration of payment arrangements
- Customer web access to account information including account status and consumption information
- Monthly and annual statistical reporting
- Ad-hoc reporting upon request
- Completion of work orders; issuing service orders to Hamilton Water
- Transfers of water and wastewater/stormwater arrears to property tax roll

- Billing, invoicing, payment processing and management of Sewer Discharge Permits
- Billing and collection of loans related to the City's Lead Water Service Line Replacement Loan Program (as of May 2019)
- Managing Energy & Water Reporting and Benchmarking (EWRB) legislative reporting requirements for customers

In addition to the operational functions provided by Alectra to the City, Alectra also strives to bring value-added expertise and partnership through the support and delivery of other initiatives.

## **Meter Reading and Billing**

The foundation of customer billing services is the receipt of accurate and timely invoices. Alectra Utilities manages its meter read schedules daily to ensure that water meter reads are available to support monthly water and wastewater/storm billing for all customer types.

Alectra Utilities and the City strive to obtain actual meter readings for billing. Where an actual reading cannot be obtained, the account is billed to an estimated reading based on the account's historical usage. Meter read request cards that alert customers an actual reading was not obtained are left at the property. Estimated reads are clearly identified on the customer's bill. Meter reads may be provided by calling Alectra Utilities Customer Service department, utilizing our automated Interactive Voice Response ("IVR") telephone system, sending a digital picture of their meter read via an email, or completing a form on the Alectra Utilities website. If three consecutive meter reading estimates occur, a separate notification letter and an automated IVR outbound call are provided as additional customer communications.

As a result of the pandemic, many schools and businesses were closed, rendering the meters inaccessible. Approximately 30,000 accounts have had estimated meter reads due to the current pandemic. Alectra will re-bill customers if the estimated meter read varies significantly from the actual meter read.

Electronic "smart" water meters have been installed in hard-to-reach locations and are read through Alectra's wireless telecommunications. Currently more than 600 electronically read water meters have been installed.

In 2019, Alectra began managing some aspects of the City's Lead Water Service Line Replacement Loan Program. This includes the billing and collection of loans provided to residential property owners who apply for the program. Previously, these loans were collected via the property owner's taxes. In 2020, the program continued to expand, and more than two hundred customers are now billing their loan repayment amount on their water bill. There has been a favourable response to Alectra billing the loan repayments as property owners find it easier to manage a monthly loan repayment with their water bill versus annual repayments through their property taxes.

Alectra's Customer Information System ("CIS") supports billing for a range of fees and charges required by the City including metered rates, various non-metered rates and fixed charges based on meter size. Complex billing scenarios such as water haulers, master/satellites, seasonal meters, compound meters

and electronic read water meters are all also managed within the CIS. Invoicing of the City's Wastewater Abatement Program, Private Fire Line user fees, Sewer Discharge Permit fees, back-billings and various Hamilton Water service charges are also applied through the CIS.

Note that the City's meter replacement and meter maintenance programs were put on hold due to COVID-19 protocol considerations.

### Meter Reading and Billing Statistics

	2020	2019	2018	2017	2016
	Forecasted	Actual	Actual	Actual	Actual
Number of Invoices	<b>1,870,000</b>	1,865,340	1,794,337	1,503,629	963,699
Revenue	<b>\$234 MM</b>	\$223.0MM	\$206.3MM	\$199.5MM	\$195.4MM
Meter Reads	<b>1,788,000</b>	1,662,759	1,624,330	1,453,956	945,125
Meter Read Success Rate	<b>96%</b>	95%	95%	96%	95%
New Accounts Created	<b>1,600</b>	2,941	2,818	1,645	2,235
"Estimated Account" Letters	<b>3,600</b>	7,620	13,907	15,380	10,842
Touchpad "not working" Service Orders	<b>240</b>	879	2,554	2,735	1,553
Service Orders to relocate remote touchpad	<b>60</b>	278	625	446	302
<b>Customers transitioned to monthly billing in 2017.</b>					

Reporting and controls are in place and monitored as part of our daily operations.

### Customer Service and Communications

Alectra's mission is to be an ally that our customers can rely on. For our Contact Centre, this is further defined by being "easy to do business with", solutions oriented, and appreciative of our customers. Our Contact Centre's daily goal is to meet or exceed its target of answering 75% of all in-bound calls within 30 seconds. In addition to telephone calls, Alectra's agents respond to requests received through email, its website, social media, self-service portals and the Alectra after-hours voice mailbox.

All interactions with our customers promote electronic payment methods and ebilling solutions as one of our value-added services.

Alectra's website has a section dedicated to water and wastewater/storm services and customer education including:

- Water and wastewater/storm billing explanations
- Understanding your water bill
- Water and wastewater/storm rates
- How to read a water meter
- Things you need to know before buying a home or going away
- Information regarding the City's Water Account Privacy Statement
- Information regarding various billing policies including the City's Arrears Policy, Backbilling Policy, Payment Arrangement Policy and Water Leak Adjustment Policy

- Information detailing who is responsible for water and wastewater/storm charges
- Information regarding Private Fire Line Charges and Sewer Discharge Permit Charges
- Water and wastewater/storm service user fees
- Frequently asked questions
- Water saving tips

Customers can access Alectra’s My Account which is a secure portal to view their bills, understand historical water consumption and utilize account management features such as the paperless billing option.

The Customer Care team is knowledgeable about the billing and payment services that Alectra provides, including all components of water and wastewater/storm account management.

The Contact Centre responds to queries such as:

- Notification of a change of address
- Requests to discuss payment options
  - Pre-authorized payments
  - Equal payment plans
- Queries about how rates and charges are calculated
- Payment arrangement options
- The City's Water Leak Adjustment Policy and related procedure
- Transfer of water/wastewater/storm arrears to the property tax roll
- Meter reading access issues
- Inquiries about high usage (including the provision of leak identification education) and meter accuracy inquiries

The Customer Information System provides variance reporting to ensure that bills are within a normal tolerance that supports the administration of the High Water Read Notification Program.

Residential customers are contacted by telephone before receiving a higher than normal bill to be advised that their bill has been calculated to be more than 175% greater than their norm (this notification trigger is lowered to 150% during the months of November to April). This timely notification allows customers to identify abnormally high water use, which assists with the identification of leaks and allows for corrective actions. Many customers had increased water consumption due to the record breaking dry summer temperatures as well as families isolating or working from home.

Timely customer communication supports positive customer relations. City bill inserts are included with invoices to advise customers of rate schedule changes or policy modifications. Additionally, special mail-outs can be coordinated for the City as requested.

The City’s seventh annual newsletter was provided to residential customers as a bill insert accompanying their fall water bills. The insert provides information regarding the significant upgrades to the Woodward Avenue Wastewater Treatment Plant, prevention of pollutants being discharged into toilets and catch basins, the availability of the Service Line Warranties of Canada (“SLWC”) program, and more. Additionally, Alectra also included billing inserts regarding the City’s annual rate increases in January.

Alectra’s Contact Centre remained open to serve customers despite the pandemic constraints through its transition to a work from home model, which was anchored by its new Contact Centre software system. In 2020, the number of customer calls answered within 30 seconds is anticipated to be 5% below Alectra’s target of 75%. The lower than normal result is due to the unprecedented pandemic requirements which included transitioning employees to work from home, the implementation of new technology to support at home Contact Centre agents, pandemic-related resource constraints, and exceptionally high call volumes due to increased consumption.

**Customer calls answered within 30 seconds:**

	2020 Forecast	2019 Actual	2018 Actual	2017 Actual	2016 Actual
Incoming Calls	70%	76%	79%	77%	82%

The complexity of customer calls also continues to increase. Alectra’s Customer Service Representatives (“CSR’s”) are having fulsome conversations with customers to understand their inquiry while ensuring the customer is receiving the information they need during the first interaction. In our most recent survey, 85% of our customers surveyed responded that their query or request was satisfied in a single call to the Contact Centre.

**Payment Options and Collection Services**

Alectra offers a variety of payment options tailored to each customer’s unique needs. Customer payment options include:

- Automatic pre-authorized payment plans
- Equal monthly payment plans
- Cheque, money order, or bank withdrawal from most financial institutions
- Telephone banking
- Internet banking
- Credit Card Payment (with a Convenience Fee)

The Municipal Act, 2001, allows unpaid water and wastewater fees and charges to be placed on the City of Hamilton tax roll for the property to which the public utility was supplied, irrespective of who the consumer or account holder may be or have been.

In accordance with the City's Water/Wastewater Arrears Policy and in order to assist property owners who direct water and wastewater/storm billings to a tenant, Alectra endeavors to notify property owners of tenant/account holder arrears at 30 calendar days beyond the due date. If the account remains unpaid, the water/wastewater/storm arrears will be added to the property’s tax roll when the account is 60 calendar days beyond the due date. Alectra manages the process of electronically transferring the outstanding fees and charges related to active and final billed accounts to the property tax roll.

## Payment Information Options

	2020 Forecasted	2019 Actual	2018 Actual	2017 Actual	2016 Actual
Water/Wastewater accounts on Pre-Authorized Payment **	49,700	40,794	40,044	39,215	38,020
Percentage of customers on Pre-Authorized Payment	32%	26%	26%	26%	26%
Water/Wastewater on Equal Payment Plan	9,800	8,524	8,911	9,049	9,124
30 day Notification Letters sent	52,600	54,415	56,583	56,006	40,402
Number of Accounts Transferred to Tax Roll	19,500	20,151	15,875	11,681	6,221
Arrears Value	\$3,830,000	\$4,230,069	\$3,038,740	\$2,266,225	\$1,480,000

## Administration and Management of City Programs and Special Requests

**Arrears Certificates:** Upon request from a solicitor, water and wastewater/storm arrears certificates are sent advising of any outstanding charges that remain at the time of closing for real estate transactions.

**Service Orders:** Alectra Utilities processes a variety of service orders from Hamilton Water's Customer Service and Community Outreach section related to activities such as new meter installations, meter replacements and account transfers.

**High Water Read Notification Program:** On behalf of the City, Alectra provides notification to account holders who experience higher than average historical water consumption. This timely notification provides customers the opportunity to identify and repair any leaks or identify usage that would affect the amount of water consumed.

**Water Leak Adjustment Policy:** The City of Hamilton's Water Leak Adjustment Policy provides residential, not-for-profits and institutional customers who utilize City of Hamilton water services with financial assistance under certain circumstances. The Policy provides a one-time opportunity for customers to request adjustments to water/wastewater/storm charges where repair(s) of water leaks within private property occurs, excluding any water leaks in the water service pipe.

Customers may request adjustments to water and wastewater/storm charges by completing a Water Leak Adjustment Request form (available on the Alectra Utilities website) and submitting it to the Alectra's Customer Service department. Any adjustments greater than \$500 require City review and approval.

**Billing of Seasonal Accounts:** Reads and their related work orders completed by the City are forwarded to Alectra Utilities twice per year and the information is used to reconcile seasonal accounts.

**Billing of Sewer Discharge Permits:** On a quarterly basis, Alectra bills sewer discharge permits with the City's annual budget for these revenues of almost \$9.4MM. Monthly reporting of unpaid accounts is forwarded to the City for tracking purposes.



## Program Management Information

	2020 Forecast	2019 Actual	2018 Actual	2017 Actual	2016 Actual
Water/Wastewater Arrears Certificates	N/A	N/A	4,215	4,685	4,488
Service Orders Completed	21,300	21,877	13,559	12,389	13,259
High Water Notification Letters	22,000	34,642	12,340	9,844	10,403
Leak Adjustment Request Forms Received	55	53	41	90	106
Leak Adjustment Credits applied to accounts	\$24,000	\$26,768	\$66,930	\$55,700	\$49,700

## Reporting

Alectra has reporting to manage the water and wastewater/storm billing activities including exception handling. A variety of statistical and summary reports are sent to the City each month to enable analysis and program oversight, including:

- Monthly billing detail report
- Adjustments detail report
- Leak Adjustments summary
- Wastewater Abatement summary
- Non-metered account listing
- Large water user billing report
- Meter read accuracy report
- Rate types and meter size
- Sewer Discharge Permit billing report
- Fire Line Services
- Summary of aging arrears and current account receivables
- Revenue report by rate class
- Trial balance for all account receivable transactions
- Adjustments by type

Energy & Water Reporting and Benchmarking (EWRB) legislative regulations require property owners that have facilities greater than 100,000 square feet to report annual energy and water consumption and performance data to the Ontario Ministry of Energy. Alectra provides both electric and water consumption information to our customers for them to comply with the mandatory reporting for these large buildings. In 2020, Alectra provided EWRB information to approximately 75 large customers and condominium corporations.

## **Looking Ahead to 2021**

- In partnership with the City, develop Key Performance Indicators to establish incremental measurements and standards / targets
- Planned transition of the City of Guelph Customer Information System to Alectra's CIS platform (completion target Q3 2022)
- Development of automated "Smart Forms" with improved digital engagement platforms to enable increased opportunities for customers to self-serve and further digital relationships
- Continued promotion of ebilling as a convenient option for our customers
- Ongoing coordination with the provincial government and local communities to provide customers with support as part of our COVID-19 response.

# Alectra Utilities' Water Service Activity Report

November 2020

Linus Medelis, Acting Vice-President, Customer Service

## About Alectra

Map of Alectra's service territory



 Alectra service territory

- Canada's largest municipally-owned LDC delivering 22% of Ontario's electricity across 2,200 km<sup>2</sup> in the Greater Golden Horseshoe
- We provide water billing services to the municipalities of Guelph, Hamilton, Markham and Vaughan; serving approximately 410,000 water customers.
- In Hamilton, Alectra Utilities provides billing, payment and related customer services to 155,000 water/wastewater/storm customers.
- Approximately 32,100 customers receive a stand-alone water/wastewater/storm invoice.

## COVID-19

- In March, Customer Service enacted its Business Continuity Plans, deploying teams to work from home on critical activities of billing, payments and customer support
- In May 2020, Council approved interest free loans to cover the cost of private lead service line replacements for low-income homeowners
- Alectra lifted its Emergency Operations status in June, with line and metering crews returning to field work utilizing new health and safety protocols while the majority of Alectra's office employees continued to work from home
- Alectra worked with city staff to waive Late Payment Charges for water, wastewater and stormwater customers from April 15, 2020 to August 30, 2020



# Customer Experience

## Service highlights

- Alectra's service contract provides for a number of services for the city. This includes:
  - Meter Reading
  - Billing, Bill Collection and A/R
  - Customer Service and Customer Call support
  - Online Service portal with access to account and consumption information
  - And many more



## Service activity highlights (2020 forecasted/2019 actual)

	2020	2019
# of Accounts Created	1,600	2,941
Arrears Notices	52,600	54,415
# of Arrears Transferred	19,500	20,151
Arrears Value	\$3,830,000	\$4,230,069
% of customers on pre-authorized payment	32%	26%
Meter Read Success Rate	96%	95%
Leak Adjustments	55	53
High Water usage notifications	22,000	34,642



## Tracking and Reporting

- A variety of statistical and summary reports are sent to the City each month to enable analysis and program oversight.
- Alectra provides both electric and water consumption information to our customers for them to comply with the mandatory Energy & Water Reporting and Benchmarking (EWRB) reporting for these large buildings.
  - In 2020, Alectra provided EWRB information to approximately 75 large customers and condominium corporations in Hamilton.



# Privacy

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- Alectra signed a new 5-year agreement with the City through to December 2024.
- During renewal negotiations in December 2019, the City had raised a concern that Alectra had a privacy breach of customer information. In response to the concerns, Alectra completed an investigation which confirmed that a breach of customer data did not occur and provided a letter of explanation to customers with their bills.
- As a result, the Renewal Agreement not only includes minor changes to service provisions but enhanced language regarding confidentiality and privacy.



What's Next?

## Looking ahead

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- In partnership with the City, Alectra will develop Key Performance Indicators to establish incremental measurements and standards / targets
- Alectra is also developing automated “Smart Forms” with improved digital engagement platforms to enable increased opportunities for customers to self-serve and further digital relationships
- Continued promotion of e-billing as a convenient option
- Ongoing coordination with the provincial government and local communities to provide customers with support as part of our COVID-19 response



# Looking Ahead

- Alectra continues to make investments in Hamilton (\$53M in 2020) to improve reliability and efficiency for residents throughout the city.
- A New Outage Management System (OMS), to be released in 2021, will share timely information regarding outages to stakeholders and customers
  - This is part of a significant investment across Alectra to improve the customer experience
- Amalgamating the City of Guelph's CIS platform to Alectra's platform



Questions?



**CITY OF HAMILTON**  
**CORPORATE SERVICES DEPARTMENT**  
**Financial Planning, Administration and Policy Division**

<b>TO:</b>	Chair and Members General Issues Committee
<b>COMMITTEE DATE:</b>	November 23, 2020
<b>SUBJECT/REPORT NO:</b>	2021 Recommended Water, Wastewater and Stormwater Budget (FCS20073) (City Wide)
<b>WARD(S) AFFECTED:</b>	City Wide
<b>PREPARED BY:</b>	John Savoia (905) 546-2424 Ext. 7298 Tran Trang (905) 546-2424 Ext. 4371
<b>SUBMITTED BY:</b>	Mike Zegarac General Manager, Finance and Corporate Services Corporate Services Department
<b>SIGNATURE:</b>	

## RECOMMENDATIONS

- (a) That the metered water consumption charges for average residential properties (meters up to 21mm in size) in the City of Hamilton be imposed at the following rates, effective January 1, 2021:

Monthly Water Consumption (m3)	Rate (\$/m3)
0 – 10	0.85
10 +	1.70

- (b) That the metered water consumption charge for commercial, industrial, institutional and larger residential properties (meters = >25mm in size) in the City of Hamilton be imposed at the rate of \$1.70 per cubic metre, effective January 1, 2021;
- (c) That daily water fixed charges for all properties in the City of Hamilton be imposed at the following rates, effective January 1, 2021:

**SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget  
(FCS20073) (City Wide) – Page 2 of 31**

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Meter Size	Daily Water Rate
15 mm	\$0.38
16 mm	\$0.38
20 mm	\$0.38
21 mm	\$0.38
25 mm	\$0.95
38 mm	\$1.90
50 mm	\$3.04
75 mm	\$6.08
100 mm	\$9.50
150 mm	\$19.00
200 mm	\$30.40
250 mm	\$43.70
300 mm	\$64.60

- (d) That the wastewater / storm treatment charges for average residential properties (meters up to 21mm in size) in the City of Hamilton be imposed at the following rates, effective January 1, 2021:

Monthly Water Consumption (m3)	Rate (\$/m3)
0 – 10	0.91
10 +	1.82

- (e) That the wastewater / storm treatment charge for all commercial, industrial, institutional and larger residential properties (meters = >25mm in size) in the City of Hamilton be imposed at the rate of \$1.82 per cubic metre, effective January 1, 2021;
- (f) That daily wastewater /storm fixed charges for all properties in the City of Hamilton be imposed at the following rates, effective January 1, 2021:



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Meter Size	Daily Wastewater / Storm Rate
15 mm	\$0.42
16 mm	\$0.42
20 mm	\$0.42
21 mm	\$0.42
25 mm	\$1.05
38 mm	\$2.10
50 mm	\$3.36
75 mm	\$6.72
100 mm	\$10.50
150 mm	\$21.00
200 mm	\$33.60
250 mm	\$48.30
300 mm	\$71.40

- (g) That the residential non-metered annual water rate be imposed at the flat rate of \$620.50 per annum, effective January 1, 2021;
- (h) That the residential non-metered annual wastewater / storm rate be imposed at the flat rate of \$664.30 per annum, effective January 1, 2021;
- (i) That the residential combined non-metered annual water and wastewater / storm rate be imposed at the flat rate of \$1,284.80 per annum, effective January 1, 2021;
- (j) That the Private Fire Line rates be imposed at the following rates, effective January 1, 2021:

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Connection Size		Monthly Rate
mm	inches	
25	1	\$3.73
38	1.5	\$8.58
50	2	\$14.92
75	3	\$33.57
100	4	\$59.68
150	6	\$134.28
200	8	\$238.72
250	10	\$238.72
300	12	\$238.72

- (k) That the 2021 Water, Wastewater and Storm Proposed User Fees and Charges be imposed as per Appendix “G” to Report FCS20073, effective January 1, 2021;
- (l) That the 2021 Water, Wastewater and Stormwater Rate Supported Operating Budget in the amount of \$245,554,888 be approved as per Appendix “A” to Report FCS20073;
- (m) That the long-term financing plan for the Water, Wastewater and Stormwater programs and related rate increases required to meet sustainable financing as identified in the 2021-2030 Water, Wastewater and Stormwater Rate Supported Operating Budget forecast (Appendix “A” to Report FCS20073) be approved, in principle;
- (n) That the 2021 Water, Wastewater and Stormwater Rate Supported Capital Budget and Financing Plan in the amount of \$299,911,000 be approved as per Appendices “K”, “N”, “Q” and “S” to Report FCS20073;
- (o) That the 2021-2030 Water, Wastewater and Stormwater Rate Supported Capital Budget forecast and financing plan (Appendix “I” to Report FCS20073) be approved, in principle;
- (p) That the City Solicitor be authorized and directed to prepare, for Council approval, all necessary by-laws respecting the 2021 water and wastewater / storm user fees, charges and rates set out in Recommendations (a) through (l) of Report FCS20073;
- (q) That the additional 14.0 Full Time Equivalent Rate Supported Staffing be approved as per Appendix “F” to Report FCS20073;

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**SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget  
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- (r) That the General Manager, Finance and Corporate Services, be authorized to and directed to negotiate and confirm the terms, placement and issuance of all debenture issue(s), and / or private placement debenture issue(s), in either a public or private market and / or bank loan agreements and debenture issue(s) and / or variable interest rate bank loan agreements and debenture issue(s), in an amount not to exceed \$117,396,000 Canadian currency as attached in Appendices “K”, “N” and “Q” to Report FCS20073, which includes \$48,000,000 in Rate Supported municipal debt and \$69,396,000 Rate Supported Development Charges municipal debt;
- (s) i) That the General Manager, Finance and Corporate Services, be authorized to engage the services of all required professionals to secure the terms and issuance of the debenture issue(s) described in subsection (s) including, but not limited to, external legal counsel, fiscal agents and Infrastructure Ontario’s Loan Program;
- ii) That the General Manager, Finance and Corporate Services, Mayor and City Clerk are each authorized and directed to enter into and / or execute, on behalf of the City of Hamilton, all agreements and necessary ancillary documents requiring their respective signatures, to secure the terms and issuance of the debenture issue(s) described in subsections (s), and (t), in a form satisfactory to the City Solicitor;
- iii) That the Mayor and City Clerk are authorized and directed to enter into and / or execute, on behalf of the City of Hamilton, all agreements and necessary ancillary documents not requiring any specific signing authority, to secure the terms and issuance of the debenture issue(s) described in subsections (s) and (t), in a form satisfactory to the City Solicitor and with content acceptable to the General Manager, Finance and Corporate Services;
- (t) That all necessary By-Law(s) be passed to authorize the debenture issue(s) negotiated, placed and secured in accordance with subsections (r) and (s).

**EXECUTIVE SUMMARY**

The 2021 Recommended Water, Wastewater and Stormwater (Rate) Budget is submitted for Council’s consideration. The 2021 Rate Budget balances the need to invest in environmental infrastructure upgrades and changing trends in demand for water and growth in users relative to “Places to Grow.” Over the period 2021 to 2030, water, wastewater and stormwater capital investment is forecast at \$2.53 B which represents an increase of \$0.04B from last year’s 10-year forecast. This budget continues to focus on growing our economy, environmental stewardship, financial sustainability and effective inter-governmental relations.

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**SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget  
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The Rate Capital Budget was prepared in accordance with the City of Hamilton's Strategic Asset Management Policy. The Ministry of Infrastructure filed Ontario Regulation 588/17 – Asset Management Planning for Municipal Infrastructure under Bill 6, *Infrastructure for Jobs and Prosperity Act* ("Act") on December 27, 2017. Regulation 588/17 went into force on January 1, 2018 and applies to all infrastructure assets directly owned by a municipality or consolidated on the municipality's financial statements.

The 2021 Rate Operating expenditures in the 2021 Requested Budget of \$90.7 M reflects an increase of \$3.9 M or 4.5% over than the 2020 budget. The majority of costs are fixed in nature at approximately 90% of total operating costs including employee related costs, property taxes, materials and operating supplies and corporate cost allocations. The remaining costs are variable related to production volumes (heating fuel – natural gas, hydro, fluid and chemicals, biosolids contract).

The 2021 Operating expenditures contains the request for 14 new full-time equivalent (FTE) employees. The net operating cost of the request is approximately \$0.3 M. The FTE requests are largely driven by 3 FTEs required to operate and maintain the Woodward Wastewater Treatment Plant, 4 FTEs requested to support the Substandard Water Service Replacement Program and 2 FTEs to ensure ongoing compliance to meet Storm Water Program standards. For the full FTE request details, please refer to Appendix "F" to Report FCS20073.

Beyond employee related costs there are increases in operating and maintenance expenditures (O&M). Employee related costs are increasing as a result of cost of living adjustments and FTE requests. Increases in O&M expenditures are largely driven by the storm operating and maintenance program to meet compliance standards, as well as, increases in hydro needs related to the new Biosolids Facility. Lastly, the price for fluid and chemicals used to treat water and wastewater at the Plants is increasing versus last year's budgeted price.

Capital financing costs, including reserve transfers in the 2021 Requested Budget of \$155 M, reflect an increase of \$8.6 M over the 2020 Budget. With non-rate revenues of \$2.9 M, rate revenues of \$242.7 M are required to meet operating (program and capital financing) expenditures.

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**SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget  
(FCS20073) (City Wide) – Page 7 of 31**

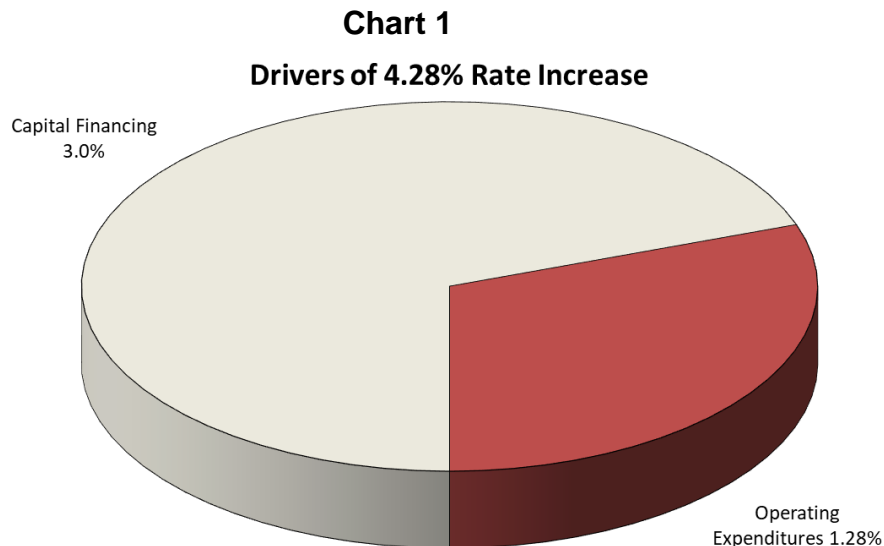
Table 1 summarizes the budget changes for the 2021 Requested Budget:

**Table 1**

<b>Summary of the 2021 Operating Budget</b>				
(\$ millions)	2020 Restated Budget	2021 Requested Budget	2021 Requested / 2020 Restated Change	
			\$	%
<b>Expenditures</b>				
Program Expenditures	\$ 86.7	\$ 90.7	\$ 3.9	4.5%
Capital/Debt / Reserve Financing	\$ 146.3	\$ 154.9	\$ 8.6	5.9%
<b>Total Expenditures</b>	<b>\$ 233.0</b>	<b>\$ 245.6</b>	<b>\$ 12.5</b>	<b>5.4%</b>
<b>Revenues</b>				
Rate Revenue	\$ 230.0	\$ 242.7	\$ 12.7	5.5%
Non-Rate Revenue	\$ 3.0	\$ 2.9	(\$ 0.2)	( 0.1%)
<b>Total Revenue</b>	<b>\$ 233.0</b>	<b>\$ 245.6</b>	<b>\$ 12.5</b>	<b>5.4%</b>
<b>Average Residential Water / Wastewater / Storm Bill</b>	<b>\$ 752.60</b>	<b>\$ 784.80</b>	<b>\$ 32.20</b>	<b>4.28%</b>

*Note: Anomalies due to rounding.*

Chart 1 highlights that the proposed combined 4.28% rate increase is driven almost entirely by increased capital financing expenditures in 2021.



**SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget  
(FCS20073) (City Wide) – Page 8 of 31**

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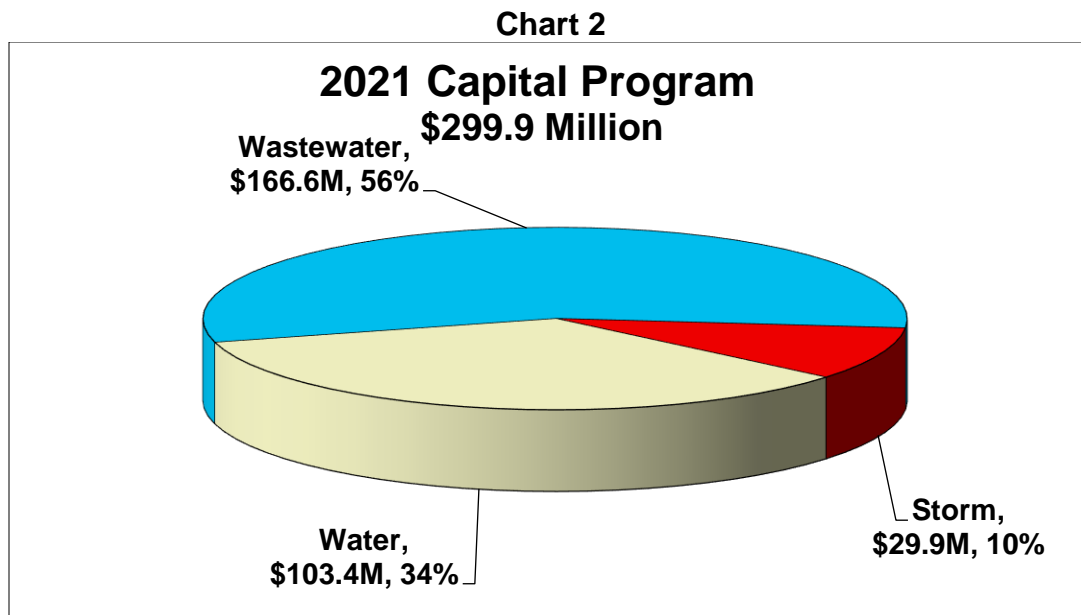
Table 2 identifies the proposed rate increase impact on the average residential customer.

**Table 2**  
**Impact of Recommended 2021 Water and Wastewater /  
Storm Rate Increases on a Typical Residential Bill**  
(Based on annual water consumption of 200 m<sup>3</sup>)

2020 Residential Bill	\$752.60
2021 Residential Bill	\$784.80
Recommended Change (\$)	\$32.20
Recommended Change (%)	4.28%

The recommended 2021 Rate Supported Financial Strategy endeavours to achieve a balance between capital investment, rate of growth and rate stability. The 2021 Rate Supported Strategy links the change in demand for water with a staged approach to necessary capital investments at the Woodward Wastewater Treatment Plant (WWTP). The current strategy calls for capital funding in 2021 of approximately \$299.9 M (2020\$) and \$2.53 B (2020\$) for the 2021– 2030 timeframe. The 2021 Strategy includes financing from the federal and provincial governments with respect to the WWTP rehabilitation and upgrades, specifically, in support of the Hamilton Harbour Remedial Action Plan.

Chart 2 provides a breakdown of the 2021 Rate Capital Program totalling \$299.9 M, by the three major program areas: Water, Wastewater and Storm.




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**SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget  
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Report FCS20073 identifies significant risks related to a variety of conditions which may impact ratepayers and, in combination, may place significant financial pressures on ratepayers. These risk factors detailed in later sections of Report FCS20073 include increased operating and capital investment requirements. Staff pursued a variety of measures to control the impact of the above risks to maintain a safe and reliable service at a reasonable cost.

**Alternatives for Consideration – See page 29**

**FINANCIAL – STAFFING – LEGAL IMPLICATIONS**

**Financial:** As per Recommendation (m) of Report FCS20073, approval of the 2021 Water, Wastewater and Stormwater Supported Operating Budget will support operating and capital financing expenditures of \$245,554,888 for 2021.

**Staffing:** The 2021 Rate Supported staffing complement reflects a requested increase of 14.0 in total FTE headcount as reflected in Appendix “F” to Report FCS20073.

**Legal:** Recommendation “(t)” of Report FCS20073 relates to By-laws requiring Council approval, respecting the implementation of 2021 water and wastewater user fees and charges set out in the Recommendations (a) through (l) of Report FCS20073.

**HISTORICAL BACKGROUND**

The 2021 Rate Budget continues to support the priority of investing in infrastructure as evidenced by the 2021 to 2030 forecast investment of approximately \$2.53B in water, wastewater and stormwater capital infrastructure.

Report FCS20073 outlines the various aspects and components that the recommended 2021 Rate Supported strategy incorporates:

- Sustainable Rate Strategy
- Proposed 2021 Water and Wastewater / Storm Rates
- Operating Budget Highlights
- Capital Budget Highlights
- Water Consumption Review and Forecast

**SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget  
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**POLICY IMPLICATIONS AND LEGISLATED REQUIREMENTS**

The recommended options support the principle of a user-pay water and wastewater / storm system. The Rate Reserve Policy has guided staff's recommended use of rate reserves as a funding source in the 2021 - 2030 financing plan.

**RELEVANT CONSULTATION**

Public Works, Hamilton Water Division, provided operating / capital expenditure and non-rate revenue forecasts as reflected in Report FCS20073.

**ANALYSIS AND RATIONALE FOR RECOMMENDATIONS**

Appendix "A" to Report FCS20073 summarizes the 2021 operating budget expenditures (program and capital financing) and revenues of \$245.6 M compared to the 2020 restated budget of \$233 M.

The 2021 Operating expenditures in the 2021 Requested Budget of \$90.7 M reflect an increase of \$3.9 M or 4.5% over the 2020 budget. The majority of costs are fixed in nature at approximately 90% of total operating costs including employee related costs, property taxes, materials and operating supplies and corporate cost allocations. The remaining costs are variable related to production volumes (heating fuel – natural gas, hydro, fluid and chemicals, biosolids contract).

The 2021 Operating expenditures contains the request for 14 new full-time equivalent (FTE) employees. The net operating cost of the request is approximately \$0.3 M. The FTE requests are largely driven by 3 FTEs required to operate and maintain the Woodward Wastewater Treatment Plant, 4 FTEs requested to support the Substandard Water Service Replacement Program and 2 FTEs to ensure ongoing compliance to meet Storm Water Program standards. For the full FTE request details, please refer to Appendix "F" to Report FCS20073.

Beyond employee related costs there are increases in operating and maintenance expenditures (O&M). Employee related costs are increasing as a result of cost of living adjustments and FTE requests. Increases in O&M expenditures are largely driven by the storm operating and maintenance program to meet compliance standards, as well as, increases in hydro needs related to the new Biosolids Facility. Lastly, the price for fluid and chemicals used to treat water and wastewater at the Plants is increasing versus last year's budgeted price.



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In preparation of the recommended combined rate increase for 2021 and considering the pandemic's impact on all ratepayers, an assessment of ratepayers' ability to pay current water and wastewater/storm billings during 2020 has been completed. To determine whether customers have been able to pay bills within the normal invoice due dates, staff reviewed the number of arrears notifications Alectra has issued when account arrears remain outstanding 30 days post the invoice due date. Alectra reports this metric within their annual service activity report (for details refer to Report FCS20072). Alectra is estimating that the total number of arrears letters issued by 2020 year-end will be approximately 2,000 fewer than were issued in 2019.

Per the City's Arrears Policy unpaid water and wastewater/storm arrears that remain unpaid 60 days past invoice due date are transferred to the property's tax roll. Alectra is forecasting there will be about 650 fewer tax roll arrears transfers in 2020 than in 2019. The dollar value transferred will be approximately \$400 K lower than the \$4.2 M transferred in 2019. Furthermore, the number of deferred payment arrangements is down significantly in 2020 versus 2019 – there are approximately 50% fewer active payment arrangements currently versus at the end of 2019. Optional payment arrangements typically arise at the request of customers who are having trouble in paying water and wastewater / storm bills.

Hamilton's relatively low water and wastewater/storm rates combined with the income support programs provided by the senior governments throughout the pandemic, has resulted in no significant changes with respect to ratepayers' ability to pay current water bills despite the ongoing impact of the pandemic.

As outlined in the Executive Summary section of Report FCS20073, the proposed rate impact for the average residential water, wastewater and storm annual bill would be \$32.20 (4.28%).

Water and wastewater service user fees have been reviewed in accordance with the User Service Fee and Charges Policy which require identification of both the cost of the service and the fees / charges to recover such cost with the intent that full cost recovery is achieved. Many service fees are unchanged with full cost recovery currently being achieved with others undergoing varying fee increases to achieve full cost recovery.

The impact of the 2021 recommended rate increases on the water and wastewater / storm fixed charges, as well as, the water consumption and wastewater / storm treatment charges are identified in Table 3.

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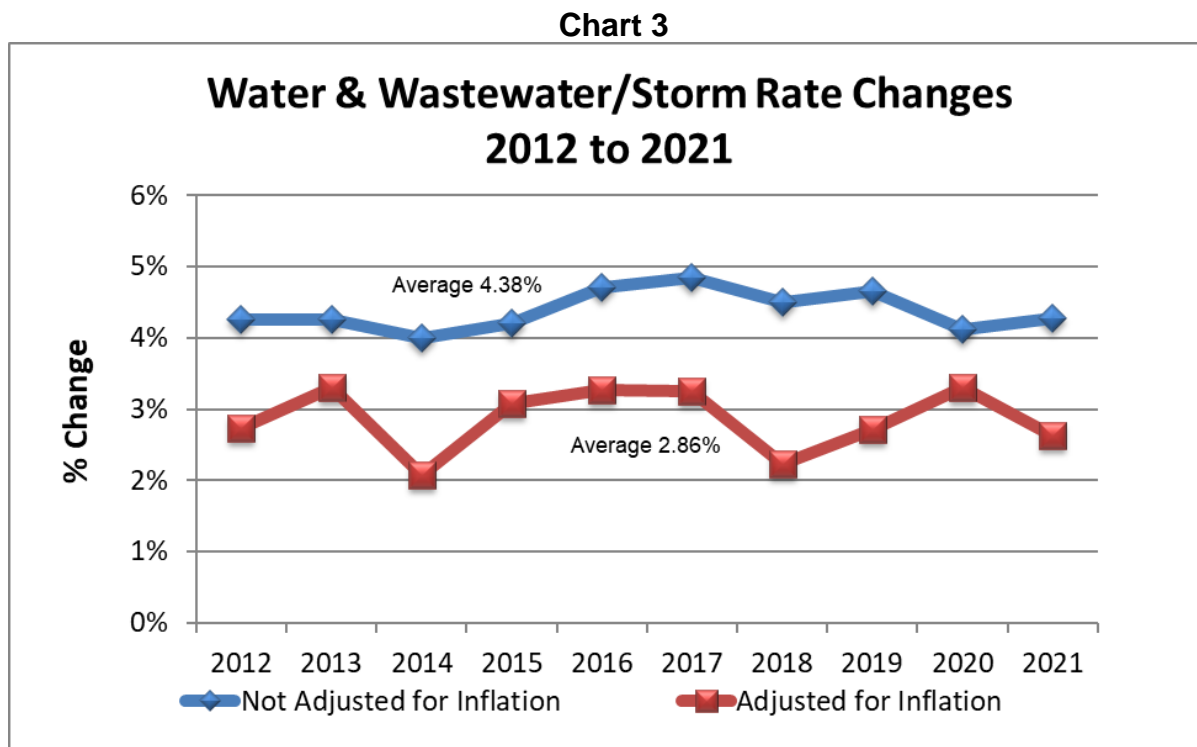
**Table 3  
Impact of Recommended Rate Increases on  
Water and Wastewater / Storm Rates**

	2020	2021	Increase
<b>Water Fixed Charge (daily)<sup>1</sup></b>	\$0.37	<b>\$0.38</b>	\$0.01
Consumption Charge Block 1 (0-10 cubic metres / month)	\$0.83	<b>\$0.85</b>	\$0.02
Consumption Charge Block 2 (>10 cubic metres / month)	\$1.64	<b>\$1.70</b>	\$0.06
<b>Wastewater / Storm Fixed Charge (daily)<sup>1</sup></b>	\$0.39	<b>\$0.42</b>	\$0.03
Treatment Charge Block 1 (0-10 cubic metres / month)	\$0.88	<b>\$0.91</b>	\$0.03
Treatment Charge Block 2 (>10 cubic metres / month)	\$1.75	<b>\$1.82</b>	\$0.07

<sup>1</sup> Rate for a 15-21 mm meter which are installed in most residential homes.

**Trends in Combined Rate Changes 2012-2021**

Hamilton's overall average annual combined water and wastewater / storm rate increase is 4.38% before adjusting for inflation during the 10-year period from 2012 to 2021. Accounting for inflation results in the overall average, the annual rate increase over the same period would be 2.86%. Chart 3 shows the trend in Hamilton's combined water and wastewater / storm rates for the period 2012 to 2021.



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(FCS20073) (City Wide) – Page 13 of 31**

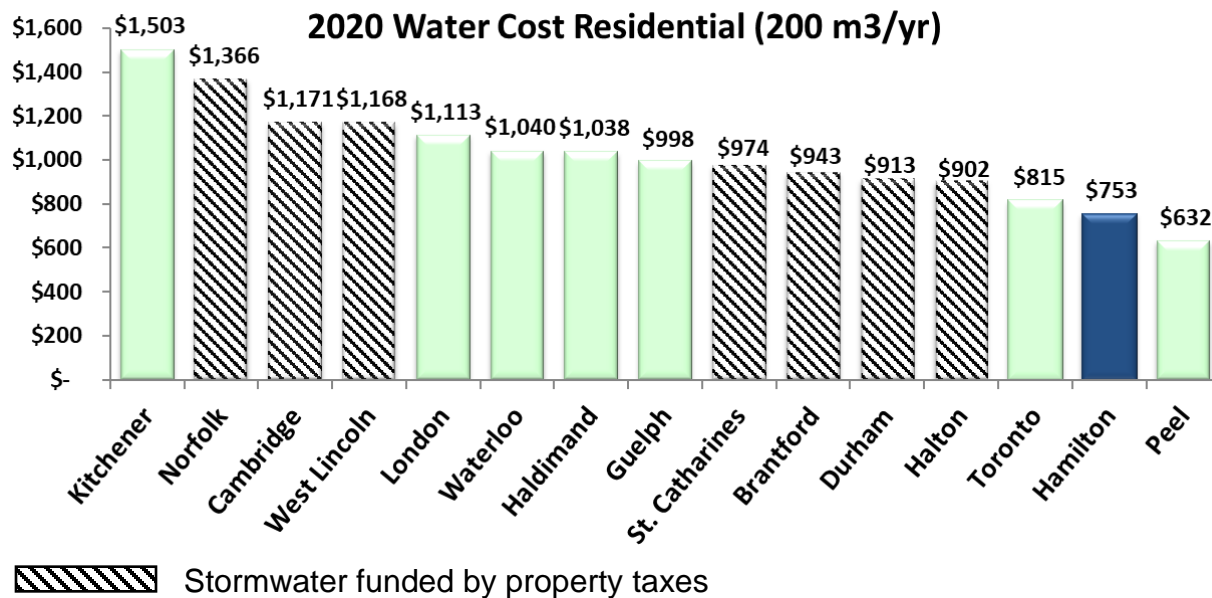
### Comparative Rates

In recent years, staff reported that Hamilton's water and wastewater / storm rates have remained competitive, inclusive of the fact that annual rate increases over the past decade have averaged 4.38% before adjusting for inflation.

Over the past decade, Hamilton's ability to maintain competitive water and wastewater / storm rates, given the magnitude of the rate increases approved over this same period, reflects the fact that, like Hamilton, other municipalities are addressing many of the same investment requirements as previously identified.

Hamilton's residential annual water and wastewater / storm bill continues to be the second lowest within its local municipal comparator group. Though Hamilton largely funds its stormwater management program through its wastewater / storm fee, it still has been able to maintain competitive rates as reflected in Chart 4.

**Chart 4**



### CONSUMPTION AND RATE-GENERATED REVENUES

#### Metered Water Consumption

Currently, the City of Hamilton has over 154,000 metered water accounts (see Chart 5). Residential users account for 93% of total metered accounts and approximately 51% of total water consumption. While industrial, commercial, institutional and multi-residential accounts only make up 7% of total metered accounts, Industrial Commercial Institutional (ICI) and multi-residential (multi-res) water consumption accounts for 49% of total consumption (see Chart 6).

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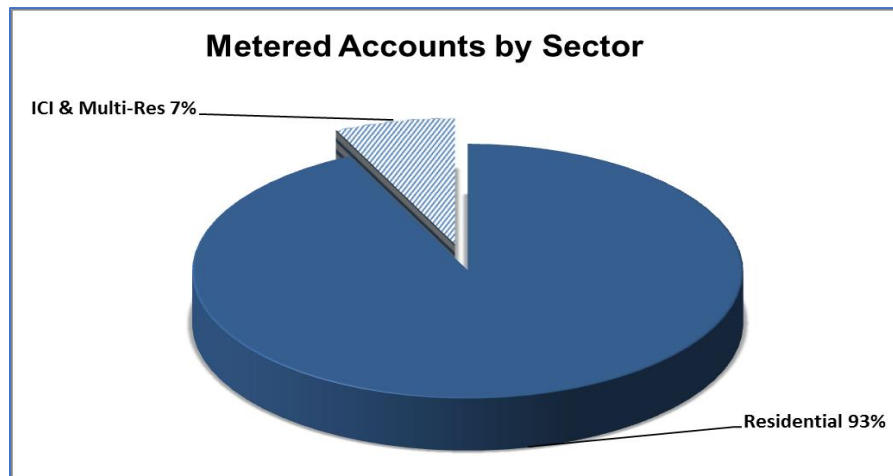
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**SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget  
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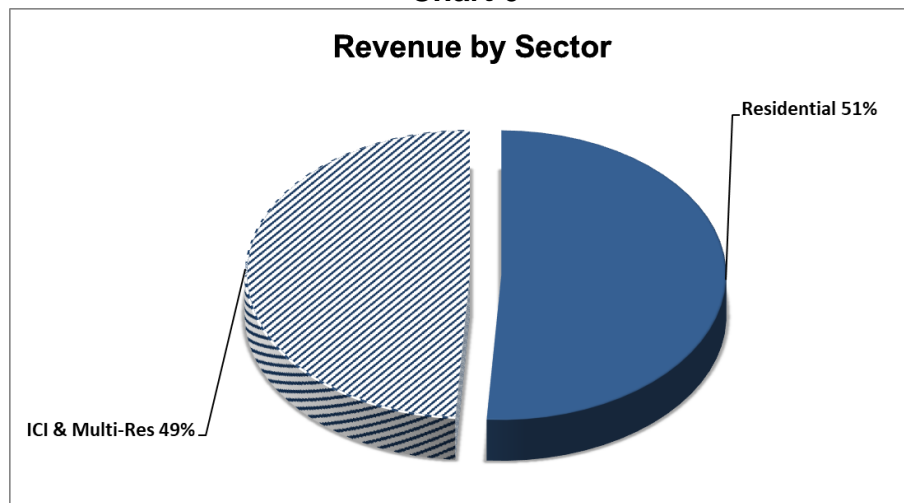
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**Chart 5**



Revenues associated with consumption represents approximately 94% of the total budgeted Rate revenues of \$229.0 M for 2021.

**Chart 6**



**Total Consumption – 2021 Budget \$229.0 M**

Since 2016, Hamilton's total metered annual water consumption (see Chart 7) has remained at approximately 56-59 million cubic metres. The 2020 projected total consumption is just over 58 million cubic metres. The 2021 Budget is approximately 0.2% above the consumption in the 2020 Budget and 2020 Forecast.

Total water consumption forecast over the 10-year period (2021 to 2030) reflects relatively flat consumption demand. This relatively conservative forecast reflects the following:

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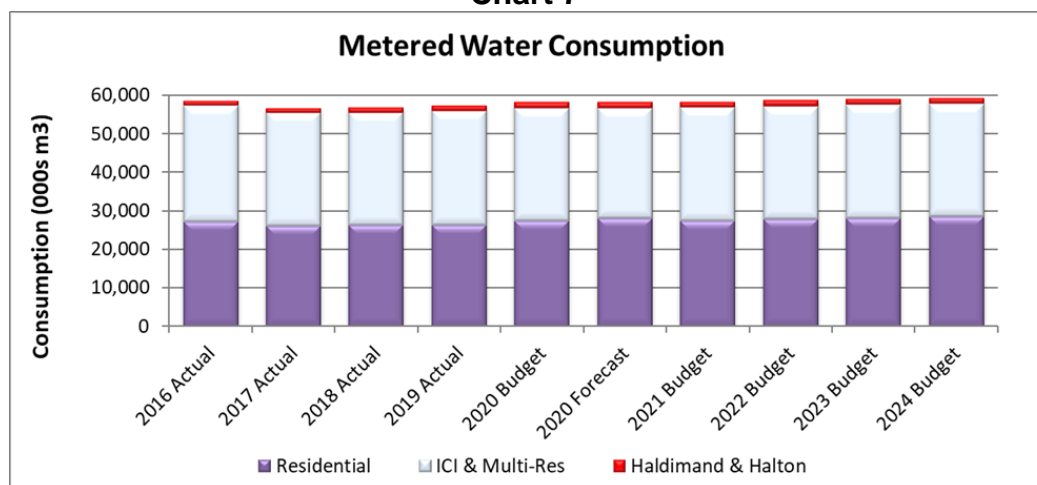
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- Continued uncertainty surrounding growth / decline of consumption
- Conservation impacts:
  - residential toilet consumption = 35% of indoor consumption
  - newer high-efficiency toilets and washers

Staff will continue to monitor consumption across all sectors and take efforts to ensure that the City is maximizing its full potential with respect to metered water and wastewater / storm revenues. Similarly, staff will be monitoring changes in consumption on an ongoing basis identifying trends and related financial impacts through the Budget Variance Reports provided to Council.

**Chart 7**



**Residential Consumption - 2021 Budget \$107.7 M**

Since 2016, residential consumption (see Chart 8) has remained relatively unchanged reflecting an observation that the growth of new customers' consumption has been offset by reduced consumption of existing customers' ongoing conservation efforts associated with fixture / appliance obsolescence such as the installation of water efficient toilets and washer machines. For 2021, staff is recommending that the forecast for average residential consumption remain at 200 m3 to reflect the past several years of consumption.

It is not clear how much further average residential consumption can decline, but there exists the potential for further declines, principally due to conservation efforts and associated regulations. For example, in 2012, the Ontario Building Code changed requirements related to the installation of high-efficiency toilets (4.8L) and expanding the end uses of rainwater and other non-potable water.

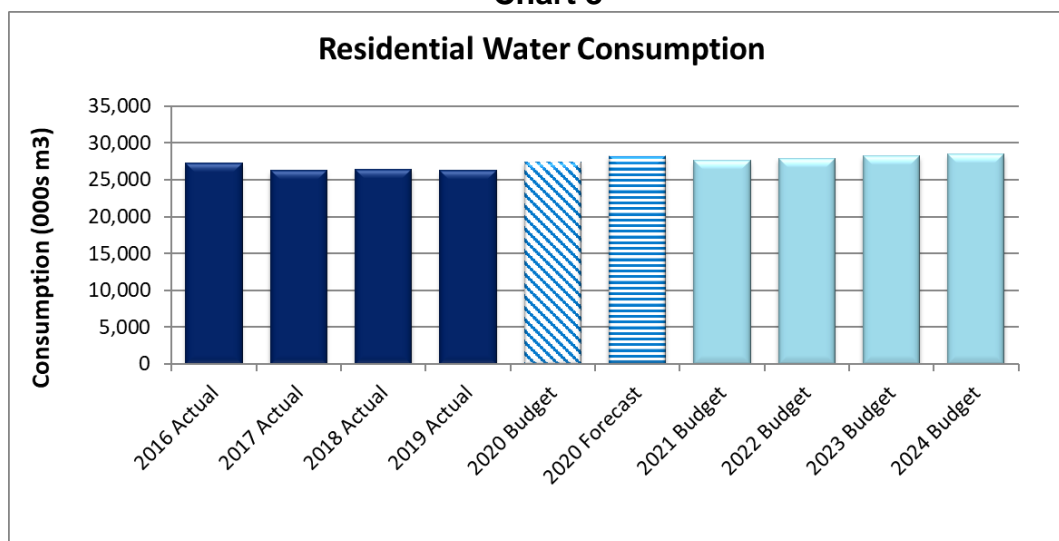
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**Chart 8**



**Industrial / Commercial / Institutional and Multi-Res Consumption – 2021 Budget  
\$118.4 M**

Despite continuing growth, particularly in the multi-residential sector, there continues to be ongoing conservation efforts that offset any demand growth associated with new customers. Many larger multi-residential customers are implementing water conservation projects. For example, CityHousing Hamilton completed the installation of over 3,000 ultra-high efficiency 3.0 L toilets which yields annual savings of over \$450 K.

In sharp contrast to many neighbouring communities, Hamilton is unique in that significant portion of consumption and, in turn, revenues come from industrial and institutional customers. The top users of the ICI / Multi-res sector representing some 40 customers account for nearly a quarter of total consumption. This reliance on a relatively small number of large water users does pose a risk to revenue stability when these customers undertake water conservation projects or experience business failure.

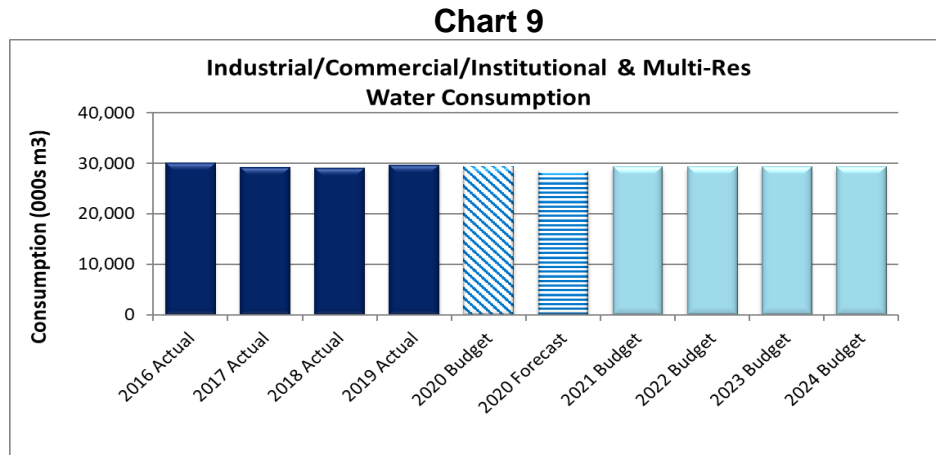
As reflected in Chart 9, water consumption demand is forecast to remain relatively flat for the ICI / Multi-res sector.

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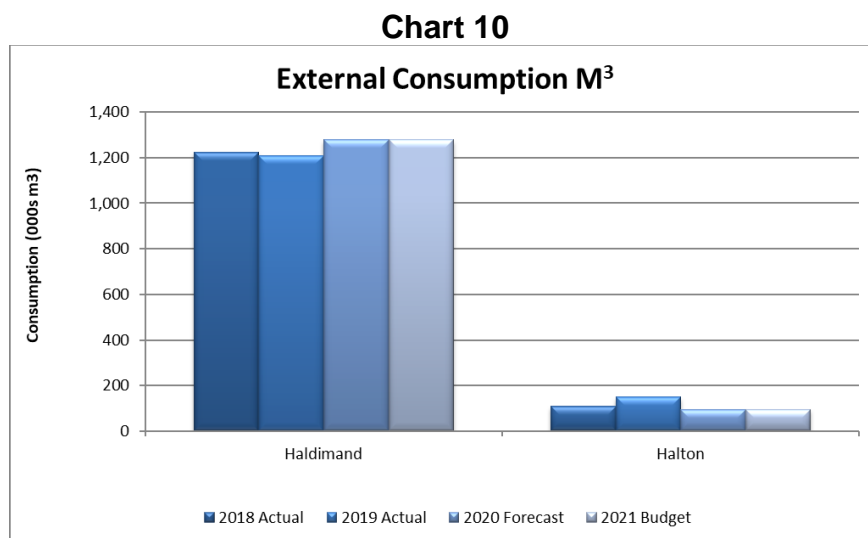


**External Consumption – 2021 Budget \$2.9 M**

Under long-term arrangements, Hamilton supplies Haldimand County and Halton Region potable water (see Chart 10) but does not provide wastewater / storm services to either community.

A renewed water supply agreement with Haldimand was executed in 2014 for an initial 20-year period with Hamilton supplying water to the communities of Caledonia and Cayuga. There has been some growth over the past few years with new housing developments in Caledonia.

The current water supply agreement for Halton was executed in 2011 for an initial ten-year period with Hamilton supplying water to the Aldershot and Snake Road communities. In September 2019, a renewal agreement was executed that will conclude on November 16, 2031.



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**OTHER REVENUE HIGHLIGHTS**

**Sewer Discharge Permits – 2021 Budget \$9.4 M**

Surcharge Discharge Permits allow the City of Hamilton a mechanism to recover costs associated with:

- the costs of conveyance, treatment and monitoring of sewage that exceeds by-law limits for treatable parameters (Overstrength Discharge)
- the costs of conveyance, treatment and monitoring of sewage that was not originally purchased by the customer from the City's potable water supply (Sewer Surcharge)

**Permits, General Fees and other Recoveries – 2021 Budget \$2.4 M**

Service fees may be charged with the issuance of a permit or alternatively charged on the customer's water bill. Appendix "G" to Report FCS20073 provides details of the user fees charges that are applicable for various water / wastewater related services provided on an individual basis to customers such as new meter installations, water service turn on or off, laboratory services, etc.

**Private Fire Lines – 2021 Budget \$1.9 M**

The Private Fire Protection Charge applies to customers that have private fire protection systems which rely upon the public water system for their water supply via an unmetered fire water service line.

**2021–2030 Rate Capital Budget**

Table 4 summarizes the \$2.53 B capital program and the financing requirements for the 2021–2030 water, wastewater and storm capital budget. Of this amount, \$1.106 B (44%) is for water, \$1.090 B (43%) is for wastewater, and \$0.332 B (13%) is for the storm program. A total of \$789 M or 30% of the 10-year capital program is required in the first three years (2021–2023). Significant projects include the Woodward Wastewater Treatment Plant (WWTP) Upgrade, Airport Lands Trunk Sewer and Battlefield Trunk Sewer Twinning.

The capital program also includes \$674 M for growth infrastructure related to Growth Related Integrated Development Strategy (GRIDS) which will be funded from Development Charges, except for \$90 M in Development Charge (DC) exemptions which the City is legislatively required to fund from rate revenues if Council chooses to discount its DC's or recover less than 100% of growth-related capital costs. Funding of DC exemptions reduces the amount of dollar for dollar funding the City can invest in infrastructure.



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**Table 4  
SOURCE OF CAPITAL FINANCING  
2021 to 2030 RATE PROGRAM CAPITAL BUDGET  
\$(000'S)**

	2021	2022	2023	2024	2025 to 2030	2021 to 2030
<b>WATER</b>						
<b>Capital Program</b>	<b>103,408</b>	<b>121,980</b>	<b>128,281</b>	<b>103,993</b>	<b>647,809</b>	<b>1,105,471</b>
<b>Source of Funding</b>						
Subsidy/Other Revenue	1,681	-	-	-	30	1,711
Development Charges	24,914	31,906	49,647	26,817	113,744	247,028
Reserves & Other Internal Sources	7,015	10,640	10,740	640	3,840	32,875
Contribution from Operating	50,498	62,234	67,894	68,136	516,095	764,857
External Debt	19,300	17,200	-	8,400	14,100	59,000
<b>Total</b>	<b>103,408</b>	<b>121,980</b>	<b>128,281</b>	<b>103,993</b>	<b>647,809</b>	<b>1,105,471</b>
<b>WASTEWATER</b>						
<b>Capital Program</b>	<b>166,628</b>	<b>115,866</b>	<b>69,175</b>	<b>57,795</b>	<b>681,261</b>	<b>1,090,725</b>
<b>Source of Funding</b>						
Subsidy/Other Revenue	22,092	-	-	-	-	22,092
Development Charges	43,863	30,642	14,802	3,817	287,880	381,004
Reserves & Other Internal Sources	14,735	11,000	10,500	10,000	-	46,235
Contribution from Operating	57,238	46,724	42,673	43,978	392,181	582,794
External Debt	28,700	27,500	1,200	-	1,200	58,600
<b>Total</b>	<b>166,628</b>	<b>115,866</b>	<b>69,175</b>	<b>57,795</b>	<b>681,261</b>	<b>1,090,725</b>
<b>STORM SEWERS</b>						
<b>Capital Program</b>	<b>29,875</b>	<b>26,805</b>	<b>27,250</b>	<b>34,385</b>	<b>213,140</b>	<b>331,455</b>
<b>Source of Funding</b>						
Subsidy/Other Revenue	473	75	75	75	450	1,148
Development Charges	8,185	4,000	4,000	4,920	24,920	46,025
Reserves & Other Internal Sources	3,584	3,646	-	-	-	7,230
Contribution from Operating	17,633	19,084	23,175	29,390	186,570	275,852
External Debt	-	-	-	-	1,200	1,200
<b>Total</b>	<b>29,875</b>	<b>26,805</b>	<b>27,250</b>	<b>34,385</b>	<b>213,140</b>	<b>331,455</b>
<b>TOTAL RATE PROGRAM</b>						
<b>Capital Program</b>	<b>299,911</b>	<b>264,651</b>	<b>224,706</b>	<b>196,173</b>	<b>1,542,211</b>	<b>2,527,652</b>
<b>Source of Funding</b>						
Subsidy/Other Revenue	24,246	75	75	75	480	24,951
Development Charges	76,962	66,548	68,449	35,554	426,544	674,057
Reserves & Other Internal Sources	25,334	25,286	21,240	10,640	3,840	86,340
Contribution from Operating	125,369	128,042	133,742	141,504	1,094,847	1,623,504
External Debt	48,000	44,700	1,200	8,400	16,500	118,800
<b>Total</b>	<b>299,911</b>	<b>264,651</b>	<b>224,706</b>	<b>196,173</b>	<b>1,542,211</b>	<b>2,527,652</b>

Chart 11 illustrates the \$2.53 B capital program for the 2021–2030 water, wastewater and storm capital budget.

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**SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget (FCS20073) (City Wide) – Page 20 of 31**

**Chart 11**

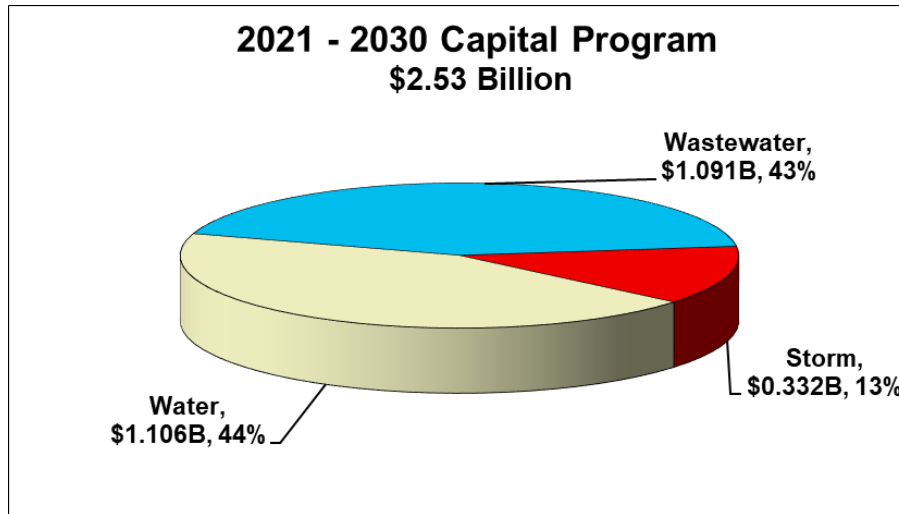
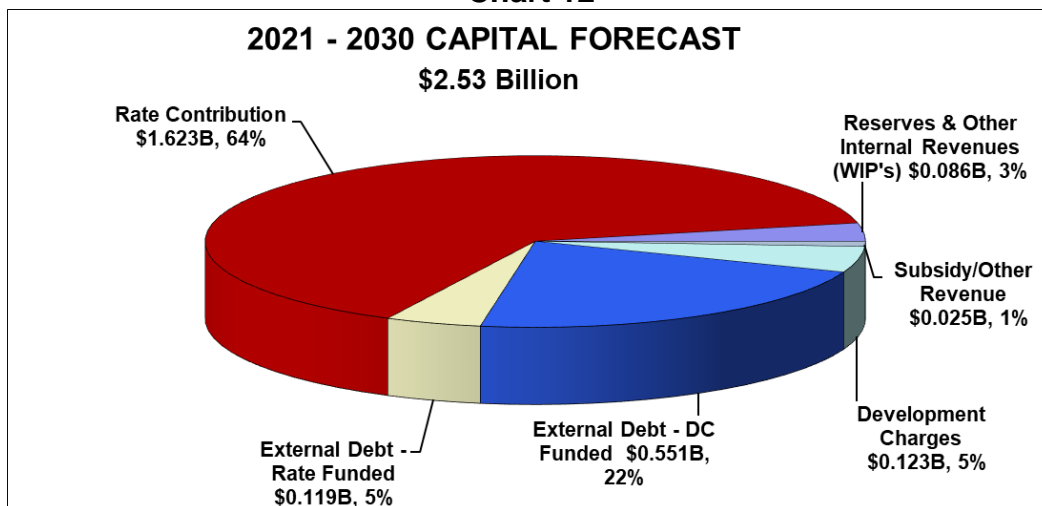


Chart 12 provides the sources of capital financing for the 2021–2030 forecast period. The growth-related infrastructure investment included in the 2021–2030 forecast to accommodate for growth is \$674 M, including \$551 M from DC funded external debt and \$123 M from development charges. Debt charges associated with DC funded debt will be recovered from development charges over the terms of issuance.

The 2021–2030 Capital Forecast includes \$10.1 M in funding from capital work-in-progress (WIP's). The Financing Plan for the 2021-2030 water, wastewater and storm capital program requires a net draw from reserves of \$70.3M, helping to mitigate reliance on rate supported debt for the delivery of capital works.

**Chart 12**



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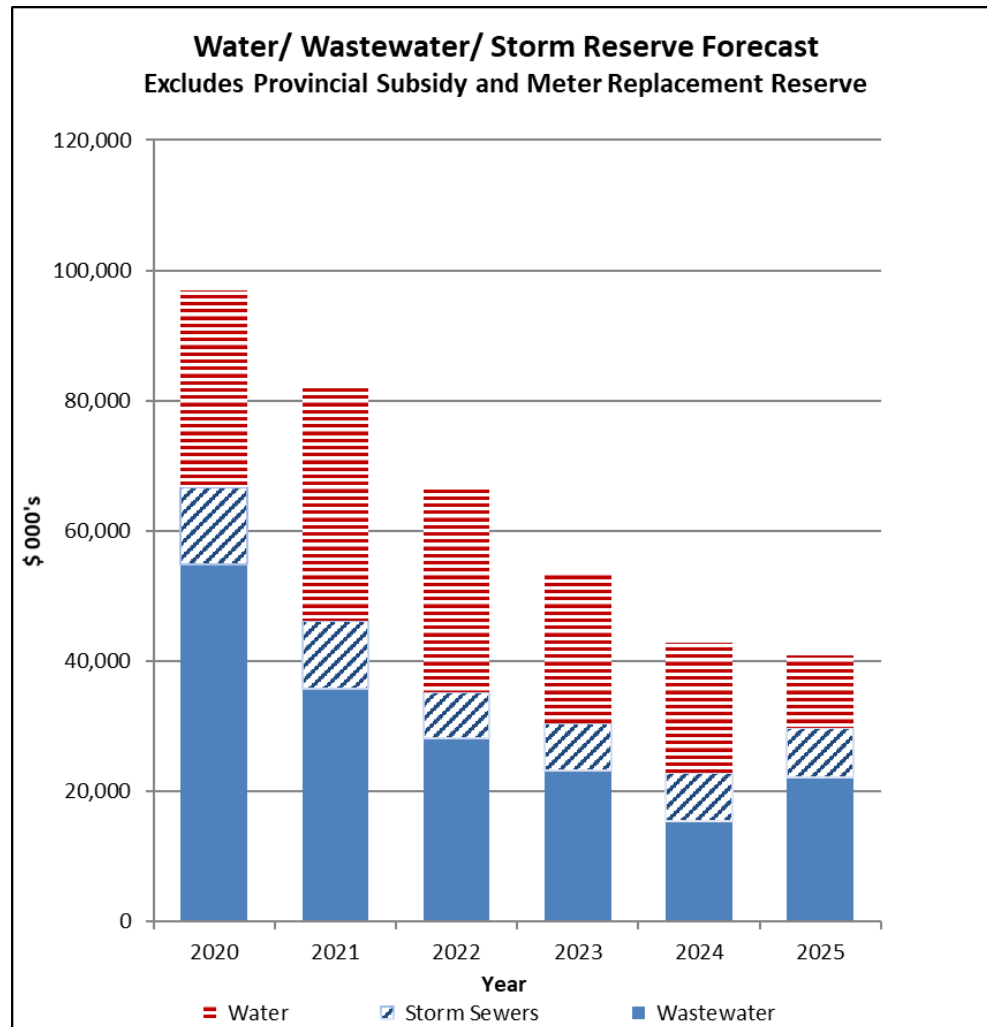
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**Rate Reserves**

Chart 13 provides the projected reserve balances for the Water, Wastewater and Storm programs. The 2021 Budget Forecast reflects utilizing \$12.2 M in reserve funds to fund the WWTP project and \$0.6 M for the Water Program. It should be noted, the reserve forecast below does not include the Provincial Wastewater Improvement Subsidy Reserve (\$100 M Provincial subsidy dedicated for the WWTP Clean Harbour project) or the Meter Replacement Reserve.

**Chart 13**



Reserves are essential to assist the City in mitigating unanticipated events such as consumption fluctuations, unforeseen increase in capital costs and potentially to provide rate stability or to decrease future debt needs. The current Financial Plan leverages the available capacity in the water, wastewater and storm reserves and draws down the reserves to their minimum required balances over the next few years.

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The combined reserve balance will decrease from \$97 M at the end of 2020 to \$40 M in 2025 and then stabilize over the remaining years in the 2026 to 2030 forecast under today's capital project forecasts. The decrease in reserves coincides with construction of the Clean Harbour Projects at the WWTP plant of which the City is funding over \$60 M from the Wastewater Reserve from 2018 to 2021. All three system Reserves are within the target balances relative to the Rate Reserve Policy approved by Council in June 2016.

**Woodward Wastewater Treatment Upgrade and Expansion Project**

The implementation plan for the Upgrade and Expansion of the WWTP is consistent with the 2020 Rate Budget, in that the plant improvements are forecast using a phased approach. Phase One is for effluent quality improvements and Phase Two is for expansion of the treatment plant to accommodate growth. The full \$296 M of the total growth component related to Phase Two is in the 2021-2030 Financing Plan. Construction for Phase Two related to expansion is proposed to start in 2026 and be completed in 2028.

The total budget for the Wastewater Treatment Plant upgrade and expansion has not changed in the 2021 budget forecast compared to the 2020 budget forecast. Table 5 provides a summary.

The WWTP expansion project implementation plan has remained unchanged when compared to the 2020 forecast. It is scheduled to begin construction in 2026 with 100% of the cost funded by development charge debt. The levels of debt supported by development charges represent a significant risk if future growth does not materialize as planned. Staff will continue to monitor growth forecasts and DC Revenues over the next four years (2021 – 2024) and adjust the plant expansion project and associated financing plan to align with growth requirements. Staff in both Corporate Services (Finance) and Public Works will closely monitor the need for plant expansion, as well as, the forecasted DC Revenue streams needed to pay for such an expansion to mitigate the risk to the ratepayer.

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**Table 5**

<b>Woodward Wastewater Treatment Plant Project - Gross Capital Forecasts</b>												
<b>(\$ Millions)</b>												
		<b>pre</b>										
	<b>Total</b>	<b>2021</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
<b>2021 Budget</b>												
Phase 1 - Clean Harbour	412.0	317.4	69.4	25.2								-
Phase 2 - Expansion	296.4	3.3	1.8	2.5	2.5	3.1	3.1	94.3	92.9	92.9		-
Total WWTP	708.4	320.7	71.2	27.7	2.5	3.1	3.1	94.3	92.9	92.9	-	-

**Provincial / Federal Subsidy Programs**

In 2010, the City received \$100 M of Provincial infrastructure funding related to the Wastewater Treatment Plant (WWTP) water quality improvement project and in 2013, a \$100 M commitment for Federal funding for the WWTP project from the Green Infrastructure Fund (GIF) with funding provided on a milestone completion basis.

The 2021–2030 Rate Capital Financing Plan incorporates both the Federal and Provincial Subsidies to fund the Clean Harbour project. Of the \$200 M of the Provincial and Federal funding, \$178.1 M has been committed as a funding source in previous years' budgets, leaving \$21.9 M in funding for the Clean Harbour project to be applied in 2021.

In May 2017, the City received approval for 16 projects funded under the Clean Water and Wastewater Fund (CWWF). The CWWF provided communities with vital infrastructure funding to help accelerate short-term investments to support the rehabilitation and modernization of drinking water, wastewater and stormwater infrastructure and the planning and design of future facilities and upgrades to existing systems. The federal and provincial governments provided a maximum of 50% and 25%, respectively, toward the total eligible costs of projects totalling \$43,890,763.

The City received a total CWWF government funding allocation of \$32,918,072 with the City share amounting to \$10,972,691. The CWWF Program project substantial completion timeline has been further extended to September 30, 2021 from an initial extension of March 31, 2020. The original deadline was March 2018.

On April 4, 2019, Infrastructure Canada announced the approval of the \$1.05 M Combined Sewer Overflow Backflow Prevention Project with 40% federal funding of \$420 K from the Disaster Mitigation and Adaptation Fund (DMAF) and the City to fund \$630 K (refer to Report FCS19038). This project to install back-flow devices at four Combined Sewer Overflow (CSO) outlets is to be completed between 2020 to 2025.

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In March 2018, the Federal government with the Ontario government announced the signing of a bilateral agreement that will provide more than \$11.8 B through the Investing in Canada Plan. The Investing in Canada Infrastructure Fund Program (ICIP) is a Federal infrastructure program designed to create long-term economic growth, build inclusive, sustainable and resilient communities and support a low-carbon economy.

There are a number of funding streams to be delivered nationally over the next number of years including \$2.3 B for Green Infrastructure for Ontario. Among the green infrastructure objectives is to ensure communities can provide safe drinking water for their citizens. The 2021–2030 Rate Capital Financing Plan makes no assumptions as to potential funding the City may receive under a future green infrastructure intake.

### **Addressing Climate Change**

In March 2019, Council approved a declaration that “a climate emergency exists that threatens the city, region, province, nation, civilization, humanity and the natural world.”

Prior to the climate change announcement, the Hamilton Water Division had identified approximately \$380M of projects that contribute in a positive way to fighting climate change. In addition, as part of the 2021–2030 Rate Capital Plan, Hamilton Water is requesting approval of projects totaling approximately \$294M that aim to address energy efficiencies and mitigate flooding risks. This brings the total investment in climate change projects to \$674M and includes major projects and studies such as the Greenhill and Summercrest Water Pumping Station Ultimate Upgrades of \$60M and the Flooding and Drainage Master Plan Wastewater and Storm System study budgeted at \$92M.

### **Projected Water / Wastewater / Storm Debt**

The 2021 Water, Wastewater and Storm Budget incorporates a significant reliance on both rate supported debt and growth-related debt supported from development charges over the 10-year forecast period. The forecasted rate supported debt financing for the 10-year period 2021–2030 has not changed from the 2020 Rate Budget.

The forecasted DC supported debt financing has increased by approximately \$18.1 M over the same period, resulting in an overall net increase in forecasted debt financing of \$18.1 M from the forecast in the 2020 Rate Budget. The increase in reliance on DC supported debt is attributable to the increased cost estimate of the Greenhill Pumping Station. The Growth Capital is partially offset with a \$15 M contribution from DC reserves in the 2021 Rate Budget.

**SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget  
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The 10-year capital program relies on a significant amount of debt financing with the associated debt charges funded from both rates and development charges. The rate supported debt is projected to peak at \$288 M in 2024, compared with the 2020 budget forecasted debt peak of \$297 M in 2023. The debt funded from DC's is projected to peak at \$641 M in 2028, whereas the 2020 budget was \$564 M in 2028.

Table 6 provides the multi-year debt forecast compared to the 2020 Budget forecast.

**Table 6**

<b>Projected Rate &amp; DC Supported Outstanding Debt</b>											
<b>(\$ Millions)</b>											
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>2020 Rate Budget</b>											
Funded from Rates	177	237	291	297	280	266	240	216	191	165	140
Funded from DC's	85	176	235	259	261	286	396	494	564	539	512
<b>Total</b>	<b>262</b>	<b>413</b>	<b>526</b>	<b>556</b>	<b>541</b>	<b>552</b>	<b>636</b>	<b>710</b>	<b>755</b>	<b>704</b>	<b>652</b>
<b>2021 Rate Budget</b>											
Funded from Rates	132	199	258	271	288	273	246	220	194	167	143
Funded from DC's	4	115	227	338	402	403	493	578	641	609	575
<b>Total</b>	<b>136</b>	<b>314</b>	<b>485</b>	<b>609</b>	<b>690</b>	<b>676</b>	<b>739</b>	<b>798</b>	<b>835</b>	<b>776</b>	<b>718</b>
<b>Increase (Decrease)</b>	<b>(126)</b>	<b>(99)</b>	<b>(41)</b>	<b>53</b>	<b>149</b>	<b>124</b>	<b>103</b>	<b>88</b>	<b>80</b>	<b>72</b>	<b>66</b>

Consistent with the 2020 Rate Budget and to more accurately forecast debt levels and the associated debt charges, the major multi-year Wastewater Treatment Plant projects are budgeted based on the projected cash flow of expenditures for the 2021 Rate Capital Budget, versus full commitment-based budgeting.

Chart 14 compares the total outstanding debt (Rate and DC Funded) from the 2020 Budget forecast to the 2021 Budget forecast. The graph illustrates the lower debt requirements for 2020-2022 when compared to the prior year budget forecast. The decrease in debt is due to deferral of major capital growth projects such as the Water Treatment Plant, as well as, funding dollar for dollar growth projects from DC Reserves. The higher debt levels in the later years can be attributed to the timeline of the Wastewater Treatment Plant expansion project which is to be 100% DC debt funded.

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**Chart 14**

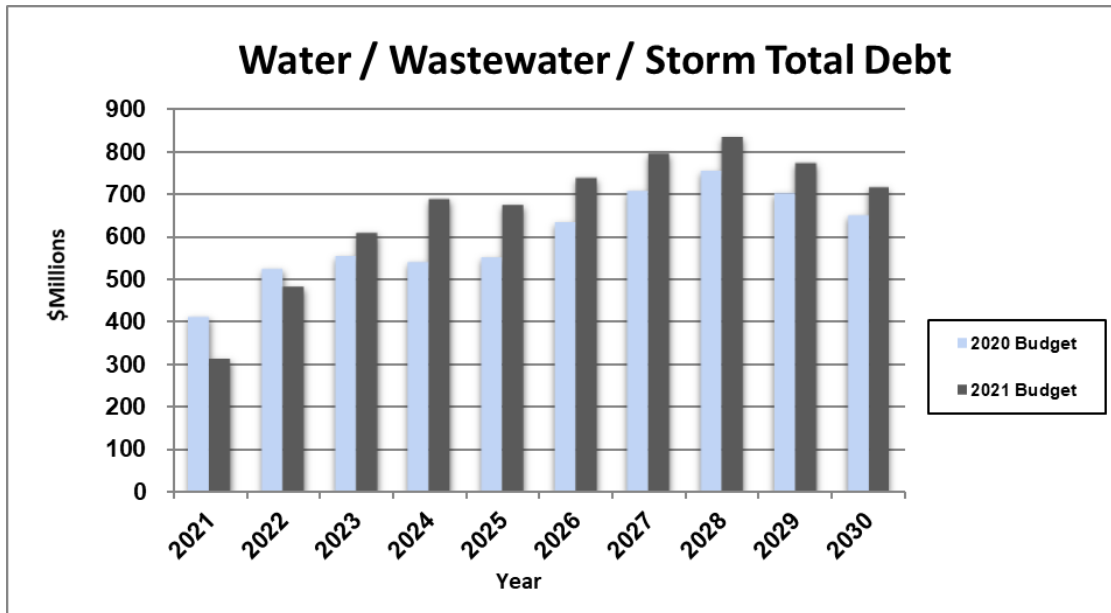
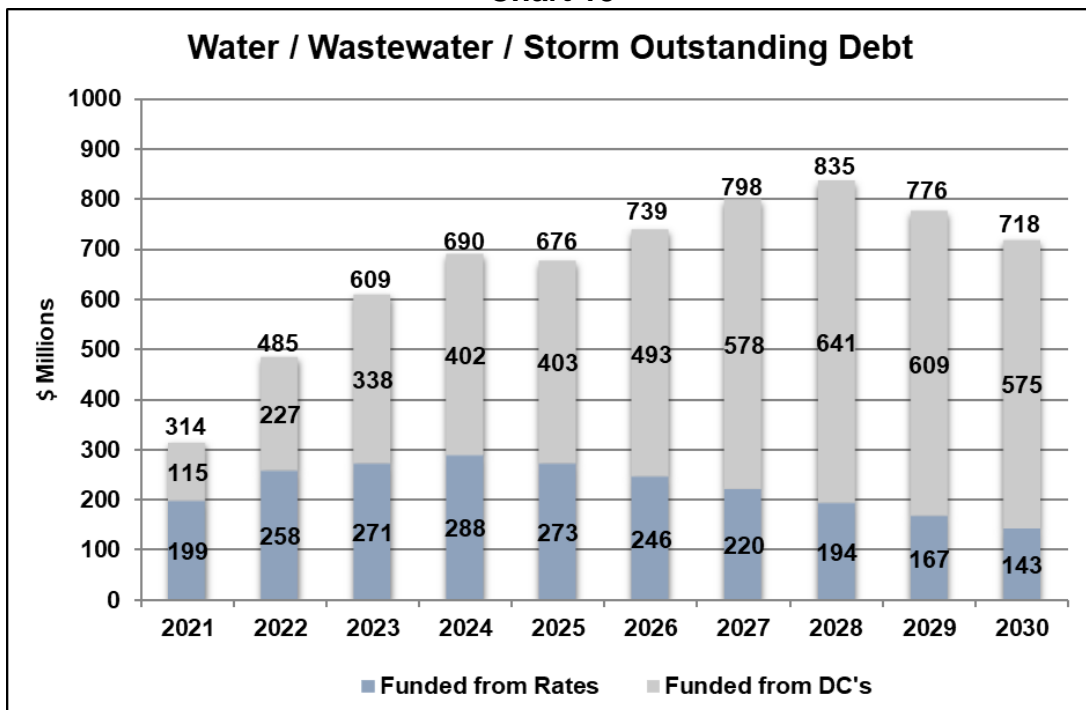


Chart 15 illustrates the projected outstanding debt for the 10-year period (2021–2030) and the funding source of the associated debt charges.

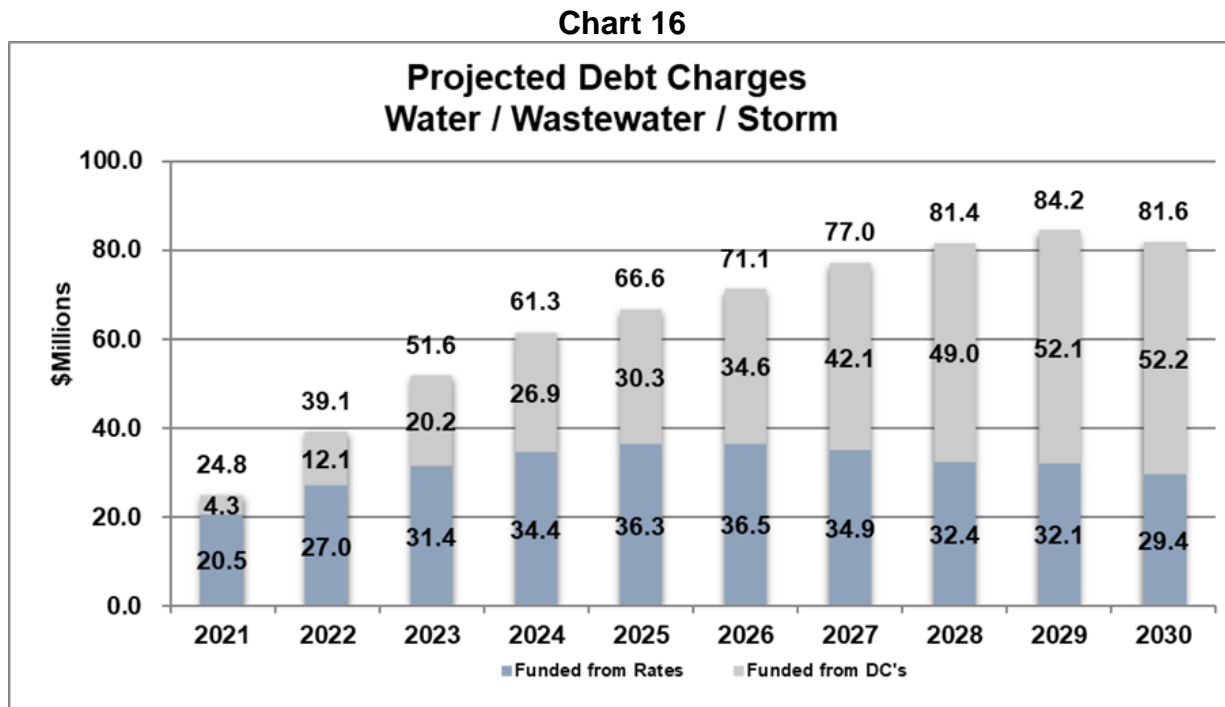
**Chart 15**





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Chart 16 shows the forecasted debt charges funded by water / sewer rates and by Development Charges. In the upcoming years, staff in Corporate Services and in conjunction with staff in Public Works will monitor the forecasted DC Debt charges in comparison to DC Revenue, to mitigate potential risks to the rate payer. Much of this risk lies with the implementation plan of the WWTP expansion project, currently forecasted for construction in years 2026-2028.



### Impact of Capital Budget on Operating Budget

As summarized in Table 7, the 2021 Rate Budget incorporates \$155.0 M capital financing costs which is an increase of \$8.6 M from the 2020 Rate budget. The 2021 budgeted debt charges increase by \$0.9 M, while contribution to capital increased by \$6.7 M when compared to the 2020 budget. DC exemption funding increased by \$1.0 M. The increase in contribution to capital is a result of directing the majority of rate increases to capital investment, as well as, adjustments to the operating budget, freeing up capital investment capacity.

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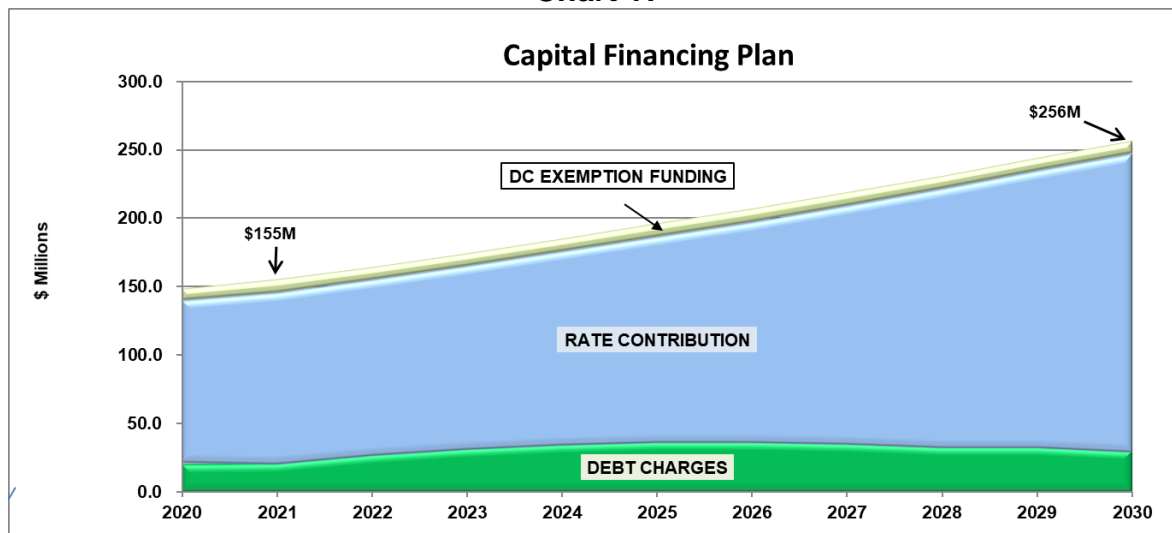
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Table 7

<b>WATER, WASTEWATER &amp; STORM IMPACT OF CAPITAL ON OPERATING BUDGET (000's)</b>					
	2020	2021	CHANGE		2021 - 2030
	APPROVED	PROPOSED	\$	%	FORECAST
Debt to be Issued	16,900	48,000	31,100	184.0%	118,800
Debt Charges (Net of DCs)	19,682	20,534	852	4.3%	314,905
Contribution to Capital	118,654	125,369	6,715	5.7%	1,623,504
DC Exemption Funding	8,000	9,000	1,000	12.5%	90,000
Impact on Operating Budget	126,170	154,903	8,567	6.8%	2,028,409

Chart 17 highlights the impact on the operating budget from the Rate Supported Capital program. These impacts are projected to increase from \$155 M in 2021 to \$256 M in 2030. Rate supported debt charges are expected to increase from 8.4% of total revenues in 2021 to 12.4% in 2025 and then decline to 8.1% in 2030.

Chart 17



## Debt Management

According to Ontario Regulation 403/02, Council shall, before giving authorization for capital work that would require a long-term debt or financial obligation, have the City Treasurer calculate an updated Annual Repayment Limit (ARL) using the most recent Annual Repayment Limit determined by the Ministry. The most recent ARL, determined and sent in writing by the Ministry to the City Treasurer, is the 2020 ARL in the amount of \$275,795,317 and is based on 2018 Financial Information Returns.

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Using this 2020 ARL, the City Treasurer has calculated an updated ARL of \$202,330,748, shown in Appendix “T” to Report FCS20073. The 2020 ARL was adjusted for possible debt service charges of \$63,749,201 corresponding to approximately \$684.8 M of debt (including City Housing Hamilton), which has been approved by Council in 2020 and prior years but not yet issued. Further adjustments were made to reflect debt service charges both for prior issued debt discharged since 2018 and for new debt assumed in 2018 and 2020.

According to this calculation, the updated ARL of \$202,330,748, represents a maximum annual amount that the City has available to commit to payments related to debt and financial obligations before the statutory limit is breached and corresponds to approximately \$2.1 B of additional borrowing which the City could undertake (assuming a 15-year term and 5% interest rate). The related tax and rate impacts would be considered before approving debt within these limits.

**ALTERNATIVES FOR CONSIDERATION**

Beyond the recommended rate increase, staff can submit for Council consideration changes to this budget submission that would require a review of the 2021 Capital Budget submissions.

**ALIGNMENT TO THE 2016 – 2025 STRATEGIC PLAN**

**Economic Prosperity and Growth**

*Hamilton has a prosperous and diverse local economy where people have opportunities to grow and develop.*

**Healthy and Safe Communities**

*Hamilton is a safe and supportive city where people are active, healthy, and have a high quality of life.*

**Clean and Green**

*Hamilton is environmentally sustainable with a healthy balance of natural and urban spaces.*

**Built Environment and Infrastructure**

*Hamilton is supported by state of the art infrastructure, transportation options, buildings and public spaces that create a dynamic City.*

**Our People and Performance**

*Hamiltonians have a high level of trust and confidence in their City government.*

**SUBJECT: 2021 Recommended Water, Wastewater and Stormwater Budget  
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**APPENDICES AND SCHEDULES ATTACHED**

Appendix “A” to Report FCS20073 – 2021 Hamilton Water, Wastewater and St Operating Budget – Combined Water, Wastewater and Storm

Appendix “B” to Report FCS20073 – 2021 Hamilton Water Operating Budget – Water

Appendix “C” to Report FCS20073 – 2021 Hamilton Wastewater and Storm Operating Budget – Combined Wastewater and Storm

Appendix “D” to Report FCS20073 – 2021 Hamilton Wastewater and Storm Operating Budget – Wastewater

Appendix “E” to Report FCS20073 – 2021 Hamilton Wastewater and Storm Operating Budget – Storm

Appendix “F” to Report FCS20073 – 2021 Rate Supported Staffing Summary and 2021 Rate Budget – Business Case Summary

Appendix “G” to Report FCS20073 – 2021 Water and Wastewater / Storm Fees and Charges Effective January 1, 2021 – 2021 Private Fire Line Rates – 2021 Proposed User Fees and Charges

Appendix “H” to Report FCS20073 – Source of Capital Financing – 2021 to 2030 Rate Program Capital Budget

Appendix “I” to Report FCS20073 – 2021 to 2030 Water / Wastewater / Storm Capital Financing Plan

Appendix “J” to Report FCS20073 – Source of Capital Financing – 2021 to 2030 Rate Program Capital Budget

Appendix “K” to Report FCS20073 – Water System – 2021 Capital Budget Project List

Appendix “L” to Report FCS20073 – Water System – 2021 to 2030 Capital Budget List

Appendix “M” to Report FCS20073 – Source of Capital Financing – 2021 to 2030 Rate Program Capital Budget

Appendix “N” to Report FCS20073 – Wastewater System – 2021 Capital Budget Project List

Appendix “O” to Report FCS20073 – Wastewater System – 2021 – 2030 Capital Budget List

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Appendix “P” to Report FCS20073 – Source of Capital Financing – 2021 to 2030 Rate Program Capital Budget

Appendix “Q” to Report FCS20073 – Storm Water Management – 2021 Capital Budget Project List

Appendix “R” to Report FCS20073 – Storm Water Management – 2021 to 2030 Capital Budget List

Appendix “S” to Report FCS20073 – 2021 Rate Program Capital Budget Summary

Appendix “T” to Report FCS20073 – City of Hamilton Treasurer’s Updated 2020 Annual Repayment Limit

JS/TT/dt

## 2021 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET

**COMBINED WATER, WASTEWATER AND STORM**

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>							
Divisional Administration & Support	2,008,040	2,008,040	2,064,490	-	0.0%	56,450	2.8%
Woodward Upgrades	1,108,390	1,108,390	1,441,380	-	0.0%	332,990	30.0%
Customer Service	314,950	267,125	325,250	47,825	15.2%	10,300	3.3%
Outreach & Education	1,239,577	893,362	1,190,590	346,215	27.9%	(48,987)	(4.0%)
Service Co-ordination	3,576,310	3,150,045	3,718,250	426,266	11.9%	141,940	4.0%
Engineering Systems & Data Collection	1,352,480	1,417,350	1,329,480	(64,870)	(4.8%)	(23,000)	(1.7%)
Compliance & Regulations	976,984	976,985	1,008,204	(1)	(0.0%)	31,220	3.2%
Laboratory Services	3,660,204	3,430,977	3,565,050	229,227	6.3%	(95,154)	(2.6%)
Environmental Monitoring & Enforcement	1,892,256	1,892,255	2,213,910	1	0.0%	321,654	17.0%
Water Distribution & Wastewater Collection	20,187,445	23,556,555	22,972,467	(3,369,110)	(16.7%)	2,785,022	13.8%
Plant Operations	24,862,850	23,328,362	26,688,044	1,534,488	6.2%	1,825,194	7.3%
Plant Maintenance	10,669,800	10,318,970	11,527,685	350,830	3.3%	857,885	8.0%
Capital Delivery	1,595,010	1,595,010	1,938,301	-	0.0%	343,291	21.5%
Sustainable Initiatives	1,431,090	1,431,094	1,083,931	(4)	(0.0%)	(347,159)	(24.3%)
Infrastructure Planning & System Design	1,877,476	1,877,475	2,286,976	1	0.0%	409,500	21.8%
Wastewater Abatement Program	1,150,040	1,150,040	1,192,450	-	0.0%	42,410	3.7%
Alectra Utilities Service Contract	5,600,000	5,600,000	5,712,000	-	0.0%	112,000	2.0%
Corporate & Departmental Support Services	6,977,580	6,977,580	7,018,270	-	0.0%	40,690	0.6%
Utilities Arrears Program	500,080	500,080	500,320	-	0.0%	240	0.0%
Sewer Lateral Management Program	300,000	202,250	300,000	97,751	32.6%	-	-
Hamilton Harbour Remedial Action Plan	382,550	382,550	370,964	-	0.0%	(11,586)	(3.0%)
Protective Plumbing Program (3P)	1,000,000	575,000	752,870	425,000	42.5%	(247,130)	(24.7%)
Financial Charges	86,020	86,020	86,020	-	0.0%	-	0.0%
	92,749,132	92,725,514	99,286,901	23,618	0.0%	6,537,769	7.0%
Capital and Reserve Recoveries	(6,029,550)	(6,029,550)	(8,635,161)	-	0.0%	(2,605,611)	43.2%
<b>Sub-Total</b>	<b>86,719,582</b>	<b>86,695,964</b>	<b>90,651,740</b>	<b>23,618</b>	<b>0.0%</b>	<b>3,932,158</b>	<b>4.5%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Water Quality Initiatives	50,296,000	50,296,000	50,498,000	-	0.0%	202,000	0.4%
Wastewater	52,673,000	52,673,000	57,237,984	-	0.0%	4,564,984	8.7%
Stormwater	15,685,000	15,685,000	17,632,679	-	0.0%	1,947,679	12.4%
<b>Sub-Total Contributions to Capital</b>	<b>118,654,000</b>	<b>118,654,000</b>	<b>125,368,663</b>	<b>-</b>	<b>0.0%</b>	<b>6,714,663</b>	<b>5.7%</b>
<b><u>Contributions for DC Exemptions</u></b>							
Water Quality Initiatives	2,240,000	2,240,000	2,520,000	-	0.0%	280,000	12.5%
Wastewater	4,080,000	4,080,000	4,590,000	-	0.0%	510,000	12.5%
Stormwater	1,680,000	1,680,000	1,890,000	-	0.0%	210,000	12.5%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>8,000,000</b>	<b>8,000,000</b>	<b>9,000,000</b>	<b>-</b>	<b>0.0%</b>	<b>1,000,000</b>	<b>12.5%</b>

## 2021 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET

**COMBINED WATER, WASTEWATER AND STORM**

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b>OPERATING EXPENDITURES:</b>							
<b>Capital Debt Charges</b>							
Water Quality Initiatives	8,593,943	8,295,616	9,844,773	298,327	3.5%	1,250,830	14.6%
Wastewater	11,514,374	7,379,737	12,534,242	4,134,637	35.9%	1,019,868	8.9%
Stormwater	3,399,997	2,303,036	2,490,898	1,096,961	32.3%	(909,099)	(26.7%)
DC Debt Charges Recoveries	(3,826,205)	(538,937)	(4,335,428)	(3,287,268)	85.9%	(509,222)	13.3%
<b>Sub-Total Debt Charges</b>	<b>19,682,108</b>	<b>17,439,452</b>	<b>20,534,486</b>	<b>2,242,656</b>	<b>11.4%</b>	<b>852,377</b>	<b>4.3%</b>
<b>Sub-Total Capital Financing</b>	<b>146,336,108</b>	<b>144,093,452</b>	<b>154,903,149</b>	<b>2,242,656</b>	<b>1.5%</b>	<b>8,567,040</b>	<b>5.9%</b>
<b>Reserve Transfers</b>	<b>(43,888)</b>	<b>2,957,724</b>	<b>0</b>	<b>(3,001,612)</b>	<b>6839.2%</b>	<b>43,889</b>	<b>(100.0%)</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>146,292,220</b>	<b>147,051,176</b>	<b>154,903,149</b>	<b>(758,956)</b>	<b>(0.5%)</b>	<b>8,610,929</b>	<b>5.9%</b>
<b>TOTAL EXPENDITURES</b>	<b>233,011,802</b>	<b>233,747,140</b>	<b>245,554,888</b>	<b>(735,338)</b>	<b>(0.3%)</b>	<b>12,543,086</b>	<b>5.4%</b>
<b>REVENUES:</b>							
<b>Rate Revenue</b>							
Residential	102,226,242	105,226,242	107,653,756	3,000,000	2.9%	5,427,514	5.3%
Industrial/Commercial/Institutional/Multi-res	112,557,622	109,557,622	118,417,217	(3,000,000)	(2.7%)	5,859,595	5.2%
Haldimand	2,476,310	2,476,310	2,588,952	-	0.0%	112,642	4.5%
Halton	259,590	259,590	269,837	-	0.0%	10,247	3.9%
Raw Water	125,000	125,000	128,750	-	0.0%	3,750	3.0%
Non-Metered	580,000	580,000	880,000	-	0.0%	300,000	51.7%
Private Fire Lines	1,850,000	1,850,000	1,924,000	-	0.0%	74,000	4.0%
Hauler / 3rd Party Sales	1,225,000	1,225,000	1,400,000	-	0.0%	175,000	14.3%
Overstrength Agreements	2,892,902	3,210,510	3,210,510	317,608	11.0%	317,608	11.0%
Sewer Surcharge Agreements	5,806,726	6,224,456	6,224,456	417,730	7.2%	417,730	7.2%
<b>Sub-Total Utility Rates</b>	<b>229,999,392</b>	<b>230,734,730</b>	<b>242,697,478</b>	<b>735,338</b>	<b>0.3%</b>	<b>12,698,086</b>	<b>5.5%</b>
<b>Non-Rate Revenue</b>							
Local Improvement Recoveries	275,850	275,850	275,850	-	0.0%	-	-
Permits / Leases / Agreements	1,365,050	1,365,050	1,065,050	-	0.0%	(300,000)	(22.%)
Investment Income	450,000	450,000	450,000	-	0.0%	-	-
General Fees and Recoveries	921,510	921,510	1,066,510	-	0.0%	145,000	15.7%
<b>Sub-Total Non-Rate Revenue</b>	<b>3,012,410</b>	<b>3,012,410</b>	<b>2,857,410</b>	<b>-</b>	<b>0.0%</b>	<b>(155,000)</b>	<b>(5.1%)</b>
<b>TOTAL REVENUES</b>	<b>233,011,802</b>	<b>233,747,140</b>	<b>245,554,888</b>	<b>735,338</b>	<b>0.3%</b>	<b>12,543,086</b>	<b>5.4%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2021 - 2024 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WATER, WASTEWATER AND STORM**

	2020	2021	2022	2023	2024	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2021 REQUESTED / 2020 RESTATED BUDGET	%	2022 PROJECTED / 2021 REQUESTED BUDGET	%	2023 PROJECTED / 2022 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>OPERATING EXPENDITURES:</b>											
Divisional Administration & Support	2,008,040	2,064,490	2,105,780	2,147,895	2,190,853	56,450	2.8%	41,290	2.0%	42,116	2.0%
Woodward Upgrades	1,108,390	1,441,380	1,470,207	1,499,611	1,529,603	332,990	30.0%	28,828	2.0%	29,404	2.0%
Customer Service	314,950	325,250	331,755	338,390	345,158	10,300	3.3%	6,505	2.0%	6,635	2.0%
Outreach & Education	1,239,577	1,190,590	1,214,402	1,238,690	1,263,464	(48,987)	(4.0%)	23,812	2.0%	24,288	2.0%
Service Co-ordination	3,576,310	3,718,250	3,792,615	3,868,467	3,945,836	141,940	4.0%	74,365	2.0%	75,852	2.0%
Engineering Systems & Data Collection	1,352,480	1,329,480	1,356,070	1,383,191	1,410,855	(23,000)	(1.7%)	26,590	2.0%	27,121	2.0%
Compliance & Regulations	976,984	1,008,204	1,028,368	1,048,935	1,069,914	31,220	3.2%	20,164	2.0%	20,567	2.0%
Laboratory Services	3,660,204	3,565,050	3,636,351	3,709,078	3,783,260	(95,154)	(2.6%)	71,301	2.0%	72,727	2.0%
Environmental Monitoring & Enforcement	1,892,256	2,213,910	2,258,188	2,303,352	2,349,419	321,654	17.0%	44,278	2.0%	45,164	2.0%
Water Distribution & Wastewater Collection	20,187,445	22,972,467	23,431,916	23,900,554	24,378,566	2,785,022	13.8%	459,449	2.0%	468,638	2.0%
Plant Operations	24,862,850	26,688,044	27,221,805	27,766,241	28,321,566	1,825,194	7.3%	533,761	2.0%	544,436	2.0%
Plant Maintenance	10,669,800	11,527,685	11,758,239	11,993,403	12,233,271	857,885	8.0%	230,554	2.0%	235,165	2.0%
Capital Delivery	1,595,010	1,938,301	1,977,067	2,016,608	2,056,940	343,291	21.5%	38,766	2.0%	39,541	2.0%
Sustainable Initiatives	1,431,090	1,083,931	1,105,610	1,127,722	1,150,276	(347,159)	(24.3%)	21,679	2.0%	22,112	2.0%
Infrastructure Planning & System Design	1,877,476	2,286,976	2,332,716	2,379,370	2,426,957	409,500	21.8%	45,740	2.0%	46,654	2.0%
Wastewater Abatement Program	1,150,040	1,192,450	1,216,299	1,240,625	1,265,437	42,410	3.7%	23,849	2.0%	24,326	2.0%
Alectra Utilities Service Contract	5,600,000	5,712,000	5,826,240	5,942,765	6,050,000	112,000	2.0%	114,240	2.0%	116,525	2.0%
Corporate & Departmental Support Services	6,977,580	7,018,270	7,158,635	7,301,808	7,447,844	40,690	0.6%	140,365	2.0%	143,173	2.0%
Utilities Arrears Program	500,080	500,320	510,326	520,533	530,944	240	0.0%	10,006	2.0%	10,207	2.0%
Sewer Lateral Management Program	300,000	300,000	306,000	312,120	318,362	-	0.0%	6,000	2.0%	6,120	2.0%
Hamilton Harbour Remedial Action Plan	382,550	370,964	378,383	385,951	393,670	(11,586)	(3.0%)	7,419	2.0%	7,568	2.0%
Protective Plumbing Program (3P)	1,000,000	752,870	767,927	783,286	798,952	(247,130)	(24.7%)	15,057	2.0%	15,359	2.0%
Financial Charges	86,020	86,020	87,740	89,495	91,285	-	0.0%	1,720	2.0%	1,755	2.0%
	92,749,132	99,286,901	101,272,639	103,298,091	105,352,433	6,537,769	7.0%	1,985,738	2.0%	2,025,453	2.0%
Capital and Reserve Recoveries	(6,029,550)	(8,635,161)	(8,807,864)	(8,984,021)	(9,163,702)	(2,605,611)	43.2%	(172,703)	2.0%	(176,157)	2.0%
<b>Sub-Total</b>	<b>86,719,582</b>	<b>90,651,740</b>	<b>92,464,774</b>	<b>94,314,070</b>	<b>96,188,731</b>	<b>3,932,158</b>	<b>4.5%</b>	<b>1,813,035</b>	<b>2.0%</b>	<b>1,849,295</b>	<b>2.0%</b>
<b>Capital and Reserve Impacts on Operating</b>											
<b>Contributions to Capital</b>											
Water Quality Initiatives	50,296,000	50,498,000	62,233,865	67,894,186	68,135,842	202,000	0.4%	11,735,865	23.2%	5,660,321	9.1%
Wastewater	52,673,000	57,237,984	46,724,000	42,673,000	43,978,000	4,564,984	8.7%	(10,513,984)	(18.4%)	(4,051,000)	(8.7%)
Stormwater	15,685,000	17,632,679	19,084,321	23,175,000	29,390,000	1,947,679	12.4%	1,451,642	8.2%	4,090,679	21.4%
<b>Sub-Total Contributions to Capital</b>	<b>118,654,000</b>	<b>125,368,663</b>	<b>128,042,186</b>	<b>133,742,186</b>	<b>141,503,842</b>	<b>6,714,663</b>	<b>5.7%</b>	<b>2,673,523</b>	<b>2.1%</b>	<b>5,700,000</b>	<b>4.5%</b>
<b>Contributions for DC Exemptions</b>											
Water Quality Initiatives	2,240,000	2,520,000	2,520,000	2,520,000	2,520,000	280,000	12.5%	-	0.0%	-	0.0%
Wastewater	4,080,000	4,590,000	4,590,000	4,590,000	4,590,000	510,000	12.5%	-	0.0%	-	0.0%
Stormwater	1,680,000	1,890,000	1,890,000	1,890,000	1,890,000	210,000	12.5%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>8,000,000</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>9,000,000</b>	<b>1,000,000</b>	<b>12.5%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b>Debt Charges</b>											
Water Quality Initiatives	8,593,943	9,844,773	15,213,851	20,743,578	25,478,475	1,250,830	14.6%	5,369,078	54.5%	5,529,728	36.3%
Wastewater	11,514,374	12,534,242	20,704,348	26,710,639	30,660,697	1,019,868	8.9%	8,170,105	65.2%	6,006,292	29.0%
Stormwater	3,399,997	2,490,898	3,185,448	4,157,207	5,127,892	(909,099)	(26.7%)	694,550	27.9%	971,759	30.5%
DC Debt Charges Recoveries	(3,826,205)	(4,335,428)	(12,147,411)	(20,194,201)	(26,916,293)	(509,222)	13.3%	(7,811,983)	180.2%	(8,046,790)	66.2%
<b>Sub-Total Debt Charges</b>	<b>19,682,108</b>	<b>20,534,486</b>	<b>26,956,235</b>	<b>31,417,224</b>	<b>34,350,771</b>	<b>852,377</b>	<b>4.3%</b>	<b>6,421,749</b>	<b>31.3%</b>	<b>4,460,989</b>	<b>16.5%</b>
<b>Sub-Total Capital Financing</b>	<b>146,336,108</b>	<b>154,903,149</b>	<b>163,998,421</b>	<b>174,159,410</b>	<b>184,854,613</b>	<b>8,567,040</b>	<b>5.9%</b>	<b>9,095,272</b>	<b>5.9%</b>	<b>10,160,989</b>	<b>6.2%</b>
Reserve Transfers	(43,888)	0	0	0	0	43,889	(100.0%)	(0)	(68.3%)	0	359.1%
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>146,292,220</b>	<b>154,903,149</b>	<b>163,998,421</b>	<b>174,159,410</b>	<b>184,854,613</b>	<b>8,610,929</b>	<b>5.9%</b>	<b>9,095,272</b>	<b>5.9%</b>	<b>10,160,989</b>	<b>6.2%</b>
<b>TOTAL EXPENDITURES</b>	<b>233,011,802</b>	<b>245,554,888</b>	<b>256,463,196</b>	<b>268,473,480</b>	<b>281,043,345</b>	<b>12,543,086</b>	<b>5.4%</b>	<b>10,908,307</b>	<b>4.4%</b>	<b>12,010,285</b>	<b>4.7%</b>



**CITY OF HAMILTON  
2021 - 2024 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET  
COMBINED WATER, WASTEWATER AND STORM**

	2020	2021	2022	2023	2024	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2021 REQUESTED / 2020 RESTATED BUDGET	%	2022 PROJECTED / 2021 REQUESTED BUDGET	%	2023 PROJECTED / 2022 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>REVENUES:</b>											
<b>Rate Revenue</b>											
Residential	102,226,242	107,653,756	113,268,028	119,451,372	126,023,132	5,427,514	5.3%	5,614,272	5.2%	6,183,343	5.5%
Industrial/Commercial/Institutional/Multi-res	112,557,622	118,417,217	123,091,680	128,267,805	133,729,076	5,859,595	5.2%	4,674,464	3.9%	5,176,125	4.2%
Haldimand	2,476,310	2,588,952	2,697,501	2,820,792	2,938,075	112,642	4.5%	108,549	4.2%	123,291	4.6%
Halton	259,590	269,837	281,042	293,885	306,728	10,247	3.9%	11,204	4.2%	12,843	4.6%
Raw Water	125,000	128,750	132,613	136,591	140,689	3,750	3.0%	3,863	3.0%	3,978	3.0%
Non-Metered	580,000	880,000	910,000	940,000	970,000	300,000	51.7%	30,000	3.4%	30,000	3.3%
Private Fire Lines	1,850,000	1,924,000	2,000,960	2,080,998	2,165,000	74,000	4.0%	76,960	4.0%	80,038	4.0%
Hauler / 3rd Party Sales	1,225,000	1,400,000	1,442,000	1,485,260	1,515,739	175,000	14.3%	42,000	3.0%	43,260	3.0%
Overstrength Agreements	2,892,902	3,210,510	3,306,825	3,406,030	3,474,151	317,608	11.0%	96,315	3.0%	99,205	3.0%
Sewer Surcharge Agreements	5,806,726	6,224,456	6,411,190	6,603,525	6,735,596	417,730	7.2%	186,734	3.0%	192,336	3.0%
<b>Sub-Total Utility Rates</b>	<b>229,999,392</b>	<b>242,697,478</b>	<b>253,541,839</b>	<b>265,486,258</b>	<b>277,998,186</b>	<b>12,698,086</b>	<b>5.5%</b>	<b>10,844,360</b>	<b>4.5%</b>	<b>11,944,420</b>	<b>4.7%</b>
<b>Non-Rate Revenue</b>											
Local Improvement Recoveries	275,850	275,850	275,850	275,850	275,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	1,365,050	1,065,050	1,097,002	1,129,912	1,135,809	(300,000)	(22.0%)	31,952	3.0%	32,910	3.0%
Investment Income	450,000	450,000	450,000	450,000	450,000	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	921,510	1,066,510	1,098,505	1,131,460	1,183,500	145,000	15.7%	31,995	3.0%	32,955	3.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>3,012,410</b>	<b>2,857,410</b>	<b>2,921,357</b>	<b>2,987,222</b>	<b>3,045,159</b>	<b>(155,000)</b>	<b>(5.1%)</b>	<b>63,947</b>	<b>2.2%</b>	<b>65,865</b>	<b>2.3%</b>
<b>TOTAL REVENUES</b>	<b>233,011,802</b>	<b>245,554,888</b>	<b>256,463,196</b>	<b>268,473,480</b>	<b>281,043,345</b>	<b>12,543,086</b>	<b>5.4%</b>	<b>10,908,307</b>	<b>4.4%</b>	<b>12,010,285</b>	<b>4.7%</b>
<b>NET EXPENDITURES</b>	<b>(0)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(0)</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2021-2030 HAMILTON WATER, WASTEWATER & STORM OPERATING BUDGET**  
**COMBINED WATER, WASTEWATER AND STORM**  
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	2020 Restated	2021 Requested	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast
<b>OPERATING EXPENDITURES</b>											
OPERATING COSTS	86,720	90,652	92,465	92,714	94,557	96,448	98,377	100,344	102,351	104,398	106,486
TERTIARY TREATMENT	-	-	-	1,600	1,632	1,665	1,698	1,732	1,767	1,802	1,838
<b>TOTAL OPERATING COSTS</b>	<b>86,720</b>	<b>90,652</b>	<b>92,465</b>	<b>94,314</b>	<b>96,189</b>	<b>98,113</b>	<b>100,075</b>	<b>102,076</b>	<b>104,118</b>	<b>106,200</b>	<b>108,324</b>
<b>CAPITAL &amp; RESERVE IMPACTS ON OPERATING</b>											
<b>Contributions to Capital</b>											
Water	50,296	50,498	62,234	67,894	68,136	76,637	80,095	69,139	71,923	105,624	112,677
Wastewater	52,673	57,238	46,724	42,673	43,978	55,168	58,611	63,935	79,927	60,178	74,363
Stormwater	15,685	17,633	19,084	23,175	29,390	18,505	22,235	41,405	37,105	36,515	30,805
<b>Sub-total Contributions to Capital</b>	<b>118,654</b>	<b>125,369</b>	<b>128,042</b>	<b>133,742</b>	<b>141,504</b>	<b>150,310</b>	<b>160,941</b>	<b>174,478</b>	<b>188,956</b>	<b>202,317</b>	<b>217,845</b>
<b>Contributions for DC Exemptions</b>											
Water	2,240	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
Wastewater	4,080	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590
Stormwater	1,680	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890
<b>Sub-total Contributions to Capital</b>	<b>8,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>	<b>9,000</b>
<b>Debt Charges</b>											
Water	8,594	9,845	15,214	20,744	25,478	28,475	29,961	29,956	29,401	29,303	27,855
Wastewater	11,514	12,534	20,704	26,711	30,661	32,493	35,644	41,476	46,421	49,464	48,289
Stormwater	3,400	2,491	3,185	4,157	5,128	5,589	5,541	5,543	5,544	5,494	5,414
DC Debt Charges Recoveries	(3,826)	(4,335)	(12,147)	(20,194)	(26,916)	(30,258)	(34,638)	(42,087)	(48,949)	(52,118)	(52,167)
<b>Sub-total Debt Charges</b>	<b>19,682</b>	<b>20,534</b>	<b>26,956</b>	<b>31,417</b>	<b>34,351</b>	<b>36,299</b>	<b>36,509</b>	<b>34,889</b>	<b>32,417</b>	<b>32,143</b>	<b>29,390</b>
<b>Reserve Transfers</b>	<b>(44)</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>(0)</b>
<b>Sub-Total Capital &amp; Reserve Impacts on Operating</b>	<b>146,292</b>	<b>154,903</b>	<b>163,998</b>	<b>174,159</b>	<b>184,855</b>	<b>195,610</b>	<b>206,449</b>	<b>218,367</b>	<b>230,373</b>	<b>243,459</b>	<b>256,236</b>
<b>TOTAL EXPENDITURES</b>	<b>233,012</b>	<b>245,555</b>	<b>256,463</b>	<b>268,473</b>	<b>281,043</b>	<b>293,722</b>	<b>306,524</b>	<b>320,443</b>	<b>334,491</b>	<b>349,659</b>	<b>364,560</b>
<b>REVENUES</b>											
Residential	102,226	107,654	113,268	119,451	126,023	132,710	139,512	146,824	154,262	162,680	171,134
Industrial/Commercial/Institutional/Multi-res	112,558	118,417	123,092	128,268	133,729	139,190	144,652	150,691	156,731	162,902	168,781
Haldimand	2,476	2,589	2,698	2,821	2,938	3,061	3,185	3,328	3,464	3,600	3,718
Halton	260	270	281	294	307	320	332	346	361	375	389
Raw Water	125	129	133	137	141	145	149	154	158	163	168
Non-Metered	580	880	910	940	970	1,000	1,030	1,060	1,090	1,120	1,150
Private Fire Lines	1,850	1,924	2,001	2,081	2,165	2,230	2,297	2,366	2,437	2,510	2,585
Hauler / 3rd Party Sales	1,225	1,400	1,442	1,485	1,516	1,546	1,577	1,609	1,641	1,673	1,707
Overstrength Agreements	2,893	3,211	3,307	3,406	3,474	3,544	3,615	3,687	3,761	3,836	3,912
Sewer Surcharge Agreements	5,807	6,224	6,411	6,604	6,736	6,870	7,008	7,148	7,291	7,437	7,585
Non-Rate Revenue	3,012	2,857	2,921	2,987	3,045	3,106	3,168	3,232	3,296	3,362	3,429
<b>TOTAL REVENUES</b>	<b>233,012</b>	<b>245,555</b>	<b>256,463</b>	<b>268,473</b>	<b>281,043</b>	<b>293,722</b>	<b>306,524</b>	<b>320,443</b>	<b>334,491</b>	<b>349,659</b>	<b>364,560</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Rate Increase</b>	<b>4.11%</b>	<b>4.28%</b>	<b>4.05%</b>	<b>4.29%</b>	<b>4.35%</b>	<b>4.16%</b>	<b>4.00%</b>	<b>4.13%</b>	<b>3.97%</b>	<b>4.33%</b>	<b>4.07%</b>
<b>RESIDENTIAL BILL (200m<sup>3</sup> p.a.)</b>	<b>\$ 752.60</b>	<b>\$ 784.80</b>	<b>\$ 816.55</b>	<b>\$ 851.55</b>	<b>\$ 888.55</b>	<b>\$ 925.55</b>	<b>\$ 962.55</b>	<b>\$ 1,002.35</b>	<b>\$ 1,042.15</b>	<b>\$ 1,087.25</b>	<b>\$ 1,131.55</b>

**CITY OF HAMILTON**  
**2021 HAMILTON WATER OPERATING BUDGET**

**WATER**

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED ACTUAL / 2020 RESTATED BUDGET	2021 REQUESTED / 2020 RESTATED BUDGET	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>							
Divisional Administration & Support	907,025	907,025	932,523	-	0.0%	25,498	2.8%
Woodward Upgrades	-	-	-	-	0.0%	-	0.0%
Customer Service	157,800	133,838	162,961	23,962	15.2%	5,161	3.3%
Outreach & Education	633,544	456,594	608,507	176,949	27.9%	(25,037)	(4.0%)
Service Co-ordination	1,759,534	1,549,813	1,829,368	209,721	11.9%	69,834	4.0%
Engineering Systems & Data Collection	676,235	708,669	664,735	(32,435)	(4.8%)	(11,500)	(1.7%)
Compliance & Regulations	488,486	488,487	504,096	(0)	(0.0%)	15,610	3.2%
Laboratory Services	1,175,345	1,101,737	1,144,789	73,608	6.3%	(30,555)	(2.6%)
Environmental Monitoring & Enforcement	-	-	-	-	0.0%	-	0.0%
Water Distribution & Wastewater Collection	14,919,229	17,409,119	16,977,457	(2,489,890)	(16.7%)	2,058,229	13.8%
Plant Operations	12,228,633	11,473,905	13,126,343	754,728	6.2%	897,710	7.3%
Plant Maintenance	5,247,873	5,075,319	5,669,818	172,553	3.3%	421,945	8.0%
Capital Delivery	717,755	717,755	872,235	-	0.0%	154,481	21.5%
Sustainable Initiatives	643,990	643,991	487,768	(2)	(0.0%)	(156,221)	(24.3%)
Infrastructure Planning & System Design	777,946	777,945	947,625	-	0.0%	169,679	21.8%
Wastewater Abatement Program	-	-	-	-	0.0%	-	0.0%
Alectra Utilities Service Contract	2,800,000	2,800,000	2,856,000	-	0.0%	56,000	2.0%
Corporate & Departmental Support Services	3,116,080	3,116,080	3,134,251	-	0.0%	18,172	0.6%
Utilities Arrears Program	250,040	250,040	250,160	-	0.0%	120	0.0%
	46,499,513	47,610,318	50,168,637	(1,110,805)	(2.4%)	3,669,124	7.9%
Capital and Reserve Recoveries	(1,860,163)	(1,860,163)	(2,664,014)	-	0.0%	(803,851)	43.2%
<b>Sub-Total</b>	<b>\$ 44,639,350</b>	<b>\$ 45,750,154</b>	<b>\$ 47,504,623</b>	<b>\$ (1,110,805)</b>	<b>(2.5%)</b>	<b>\$ 2,865,273</b>	<b>6.4%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Water Quality Initiatives	50,296,000	50,296,000	50,498,000	-	0.0%	202,000	0.4%
<b>Sub-Total Contributions to Capital</b>	<b>50,296,000</b>	<b>50,296,000</b>	<b>50,498,000</b>	<b>-</b>	<b>0.0%</b>	<b>202,000</b>	<b>0.4%</b>
<b><u>Contributions for DC Exemptions</u></b>							
Water Quality Initiatives	2,240,000	2,240,000	2,520,000	-	0.0%	280,000	12.5%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>2,240,000</b>	<b>2,240,000</b>	<b>2,520,000</b>	<b>-</b>	<b>0.0%</b>	<b>280,000</b>	<b>12.5%</b>

**CITY OF HAMILTON**  
**2021 HAMILTON WATER OPERATING BUDGET**  
**WATER**

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b>Debt Charges</b>							
Water Quality Initiatives	8,593,943	6,582,511	9,844,773	2,011,432	23.4%	1,250,830	14.6%
DC Debt Charges Recoveries	(976,370)	(24,584)	(1,110,536)	(951,786)	97.5%	(134,166)	13.7%
<b>Sub-Total Debt Charges</b>	<b>7,617,573</b>	<b>6,557,927</b>	<b>8,734,237</b>	<b>1,059,646</b>	<b>13.9%</b>	<b>1,116,663</b>	<b>14.7%</b>
<b>Sub-Total Capital Financing</b>	<b>60,153,573</b>	<b>59,093,927</b>	<b>61,752,237</b>	<b>1,059,646</b>	<b>1.8%</b>	<b>1,598,663</b>	<b>2.7%</b>
Reserve Transfers	7,328,152	7,278,204	8,506,119	49,948	0.7%	1,177,967	16.1%
<b>Sub-Total Cap/Reserve Impacts on Operating</b>	<b>67,481,725</b>	<b>66,372,131</b>	<b>70,258,356</b>	<b>1,109,594</b>	<b>1.6%</b>	<b>2,776,630</b>	<b>4.1%</b>
<b>TOTAL EXPENDITURES</b>	<b>112,121,075</b>	<b>112,122,285</b>	<b>117,762,978</b>	<b>(1,210)</b>	<b>(0.0%)</b>	<b>5,641,903</b>	<b>5.0%</b>
<b>REVENUES:</b>							
<b>Rate Revenue</b>							
Residential	49,887,594	51,351,629	52,204,561	1,464,035	2.9%	2,316,967	4.6%
Industrial/Commercial/Institutional/Multi-res	54,884,021	53,421,197	57,888,030	(1,462,825)	(2.7%)	3,004,008	5.5%
Haldimand	2,476,310	2,476,310	2,588,952	-	0.0%	112,642	4.5%
Halton	259,590	259,590	269,837	-	0.0%	10,247	3.9%
Raw Water	125,000	125,000	128,750	-	0.0%	3,750	3.0%
Non-Metered	290,000	290,000	440,000	-	0.0%	150,000	51.7%
Private Fire Lines	1,850,000	1,850,000	1,924,000	-	0.0%	74,000	4.0%
Hauler / 3rd Party Sales	435,000	435,000	497,143	-	0.0%	62,143	14.3%
<b>Sub-Total Utility Rates</b>	<b>110,207,515</b>	<b>110,208,725</b>	<b>115,941,273</b>	<b>1,210</b>	<b>0.0%</b>	<b>5,733,758</b>	<b>5.2%</b>
<b>Non-Rate Revenue</b>							
Local Improvement Recoveries	10,000	10,000	10,000	-	0.0%	-	0.0%
Permits / Leases / Agreements	850,050	850,050	663,233	-	0.0%	(186,817)	(22.0%)
Investment Income	450,000	450,000	450,000	-	0.0%	-	0.0%
General Fees and Recoveries	603,510	603,510	698,473	-	0.0%	94,963	15.7%
<b>Sub-Total Non-Rate Revenue</b>	<b>1,913,560</b>	<b>1,913,560</b>	<b>1,821,705</b>	<b>-</b>	<b>0.0%</b>	<b>(91,855)</b>	<b>(4.8%)</b>
<b>TOTAL REVENUES</b>	<b>112,121,075</b>	<b>112,122,285</b>	<b>117,762,978</b>	<b>1,210</b>	<b>0.0%</b>	<b>5,641,903</b>	<b>5.0%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON  
2021 - 2024 HAMILTON WATER OPERATING BUDGET  
WATER**

	2020	2021	2022	2023	2024	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2021 REQUESTED / 2020 RESTATED BUDGET	%	2022 PROJECTED / 2021 REQUESTED BUDGET	%	2023 PROJECTED / 2022 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>OPERATING EXPENDITURES:</b>											
Divisional Administration & Support	907,025	932,523	951,174	970,197	989,601	25,498	2.8%	18,650	2.0%	19,023	2.0%
Woodward Upgrades	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Customer Service	157,800	162,961	166,220	169,544	172,935	5,161	3.3%	3,259	2.0%	3,324	2.0%
Outreach & Education	633,544	608,507	620,677	633,090	645,752	(25,037)	(4.0%)	12,170	2.0%	12,414	2.0%
Service Co-ordination	1,759,534	1,829,368	1,865,956	1,903,275	1,941,340	69,834	4.0%	36,587	2.0%	37,319	2.0%
Engineering Systems & Data Collection	676,235	664,735	678,030	691,590	705,422	(11,500)	(1.7%)	13,295	2.0%	13,561	2.0%
Compliance & Regulations	488,486	504,096	514,178	524,462	534,951	15,610	3.2%	10,082	2.0%	10,284	2.0%
Laboratory Services	1,175,345	1,144,789	1,167,685	1,191,039	1,214,860	(30,555)	(2.6%)	22,896	2.0%	23,354	2.0%
Environmental Monitoring & Enforcement	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Water Distribution & Wastewater Collection	14,919,229	16,977,457	17,317,006	17,663,347	18,016,614	2,058,229	13.8%	339,549	2.0%	346,340	2.0%
Plant Operations	12,228,633	13,126,343	13,388,870	13,656,648	13,929,781	897,710	7.3%	262,527	2.0%	267,777	2.0%
Plant Maintenance	5,247,873	5,669,818	5,783,214	5,898,879	6,016,856	421,945	8.0%	113,396	2.0%	115,664	2.0%
Capital Delivery	717,755	872,235	889,680	907,474	925,623	154,481	21.5%	17,445	2.0%	17,794	2.0%
Sustainable Initiatives	643,990	487,768	497,524	507,474	517,624	(156,221)	(24.3%)	9,755	2.0%	9,950	2.0%
Infrastructure Planning & System Design	777,946	947,625	966,577	985,909	1,005,627	169,679	21.8%	18,952	2.0%	19,332	2.0%
Wastewater Abatement Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Alectra Utilities Service Contract	2,800,000	2,856,000	2,913,120	2,971,382	3,025,000	56,000	2.0%	57,120	2.0%	58,262	2.0%
Corporate & Departmental Support Services	3,116,080	3,134,251	3,196,936	3,260,875	3,326,093	18,172	0.6%	62,685	2.0%	63,939	2.0%
Utilities Arrears Program	250,040	250,160	255,163	260,266	265,472	120	0.0%	5,003	2.0%	5,103	2.0%
	<b>46,499,513</b>	<b>50,168,637</b>	<b>51,172,010</b>	<b>52,195,450</b>	<b>53,233,549</b>	<b>3,669,124</b>	<b>7.9%</b>	<b>1,003,373</b>	<b>2.0%</b>	<b>1,023,440</b>	<b>2.0%</b>
Capital and Reserve Recoveries	(1,860,163)	(2,664,014)	(2,717,295)	(2,771,641)	(2,827,073)	(803,851)	43.2%	(53,280)	2.0%	(54,346)	2.0%
<b>Sub-Total</b>	<b>44,639,350</b>	<b>47,504,623</b>	<b>48,454,715</b>	<b>49,423,810</b>	<b>50,406,476</b>	<b>2,865,273</b>	<b>6.4%</b>	<b>950,092</b>	<b>2.0%</b>	<b>969,094</b>	<b>2.0%</b>
<b>Capital and Reserve Impacts on Operating</b>											
<b>Contributions to Capital</b>											
Water Quality Initiatives	50,296,000	50,498,000	62,233,865	67,894,186	68,135,842	202,000	0.4%	11,735,865	23.2%	5,660,321	9.1%
<b>Sub-Total Contributions to Capital</b>	<b>50,296,000</b>	<b>50,498,000</b>	<b>62,233,865</b>	<b>67,894,186</b>	<b>68,135,842</b>	<b>202,000</b>	<b>0.4%</b>	<b>11,735,865</b>	<b>23.2%</b>	<b>5,660,321</b>	<b>9.1%</b>
<b>Contributions for DC Exemptions</b>											
Water Quality Initiatives	2,240,000	2,520,000	2,520,000	2,520,000	2,520,000	280,000	12.5%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>2,240,000</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>2,520,000</b>	<b>280,000</b>	<b>12.5%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b>Debt Charges</b>											
Water Quality Initiatives	8,593,943	9,844,773	15,213,851	20,743,578	25,478,475	1,250,830	14.6%	5,369,078	54.5%	5,529,728	36.3%
DC Debt Charges Recoveries	(976,370)	(1,110,536)	(3,573,221)	(7,003,781)	(10,011,394)	(134,166)	13.7%	(2,462,685)	221.8%	(3,430,560)	96.0%
<b>Sub-Total Debt Charges</b>	<b>7,617,573</b>	<b>8,734,237</b>	<b>11,640,630</b>	<b>13,739,797</b>	<b>15,467,082</b>	<b>1,116,663</b>	<b>14.7%</b>	<b>2,906,393</b>	<b>33.3%</b>	<b>2,099,168</b>	<b>18.0%</b>
<b>Sub-Total Capital Financing</b>	<b>60,153,573</b>	<b>61,752,237</b>	<b>76,394,495</b>	<b>84,153,983</b>	<b>86,122,924</b>	<b>1,598,663</b>	<b>2.7%</b>	<b>14,642,258</b>	<b>23.7%</b>	<b>7,759,489</b>	<b>10.2%</b>
<b>Reserve Transfers</b>	<b>7,328,152</b>	<b>8,506,119</b>	<b>(2,007,906)</b>	<b>(4,447,766)</b>	<b>(1,063,820)</b>	<b>1,177,967</b>	<b>16.1%</b>	<b>(10,514,025)</b>	<b>(123.6%)</b>	<b>(2,439,860)</b>	<b>121.5%</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>67,481,725</b>	<b>70,258,356</b>	<b>74,386,589</b>	<b>79,706,217</b>	<b>85,059,104</b>	<b>2,776,630</b>	<b>4.1%</b>	<b>4,128,233</b>	<b>5.9%</b>	<b>5,319,629</b>	<b>7.2%</b>
<b>TOTAL EXPENDITURES</b>	<b>112,121,075</b>	<b>117,762,978</b>	<b>122,841,304</b>	<b>129,130,027</b>	<b>135,465,580</b>	<b>5,641,903</b>	<b>5.0%</b>	<b>5,078,326</b>	<b>4.3%</b>	<b>6,288,723</b>	<b>5.1%</b>

**CITY OF HAMILTON  
 2021 - 2024 HAMILTON WATER OPERATING BUDGET  
 WATER**

	2020 RESTATED BUDGET	2021 REQUESTED BUDGET	2022 PROJECTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	CHANGE 2021 REQUESTED / 2020 RESTATED BUDGET		CHANGE 2022 PROJECTED / 2021 REQUESTED BUDGET		CHANGE 2023 PROJECTED / 2022 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>REVENUES:</b>											
<b>Rate Revenue</b>											
Residential	49,887,594	52,204,561	54,744,180	57,971,287	61,255,927	2,316,967	4.6%	2,539,619	4.9%	3,227,107	5.9%
Industrial/Commercial/Institutional/Multi-res	54,884,021	57,888,030	60,155,395	62,924,422	65,693,448	3,004,008	5.5%	2,267,365	3.9%	2,769,027	4.6%
Haldimand	2,476,310	2,588,952	2,697,501	2,820,792	2,938,075	112,642	4.5%	108,549	4.2%	123,291	4.6%
Halton	259,590	269,837	281,042	293,885	306,728	10,247	3.9%	11,204	4.2%	12,843	4.6%
Raw Water	125,000	128,750	132,613	136,591	140,689	3,750	3.0%	3,863	3.0%	3,978	3.0%
Non-Metered	290,000	440,000	455,000	470,000	485,000	150,000	51.7%	15,000	3.4%	15,000	3.3%
Private Fire Lines	1,850,000	1,924,000	2,000,960	2,080,998	2,165,000	74,000	4.0%	76,960	4.0%	80,038	4.0%
Hauler / 3rd Party Sales	435,000	497,143	512,057	527,419	538,741	62,143	14.3%	14,914	3.0%	15,362	3.0%
<b>Sub-Total Utility Rates</b>	<b>110,207,515</b>	<b>115,941,273</b>	<b>120,978,748</b>	<b>127,225,394</b>	<b>133,523,608</b>	<b>5,733,758</b>	<b>5.2%</b>	<b>5,037,474</b>	<b>4.3%</b>	<b>6,246,646</b>	<b>5.2%</b>
<b>Non-Rate Revenue</b>											
Local Improvement Recoveries	10,000	10,000	10,000	10,000	10,000	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	850,050	663,233	683,130	703,624	696,732	(186,817)	(22.0%)	19,897	3.0%	20,494	3.0%
Investment Income	450,000	450,000	450,000	450,000	450,000	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	603,510	698,473	719,427	741,010	785,240	94,963	15.7%	20,954	3.0%	21,583	3.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>1,913,560</b>	<b>1,821,705</b>	<b>1,862,556</b>	<b>1,904,633</b>	<b>1,941,972</b>	<b>(91,855)</b>	<b>(4.8%)</b>	<b>40,851</b>	<b>2.2%</b>	<b>42,077</b>	<b>2.3%</b>
<b>TOTAL REVENUES</b>	<b>112,121,075</b>	<b>117,762,978</b>	<b>122,841,304</b>	<b>129,130,027</b>	<b>135,465,580</b>	<b>5,641,903</b>	<b>5.0%</b>	<b>5,078,326</b>	<b>4.3%</b>	<b>6,288,723</b>	<b>5.1%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON  
2021-2030 HAMILTON WATER OPERATING BUDGET  
WATER**

	2020 Restated	2021 Requested	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast
<b>OPERATING EXPENDITURES</b>											
OPERATING COSTS	44,639	47,505	48,455	49,424	50,406	51,415	52,443	53,492	54,562	55,653	56,766
<b>TOTAL OPERATING COSTS</b>	<b>44,639</b>	<b>47,505</b>	<b>48,455</b>	<b>49,424</b>	<b>50,406</b>	<b>51,415</b>	<b>52,443</b>	<b>53,492</b>	<b>54,562</b>	<b>55,653</b>	<b>56,766</b>
<b>CAPITAL &amp; RESERVE IMPACTS ON OPERATING</b>											
<b>Contributions to Capital</b>											
Water	50,296	50,498	62,234	67,894	68,136	76,637	80,095	69,139	71,923	105,624	112,677
<b>Sub-total Contributions to Capital</b>	<b>50,296</b>	<b>50,498</b>	<b>62,234</b>	<b>67,894</b>	<b>68,136</b>	<b>76,637</b>	<b>80,095</b>	<b>69,139</b>	<b>71,923</b>	<b>105,624</b>	<b>112,677</b>
<b>Contributions for DC Exemptions</b>											
Water	2,240	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
<b>Sub-total Contributions to Capital</b>	<b>2,240</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>	<b>2,520</b>
<b>Debt Charges</b>											
Water	8,594	9,845	15,214	20,744	25,478	28,475	29,961	29,956	29,401	29,303	27,855
DC Debt Charges Recoveries	(976)	(1,111)	(3,573)	(7,004)	(10,011)	(11,526)	(12,586)	(13,700)	(14,277)	(14,283)	(14,288)
<b>Sub-total Debt Charges</b>	<b>7,618</b>	<b>8,734</b>	<b>11,641</b>	<b>13,740</b>	<b>15,467</b>	<b>16,949</b>	<b>17,375</b>	<b>16,256</b>	<b>15,124</b>	<b>15,020</b>	<b>13,566</b>
<b>Reserve Transfers</b>											
	7,328	8,506	(2,008)	(4,448)	(1,064)	(5,674)	(4,144)	13,804	18,251	(8,601)	(7,817)
<b>Sub-Total Capital &amp; Reserve Impacts on Operating</b>	<b>67,482</b>	<b>70,258</b>	<b>74,387</b>	<b>79,706</b>	<b>85,059</b>	<b>90,432</b>	<b>95,846</b>	<b>101,720</b>	<b>107,818</b>	<b>114,563</b>	<b>120,947</b>
<b>TOTAL EXPENDITURES</b>	<b>112,121</b>	<b>117,763</b>	<b>122,841</b>	<b>129,130</b>	<b>135,466</b>	<b>141,847</b>	<b>148,288</b>	<b>155,211</b>	<b>162,380</b>	<b>170,216</b>	<b>177,713</b>
<b>REVENUES</b>											
Residential	49,888	52,205	54,744	57,971	61,256	64,598	67,998	71,562	75,374	79,641	83,873
Industrial/Commercial/Institutional/Multi-res	54,884	57,888	60,155	62,924	65,693	68,462	71,232	74,294	77,356	80,627	83,611
Haldimand	2,476	2,589	2,698	2,821	2,938	3,061	3,185	3,328	3,464	3,600	3,718
Halton	260	270	281	294	307	320	332	346	361	375	389
Raw Water	125	129	133	137	141	145	149	154	158	163	168
Non-Metered	290	440	455	470	485	500	515	530	545	560	575
Private Fire Lines	1,850	1,924	2,001	2,081	2,165	2,230	2,297	2,366	2,437	2,510	2,585
Hauler / 3rd Party Sales	435	497	512	527	539	550	561	572	583	595	607
Non-Rate Revenue	1,914	1,822	1,863	1,905	1,942	1,981	2,020	2,061	2,102	2,144	2,187
<b>TOTAL REVENUES</b>	<b>112,121</b>	<b>117,763</b>	<b>122,841</b>	<b>129,130</b>	<b>135,466</b>	<b>141,847</b>	<b>148,288</b>	<b>155,211</b>	<b>162,380</b>	<b>170,216</b>	<b>177,713</b>
<b>NET EXPENDITURES</b>											
	-	-	-	-	-	-	-	-	-	-	-
<b>Rate Increase</b>	<b>4.5%</b>	<b>3.3%</b>	<b>3.7%</b>	<b>4.7%</b>	<b>4.5%</b>	<b>4.3%</b>	<b>4.1%</b>	<b>4.2%</b>	<b>4.2%</b>	<b>4.5%</b>	<b>4.2%</b>
<b>RESIDENTIAL BILL (200m<sup>3</sup> p.a.)</b>	<b>\$ 364.65</b>	<b>\$ 376.70</b>	<b>\$ 390.75</b>	<b>\$ 409.25</b>	<b>\$ 427.75</b>	<b>\$ 446.25</b>	<b>\$ 464.75</b>	<b>\$ 484.05</b>	<b>\$ 504.55</b>	<b>\$ 527.50</b>	<b>\$ 549.65</b>

**CITY OF HAMILTON**  
**2021 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WASTEWATER AND STORM**

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED ACTUAL / 2020 RESTATED BUDGET	%	2021 REQUESTED / 2020 RESTATED BUDGET	%
	\$	\$	\$	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>							
Divisional Administration & Support	1,101,015	1,101,015	1,131,967	-	0.0%	30,952	2.8%
Woodward Upgrades	1,108,390	1,108,390	1,441,380	-	0.0%	332,990	30.0%
Customer Service	157,150	133,287	162,289	23,863	15.2%	5,139	3.3%
Outreach & Education	606,033	436,768	582,083	169,266	27.9%	(23,950)	(4.0%)
Service Co-ordination	1,816,776	1,600,232	1,888,881	216,544	11.9%	72,106	4.0%
Engineering Systems & Data Collection	676,245	708,681	664,745	(32,435)	(4.8%)	(11,500)	(1.7%)
Compliance & Regulations	488,498	488,498	504,108	(1)	(0.0%)	15,610	3.2%
Laboratory Services	2,484,859	2,329,240	2,420,261	155,619	6.3%	(64,599)	(2.6%)
Environmental Monitoring & Enforcement	1,892,256	1,892,255	2,213,910	1	0.0%	321,654	17.0%
Water Distribution & Wastewater Collection	5,268,216	6,147,436	5,995,009	(879,220)	(16.7%)	726,793	13.8%
Plant Operations	12,634,217	11,854,457	13,561,701	779,760	6.2%	927,484	7.3%
Plant Maintenance	5,421,927	5,243,651	5,857,867	178,277	3.3%	435,940	8.0%
Capital Delivery	877,256	877,256	1,066,066	-	0.0%	188,810	21.5%
Sustainable Initiatives	787,100	787,103	596,163	(2)	(0.0%)	(190,938)	(24.3%)
Infrastructure Planning & System Design	1,099,530	1,099,530	1,339,351	1	0.0%	239,821	21.8%
Wastewater Abatement Program	1,150,040	1,150,040	1,192,450	-	0.0%	42,410	3.7%
Alectra Utilities Service Contract	2,800,000	2,800,000	2,856,000	-	0.0%	56,000	2.0%
Corporate & Departmental Support Services	3,861,500	3,861,500	3,884,019	-	0.0%	22,518	0.6%
Utilities Arrears Program	250,040	250,040	250,160	-	0.0%	120	0.0%
Sewer Lateral Management Program	300,000	202,250	300,000	97,751	32.6%	-	0.0%
Hamilton Harbour Remedial Action Plan	382,550	382,550	370,964	-	0.0%	(11,586)	(3.0%)
Protective Plumbing Program (3P)	1,000,000	575,000	752,870	425,000	42.5%	(247,130)	(24.7%)
Financial Charges	86,020	86,020	86,020	-	0.0%	-	0.0%
	46,249,619	45,115,196	49,118,263	1,134,423	2.5%	2,868,644	6.2%
Capital and Reserve Recoveries	(4,169,387)	(4,169,387)	(5,971,146)	-	0.0%	(1,801,760)	43.2%
<b>Sub-Total</b>	<b>42,080,232</b>	<b>40,945,810</b>	<b>43,147,117</b>	<b>1,134,423</b>	<b>2.7%</b>	<b>1,066,885</b>	<b>2.5%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Wastewater	52,673,000	52,673,000	57,237,984	-	0.0%	4,564,984	8.7%
Stormwater	15,685,000	15,685,000	17,632,679	-	0.0%	1,947,679	12.4%
<b>Sub-Total Contributions to Capital</b>	<b>68,358,000</b>	<b>68,358,000</b>	<b>74,870,663</b>	<b>-</b>	<b>0.0%</b>	<b>6,512,663</b>	<b>9.5%</b>
<b><u>Contributions for DC Exemptions</u></b>							
Wastewater	4,080,000	4,080,000	4,590,000	-	0.0%	510,000	12.5%
Stormwater	1,680,000	1,680,000	1,890,000	-	0.0%	210,000	12.5%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>5,760,000</b>	<b>5,760,000</b>	<b>6,480,000</b>	<b>-</b>	<b>0.0%</b>	<b>720,000</b>	<b>12.5%</b>



**CITY OF HAMILTON**  
**2021 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**COMBINED WASTEWATER AND STORM**

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED ACTUAL / 2020 RESTATED BUDGET	%	2021 REQUESTED / 2020 RESTATED BUDGET	%
	\$	\$	\$	\$	%	\$	%
<b><u>Debt Charges</u></b>							
Wastewater	11,514,374	7,012,631	12,534,242	4,501,743	39.1%	1,019,868	8.9%
Stormwater	3,399,997	651,022	2,490,898	2,748,975	80.9%	(909,099)	(26.7%)
DC Debt Charges Recoveries	(3,490,867)	(138,256)	(3,224,892)	(3,352,611)	96.0%	265,976	(7.6%)
<b>Sub-Total Debt Charges</b>	<b>11,423,503</b>	<b>7,525,397</b>	<b>11,800,249</b>	<b>3,898,106</b>	<b>34.1%</b>	<b>376,745</b>	<b>3.3%</b>
<b>Sub-Total Capital Financing</b>	<b>85,541,503</b>	<b>81,643,397</b>	<b>93,150,912</b>	<b>3,898,106</b>	<b>4.6%</b>	<b>7,609,408</b>	<b>8.9%</b>
Reserve Transfers	(6,731,009)	(964,352)	(8,506,119)	(5,766,657)	85.7%	(1,775,110)	26.4%
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>78,810,495</b>	<b>80,679,045</b>	<b>84,644,793</b>	<b>(1,868,550)</b>	<b>(2.4%)</b>	<b>5,834,299</b>	<b>7.4%</b>
<b>TOTAL EXPENDITURES</b>	<b>120,890,727</b>	<b>121,624,855</b>	<b>127,791,910</b>	<b>(734,128)</b>	<b>(0.6%)</b>	<b>6,901,183</b>	<b>5.7%</b>
<b><u>REVENUES:</u></b>							
<b><u>Rate Revenue</u></b>							
Residential	52,338,648	53,874,613	55,449,195	1,535,965	2.9%	3,110,547	5.9%
Industrial/Commercial/Institutional/Multi-res	57,673,601	56,136,425	60,529,187	(1,537,175)	(2.7%)	2,855,586	5.0%
Non-Metered	290,000	290,000	440,000	-	0.0%	150,000	51.7%
Hauler / 3rd Party Sales	790,000	790,000	902,857	-	0.0%	112,857	14.3%
Overstrength Agreements	2,892,902	3,210,510	3,210,510	317,608	11.0%	317,608	11.0%
Sewer Surcharge Agreements	5,806,726	6,224,456	6,224,456	417,730	7.2%	417,730	7.2%
<b>Sub-Total Utility Rates</b>	<b>119,791,877</b>	<b>120,526,005</b>	<b>126,756,205</b>	<b>734,128</b>	<b>0.6%</b>	<b>6,964,328</b>	<b>5.8%</b>
<b><u>Non-Rate Revenue</u></b>							
Local Improvement Recoveries	265,850	265,850	265,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	515,000	515,000	401,817	-	0.0%	(113,183)	(22.%)
General Fees and Recoveries	318,000	318,000	368,037	-	0.0%	50,037	15.7%
<b>Sub-Total Non-Rate Revenue</b>	<b>1,098,850</b>	<b>1,098,850</b>	<b>1,035,705</b>	<b>-</b>	<b>0.0%</b>	<b>(63,145)</b>	<b>(5.7%)</b>
<b>TOTAL REVENUES</b>	<b>120,890,727</b>	<b>121,624,855</b>	<b>127,791,910</b>	<b>734,128</b>	<b>0.6%</b>	<b>6,901,183</b>	<b>5.7%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON  
2021 - 2024 HAMILTON WASTEWATER AND STORM OPERATING BUDGET  
COMBINED WASTEWATER AND STORM**

	2020 RESTATED BUDGET	2021 REQUESTED BUDGET	2022 PROJECTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	CHANGE 2021 REQUESTED / 2020 RESTATED BUDGET	CHANGE 2022 PROJECTED / 2021 REQUESTED BUDGET	CHANGE 2023 PROJECTED / 2022 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>OPERATING EXPENDITURES:</b>											
Divisional Administration & Support	1,101,015	1,131,967	1,154,606	1,177,698	1,201,252	30,952	2.8%	22,639	2.0%	23,092	2.0%
Woodward Upgrades	1,108,390	1,441,380	1,470,207	1,499,611	1,529,603	332,990	30.0%	28,828	2.0%	29,404	2.0%
Customer Service	157,150	162,289	165,535	168,846	172,223	5,139	3.3%	3,246	2.0%	3,311	2.0%
Outreach & Education	606,033	582,083	593,725	605,600	617,712	(23,950)	(4.0%)	11,642	2.0%	11,875	2.0%
Service Co-ordination	1,816,776	1,888,881	1,926,659	1,965,192	2,004,496	72,106	4.0%	37,778	2.0%	38,533	2.0%
Engineering Systems & Data Collection	676,245	664,745	678,040	691,601	705,433	(11,500)	(1.7%)	13,295	2.0%	13,561	2.0%
Compliance & Regulations	488,498	504,108	514,190	524,474	534,963	15,610	3.2%	10,082	2.0%	10,284	2.0%
Laboratory Services	2,484,859	2,420,261	2,468,666	2,518,039	2,568,400	(64,599)	(2.6%)	48,405	2.0%	49,373	2.0%
Environmental Monitoring & Enforcement	1,892,256	2,213,910	2,258,188	2,303,352	2,349,419	321,654	17.0%	44,278	2.0%	45,164	2.0%
Water Distribution & Wastewater Collection	5,268,216	5,995,009	6,114,910	6,237,208	6,361,952	726,793	13.8%	119,900	2.0%	122,298	2.0%
Plant Operations	12,634,217	13,561,701	13,832,935	14,109,593	14,391,785	927,484	7.3%	271,234	2.0%	276,659	2.0%
Plant Maintenance	5,421,927	5,857,867	5,975,024	6,094,525	6,216,415	435,940	8.0%	117,157	2.0%	119,500	2.0%
Capital Delivery	877,256	1,066,066	1,087,387	1,109,135	1,131,317	188,810	21.5%	21,321	2.0%	21,748	2.0%
Sustainable Initiatives	787,100	596,163	608,086	620,248	632,653	(190,938)	(24.3%)	11,923	2.0%	12,162	2.0%
Infrastructure Planning & System Design	1,099,530	1,339,351	1,366,138	1,393,461	1,421,330	239,821	21.8%	26,787	2.0%	27,323	2.0%
Wastewater Abatement Program	1,150,040	1,192,450	1,216,299	1,240,625	1,265,437	42,410	3.7%	23,849	2.0%	24,326	2.0%
Alectra Utilities Service Contract	2,800,000	2,856,000	2,913,120	2,971,382	3,025,000	56,000	2.0%	57,120	2.0%	58,262	2.0%
Corporate & Departmental Support Services	3,861,500	3,884,019	3,961,699	4,040,933	4,121,752	22,518	0.6%	77,680	2.0%	79,234	2.0%
Utilities Arrears Program	250,040	250,160	255,163	260,266	265,472	120	0.0%	5,003	2.0%	5,103	2.0%
Sewer Lateral Management Program	300,000	300,000	306,000	312,120	318,362	-	0.0%	6,000	2.0%	6,120	2.0%
Hamilton Harbour Remedial Action Plan	382,550	370,964	378,383	385,951	393,670	(11,586)	(3.0%)	7,419	2.0%	7,568	2.0%
Protective Plumbing Program (3P)	1,000,000	752,870	767,927	783,286	798,952	(247,130)	(24.7%)	15,057	2.0%	15,359	2.0%
Financial Charges	86,020	86,020	87,740	89,495	91,285	-	0.0%	1,720	2.0%	1,755	2.0%
	46,249,619	49,118,263	50,100,629	51,102,641	52,118,884	2,868,644	6.2%	982,365	2.0%	1,002,013	2.0%
Capital and Reserve Recoveries	(4,169,387)	(5,971,146)	(6,090,569)	(6,212,381)	(6,336,628)	(1,801,760)	43.2%	(119,423)	2.0%	(121,811)	2.0%
<b>Sub-Total</b>	<b>42,080,232</b>	<b>43,147,117</b>	<b>44,010,059</b>	<b>44,890,260</b>	<b>45,782,256</b>	<b>1,066,885</b>	<b>2.5%</b>	<b>862,942</b>	<b>2.0%</b>	<b>880,201</b>	<b>2.0%</b>
<b>Capital and Reserve Impacts on Operating</b>											
<b>Contributions to Capital</b>											
Wastewater	52,673,000	57,237,984	46,724,000	42,673,000	43,978,000	4,564,984	8.7%	(10,513,984)	(18.4%)	(4,051,000)	(8.7%)
Stormwater	15,685,000	17,632,679	19,084,321	23,175,000	29,390,000	1,947,679	12.4%	1,451,642	8.2%	4,090,679	21.4%
<b>Sub-Total Contributions to Capital</b>	<b>68,358,000</b>	<b>74,870,663</b>	<b>65,808,321</b>	<b>65,848,000</b>	<b>73,368,000</b>	<b>6,512,663</b>	<b>9.5%</b>	<b>(9,062,342)</b>	<b>(12.1%)</b>	<b>39,679</b>	<b>0.1%</b>
<b>Contributions for DC Exemptions</b>											
Wastewater	4,080,000	4,590,000	4,590,000	4,590,000	4,590,000	510,000	12.5%	-	0.0%	-	0.0%
Stormwater	1,680,000	1,890,000	1,890,000	1,890,000	1,890,000	210,000	12.5%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>5,760,000</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>6,480,000</b>	<b>720,000</b>	<b>12.5%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b>Debt Charges</b>											
Wastewater	11,514,374	12,534,242	20,704,348	26,710,639	30,660,697	1,019,868	8.9%	8,170,105	65.2%	6,006,292	29.0%
Stormwater	3,399,997	2,490,898	3,185,448	4,157,207	5,127,892	(909,099)	(26.7%)	694,550	27.9%	971,759	30.5%
DC Debt Charges Recoveries	(3,490,867)	(3,224,892)	(8,574,190)	(13,190,420)	(16,904,899)	265,976	(7.6%)	(5,349,298)	165.9%	(4,616,230)	53.8%
<b>Sub-Total Debt Charges</b>	<b>11,423,503</b>	<b>11,800,249</b>	<b>15,315,605</b>	<b>17,677,427</b>	<b>18,883,689</b>	<b>376,745</b>	<b>3.3%</b>	<b>3,515,357</b>	<b>29.8%</b>	<b>2,361,821</b>	<b>15.4%</b>
<b>Sub-Total Capital Financing</b>	<b>85,541,503</b>	<b>93,150,912</b>	<b>87,603,926</b>	<b>90,005,427</b>	<b>98,731,689</b>	<b>7,609,408</b>	<b>8.9%</b>	<b>(5,546,985)</b>	<b>(6.0%)</b>	<b>2,401,500</b>	<b>2.7%</b>
Reserve Transfers	(6,731,009)	(8,506,119)	2,007,906	4,447,766	1,063,820	(1,775,110)	26.4%	10,514,025	(123.6%)	2,439,860	121.5%
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>78,810,495</b>	<b>84,644,793</b>	<b>89,611,832</b>	<b>94,453,193</b>	<b>99,795,509</b>	<b>5,834,299</b>	<b>7.4%</b>	<b>4,967,039</b>	<b>5.9%</b>	<b>4,841,361</b>	<b>5.4%</b>

**CITY OF HAMILTON  
 2021 - 2024 HAMILTON WASTEWATER AND STORM OPERATING BUDGET  
 COMBINED WASTEWATER AND STORM**

	2020 RESTATED BUDGET	2021 REQUESTED BUDGET	2022 PROJECTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	CHANGE 2021 REQUESTED / 2020 RESTATED BUDGET	CHANGE 2022 PROJECTED / 2021 REQUESTED BUDGET	CHANGE 2023 PROJECTED / 2022 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>REVENUES:</b>											
<b>Rate Revenue</b>											
Residential	52,338,648	55,449,195	58,523,848	61,480,084	64,767,205	3,110,547	5.9%	3,074,653	5.5%	2,956,236	5.1%
Industrial/Commercial/Institutional/Multi-res	57,673,601	60,529,187	62,936,285	65,343,383	68,035,628	2,855,586	5.0%	2,407,098	4.0%	2,407,098	3.8%
Haldimand	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Halton	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Non-Metered	290,000	440,000	455,000	470,000	485,000	150,000	51.7%	15,000	3.4%	15,000	3.3%
Hauler / 3rd Party Sales	790,000	902,857	929,943	957,841	976,998	112,857	14.3%	27,086	3.0%	27,898	3.0%
Overstrength Agreements	2,892,902	3,210,510	3,306,825	3,406,030	3,474,151	317,608	11.0%	96,315	3.0%	99,205	3.0%
Sewer Surcharge Agreements	5,806,726	6,224,456	6,411,190	6,603,525	6,735,596	417,730	7.2%	186,734	3.0%	192,336	3.0%
<b>Sub-Total Utility Rates</b>	<b>119,791,877</b>	<b>126,756,205</b>	<b>132,563,091</b>	<b>138,260,864</b>	<b>144,474,578</b>	<b>6,964,328</b>	<b>5.8%</b>	<b>5,806,886</b>	<b>4.6%</b>	<b>5,697,773</b>	<b>4.3%</b>
<b>Non-Rate Revenue</b>											
Local Improvement Recoveries	265,850	265,850	265,850	265,850	265,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	515,000	401,817	413,872	426,288	439,077	(113,183)	(22.0%)	12,055	3.0%	12,416	3.0%
General Fees and Recoveries	318,000	368,037	379,079	390,451	398,260	50,037	15.7%	11,041	3.0%	11,372	3.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>1,098,850</b>	<b>1,035,705</b>	<b>1,058,800</b>	<b>1,082,589</b>	<b>1,103,187</b>	<b>(63,145)</b>	<b>(5.7%)</b>	<b>23,096</b>	<b>2.2%</b>	<b>23,789</b>	<b>2.2%</b>
<b>TOTAL REVENUES</b>	<b>120,890,727</b>	<b>127,791,910</b>	<b>133,621,892</b>	<b>139,343,453</b>	<b>145,577,765</b>	<b>6,901,183</b>	<b>5.7%</b>	<b>5,829,982</b>	<b>4.6%</b>	<b>5,721,562</b>	<b>4.3%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>

**CITY OF HAMILTON  
2021-2030 HAMILTON WASTEWATER AND STORM OPERATING BUDGET  
COMBINED WASTEWATER AND STORM  
(\$ 000'S)**

	2020 Restated	2021 Requested	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast
<b>OPERATING EXPENDITURES</b>											
OPERATING COSTS	42,080	43,147	44,010	43,290	44,150	45,033	45,934	46,853	47,790	48,745	49,720
TERTIARY TREATMENT	-	-	-	1,600	1,632	1,665	1,698	1,732	1,767	1,802	1,838
<b>TOTAL OPERATING COSTS</b>	<b>42,080</b>	<b>43,147</b>	<b>44,010</b>	<b>44,890</b>	<b>45,782</b>	<b>46,698</b>	<b>47,632</b>	<b>48,584</b>	<b>49,556</b>	<b>50,547</b>	<b>51,558</b>
<b>CAPITAL &amp; RESERVE IMPACTS ON OPERATING</b>											
<b>Contributions to Capital</b>											
Wastewater	52,673	57,238	46,724	42,673	43,978	55,168	58,611	63,935	79,927	60,178	74,363
Stormwater	15,685	17,633	19,084	23,175	29,390	18,505	22,235	41,405	37,105	36,515	30,805
<b>Sub-total Contributions to Capital</b>	<b>68,358</b>	<b>74,871</b>	<b>65,808</b>	<b>65,848</b>	<b>73,368</b>	<b>73,673</b>	<b>80,846</b>	<b>105,340</b>	<b>117,032</b>	<b>96,693</b>	<b>105,168</b>
<b>Contributions for DC Exemptions</b>											
Wastewater	4,080	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590
Stormwater	1,680	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890
<b>Sub-total Contributions to Capital</b>	<b>5,760</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>	<b>6,480</b>
<b>Debt Charges</b>											
Wastewater	11,514	12,534	20,704	26,711	30,661	32,493	35,644	41,476	46,421	49,464	48,289
Stormwater	3,400	2,491	3,185	4,157	5,128	5,589	5,541	5,543	5,544	5,494	5,414
DC Debt Charges Recoveries	(3,491)	(3,225)	(8,574)	(13,190)	(16,905)	(18,731)	(22,052)	(28,387)	(34,672)	(37,836)	(37,879)
<b>Sub-total Debt Charges</b>	<b>11,424</b>	<b>11,800</b>	<b>15,316</b>	<b>17,677</b>	<b>18,884</b>	<b>19,350</b>	<b>19,134</b>	<b>18,632</b>	<b>17,293</b>	<b>17,122</b>	<b>15,824</b>
<b>Reserve Transfers</b>	<b>(6,731)</b>	<b>(8,506)</b>	<b>2,008</b>	<b>4,448</b>	<b>1,064</b>	<b>5,674</b>	<b>4,144</b>	<b>(13,804)</b>	<b>(18,251)</b>	<b>8,601</b>	<b>7,817</b>
<b>Sub-Total Capital &amp; Reserve Impacts on Operating</b>	<b>78,810</b>	<b>84,645</b>	<b>89,612</b>	<b>94,453</b>	<b>99,796</b>	<b>105,178</b>	<b>110,604</b>	<b>116,647</b>	<b>122,555</b>	<b>128,896</b>	<b>135,289</b>
<b>TOTAL EXPENDITURES</b>	<b>120,891</b>	<b>127,792</b>	<b>133,622</b>	<b>139,343</b>	<b>145,578</b>	<b>151,875</b>	<b>158,236</b>	<b>165,232</b>	<b>172,111</b>	<b>179,444</b>	<b>186,847</b>
<b>REVENUES</b>											
Residential	52,339	55,449	58,524	61,480	64,767	68,112	71,514	75,262	78,888	83,039	87,261
Industrial/Commercial/Institutional/Multi-res	57,674	60,529	62,936	65,343	68,036	70,728	73,420	76,398	79,375	82,276	85,170
Non-Metered	290	440	455	470	485	500	515	530	545	560	575
Hauler / 3rd Party Sales	790	903	930	958	977	997	1,016	1,037	1,058	1,079	1,100
Overstrength Agreements	2,893	3,211	3,307	3,406	3,474	3,544	3,615	3,687	3,761	3,836	3,912
Sewer Surcharge Agreements	5,807	6,224	6,411	6,604	6,736	6,870	7,008	7,148	7,291	7,437	7,585
Non-Rate Revenue	1,099	1,036	1,059	1,083	1,103	1,125	1,148	1,171	1,194	1,218	1,242
<b>TOTAL REVENUES</b>	<b>120,891</b>	<b>127,792</b>	<b>133,622</b>	<b>139,343</b>	<b>145,578</b>	<b>151,875</b>	<b>158,236</b>	<b>165,232</b>	<b>172,111</b>	<b>179,444</b>	<b>186,847</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Rate Increase</b>	<b>3.8%</b>	<b>5.2%</b>	<b>4.3%</b>	<b>3.9%</b>	<b>4.2%</b>	<b>4.0%</b>	<b>3.9%</b>	<b>4.1%</b>	<b>3.7%</b>	<b>4.1%</b>	<b>4.0%</b>
<b>RESIDENTIAL BILL (200m<sup>3</sup> p.a.)</b>	<b>\$ 387.95</b>	<b>\$ 408.10</b>	<b>\$ 425.80</b>	<b>\$ 442.30</b>	<b>\$ 460.80</b>	<b>\$ 479.30</b>	<b>\$ 497.80</b>	<b>\$ 518.30</b>	<b>\$ 537.60</b>	<b>\$ 559.75</b>	<b>\$ 581.90</b>

**CITY OF HAMILTON**  
**2021 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**

**WASTEWATER**

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>							
<b><u>Environmental Services</u></b>							
Divisional Administration & Support	900,865	900,865	926,190	-	0.0%	25,325	2.8%
Woodward Upgrades	1,108,390	1,108,390	1,441,380	-	0.0%	332,990	30.0%
Customer Service	125,970	106,841	130,089	19,128	15.2%	4,120	3.3%
Outreach & Education	484,825	349,413	465,665	135,412	27.9%	(19,160)	(4.%)
Service Co-ordination	1,094,374	963,934	1,137,808	130,440	11.9%	43,434	4.0%
Engineering Systems & Data Collection	540,994	566,942	531,794	(25,948)	(4.8%)	(9,200)	(1.7%)
Compliance & Regulations	465,083	465,083	479,944	-	0.0%	14,862	3.2%
Laboratory Services	2,343,831	2,197,044	2,282,899	146,787	6.3%	(60,932)	(2.6%)
Environmental Monitoring & Enforcement	1,823,759	1,823,758	2,133,769	1	0.0%	310,010	17.0%
Water Distribution & Wastewater Collection	4,763,281	5,558,231	5,420,414	(794,950)	(16.7%)	657,133	13.8%
Plant Operations	12,141,813	11,392,443	13,033,149	749,370	6.2%	891,336	7.3%
Plant Maintenance	5,210,614	5,039,286	5,629,563	171,328	3.3%	418,949	8.0%
Capital Delivery	717,755	717,755	872,235	-	0.0%	154,481	21.5%
Sustainable Initiatives	643,990	643,991	487,768	(2)	(0.0%)	(156,221)	(24.3%)
Infrastructure Planning & System Design	899,608	899,608	1,095,824	-	0.0%	196,215	21.8%
Wastewater Abatement Program	1,150,040	1,150,040	1,192,450	-	0.0%	42,410	3.7%
Alectra Utilities Service Contract	2,800,000	2,800,000	2,856,000	-	0.0%	56,000	2.0%
Corporate & Departmental Support Services	3,394,758	3,394,758	3,414,555	-	0.0%	19,797	0.6%
Utilities Arrears Program	250,040	250,040	250,160	-	0.0%	120	0.0%
Sewer Lateral Management Program	300,000	202,250	300,000	97,751	32.6%	-	0.0%
Hamilton Harbour Remedial Action Plan	-	-	-	-	0.0%	-	0.0%
Protective Plumbing Program (3P)	-	-	-	-	0.0%	-	0.0%
Financial Charges	86,020	86,020	86,020	-	0.0%	-	0.0%
	41,246,007	40,616,691	44,167,677	629,316	1.5%	2,921,670	7.1%
Capital and Reserve Recoveries	(3,358,056)	(3,358,056)	(4,809,207)	-	0.0%	(1,451,151)	43.2%
<b>Sub-Total Environmental Services</b>	<b>37,887,951</b>	<b>37,258,635</b>	<b>39,358,470</b>	<b>629,316</b>	<b>1.7%</b>	<b>1,470,519</b>	<b>3.9%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Wastewater	52,673,000	52,673,000	57,237,984	-	0.0%	4,564,984	8.7%
<b>Sub-Total Contributions to Capital</b>	<b>52,673,000</b>	<b>52,673,000</b>	<b>57,237,984</b>	<b>-</b>	<b>0.0%</b>	<b>4,564,984</b>	<b>8.7%</b>
<b><u>Contributions for DC Exemptions</u></b>							
Wastewater	4,080,000	4,080,000	4,590,000	-	0.0%	510,000	12.5%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>4,080,000</b>	<b>4,080,000</b>	<b>4,590,000</b>	<b>-</b>	<b>0.0%</b>	<b>510,000</b>	<b>12.5%</b>

**CITY OF HAMILTON**  
**2021 HAMILTON WATER OPERATING BUDGET**  
**WASTEWATER**

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b><u>Debt Charges</u></b>							
Wastewater	11,514,374	7,012,631	12,534,242	4,501,743	39.1%	1,019,868	8.9%
DC Debt Charges Recoveries	(1,669,722)	(113,893)	(2,928,248)	(1,555,829)	93.2%	(1,258,526)	75.4%
<b>Sub-Total Debt Charges</b>	<b>9,844,652</b>	<b>6,898,738</b>	<b>9,605,994</b>	<b>2,945,914</b>	<b>29.9%</b>	<b>(238,657)</b>	<b>(2.4%)</b>
<b>Sub-Total Capital Financing</b>	<b>66,597,652</b>	<b>63,651,738</b>	<b>71,433,978</b>	<b>2,945,914</b>	<b>4.4%</b>	<b>4,836,327</b>	<b>7.3%</b>
<b>Reserve Transfers</b>	<b>16,237,123</b>	<b>20,546,482</b>	<b>16,805,027</b>	<b>(4,309,358)</b>	<b>(26.5%)</b>	<b>567,903</b>	<b>3.5%</b>
<b>Sub-Total Cap\Reserve Impacts on Operating</b>	<b>82,834,775</b>	<b>84,198,220</b>	<b>88,239,005</b>	<b>(1,363,444)</b>	<b>(1.6%)</b>	<b>5,404,230</b>	<b>6.5%</b>
<b>TOTAL EXPENDITURES</b>	<b>120,722,727</b>	<b>121,456,855</b>	<b>127,597,475</b>	<b>(734,128)</b>	<b>(0.6%)</b>	<b>6,874,748</b>	<b>5.7%</b>
<b><u>REVENUES:</u></b>							
<b><u>Rate Revenue</u></b>							
Residential	52,338,648	53,874,613	55,449,195	1,535,965	2.9%	3,110,547	5.9%
Industrial/Commercial/Institutional/Multi-res	57,673,601	56,136,425	60,529,187	(1,537,175)	(2.7%)	2,855,586	5.0%
Non-Metered	290,000	290,000	440,000	-	0.0%	150,000	51.7%
Hauler / 3rd Party Sales	790,000	790,000	902,857	-	0.0%	112,857	14.3%
Overstrength Agreements	2,892,902	3,210,510	3,210,510	317,608	11.0%	317,608	11.0%
Sewer Surcharge Agreements	5,806,726	6,224,456	6,224,456	417,730	7.2%	417,730	7.2%
<b>Sub-Total Utility Rates</b>	<b>119,791,877</b>	<b>120,526,005</b>	<b>126,756,205</b>	<b>734,128</b>	<b>0.6%</b>	<b>6,964,328</b>	<b>5.8%</b>
<b><u>Non-Rate Revenue</u></b>							
Local Improvement Recoveries	265,850	265,850	265,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	515,000	515,000	401,817	-	0.0%	(113,183)	(22.%)
General Fees and Recoveries	150,000	150,000	173,603	-	0.0%	23,603	15.7%
<b>Sub-Total Non-Rate Revenue</b>	<b>930,850</b>	<b>930,850</b>	<b>841,270</b>	<b>-</b>	<b>0.0%</b>	<b>(89,580)</b>	<b>(9.6%)</b>
<b>TOTAL REVENUES</b>	<b>120,722,727</b>	<b>121,456,855</b>	<b>127,597,475</b>	<b>734,128</b>	<b>0.6%</b>	<b>6,874,748</b>	<b>5.7%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

CITY OF HAMILTON  
2021 - 2024 HAMILTON WASTEWATER AND STORM OPERATING BUDGET  
WASTEWATER

	2020	2021	2022	2023	2024	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2021 REQUESTED / 2020 RESTATED BUDGET	%	2022 PROJECTED / 2021 REQUESTED BUDGET	%	2023 PROJECTED / 2022 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>OPERATING EXPENDITURES:</b>											
Divisional Administration & Support	900,865	926,190	944,714	963,608	982,880	25,325	2.8%	18,524	2.0%	18,894	2.0%
Woodward Upgrades	1,108,390	1,441,380	1,470,207	1,499,611	1,529,603	332,990	30.0%	28,828	2.0%	29,404	2.0%
Customer Service	125,970	130,089	132,691	135,345	138,052	4,120	3.3%	2,602	2.0%	2,654	2.0%
Outreach & Education	484,825	465,665	474,978	484,478	494,167	(19,160)	(4.0%)	9,313	2.0%	9,500	2.0%
Service Co-ordination	1,094,374	1,137,808	1,160,564	1,183,776	1,207,451	43,434	4.0%	22,756	2.0%	23,211	2.0%
Engineering Systems & Data Collection	540,994	531,794	542,430	553,279	564,344	(9,200)	(1.7%)	10,636	2.0%	10,849	2.0%
Compliance & Regulations	465,083	479,944	489,543	499,334	509,321	14,862	3.2%	9,599	2.0%	9,791	2.0%
Laboratory Services	2,343,831	2,282,899	2,328,557	2,375,128	2,422,630	(60,932)	(2.6%)	45,658	2.0%	46,571	2.0%
Environmental Monitoring & Enforcement	1,823,759	2,133,769	2,176,445	2,219,973	2,264,373	310,010	17.0%	42,675	2.0%	43,529	2.0%
Water Distribution & Wastewater Collection	4,763,281	5,420,414	5,528,822	5,639,399	5,752,187	657,133	13.8%	108,408	2.0%	110,576	2.0%
Plant Operations	12,141,813	13,033,149	13,293,812	13,559,688	13,830,882	891,336	7.3%	260,663	2.0%	265,876	2.0%
Plant Maintenance	5,210,614	5,629,563	5,742,155	5,856,998	5,974,138	418,949	8.0%	112,591	2.0%	114,843	2.0%
Capital Delivery	717,755	872,235	889,680	907,474	925,623	154,481	21.5%	17,445	2.0%	17,794	2.0%
Sustainable Initiatives	643,990	487,768	497,524	507,474	517,624	(156,221)	(24.3%)	9,755	2.0%	9,950	2.0%
Infrastructure Planning & System Design	899,608	1,095,824	1,117,740	1,140,095	1,162,897	196,215	21.8%	21,916	2.0%	22,355	2.0%
Wastewater Abatement Program	1,150,040	1,192,450	1,216,299	1,240,625	1,265,437	42,410	3.7%	23,849	2.0%	24,326	2.0%
Alectra Utilities Service Contract	2,800,000	2,856,000	2,913,120	2,971,382	3,025,000	56,000	2.0%	57,120	2.0%	58,262	2.0%
Corporate & Departmental Support Services	3,394,758	3,414,555	3,482,846	3,552,503	3,623,553	19,797	0.6%	68,291	2.0%	69,657	2.0%
Utilities Arrears Program	250,040	250,160	255,163	260,266	265,472	120	0.0%	5,003	2.0%	5,103	2.0%
Sewer Lateral Management Program	300,000	300,000	306,000	312,120	318,362	-	0.0%	6,000	2.0%	6,120	2.0%
Financial Charges	86,020	86,020	87,740	89,495	91,285	-	0.0%	1,720	2.0%	1,755	2.0%
	41,246,007	44,167,677	45,051,031	45,952,051	46,865,282	2,921,670	7.1%	883,354	2.0%	901,021	2.0%
Capital and Reserve Recoveries	(3,358,056)	(4,809,207)	(4,905,391)	(5,003,499)	(5,103,569)	(1,451,151)	43.2%	(96,184)	2.0%	(98,108)	2.0%
<b>Sub-Total</b>	<b>37,887,951</b>	<b>39,358,470</b>	<b>40,145,640</b>	<b>40,948,552</b>	<b>41,761,713</b>	<b>1,470,519</b>	<b>3.9%</b>	<b>787,169</b>	<b>2.0%</b>	<b>802,913</b>	<b>2.0%</b>
<b>Capital and Reserve Impacts on Operating</b>											
<b>Contributions to Capital</b>											
Water Quality Initiatives	-	-	-	-	-	-	-	-	-	-	-
Wastewater	52,673,000	57,237,984	46,724,000	42,673,000	43,978,000	4,564,984	8.7%	(10,513,984)	(18.4%)	(4,051,000)	(8.7%)
<b>Sub-Total Contributions to Capital</b>	<b>52,673,000</b>	<b>57,237,984</b>	<b>46,724,000</b>	<b>42,673,000</b>	<b>43,978,000</b>	<b>4,564,984</b>	<b>8.7%</b>	<b>(10,513,984)</b>	<b>(18.4%)</b>	<b>(4,051,000)</b>	<b>(8.7%)</b>
<b>Contributions for DC Exemptions</b>											
Wastewater	4,080,000	4,590,000	4,590,000	4,590,000	4,590,000	510,000	12.5%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>4,080,000</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>4,590,000</b>	<b>510,000</b>	<b>12.5%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b>Debt Charges</b>											
Wastewater	11,514,374	12,534,242	20,704,348	26,710,639	30,660,697	1,019,868	8.9%	8,170,105	65.2%	6,006,292	29.0%
DC Debt Charges Recoveries	(1,669,722)	(2,928,248)	(7,811,919)	(11,683,767)	(14,653,982)	(1,258,526)	75.4%	(4,883,671)	166.8%	(3,871,848)	49.6%
<b>Sub-Total Debt Charges</b>	<b>9,844,652</b>	<b>9,605,994</b>	<b>12,892,428</b>	<b>15,026,873</b>	<b>16,006,715</b>	<b>(238,657)</b>	<b>(2.4%)</b>	<b>3,286,434</b>	<b>34.2%</b>	<b>2,134,444</b>	<b>16.6%</b>
<b>Sub-Total Capital Financing</b>	<b>66,597,652</b>	<b>71,433,978</b>	<b>64,206,428</b>	<b>62,289,873</b>	<b>64,574,715</b>	<b>4,836,327</b>	<b>7.3%</b>	<b>(7,227,550)</b>	<b>(10.1%)</b>	<b>(1,916,556)</b>	<b>(3.0%)</b>
<b>Reserve Transfers</b>	<b>16,237,123</b>	<b>16,805,027</b>	<b>29,069,556</b>	<b>35,898,752</b>	<b>39,030,935</b>	<b>567,903</b>	<b>3.5%</b>	<b>12,264,529</b>	<b>73.0%</b>	<b>6,829,197</b>	<b>23.5%</b>
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>82,834,775</b>	<b>88,239,005</b>	<b>93,275,984</b>	<b>98,188,625</b>	<b>103,605,650</b>	<b>5,404,230</b>	<b>6.5%</b>	<b>5,036,979</b>	<b>5.7%</b>	<b>4,912,641</b>	<b>5.3%</b>
<b>TOTAL EXPENDITURES</b>	<b>120,722,727</b>	<b>127,597,475</b>	<b>133,421,624</b>	<b>139,137,177</b>	<b>145,367,363</b>	<b>6,874,748</b>	<b>5.7%</b>	<b>5,824,149</b>	<b>4.6%</b>	<b>5,715,554</b>	<b>4.3%</b>

**CITY OF HAMILTON  
 2019 - 2022 WATER, WASTEWATER AND STORM OPERATING BUDGET  
 WASTEWATER**

	2020 RESTATED BUDGET	2021 REQUESTED BUDGET	2022 PROJECTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	CHANGE 2021 REQUESTED / 2020 RESTATED BUDGET	CHANGE 2022 PROJECTED / 2021 REQUESTED BUDGET	CHANGE 2023 PROJECTED / 2022 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>REVENUES:</b>											
<b>Rate Revenue</b>											
Residential	52,338,648	55,449,195	58,523,848	61,480,084	64,767,205	3,110,547	5.9%	3,074,653	5.5%	2,956,236	5.1%
Industrial/Commercial/Institutional/Multi-res	57,673,601	60,529,187	62,936,285	65,343,383	68,035,628	2,855,586	5.0%	2,407,098	4.0%	2,407,098	3.8%
Haldimand	-	-	-	-	-	-	0.0%	-	-	-	-
Halton	-	-	-	-	-	-	0.0%	-	-	-	-
Non-Metered	290,000	440,000	455,000	470,000	485,000	150,000	51.7%	15,000	3.4%	15,000	3.3%
Hauler / 3rd Party Sales	790,000	902,857	929,943	957,841	976,998	112,857	14.3%	27,086	3.0%	27,898	3.0%
Overstrength Agreements	2,892,902	3,210,510	3,306,825	3,406,030	3,474,151	317,608	11.0%	96,315	3.0%	99,205	3.0%
Sewer Surcharge Agreements	5,806,726	6,224,456	6,411,190	6,603,525	6,735,596	417,730	7.2%	186,734	3.0%	192,336	3.0%
<b>Sub-Total Utility Rates</b>	<b>119,791,877</b>	<b>126,756,205</b>	<b>132,563,091</b>	<b>138,260,864</b>	<b>144,474,578</b>	<b>6,964,328</b>	<b>5.8%</b>	<b>5,806,886</b>	<b>4.6%</b>	<b>5,697,773</b>	<b>4.3%</b>
<b>Non-Rate Revenue</b>											
Local Improvement Recoveries	265,850	265,850	265,850	265,850	265,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	515,000	401,817	413,872	426,288	439,077	(113,183)	(22.0%)	12,055	3.0%	12,416	3.0%
General Fees and Recoveries	150,000	173,603	178,811	184,175	187,858	23,603	15.7%	5,208	3.0%	5,364	3.0%
<b>Sub-Total Non-Rate Revenue</b>	<b>930,850</b>	<b>841,270</b>	<b>858,532</b>	<b>876,313</b>	<b>892,785</b>	<b>(89,580)</b>	<b>(9.6%)</b>	<b>17,263</b>	<b>2.1%</b>	<b>17,780</b>	<b>2.1%</b>
<b>TOTAL REVENUES</b>	<b>120,722,727</b>	<b>127,597,475</b>	<b>133,421,624</b>	<b>139,137,177</b>	<b>145,367,363</b>	<b>6,874,748</b>	<b>5.7%</b>	<b>5,824,149</b>	<b>4.6%</b>	<b>5,715,554</b>	<b>4.3%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>(0)</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>





**CITY OF HAMILTON**  
**2021 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**

**STORM**

	2020	2020	2021	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2020 PROJECTED / 2020 RESTATED BUDGET	ACTUAL	2021 REQUESTED / 2020 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<b><u>OPERATING EXPENDITURES:</u></b>							
Divisional Administration & Support	200,150	200,150	205,777	-	0.0%	5,627	2.8%
Woodward Upgrades	-	-	-	-	0.0%	-	0.0%
Customer Service	31,181	26,446	32,200	4,735	15.2%	1,020	3.3%
Outreach & Education	121,209	87,355	116,418	33,854	27.9%	(4,790)	(4.0%)
Service Co-ordination	722,402	636,298	751,073	86,104	11.9%	28,671	4.0%
Engineering Systems & Data Collection	135,251	141,738	132,951	(6,487)	(4.8%)	(2,300)	(1.7%)
Compliance & Regulations	23,415	23,415	24,163	-	0.0%	748	3.2%
Laboratory Services	141,028	132,196	137,362	8,832	6.3%	(3,666)	(2.6%)
Environmental Monitoring & Enforcement	68,497	68,497	80,141	-	0.0%	11,643	17.0%
Water Distribution & Wastewater Collection	504,936	589,205	574,595	(84,269)	(16.7%)	69,660	13.8%
Plant Operations	492,404	462,014	528,552	30,390	6.2%	36,148	7.3%
Plant Maintenance	211,313	204,365	228,304	6,948	3.3%	16,990	8.0%
Capital Delivery	159,501	159,501	193,830	-	0.0%	34,329	21.5%
Sustainable Initiatives	143,111	143,111	108,395	-	0.0%	(34,716)	(24.3%)
Infrastructure Planning & System Design	199,922	199,922	243,527	-	0.0%	43,605	21.8%
Wastewater Abatement Program	-	-	-	-	0.0%	-	0.0%
Alectra Utilities Service Contract	-	-	-	-	0.0%	-	0.0%
Corporate & Departmental Support Services	466,742	466,742	469,464	-	0.0%	2,722	0.6%
Utilities Arrears Program	-	-	-	-	0.0%	-	0.0%
Sewer Lateral Management Program	-	-	-	-	0.0%	-	0.0%
Hamilton Harbour Remedial Action Plan	382,550	382,550	370,964	-	0.0%	(11,586)	(3.0%)
Protective Plumbing Program (3P)	1,000,000	575,000	752,870	425,000	42.5%	(247,130)	(24.7%)
Financial Charges	-	-	-	-	0.0%	-	0.0%
	5,003,612	4,498,505	4,950,586	505,106	10.1%	(53,025)	(1.1%)
Capital and Reserve Recoveries	(811,331)	(811,331)	(1,161,939)	-	0.0%	811,331	(100.0%)
<b>Sub-Total</b>	<b>4,192,281</b>	<b>3,687,175</b>	<b>3,788,647</b>	<b>505,106</b>	<b>12.0%</b>	<b>758,305</b>	<b>18.1%</b>
<b><u>Capital and Reserve Impacts on Operating</u></b>							
<b><u>Contributions to Capital</u></b>							
Stormwater	15,685,000	15,685,000	17,632,679	-	0.0%	1,947,679	12.4%
<b>Sub-Total Contributions to Capital</b>	<b>15,685,000</b>	<b>15,685,000</b>	<b>17,632,679</b>	<b>-</b>	<b>0.0%</b>	<b>1,947,679</b>	<b>12.4%</b>
<b><u>Contributions for DC Exemptions</u></b>							
Stormwater	1,680,000	1,680,000	1,890,000	-	0.0%	210,000	12.5%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>1,680,000</b>	<b>1,680,000</b>	<b>1,890,000</b>	<b>-</b>	<b>0.0%</b>	<b>210,000</b>	<b>12.5%</b>

**CITY OF HAMILTON**  
**2021 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**STORM**

	2020 RESTATE D BUDGET	2020 PROJECTED ACTUAL	2021 REQUESTED BUDGET	CHANGE 2020 PROJECTED ACTUAL / 2020 RESTATE D BUDGET		CHANGE 2021 REQUESTED / 2020 RESTATE D BUDGET	
	\$	\$	\$	\$	%	\$	%
<b><u>Debt Charges</u></b>							
Stormwater	3,399,997	651,022	2,490,898	2,748,975	80.9%	(909,099)	(26.7%)
DC Debt Charges Recoveries	(1,821,145)	(24,363)	(296,644)	(1,796,782)	98.7%	1,524,501	(83.7%)
<b>Sub-Total Debt Charges</b>	<b>1,578,852</b>	<b>626,659</b>	<b>2,194,254</b>	<b>952,193</b>	<b>60.3%</b>	<b>615,403</b>	<b>39.0%</b>
<b>Sub-Total Capital Financing</b>	<b>18,943,852</b>	<b>17,991,659</b>	<b>21,716,933</b>	<b>952,193</b>	<b>5.0%</b>	<b>2,773,082</b>	<b>14.6%</b>
<b>Reserve Transfers</b>	<b>(22,968,132)</b>	<b>(21,510,834)</b>	<b>(25,311,145)</b>	<b>(1,457,299)</b>	<b>6.3%</b>	<b>(2,343,013)</b>	<b>10.2%</b>
<b>Sub-Total Cap\Reserve Impacts on Operating</b>	<b>(4,024,281)</b>	<b>(3,519,175)</b>	<b>(3,594,212)</b>	<b>(505,106)</b>	<b>12.6%</b>	<b>430,069</b>	<b>(10.7%)</b>
<b>TOTAL EXPENDITURES</b>	<b>168,000</b>	<b>168,000</b>	<b>194,435</b>	<b>-</b>	<b>0.0%</b>	<b>26,435</b>	<b>15.7%</b>
<b><u>REVENUES:</u></b>							
<b><u>Non-Rate Revenue</u></b>							
General Fees and Recoveries	168,000	168,000	194,435	-	0.0%	26,435	15.7%
<b>Sub-Total Non-Rate Revenue</b>	<b>168,000</b>	<b>168,000</b>	<b>194,435</b>	<b>-</b>	<b>0.0%</b>	<b>26,435</b>	<b>15.7%</b>
<b>TOTAL REVENUES</b>	<b>168,000</b>	<b>168,000</b>	<b>194,435</b>	<b>-</b>	<b>0.0%</b>	<b>26,435</b>	<b>15.7%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>

**CITY OF HAMILTON**  
**2021 - 2024 HAMILTON WASTEWATER AND STORM OPERATING BUDGET**  
**STORM**

	2020 RESTATED BUDGET	2021 REQUESTED BUDGET	2022 PROJECTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	CHANGE 2021 REQUESTED / 2020 RESTATED BUDGET	CHANGE 2022 PROJECTED / 2021 REQUESTED BUDGET	CHANGE 2023 PROJECTED / 2022 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>OPERATING EXPENDITURES:</b>											
Divisional Administration & Support	200,150	205,777	209,893	214,090	218,372	5,627	2.8%	4,116	2.0%	4,198	2.0%
Woodward Upgrades	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Customer Service	31,181	32,200	32,844	33,501	34,171	1,020	3.3%	644	2.0%	657	2.0%
Outreach & Education	121,209	116,418	118,747	121,122	123,544	(4,790)	(4.0%)	2,328	2.0%	2,375	2.0%
Service Co-ordination	722,402	751,073	766,095	781,416	797,045	28,671	4.0%	15,021	2.0%	15,322	2.0%
Engineering Systems & Data Collection	135,251	132,951	135,610	138,322	141,089	(2,300)	(1.7%)	2,659	2.0%	2,712	2.0%
Compliance & Regulations	23,415	24,163	24,647	25,139	25,642	748	3.2%	483	2.0%	493	2.0%
Laboratory Services	141,028	137,362	140,109	142,911	145,770	(3,666)	(2.6%)	2,747	2.0%	2,802	2.0%
Environmental Monitoring & Enforcement	68,497	80,141	81,744	83,378	85,046	11,643	17.0%	1,603	2.0%	1,635	2.0%
Water Distribution & Wastewater Collection	504,936	574,595	586,087	597,809	609,765	69,660	13.8%	11,492	2.0%	11,722	2.0%
Plant Operations	492,404	528,552	539,123	549,905	560,903	36,148	7.3%	10,571	2.0%	10,782	2.0%
Plant Maintenance	211,313	228,304	232,870	237,527	242,278	16,990	8.0%	4,566	2.0%	4,657	2.0%
Capital Delivery	159,501	193,830	197,707	201,661	205,694	34,329	21.5%	3,877	2.0%	3,954	2.0%
Sustainable Initiatives	143,111	108,395	110,562	112,774	115,029	(34,716)	(24.3%)	2,168	2.0%	2,211	2.0%
Infrastructure Planning & System Design	199,922	243,527	248,398	253,366	258,433	43,605	21.8%	4,871	2.0%	4,968	2.0%
Corporate & Departmental Support Services	466,742	469,464	478,853	488,430	498,199	2,722	0.6%	9,389	2.0%	9,577	2.0%
Utilities Arrears Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Sewer Lateral Management Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Hamilton Harbour Remedial Action Plan	382,550	370,964	378,383	385,951	393,670	(11,586)	(3.0%)	7,419	2.0%	7,568	2.0%
Protective Plumbing Program (3P)	1,000,000	752,870	767,927	783,286	798,952	(247,130)	(24.7%)	15,057	2.0%	15,359	2.0%
	5,003,612	4,950,586	5,049,598	5,150,590	5,253,602	(53,025)	(1.1%)	99,012	2.0%	100,992	2.0%
Capital and Reserve Recoveries	(811,331)	(1,161,939)	(1,185,178)	(1,208,882)	(1,233,059)	(350,609)	43.2%	(23,239)	2.0%	(23,704)	2.0%
<b>Sub-Total</b>	<b>4,192,281</b>	<b>3,788,647</b>	<b>3,864,420</b>	<b>3,941,708</b>	<b>4,020,542</b>	<b>(403,634)</b>	<b>(9.6%)</b>	<b>75,773</b>	<b>2.0%</b>	<b>77,288</b>	<b>2.0%</b>
<b>Capital and Reserve Impacts on Operating</b>											
<b>Contributions to Capital</b>											
Stormwater	15,685,000	17,632,679	19,084,321	23,175,000	29,390,000	1,947,679	12.4%	1,451,642	8.2%	4,090,679	21.4%
<b>Sub-Total Contributions to Capital</b>	<b>15,685,000</b>	<b>17,632,679</b>	<b>19,084,321</b>	<b>23,175,000</b>	<b>29,390,000</b>	<b>1,947,679</b>	<b>12.4%</b>	<b>1,451,642</b>	<b>8.2%</b>	<b>4,090,679</b>	<b>21.4%</b>
<b>Contributions for DC Exemptions</b>											
Stormwater	1,680,000	1,890,000	1,890,000	1,890,000	1,890,000	210,000	12.5%	-	0.0%	-	0.0%
<b>Sub-Total Contributions for DC Exemptions</b>	<b>1,680,000</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>1,890,000</b>	<b>210,000</b>	<b>12.5%</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>0.0%</b>
<b>Debt Charges</b>											
Stormwater	3,399,997	2,490,898	3,185,448	4,157,207	5,127,892	(909,099)	(26.7%)	694,550	27.9%	971,759	30.5%
DC Debt Charges Recoveries	(1,821,145)	(296,644)	(762,271)	(1,506,653)	(2,250,918)	1,524,501	(83.7%)	(465,627)	157.0%	(744,382)	97.7%
<b>Sub-Total Debt Charges</b>	<b>1,578,852</b>	<b>2,194,254</b>	<b>2,423,177</b>	<b>2,650,554</b>	<b>2,876,974</b>	<b>615,403</b>	<b>39.0%</b>	<b>228,923</b>	<b>10.4%</b>	<b>227,377</b>	<b>9.4%</b>
<b>Sub-Total Capital Financing</b>	<b>18,943,852</b>	<b>21,716,933</b>	<b>23,397,498</b>	<b>27,715,554</b>	<b>34,156,974</b>	<b>2,773,082</b>	<b>14.6%</b>	<b>1,680,565</b>	<b>7.7%</b>	<b>4,318,056</b>	<b>18.5%</b>
Reserve Transfers	(22,968,132)	(25,311,145)	(27,061,650)	(31,450,986)	(37,967,115)	(2,343,013)	10.2%	(1,750,504)	6.9%	(4,389,337)	16.2%
<b>Sub-Total Capital and Reserve Impacts on Operating</b>	<b>(4,024,281)</b>	<b>(3,594,212)</b>	<b>(3,664,152)</b>	<b>(3,735,432)</b>	<b>(3,810,141)</b>	<b>430,069</b>	<b>(10.7%)</b>	<b>(69,940)</b>	<b>1.9%</b>	<b>(71,280)</b>	<b>1.9%</b>
<b>TOTAL EXPENDITURES</b>	<b>168,000</b>	<b>194,435</b>	<b>200,268</b>	<b>206,276</b>	<b>210,401</b>	<b>26,435</b>	<b>15.7%</b>	<b>5,833</b>	<b>3.0%</b>	<b>6,008</b>	<b>3.0%</b>

**CITY OF HAMILTON  
2021 - 2024 HAMILTON WASTEWATER AND STORM OPERATING BUDGET  
STORM**

	2020 RESTATED BUDGET	2021 REQUESTED BUDGET	2022 PROJECTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	CHANGE 2021 REQUESTED / 2020 RESTATED BUDGET		CHANGE 2022 PROJECTED / 2021 REQUESTED BUDGET		CHANGE 2023 PROJECTED / 2022 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<b>REVENUES:</b>											
<u>Non-Rate Revenue</u>											
General Fees and Recoveries	168,000	194,435	200,268	206,276	210,401	26,435	15.7%	5,833	3.0%	6,008	3.0%
Sub-Total Non-Rate Revenue	168,000	194,435	200,268	206,276	210,401	26,435	15.7%	5,833	3.0%	6,008	3.0%
<b>TOTAL REVENUES</b>	<b>168,000</b>	<b>194,435</b>	<b>200,268</b>	<b>206,276</b>	<b>210,401</b>	<b>26,435</b>	<b>15.7%</b>	<b>5,833</b>	<b>3.0%</b>	<b>6,008</b>	<b>3.0%</b>
<b>NET EXPENDITURES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0%</b>



**HAMILTON WATER  
2021 RATE SUPPORTED STAFFING SUMMARY**

Deptid	Deptid Description	2020 RESTATED	2021 MAINTENANCE	2021 PROGRAM CHANGES	2021 REQUESTED	2021 REQUESTED vs. 2020 RESTATED
510200	Director Hamilton Water	3.00	3.00	0.00	3.00	0.00
510203	WWW Operations Director	2.00	2.00	0.00	2.00	0.00
510205	Woodward Upgrades	11.00	11.00	<b>1.00</b>	12.00	1.00
510206	Inventory & Fleet Management	7.00	7.00	0.00	7.00	0.00
510210	Customer Service & Community Outreach	2.00	2.00	0.00	2.00	0.00
510215	Education & Outreach *	5.65	4.65	<b>1.00</b>	5.65	0.00
510220	Service Co-ordination	21.00	21.00	<b>1.00</b>	22.00	1.00
510230	Engineering Systems & Data Collection	9.00	9.00	0.00	9.00	0.00
510240	Compliance & Regulations	8.00	8.00	0.00	8.00	0.00
510250	Laboratory Services	25.00	25.00	0.00	25.00	0.00
510260	Environmental Monitoring & Enforcement	15.00	15.00	<b>1.00</b>	16.00	1.00
510270	Water Distribution (WD) & Wastewtr Collection (WWC)	5.00	5.00	0.00	5.00	0.00
510275	WD & WWC Contracts	26.00	26.00	<b>2.00</b>	28.00	2.00
510280	WD & WWC Construction	20.00	20.00	0.00	20.00	0.00
510285	WD & WWC Maintenance	19.00	19.00	<b>4.00</b>	23.00	4.00
510290	WD & WWC Operations	22.00	22.00	0.00	22.00	0.00
510300	WWW Planning & Capital Director	2.00	2.00	0.00	2.00	0.00
510305	Sustainable Initiatives	7.00	7.00	0.00	7.00	0.00
510310	Plant Operations & Maintenance	6.00	6.00	0.00	6.00	0.00
510320	Plant Maintenance & Technical Services	1.00	1.00	0.00	1.00	0.00
510321	Plant Maintenance	25.00	25.00	<b>3.00</b>	28.00	3.00
510322	Plant SCADA	6.00	6.00	0.00	6.00	0.00
510323	Plant Technical Services	3.00	3.00	0.00	3.00	0.00
510330	Plant Operations	44.00	44.00	0.00	44.00	0.00
510340	Capital Delivery	12.00	12.00	<b>1.00</b>	13.00	1.00
510350	Infrastructure Planning and System Design	19.00	19.00	0.00	19.00	0.00
<b>Total RATE Supported Staff</b>		<b>325.65</b>	<b>324.65</b>	<b>14.00</b>	<b>338.65</b>	<b>13.00</b>

**Note:** \* Council approved a 5-year temporary Project Manager - Outreach & Education position in 2016 (Report - PW16054).

## 2021 Rate Budget - Business Case Summary

DEPARTMENT: Public Works

DIVISION	SERVICE / PROGRAM	DESCRIPTION OF PROGRAM ENHANCEMENT	2021 IMPACT			ANNUALIZED IMPACT
			\$ GROSS	\$ NET	FTE Impact	\$ NET
Hamilton Water	Compliance & Regulations	Environmental Enforcement Officer to support the existing Emergency Spills Response Program.	\$ 103,500	\$ 13,500	1.00	\$ 13,500
Hamilton Water	Capital Delivery	Capital Delivery Technologist to support increased project demands and continuous improvement initiatives.	\$ 103,500	\$ 103,500	1.00	\$ 103,500
Hamilton Water	Customer Service & Community Outreach	Project Manager - Outreach & Education was approved on a temporary basis in 2016 (Report - PW16054) and requested to report back in 2021 NOTE: Council approved a 5 year temporary assignment and requested we report back in 2021	\$ 117,000	\$ -	1.00	\$ -
Hamilton Water	Customer Service & Community Outreach	Backwater Prevention Officer to support the increased volume of program work.	\$ 139,000	\$ 84,000	1.00	\$ 84,000
Hamilton Water	Project Management Office	Capital Budget Coordinator to support increased capital project charters and project updates.	\$ 99,000	\$ 99,000	1.00	\$ 99,000
Hamilton Water	Wastewater Collection	Two Stormwater Technologists to develop and manage the stormwater and drainage program.	\$ 307,000	\$ (330,000)	2.00	\$ (330,000)
Hamilton Water	Water Distribution	Water Distribution Construction Crew (WD Operator, Backhoe OIT, AZ Truck Driver OIT, and Labourer OIT) to support the Substandard Water Service Replacement Program	\$ 1,160,000	\$ -	4.00	\$ -
Hamilton Water	Woodward Upgrades Operational Support	Electrician, Instrumentation Technician, and Millwright required to support Woodward Upgrades Project	\$ 333,000	\$ 333,000	3.00	\$ 333,000
<b>Divn Subtotal</b>			<b>\$ 2,362,000</b>	<b>\$ 303,000</b>	<b>14.00</b>	<b>\$ 303,000</b>
<b>DEPARTMENT TOTAL</b>			<b>\$ 2,362,000</b>	<b>\$ 303,000</b>	<b>14.00</b>	<b>\$ 303,000</b>

TOTAL NET Impact = net annualized (full year) amount - please state under "Description of Program Enhancement" if other revenue sources will be used to offset the cost of the program change (therefore identify gross cost); also please identify if 2021 calendar (part-year) impact is significantly different due to delayed implementation.



**CITY OF HAMILTON**  
**2021 WATER AND WASTEWATER/STORM FEES AND CHARGES**  
**Effective January 1, 2021**

**A) Daily Water & Wastewater/Storm Fixed Charges**

The fixed daily charge is not related to the direct costs of consumption and are not dependent upon or related to the amount of consumption incurred. The fixed charges are intended to offset the fixed costs of maintaining the water, wastewater and storm systems.

Meter Size	Water Rate	Wastewater/ Storm Rate
15 mm	\$ 0.38	\$ 0.42
16 mm	\$ 0.38	\$ 0.42
20 mm	\$ 0.38	\$ 0.42
21 mm	\$ 0.38	\$ 0.42
25 mm	\$ 0.95	\$ 1.05
38 mm	\$ 1.90	\$ 2.10
50 mm	\$ 3.04	\$ 3.36
75 mm	\$ 6.08	\$ 6.72
100 mm	\$ 9.50	\$ 10.50
150 mm	\$ 19.00	\$ 21.00
200 mm	\$ 30.40	\$ 33.60
250 mm	\$ 43.70	\$ 48.30
300 mm	\$ 64.60	\$ 71.40

**B) Metered Water Consumption Charges**

Water consumption shall be charged on a per cubic metre basis at the rates indicated in the table below. The total monthly Water Consumption Charge is the sum of usage in all blocks at the rate for each block.

Consumption Block	Monthly Water Consumption (m3)	Residential Meter Size <25mm	Residential Meter Size =>25mm and Commercial, Institutional & Industrial
		Rate (\$/m3)	Rate (\$/m3)
1	0-10	0.85	1.70
2	>10	1.70	1.70

**C) Wastewater/Storm Treatment Charges**

Wastewater/Storm Treatment Charges are based on metered water consumption and the cost of wastewater collection and treatment, and stormwater management. Charges are on a per cubic metre basis at the rates indicated in the table below. The total monthly Wastewater/Storm Treatment Charge is the sum of usage in all blocks at the rate for each block.

Treatment Block	Monthly Water Consumption (m3)	Residential Meter Size <25mm	Residential Meter Size =>25mm and Commercial, Institutional & Industrial
		Rate (\$/m3)	Rate (\$/m3)
1	0-10	0.91	1.82
2	>10	1.82	1.82

**D) Non-Metered Annual Water & Wastewater/Storm Rate**

Flat Rate Water Customers Annual Rate: \$620.50

Flat Rate Wastewater/Storm Customers Annual Rate: \$664.30

Combined Flat Rate Water & Wastewater/Storm Customers Annual Rate: \$1,284.80

## City of Hamilton - 2021 Private Fire Line Rates

This service shall consist of permanent unmetered connections to the main for the purpose of supplying water to private fire protection systems such as automatic sprinkler systems, standpipes and private hydrants. This service shall also include reasonable quantities of water used for testing check valves and other backflow protection devices.

### Unmetered Service

Size of Connection		Monthly Rate
mm	inches	
25	1	\$ 3.73
38	1.5	\$ 8.58
50	2	\$ 14.92
75	3	\$ 33.57
100	4	\$ 59.68
150	6	\$ 134.28
200	8	\$ 238.72
250	10	\$ 238.72
300	12	\$ 238.72

**PUBLIC WORKS**  
**HAMILTON WATER**

For Billing  
Purposes: M - F: 7:00am - 4:30pm  
Regular Hours: M - F: 4:30pm - 7:00am, Weekends and Holidays

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026	510220	47220	1	<b>WATER DISTRIBUTION</b> <b>Water Meter Permit Fee</b> Note: Charged for first-time meter installations. Includes supply and installation of water meter and remote reading device by the City/meter contractor and related inspection. Approval by the Supervisor of Meter Operations is required for new installation of alternative meter types not shown below.						
			1a)	16mm Displacement	\$359.70	\$359.70	n	\$359.70	0.0%	Current fee achieves full cost recovery
			1b)	20mm Displacement	\$404.60	\$404.60	n	\$404.60	0.0%	Current fee achieves full cost recovery
			1c)	21mm Displacement	\$404.60	\$404.60	n	\$404.60	0.0%	Current fee achieves full cost recovery
			1d)	25mm Displacement	\$559.40	\$559.40	n	\$559.40	0.0%	Current fee achieves full cost recovery
			1e)	38mm Displacement	\$905.08	\$905.08	n	\$905.08	0.0%	Current fee achieves full cost recovery
			1f)	50mm Displacement	\$1,218.80	\$1,218.80	n	\$1,218.80	0.0%	Current fee achieves full cost recovery
			1g)	50mm Compound with strainer	\$3,316.40	\$3,316.40	n	\$3,316.40	0.0%	Current fee achieves full cost recovery
			1h)	100mm Compound with strainer	\$5,304.84	\$5,304.84	n	\$5,304.84	0.0%	Current fee achieves full cost recovery
			1i)	150mm Compound with strainer	\$10,419.16	\$11,495.85	n	\$11,495.85	10.3%	To achieve full cost recovery
			1j)	150mm Fire Service Compound	\$14,215.97	\$14,215.97	n	\$14,215.97	0.0%	Current fee achieves full cost recovery
			1k)	200mm Fire Service Compound	\$19,450.06	\$19,450.06	n	\$19,450.06	0.0%	Current fee achieves full cost recovery
			1l)	250mm Fire Service Compound	\$25,297.11	\$25,297.11	n	\$25,297.11	0.0%	Current fee achieves full cost recovery
			1m)	Radio Remote Read Equipment Installation	\$214.63	\$217.59	n	\$217.59	1.4%	To achieve full cost recovery
R84-026	510220	45519	2	<b>Water Meter Removal Fee</b> Note: Cost to remove a meter prior to the building being demolished and/or the water service being decommissioned or abandoned. Failure to have the meter removed prior to the building being demolished will incur a meter replacement cost charge. Does not include a turn water off fee, which is required and charged separately as per Section 14 of this schedule.						
			2a)	16mm Displacement	\$127.54	\$116.19	y	\$131.29	2.9%	To achieve full cost recovery
			2b)	20mm Displacement	\$127.54	\$116.19	y	\$131.29	2.9%	To achieve full cost recovery
			2c)	21mm Displacement	\$127.54	\$116.19	y	\$131.29	2.9%	To achieve full cost recovery
			2d)	25mm Displacement	\$127.54	\$116.19	y	\$131.29	2.9%	To achieve full cost recovery
			2e)	38mm - 250mm Meters (cost depends on size, labour, and meter location)	Cost + 10% OH	Cost + 10% OH	y	Cost + 10% OH	N/A	
R84-026	510220	45519	3	<b>Water Meter Inspection Services</b> Note: Cost for customer requested service relating to meter investigation						
			3a)	Regular Hours Inspection	\$130.92	\$119.44	y	\$134.97	3.1%	To achieve full cost recovery
			3b)	After Hours Inspection	\$171.45	\$156.77	y	\$177.15	3.3%	To achieve full cost recovery

\*Costs not specifically addressed in the schedule will be invoiced at Actual Cost plus overhead\*

\*\*For general inquiries, please call (805) 346-4428 between 8:30am - 4:30pm\*\*

**PUBLIC WORKS**  
**HAMILTON WATER**

For Billing  
Purposes: M - F: 7:00am - 4:30pm  
Regular Hours: M - F: 4:30pm - 7:00am, Weekends and Holidays

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026	510220	45608	4	<b>Replacement Cost for Lost Meter</b> Note: Cost to replace a meter that has been lost, stolen or damaged. Includes meter, installation and administrative costs.						
			4a)	15mm Displacement	\$250.58	\$284.45	y	\$321.43	28.3%	To achieve full cost recovery
			4b)	16mm Displacement	\$250.58	\$284.45	y	\$321.43	28.3%	To achieve full cost recovery
			4c)	20mm Displacement	\$386.73	\$342.24	y	\$386.73	0.0%	Current fee achieves full cost recovery
			4d)	21mm Displacement	\$386.73	\$342.24	y	\$386.73	0.0%	Current fee achieves full cost recovery
			4e)	25mm Displacement	\$445.19	\$407.74	y	\$460.75	3.5%	To achieve full cost recovery
			4f)	38mm Displacement	\$1,223.36	\$1,082.62	y	\$1,223.36	0.0%	Current fee achieves full cost recovery
			4g)	50mm Turbine	\$1,465.95	\$1,401.13	y	\$1,583.28	8.0%	To achieve full cost recovery
			4h)	50mm Displacement	\$1,804.05	\$1,596.50	y	\$1,804.05	0.0%	Current fee achieves full cost recovery
			4i)	50mm Compound	\$2,338.65	\$2,069.60	y	\$2,338.65	0.0%	Current fee achieves full cost recovery
			4j)	100mm Turbine	\$3,688.50	\$7,212.18	y	\$8,149.76	121.0%	To achieve full cost recovery
			4k)	100mm Compound	\$5,959.20	\$5,273.63	y	\$5,959.20	0.0%	Current fee achieves full cost recovery
			4l)	100mm Fire Service Turbine	\$8,149.76	\$8,855.57	y	\$10,006.79	22.8%	To achieve full cost recovery
			4m)	100mm Fire Service Compound	\$10,006.80	\$10,555.28	y	\$11,927.47	19.2%	To achieve full cost recovery
			4n)	100mm Magnetic Flow Meter	\$11,136.43	\$9,855.25	y	\$11,136.43	0.0%	Current fee achieves full cost recovery
			4o)	100mm Fire Rated Magnetic Flow Meter	\$11,627.81	\$10,290.10	y	\$11,627.81	0.0%	Current fee achieves full cost recovery
			4p)	150mm Turbine	\$6,787.25	\$6,970.78	y	\$7,876.98	16.1%	To achieve full cost recovery
			4q)	150mm Compound	\$10,328.00	\$9,525.73	y	\$10,764.07	4.2%	To achieve full cost recovery
			4r)	150mm Fire Service Turbine	\$12,394.87	\$10,968.91	y	\$12,394.87	0.0%	Current fee achieves full cost recovery
			4s)	150mm Fire Service Compound	\$15,762.63	\$13,949.23	y	\$15,762.63	0.0%	Current fee achieves full cost recovery
			4t)	150mm Magnetic Flow Meter	\$12,337.41	\$11,006.20	y	\$12,437.01	0.8%	To achieve full cost recovery
			4u)	150mm Fire Rated Magnetic Flow Meter	\$13,753.00	\$12,170.80	y	\$13,753.00	0.0%	Current fee achieves full cost recovery
			4v)	200mm Turbine	\$7,424.88	\$7,150.30	y	\$8,079.84	8.8%	To achieve full cost recovery
			4w)	200mm Compound	\$11,551.00	\$10,812.26	y	\$12,217.85	5.8%	To achieve full cost recovery
			4x)	200mm Fire Service Turbine	\$16,333.56	\$14,454.48	y	\$16,333.56	0.0%	Current fee achieves full cost recovery
			4y)	200mm Fire Service Compound	\$21,996.69	\$19,466.10	y	\$21,996.69	0.0%	Current fee achieves full cost recovery
			4z)	200mm Magnetic Flow Meter	\$14,890.54	\$13,177.47	y	\$14,890.54	0.0%	Current fee achieves full cost recovery
			4aa)	200mm Fire Rated Magnetic Flow Meter	\$16,266.37	\$14,395.02	y	\$16,266.37	0.0%	Current fee achieves full cost recovery
			4ab)	250mm Turbine	\$12,909.20	\$12,946.04	y	\$14,629.03	13.3%	To achieve full cost recovery
			4ac)	250mm Magnetic Flow Meter	\$15,070.41	\$13,969.71	y	\$15,785.77	4.7%	To achieve full cost recovery
			4ad)	250mm Fire Rated Magnetic Flow Meter	\$18,334.25	\$16,225.00	y	\$18,334.25	0.0%	Current fee achieves full cost recovery
			4ae)	250mm Fire Service Turbine	\$20,588.32	\$21,296.60	y	\$24,065.16	16.9%	To achieve full cost recovery
			4af)	250mm Fire Service Compound	\$29,046.50	\$25,704.87	y	\$29,046.50	0.0%	Current fee achieves full cost recovery
			4ag)	50mm Strainer	\$473.64	\$454.61	y	\$513.71	8.5%	To achieve full cost recovery
			4ah)	100mm Strainer	\$876.50	\$910.34	y	\$1,028.68	17.4%	To achieve full cost recovery
			4ai)	150mm Strainer	\$1,401.98	\$1,447.69	y	\$1,635.89	16.7%	To achieve full cost recovery
			4aj)	200mm Strainer	\$2,381.81	\$2,107.80	y	\$2,381.81	0.0%	Current fee achieves full cost recovery
			4ak)	250mm Strainer	\$3,993.11	\$3,533.73	y	\$3,993.11	0.0%	Current fee achieves full cost recovery
R84-026	510220	45690	5	<b>Bench Testing Water Meters</b> Note: Cost to have a water meter tested for accuracy. If the meter tests within the accuracy standards as set out by AWWA then the property owner is responsible for the cost of the test and the replacement cost of the water meter; otherwise cost borne by the City. Fee includes removal of existing meter and installation of replacement meter.						
			5a)	15 mm & 16 mm Diameter	\$355.45	\$314.56	y	\$355.45	0.0%	Current fee achieves full cost recovery
			5b)	16-25mm Diameter - Test where meter has been removed from service within prior 90 days	\$147.34	\$195.79	y	\$221.24	50.2%	To achieve full cost recovery
			5c)	20 mm Diameter	\$410.04	\$364.89	y	\$412.33	0.6%	To achieve full cost recovery
			5d)	25 mm Diameter	\$468.50	\$443.85	y	\$501.55	7.1%	To achieve full cost recovery
			5e)	38 mm Diameter	\$1,033.02	\$914.18	y	\$1,033.02	0.0%	Current fee achieves full cost recovery
			5f)	50 mm Diameter	\$1,742.55	\$1,542.08	y	\$1,742.55	0.0%	Current fee achieves full cost recovery
			5g)	100 mm plus diameter (In Situ testing)	\$1,051.37	\$930.42	y	\$1,051.37	0.0%	Current fee achieves full cost recovery

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**PUBLIC WORKS  
HAMILTON WATER**

For Billing Purposes: M - F: 7:00am - 4:30pm  
Regular Hours: M - F: 4:30pm - 7:00am, Weekends and Holidays

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 Including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
10-103	510220	45644	6	<b>Backflow Prevention Program</b> Note: Costs for contractor registration fee, administration fees for processing backflow prevention test reports and survey forms.						
			6a)	Annual Program Registration Fee	\$152.51	\$139.88	y	\$158.06	3.6%	To achieve full cost recovery
			6b)	Test Report receipt and processing (per submission of each test report)	\$72.61	\$64.26	y	\$72.61	0.0%	Current fee achieves full cost recovery
			6c)	Cross Connection Survey Form processing (per form upon submission)	\$181.12	\$166.24	y	\$187.85	3.7%	To achieve full cost recovery
			6d)	Backflow Prevention Device Investigation - Regular Hours	\$160.60	\$145.95	y	\$164.92	2.7%	To achieve full cost recovery
			6e)	Backflow Prevention Device Investigation - After Hours	\$233.80	\$206.90	y	\$233.80	0.0%	Current fee achieves full cost recovery
R84-026	514330	45590	7	<b>Construction Water</b> Note: Charge for unmetered water used for construction prior to meter installation. Paid at the time of submitting building permit payment.						
			7a)	Single Residential (per lot or townhouse)	\$100.00	\$103.70	n	\$103.70	3.7%	Equal to variable water rate increase
			7b)	Multi-residential (per apartment/condo unit)	\$46.75	N/A	n			Fee no longer applied as of May 2020
			7c)	Industrial/Commercial/Institutional (\$/1,000 sqft of building area or \$/ha where no structure is constructed)	\$32.80	N/A	n			Fee no longer applied as of May 2020
			8	<b>Hydrant/Road Adaptor Fees</b> Note: Costs to install or remove water meter & backflow prevention device. When moving a hydrant/road adaptor from one site to another for the same customer, both removal & installation fees apply. This service requires a usage deposit and a damage deposit.						
R84-026	514330	41208	8a)	Usage Cost (Metered Hauled Water Rate/m³)	\$2.45	\$2.55	n	\$2.55	4.1%	Rate is 1.5x volumetric water rate
R84-026	514330	41209	8b)	Hydrant/Road Adaptor Connection/Disconnection Fee (Regular Hours-Fee for Both Services)	\$146.94	\$151.14	n	\$151.14	2.9%	To achieve full cost recovery
R84-026	514330	41209	8c)	Hydrant/Road Adaptor Connection/Disconnection Fee (After Hours/Emergency-Fee for Both Services)	\$276.71	\$285.53	n	\$285.53	3.2%	To achieve full cost recovery
R84-026	514330	41209	8d)	Non-Refundable Usage Deposit	\$300.00	\$300.00	n	\$300.00	0.0%	Deposit rounded to the nearest \$100
R84-026	514330	41209	8e)	Security/Damage Deposit	\$6,000.00	\$6,000.00	n	\$6,000.00	0.0%	Deposit rounded to the nearest \$100
R84-026	514330	41209	8f)	Hydrant/road adaptor rental fee for initial 7 days	\$82.56	\$82.56	n	\$82.56	0.0%	To achieve full cost recovery
R84-026	514330	41209	8g)	Per Diem hydrant/road adaptor rental fee after initial 7 days	\$6.13	\$6.13	n	\$6.13	0.0%	To achieve full cost recovery
R84-026	514330	47244	9	<b>Private Water Station Agreement Fees</b> Annual Renewal	\$386.22	\$408.16	n	\$408.16	5.7%	To achieve full cost recovery
R84-026	514330	47232	10	<b>Water Haulage Fees</b>						
			10a)	Annual Water Haulage Permit Fee Note: Annual license fee to utilize the City's public filling stations.	\$64.91	\$57.82	y	\$65.34	0.7%	No cards issued, Online Registration
			10b)	Account review Note: Costs charged for administrative services to provide customer account information for personal or taxation purposes.	\$99.34	\$87.91	y	\$99.34	0.0%	Current fee achieves full cost recovery
R84-026	510220	45519	11	<b>General Administration Fees</b>						
			11a)	General Administrative Requests (per hour)/Report Requests	\$78.15	\$69.76	y	\$78.83	0.9%	To achieve full cost recovery
			11b)	Permit Cancellation administrative fee	\$46.49	\$41.29	y	\$46.66	0.4%	To achieve full cost recovery
			11c)	Permit Renewal Fee	\$46.49	\$41.29	y	\$46.66	0.4%	To achieve full cost recovery
			11d)	Lead Line Replacement Loan Application Fee	\$58.31	\$51.92	y	\$58.67	0.6%	To achieve full cost recovery
			11e)	Monthly AMI Manual Meter Read Fee	\$3.39	\$3.00	y	\$3.39	0.0%	Current fee achieves full cost recovery
			11f)	Water Shut-off Admin Fee	\$22.60	\$22.60	y	\$25.54	13.0%	To achieve full cost recovery
			11g)	Water Shut-off Notice on Door	\$31.92	\$31.92	y	\$36.07	13.0%	To achieve full cost recovery
			11h)	AMI Consumption History Fee	N/A	\$12.79	y	\$14.45		New Fee
			11i)	NSF Fee - Processing fee on all 'returned' payments	\$39.89	\$36.10	y	\$40.79	2.3%	To achieve full cost recovery

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**PUBLIC WORKS  
HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026			12	<b>Water Inspection Services</b> Note: Costs associated with various permit and inspection services related to water services for properties.						
	514330	47235	12a)	Private Water Service Repair/Replacement Inspection (Reg Hours - Max 1 Hour Total	\$105.60	\$95.80	y	\$108.25	2.5%	To achieve full cost recovery
	514330	47235	12b)	Private Water Service Repair/Replacement Inspection (After Hours /Emerg - Max 1 Hour	\$178.95	\$163.01	y	\$184.20	2.9%	To achieve full cost recovery
	514330	45690	12c)	Water Service Abandonment Inspection (Regular Hours - Max 1 Hour Total Labour)	\$94.32	\$85.57	y	\$96.69	2.5%	To achieve full cost recovery
	514330	45690	12d)	Water Service Abandonment Inspection (After Hours / Emergency - Max 1 Hour Total	\$167.65	\$152.77	y	\$172.63	3.0%	To achieve full cost recovery
	514330	45690	12e)	Water Service Inspection for Demolition (Regular Hours - Max 1 Hour Total Labour)	\$94.32	\$85.57	y	\$96.69	2.5%	To achieve full cost recovery
	514330	45690	12f)	Water Service Inspection for Demolition (After Hours / Emergency - Max 1 Hour Total	\$167.65	\$152.77	y	\$172.63	3.0%	To achieve full cost recovery
	514330	45690	12g)	Missed or Cancelled Inspection	\$68.53	\$61.82	y	\$69.86	1.9%	To achieve full cost recovery
R84-026	514330	45690	13	<b>Upsize Public Portion Water Service from 20mm to 25mm</b> Note: Charge for upsizing a public portion water service from 20mm to 25mm, when a public portion water service replacement is already being completed by the City.	\$155.00	\$156.55	n	\$156.55	1.0%	To achieve full cost recovery
R84-026	514330	45679	14	<b>Turning Water Off or On</b> Note: Turning water off at the curb to enable a property owner to complete internal plumbing repairs, or a private water service repair or replacement, and then turning the water back on.						
			14a)	Turning Water On/Off (Regular Hours)	\$124.10	\$127.40	n	\$127.40	2.7%	To achieve full cost recovery
			14b)	Turning Water On/Off (After Hours/Emergency)	\$208.25	\$214.30	n	\$214.30	2.9%	To achieve full cost recovery
			14c)	Turning Water On/Off During the Same Visit (Regular Hours - Max 1/2 Hour Total Labour)	\$83.47	\$85.54	n	\$85.54	2.5%	To achieve full cost recovery
			14d)	Labour	\$114.13	\$117.12	n	\$117.12	2.6%	To achieve full cost recovery
			14e)	Non-compliance Turn Water Off	\$83.47	\$85.54	n	\$85.54	2.5%	To achieve full cost recovery
			14f)	Non-compliance Turn Water On	\$83.47	\$85.54	n	\$85.54	2.5%	To achieve full cost recovery
R84-026	514330	45636	15	<b>Hydrant Flow Test / Water Quality Flushing</b> Note: Cost to operate a City Fire Hydrant(s) for a maximum of 1 hour total labour.	\$120.11	\$109.31	y	\$123.52	2.8%	To achieve full cost recovery
R84-026	514330	45690	16	<b>Water Quality/Quantity Service Calls</b> Note: Cost for a service call to investigate a water quality/quantity complaint and the issue resides on private property. No charge for water quality/quantity complaints related to issues originating from the City's distribution system. <u>Missed appointments will be billed the corresponding service call rate.</u>						
			16a)	Service Call (Regular Hours - Max 1 Hour Total Labour)	\$94.32	\$85.57	y	\$96.69	2.5%	To achieve full cost recovery
			16b)	Service Call (After Hours - Max 1 Hour Total Labour)	\$167.65	\$149.93	y	\$169.42	1.1%	To achieve full cost recovery
R84-026	510290	45690	17	<b>Hydrant Repair, Replace or Relocate</b> Note: Cost to repair, replace, or relocate a City Fire Hydrant including labour, parts, materials, equipment, and permanent restoration.	Cost + 33% OH	Cost + 33% OH	y	Cost + 33% OH	N/A	To achieve full cost recovery
R84-026	514330	45690	18	<b>Watermain Shutdowns</b> Note: Costs associated with isolating a watermain to facilitate third party work.						
			18a)	Watermain Shutdown / Recharge (Regular Hours-Maximum 1 Hour Total Labour)	\$129.11	\$133.06	n	\$133.06	3.1%	To achieve full cost recovery
			18b)	Watermain Shutdown / Recharge (After Hours / Emergency-Maximum 1 Hour Total Labour)	\$232.49	\$239.68	n	\$239.68	3.1%	To achieve full cost recovery
R84-026	510350	45408	19	<b>Environmental Records Search PRISM Reports related to soil contamination</b> Reports - Environmental Assessments and Master Plans - plus fee per page	\$180.58 \$17.75 \$0.12	\$163.00 \$16.02 \$0.12	y y y	\$184.19 \$18.11 \$0.12	2.0% 2.0% 2.0%	To achieve full cost recovery To achieve full cost recovery To achieve full cost recovery
R84-026	514330	45690	20	<b>Miscellaneous Water Distribution System Repair</b> Note: Cost for the City to repair damage to the water distribution system caused by a third party. Costs include labour, parts, materials, equipment, and permanent restoration.	Cost + 33% OH	Cost + 33% OH	y	Cost + 33% OH	N/A	To achieve full cost recovery
R84-026	514330	45690	21	<b>Additional Labour Charges</b> Note: Additional labour charge for all services/calls that exceed the allotted labour time. Costs are for a single Water Distribution Operator in minimum increments of 30 minutes.						
			21a)	1/2 Hour Additional Labour (Regular Hours)-Water Distribution Operator	\$25.80	\$23.76	y	\$26.85	4.1%	To achieve full cost recovery
			21b)	1/2 Hour Additional Labour (After Hours)-Water Distribution Operator	\$38.70	\$35.62	y	\$40.25	4.0%	To achieve full cost recovery
			21c)	1/2 Hour Additional Labour (Regular Hours)-Water Distribution Operator	\$22.82	\$23.74	n	\$23.74	4.0%	To achieve full cost recovery
			21d)	1/2 Hour Additional Labour (After Hours)-Water Distribution Operator	\$34.23	\$35.62	n	\$35.62	4.1%	To achieve full cost recovery

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**2021 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS  
 HAMILTON WATER**

**For Billing Purposes,**  
 Regular Hours: M - F: 7:00am - 4:30pm  
 After Hours: M - F: 4:30pm - 7:00am, Weekends and Holidays

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
<b>COLLECTION SYSTEM INSPECTION &amp; MAINTENANCE</b>										
06-026			1	<b>Wastewater Inspection Services</b> Note: Costs associated with various permit and inspection services related to sewer laterals for properties.						
	516175	47230	1a)	Private Sewer Lateral Repair/Replacement Inspection (Regular Hours - Maximum 1 Hour Total Labour)	\$109.25	\$99.15	y	\$112.04	2.6%	To achieve full cost recovery
	516175	47230	1b)	Private Sewer Lateral Repair/Replacement Inspection (After Hours / Emergency - Maximum 1 Hour Total Labour)	\$232.10	\$212.33	y	\$239.93	3.4%	To achieve full cost recovery
	516175	45690	1c)	Missed or Cancelled Inspection	\$78.54	\$70.86	y	\$80.07	2.0%	To achieve full cost recovery
	516175	45690	1d)	Mainline Sewer Inspection Note: CCTV inspection of mainline sewers (storm, sanitary or combined). Cost based on linear meter inspection.	Cost + 33% OH	Cost + 33% OH	y	Cost + 33% OH	N/A	To achieve full cost recovery
06-026	516175	45690	2	<b>Sewer Related Service Calls</b> Note: Cost for a service call to investigate a sewer related complaint and the issue resides on private property. No charge for sewer complaints related to issues originating from the City's sewer system. <u>Missed appointments will be billed the corresponding service call.</u>						
			2a)	Service Call (Regular Hours - Maximum 1 Hour Total Labour)	\$97.30	\$88.15	y	\$99.61	2.4%	To achieve full cost recovery
			2b)	Service Call (After Hours - Maximum 1 Hour Total Labour)	\$196.28	\$179.33	y	\$202.64	3.2%	To achieve full cost recovery
06-026	516175	45690	3	<b>Sewer Lateral Cleaning and Investigation Fees</b> Note: When a property owner qualifies for the Sewer Lateral Management Program and chooses to hire their own Plumbing Contractor, these prices represent the maximum amounts that will be reimbursed to the property owner for the sewer lateral cleaning and investigation services performed by the independent Plumbing Contractor						
			3a)	Complete Sewer Lateral Investigation - Regular Hours	\$458.68	\$414.03	y	\$467.86	2.0%	To achieve full cost recovery
			3b)	Complete Sewer Lateral Investigation - After Hours	\$506.65	\$457.33	y	\$516.78	2.0%	To achieve full cost recovery
			3c)	Partial Sewer Lateral Cleaning - Regular Hours	\$149.89	\$135.30	y	\$152.89	2.0%	To achieve full cost recovery
			3d)	Partial Sewer Lateral Cleaning - After Hours	\$209.85	\$189.43	y	\$214.05	2.0%	To achieve full cost recovery
			3e)	Abandoned Sewer Lateral Investigation - Regular Hours	\$239.83	\$216.49	y	\$244.63	2.0%	To achieve full cost recovery
			3f)	Abandoned Sewer Lateral Investigation - After Hours	\$299.79	\$270.61	y	\$305.79	2.0%	To achieve full cost recovery
06-026	516175	45690	4	<b>Miscellaneous Wastewater Collection System Repair</b> Note: Cost for the City to repair damage to the wastewater collection system caused by a third party. Costs include labour, parts, materials, equipment, and permanent restoration.	Cost + 33% OH	Cost + 33% OH	y	Cost + 33% OH	N/A	To achieve full cost recovery
06-026	516175	45690	5	<b>Additional Labour Charges</b> Note: Additional labour charge for all services/calls that exceed the allotted labour time. Costs are for a single Wastewater Collection Operator or Contract Inspector in minimum increments of 30 minutes.						
			5a)	1/2 Hour Additional Labour (Regular Hours) - Wastewater Collection	\$24.75	\$22.79	y	\$25.75	4.1%	To achieve full cost recovery
			5b)	1/2 Hour Additional Labour (After Hours) - Wastewater Collection	\$37.10	\$34.20	y	\$38.65	4.2%	To achieve full cost recovery

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**PUBLIC WORKS  
HAMILTON WATER**

Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
			<b>LABORATORY SERVICES</b>						
			<u>Inorganic Tests:</u>						
		1	<b>Solids</b>						
510250	45519	1a)	Total Suspended Solids (TSS)	\$24.52	\$21.70	y	\$24.52	0.0%	Current fee achieves full cost recovery
		1b)	TSS plus Volatile Suspended Solids (VSS)	\$24.52	\$21.70	y	\$24.52	0.0%	Current fee achieves full cost recovery
		1c)	Total Solids (TS)	\$21.58	\$19.10	y	\$21.58	0.0%	Current fee achieves full cost recovery
		1d)	TS plus Volatile Solids (VS)	\$22.71	\$20.10	y	\$22.71	0.0%	Current fee achieves full cost recovery
		1e)	Total Dissolved Solids	\$36.16	\$32.00	y	\$36.16	0.0%	Current fee achieves full cost recovery
		2	<b>Skalar</b>						
		2a)	Total Cyanide	\$38.87	\$36.90	y	\$41.70	7.3%	To achieve full cost recovery
		2b)	Phenolics	\$35.93	\$33.00	y	\$37.29	3.8%	To achieve full cost recovery
		2c)	Total Kjeldhal Nitrogen (TKN)	\$35.48	\$31.40	y	\$35.48	0.0%	Current fee achieves full cost recovery
		2d)	Ammonia	\$39.10	\$34.60	y	\$39.10	0.0%	Current fee achieves full cost recovery
		2e)	Dissolved Organic Carbon	\$38.76	\$37.00	y	\$41.81	7.9%	To achieve full cost recovery
		2f)	Total Organic Carbon	\$38.76	\$37.00	y	\$41.81	7.9%	To achieve full cost recovery
		2g)	Reactive Silica	\$32.54	\$30.00	y	\$33.90	4.2%	To achieve full cost recovery
510250	45519	3	Ion Chromatography (IC Scan)	\$56.95	\$50.40	y	\$56.95	0.0%	Current fee achieves full cost recovery
510250	45519	4	PC Titrate						
		4a)	pH	\$18.65	\$16.50	y	\$18.65	0.0%	Current fee achieves full cost recovery
		4b)	Alkalinity	\$18.53	\$16.40	y	\$18.53	0.0%	Current fee achieves full cost recovery
		4c)	Conductivity	\$18.53	\$16.40	y	\$18.53	0.0%	Current fee achieves full cost recovery
		4d)	Fluoride	\$28.02	\$24.80	y	\$28.02	0.0%	Current fee achieves full cost recovery
		5	Turbidity	\$27.91	\$26.40	y	\$29.83	6.9%	To achieve full cost recovery
		6	UV Transmittance	\$28.59	\$25.30	y	\$28.59	0.0%	Current fee achieves full cost recovery
		7	Color Apparent	\$25.88	\$22.90	y	\$25.88	0.0%	Current fee achieves full cost recovery
		8	Color True	\$25.88	\$22.90	y	\$25.88	0.0%	Current fee achieves full cost recovery
		9	O Phosphate	\$30.17	\$26.70	y	\$30.17	0.0%	Current fee achieves full cost recovery
		10	Chemical Oxygen Demand (COD)	\$42.83	\$37.90	y	\$42.83	0.0%	Current fee achieves full cost recovery
		11	Biochemical Oxygen Demand (BOD)	\$42.60	\$37.70	y	\$42.60	0.0%	Current fee achieves full cost recovery
		12	Volatile Acid	\$42.15	\$37.30	y	\$42.15	0.0%	Current fee achieves full cost recovery
			<u>Microbiology Tests:</u>						
510250	45519	13	Total Coliform/E coli - Presence/Absence	\$29.04	\$26.30	y	\$29.72	2.3%	To achieve full cost recovery
510250	45519	14	Total Coliform/E coli - MPN	\$28.00	\$28.70	y	\$32.43	2.5%	To achieve full cost recovery
510250	45519	15	EC - MPN	\$32.32	\$28.70	y	\$32.43	0.3%	To achieve full cost recovery
510250	45519	16	Heterotrophic Plate Count	\$30.17	\$26.90	y	\$30.40	0.7%	To achieve full cost recovery
510250	45519	17	Micro Examination	\$155.15	\$143.90	y	\$162.61	4.8%	To achieve full cost recovery
510250	45519	18	Microcystin	\$581.95	\$515.00	y	\$581.95	0.0%	Current fee achieves full cost recovery
			<u>Metals:</u>						
510250	45519	18	ICP OES						
		18a)	ICP OES Scan (Wastewater)	\$65.77	\$60.30	y	\$68.14	3.6%	To achieve full cost recovery
		18b)	Total Phosphorous	\$31.30	\$27.70	y	\$31.30	0.0%	Current fee achieves full cost recovery
		18c)	Total Dissolved Phosphorous	\$31.30	\$27.70	y	\$31.30	0.0%	Current fee achieves full cost recovery
510250	45519	19	ICP MS						
		19a)	ICP MS Scan	\$65.77	\$60.30	y	\$68.14	3.6%	To achieve full cost recovery
510250	45519	20	AA						
		20a)	Mercury	\$51.64	\$45.70	y	\$51.64	0.0%	Current fee achieves full cost recovery
510250	45519	21	Organics						
		21a)	Caffeine	\$140.80	\$130.90	y	\$147.92	5.1%	To achieve full cost recovery
510250	45519	22	Additional Fees						
		22a)	Weekend surcharge	\$113.00	\$100.00	y	\$113.00	0.0%	Current fee achieves full cost recovery

\*Costs not specifically addressed in the schedule will be invoiced at Actual Cost plus overhead\*

\*\*For general inquiries, please call 905 548 2424 ext 5834\*\*



**2021 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS  
HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				<b>ENVIRONMENTAL MONITORING &amp; ENFORCEMENT</b> To Regulate the Discharge of any Matter into the Sanitary, Combined, and Storm Sewer Systems.						
14-090	516175	47232	1	<b>Annual Permit to Discharge Hauled Sewage</b> Note: Cost for administration and processing of annual permits required to haul sewage within Hamilton	\$329.00	\$329.00	n	\$329.00	0.0%	Current fee achieves full cost recovery
			2	<b>Discharge fees for Hauled Sewage generated:</b> <b>Inside the City - Compliant</b> Note: Cost per truck full of sewage containing materials within Sewer Use By-law limits						
14-090	516175	41314	2a)	up to 1000 imperial gallons (4.54 m3) or any part thereof	\$50.15	\$51.15	n	\$51.15	2.0%	To achieve full cost recovery
14-090	516175	41314	2b)	greater than 1000 (4.54 m3) but less than or equal to 3500 Imperial gallons (15.9m3)	\$50.15	\$51.15	n	\$51.15	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	2c)	greater than 3500 (15.9 m3) but less than or equal to 5000 Imperial gallons (22.7 m3)	\$100.30	\$102.30	n	\$102.30	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	2d)	greater than 5000 (22.7 m3) but less than or equal to 8000 Imperial gallons (36.3 m3)	\$150.45	\$153.45	n	\$153.45	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	2e)	greater than 8000 (36.3 m3) but less than or equal to 10000 Imperial gallons (45.43 m3)	\$200.60	\$204.60	n	\$204.60	2.0%	Has to remain a multiple of \$51.15
			3	<b>Discharge fees for Hauled Sewage generated:</b> <b>Inside the City - Non-Compliant</b> Note: Cost per truck full of sewage containing materials that exceed one or more Sewer Use By-law limits						
14-090	516175	41314	3a)	up to 1000 imperial gallons (4.54 m3) or any part thereof	\$50.15	\$51.15	n	\$51.15	2.0%	To achieve full cost recovery
14-090	516175	41314	3b)	greater than 1000 (4.54 m3) but less than or equal to 3500 Imperial gallons (15.9m3)	\$100.30	\$102.30	n	\$102.30	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	3c)	greater than 3500 (15.9 m3) but less than or equal to 5000 Imperial gallons (22.7 m3)	\$150.45	\$153.45	n	\$153.45	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	3d)	greater than 5000 (22.7 m3) but less than or equal to 8000 Imperial gallons (36.3 m3)	\$250.75	\$255.75	n	\$255.75	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	3e)	greater than 8000 (36.3 m3) but less than or equal to 10000 Imperial gallons (45.43 m3)	\$300.90	\$306.90	n	\$306.90	2.0%	Has to remain a multiple of \$51.15
14-090	516175	41314	4	<b>Holding Tanks for Recreational Vehicles</b> Note: Cost for Recreational Vehicles (RV's) to dump sewer waste at the Mountain Transfer Station	\$8.50	\$8.50	n	\$8.50	0.0%	Current fee achieves full cost recovery
			5	<b>Overstrength Discharge Fees</b> Note: Cost per kilogram of each specified parameter that is in excess of Sewer Use By-law limits, and subject to a Sewer Discharge Permit						
14-090	516080	41315	5a)	Biochemical Oxygen Demand (charge per kg)	\$0.78	\$0.80	n	\$0.80	1.5%	To achieve full cost recovery
14-090	516080	41315	5b)	Total suspended solids (charge per kg)	\$0.63	\$0.64	n	\$0.64	2.5%	To achieve full cost recovery
14-090	516080	41315	5c)	Oil & grease (animal/vegetable) (charge per kg)	\$0.44	\$0.45	n	\$0.45	2.3%	Decrease reflecting rate review
14-090	516080	41315	5d)	Total Kjeldahl Nitrogen (charge per kg)	\$1.00	\$1.02	n	\$1.02	2.0%	Decrease reflecting rate review
14-090	516080	41315	5e)	Total Phosphorus (charge per kg)	\$1.78	\$1.89	n	\$1.89	6.2%	To achieve full cost recovery
14-090	516080	41317	6	<b>Surcharge Discharge Fee (charge per m3)</b>	\$1.75	\$1.82	n	\$1.82	4.0%	Equal to variable wastewater rate increase

\*Costs not specifically addressed in the schedule will be invoiced at Actual Cost plus overhead\*

\*\*For general inquiries, please call 905-540-5190 or email sewerusebylaw@hamilton.ca\*\*

**2021 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS  
HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
			7	<b>Application Fees for Sewer Discharge Permits</b> <b>NOTE: Fee to be paid upon application for Sewer Discharge Permit</b>						
14-090	510260	45519	7a)	Application Fee	\$711.15	\$641.93	y	\$725.38	2.0%	Increase due to incorporating 7b) and 7c) fees into Application Fee Current fee achieves full cost recovery To achieve full cost recovery
14-090	510260	45519	7b)	Wastewater Characterization deposit (optional)	\$500.00	\$500.00	n	\$500.00	0.0%	
14-090	510260	45519	7c)	Amendment Fee (all permit types)	\$333.88	\$301.38	y	\$340.56	2.0%	
			8	<b>Administrative Fees for Sewer Discharge Permits</b> <b>Note: Multiple permit holders pay the higher administration fee (for example, if the permit holder has both an Overstrength Discharge Permit and a Compliance Program Permit, they will pay \$810.00 per quarter</b>						
14-090	510260	45532	8a)	Overstrength Discharge Permit (charged quarterly)	\$435.00	\$435.00	n	\$435.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45532	8b)	Sanitary Discharge Permit (charged quarterly)	\$435.00	\$435.00	n	\$435.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45532	8c)	Chloride Discharge Permit (charged quarterly)	\$435.00	\$435.00	n	\$435.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45532	8d)	Compliance Discharge Permit (charged quarterly)	\$1,071.00	\$1,071.00	n	\$1,071.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45532	8e)	Conditional Discharge Permit (charged quarterly)	\$1,071.00	\$1,071.00	n	\$1,071.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45519	9	<b>Information Requests</b> <b>Note: Fee per property for records search related to Sewer Use By-law historical violations</b>	\$170.47	\$153.88	y	\$173.88	2.0%	To achieve full cost recovery
14-090	510260	45532	10	<b>Wastewater Sampling (optional)</b> <b>Note: Per unit costs to conduct wastewater sampling to determine permit conditions and limits</b>						
			10a)	Wastewater Sampling Vehicle Fee (per kilometer)	\$1.37	\$1.23	y	\$1.39	1.7%	To achieve full cost recovery
			10b)	Wastewater Sampling Equipment Fee (per day)	\$44.84	\$39.68	y	\$44.84	0.0%	Current fee achieves full cost recovery
			10c)	Wastewater Sampling Technician Fee (per hour) Mon - Fri	\$56.55	\$50.64	y	\$57.22	1.2%	To achieve full cost recovery
			10d)	Wastewater Sampling Technician Fee (per hour) Sat	\$84.82	\$75.96	y	\$85.83	1.2%	To achieve full cost recovery
			10e)	Wastewater Sampling Technician Fee (per hour) Sun	\$113.08	\$101.28	y	\$114.45	1.2%	To achieve full cost recovery

\*multiple permit holders pay the higher administrative fee (for example, if the permit holder has both an Overstrength Discharge Permit and a Compliance Program Permit, they will pay \$1,071.00 per quarter).

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**2020 PROPOSED USER FEES AND CHARGES**

**PUBLIC WORKS  
 HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2020 including HST (if applicable)	2021 Proposed Fee	HST (y/n)	2021 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				<b>ENVIRONMENTAL MONITORING &amp; ENFORCEMENT Fees related to the Wastewater Abatement Program</b>						
03-272	510260	45532	1	Application Fee (plus cost recovery for peer review if required)	\$423.19	\$381.99	y	\$431.65	2.0%	To achieve full cost recovery
03-272	510260	45532	2	Annual Administration Fee	\$842.19	\$760.21	y	\$859.04	2.0%	To achieve full cost recovery

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## Appendix "H" to Report FCS20073 Page 1 of 1

**SOURCE OF CAPITAL FINANCING  
2021 to 2030 RATE PROGRAM CAPITAL BUDGET  
\$(000'S)**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2021 to 2030
<b>TOTAL RATE PROGRAM</b>											
<b>Capital Program</b>	<b>299,911</b>	<b>264,651</b>	<b>224,706</b>	<b>196,173</b>	<b>214,366</b>	<b>299,024</b>	<b>298,553</b>	<b>293,962</b>	<b>209,019</b>	<b>227,287</b>	<b>2,527,652</b>
<b><u>Source of Funding</u></b>											
Subsidy/Other Revenue	24,246	75	75	75	105	75	75	75	75	75	24,951
Development Charges	76,962	66,548	68,449	35,554	50,711	135,868	120,960	104,291	5,987	8,727	674,057
Reserves & Other Internal Sources	25,334	25,286	21,240	10,640	640	640	640	640	640	640	86,340
Contribution from Operating	125,369	128,042	133,742	141,504	150,310	160,941	174,478	188,956	202,317	217,845	1,623,504
External Debt	48,000	44,700	1,200	8,400	12,600	1,500	2,400	-	-	-	118,800
<b>Total</b>	<b>299,911</b>	<b>264,651</b>	<b>224,706</b>	<b>196,173</b>	<b>214,366</b>	<b>299,024</b>	<b>298,553</b>	<b>293,962</b>	<b>209,019</b>	<b>227,287</b>	<b>2,527,652</b>

## Appendix "I" to Report FCS20073 Page 1 of 1

**CITY OF HAMILTON**  
**2021 - 2030 WATER / WASTEWATER / STORM CAPITAL FINANCING PLAN**  
**(\$'s)**

	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2021 - 2030</u>
<b>NET EXPENDITURES FORECAST</b>												
WASTEWATER (NET)	69,573,000	85,937,984	74,224,000	43,873,000	43,978,000	55,168,000	58,610,675	65,134,599	79,927,190	60,178,000	74,363,000	641,394,448
WATER (NET)	50,296,000	69,798,000	79,433,865	67,894,186	76,535,842	89,237,230	81,595,000	69,138,571	71,923,359	105,623,716	112,677,376	823,857,145
STORM (NET)	15,685,000	17,632,679	19,084,321	23,175,000	29,390,000	18,505,000	22,235,000	42,605,000	37,105,000	36,515,000	30,805,000	277,052,000
<b>TOTAL NET EXPENDITURES</b>	<b>135,554,000</b>	<b>173,368,663</b>	<b>172,742,186</b>	<b>134,942,186</b>	<b>149,903,842</b>	<b>162,910,230</b>	<b>162,440,675</b>	<b>176,878,170</b>	<b>188,955,549</b>	<b>202,316,716</b>	<b>217,845,376</b>	<b>1,742,303,593</b>
<b>SOURCE OF FINANCING</b>												
DEBT ISSUES	16,900,000	48,000,000	44,700,000	1,200,000	8,400,000	12,600,000	1,500,000	2,400,000	0	0	0	118,800,000
TRANSFER FROM OPERATING	118,654,000	125,368,663	128,042,186	133,742,186	141,503,842	150,310,230	160,940,675	174,478,170	188,955,549	202,316,716	217,845,376	1,623,503,593
<b>TOTAL CAPITAL FINANCING</b>	<b>135,554,000</b>	<b>173,368,663</b>	<b>172,742,186</b>	<b>134,942,186</b>	<b>149,903,842</b>	<b>162,910,230</b>	<b>162,440,675</b>	<b>176,878,170</b>	<b>188,955,549</b>	<b>202,316,716</b>	<b>217,845,376</b>	<b>1,742,303,593</b>
<b>OPERATING BUDGET IMPACT</b>												
TRANSFER FROM OPERATING	118,654,000	125,368,663	128,042,186	133,742,186	141,503,842	150,310,230	160,940,675	174,478,170	188,955,549	202,316,716	217,845,376	1,623,503,593
DC EXEMPTION FUNDING	8,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	90,000,000
DEBT CHARGES (NET)	19,682,108	20,534,486	26,956,235	31,417,224	34,350,771	36,299,423	36,508,591	34,888,656	32,417,324	32,142,594	29,390,165	314,905,469
<b>TOTAL CAPITAL FINANCING COSTS</b>	<b>146,336,108</b>	<b>154,903,149</b>	<b>163,998,421</b>	<b>174,159,410</b>	<b>184,854,613</b>	<b>195,609,653</b>	<b>206,449,266</b>	<b>218,366,826</b>	<b>230,372,873</b>	<b>243,459,310</b>	<b>256,235,541</b>	<b>2,028,409,062</b>

<b>CITY OF HAMILTON</b> <b>2021-2030 CAPITAL BUDGET FINANCING PLAN</b> <b>RATE SUPPORTED PROGRAM - AFFORDABLE / UNAFFORDABLE</b> <b>\$(000's)</b>							
<u>Year</u>	<u>Projected Gross Cost</u>	<u>Affordable Gross Cost</u>	<u>Subsidy/ Other Revenue</u>	<u>Dev't Charges</u>	<u>Reserves/ &amp; Internal Sources</u>	<u>FINANCING SOURCES</u>	
						<u>Contribution From Operating</u>	<u>External Debt</u>
	\$	\$	\$	\$	\$	\$	\$
2021	299,911	299,911	24,246	76,962	25,334	125,369	48,000
2022	281,549	264,651	75	66,548	25,286	128,042	44,700
2023	231,112	224,706	75	68,449	21,240	133,742	1,200
2024-2030	1,589,840	1,738,384	555	462,098	14,480	1,236,351	24,900
<b>TOTAL</b>	<b>2,402,412</b>	<b>2,527,652</b>	<b>24,951</b>	<b>674,057</b>	<b>86,340</b>	<b>1,623,504</b>	<b>118,800</b>

## Appendix "J" to Report FCS20073 Page 1 of 1

**SOURCE OF CAPITAL FINANCING**  
**2021 to 2030 RATE PROGRAM CAPITAL BUDGET**  
**\$(000'S)**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2021 to 2030
<b>WATER</b>											
<b>Capital Program</b>	<b>103,408</b>	<b>121,980</b>	<b>128,281</b>	<b>103,993</b>	<b>132,601</b>	<b>119,078</b>	<b>93,014</b>	<b>79,275</b>	<b>106,464</b>	<b>117,377</b>	<b>1,105,471</b>
<b><u>Source of Funding</u></b>											
Subsidy/Other Revenue	1,681	-	-	-	30	-	-	-	-	-	1,711
Development Charges	24,914	31,906	49,647	26,817	42,694	36,843	23,235	6,712	200	4,060	247,028
Reserves & Other Internal Sources	7,015	10,640	10,740	640	640	640	640	640	640	640	32,875
Contribution from Operating	50,498	62,234	67,894	68,136	76,637	80,095	69,139	71,923	105,624	112,677	764,857
External Debt	19,300	17,200	-	8,400	12,600	1,500	-	-	-	-	59,000
<b>Total</b>	<b>103,408</b>	<b>121,980</b>	<b>128,281</b>	<b>103,993</b>	<b>132,601</b>	<b>119,078</b>	<b>93,014</b>	<b>79,275</b>	<b>106,464</b>	<b>117,377</b>	<b>1,105,471</b>

City of Hamilton  
Water System  
2021 Capital Budget Project List  
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
<b>Annual Projects</b>														
City Wide	4032114405	Contaminated Soil & Rock Disposal Program		250	-	-	-	-	-	-	-	250	250	-
City Wide	4032158001	Consultation and Accommodation		30	-	-	-	-	-	-	-	30	30	-
City Wide	5142101099	Engineering Services Staffing Costs - Water		4,700	-	-	-	-	-	-	-	4,700	4,700	-
City Wide	5142160711	PW Capital Water Consumption Program		250	-	-	-	-	-	-	-	250	250	-
<i>Sub-Total Annual Projects</i>				<b>5,230</b>	-	-	-	-	-	-	-	<b>5,230</b>	<b>5,230</b>	-
<b>Coordinated - Network Extension Projects</b>														
15	5142171308	East-West Road Corridor (Waterdown By-Pass)	*	1,200	-	-	1,140	-	-	-	-	60	60	-
12	5142171328	Southcote - Garner to Highway 403 Bridge		160	-	-	80	-	-	-	-	80	80	-
11	5142171352	Airport Lands - Dickenson Rd - Upper James to Upper centennial PKWY		1,800	-	-	-	-	-	-	-	1,800	1,800	-
11	5142180183	Binbrook - Royal Winter/Binhaven to Fletcher	*	630	-	-	630	-	-	-	-	-	-	-
<i>Sub-Total Coordinated - Network Extension Projects</i>				<b>3,790</b>	-	-	<b>1,850</b>	-	-	-	-	<b>1,940</b>	<b>1,940</b>	-
<b>Coordinated - Replacement Projects</b>														
2	5141970012	Sheaffe / Park / Mulberry (Central Neighbourhood (North)) - Coordinated Road Restoration		200	-	-	-	-	-	-	-	200	200	-
2	5141971312	Sheaffe / Park / Mulberry (Central Neighbourhood (North))		1,240	-	-	-	-	-	-	-	1,240	1,240	-
4	5142071315	Delena / Beland / Dunsmore		1,140	-	-	-	-	-	-	-	1,140	1,140	-
2	5142170004	Strachan - James to east end - Coordinated Road Restoration		430	-	-	-	-	-	-	-	430	430	-
13	5142170011	Highway 8 - Bond to Woodleys Lane - Coordinated Road Restoration		830	-	-	-	-	-	-	-	830	830	-
4	5142170015	Delena / Beland / Dunsmore - Coordinated Road Restoration		930	-	-	-	-	-	-	-	930	930	-
1	5142171303	Marion - Longwood to Dromore		50	-	-	-	-	-	-	-	50	50	-
2	5142171304	Strachan - James to east end		600	-	-	-	-	-	-	-	600	600	-
8	5142171309	Inverness Court & Arcade Crescent (within Southam Neighbourhood)		150	-	-	-	-	-	-	-	150	150	-
4	5142171310	Barton - Parkdale to Talbot		1,080	-	-	-	-	-	-	-	1,080	1,080	-
13	5142171311	Highway 8 - Bond to Woodleys Lane		800	-	-	-	-	-	-	-	800	800	-
<i>Sub-Total Coordinated - Replacement Projects</i>				<b>7,450</b>	-	-	-	-	-	-	-	<b>7,450</b>	<b>7,450</b>	-
<b>Coordinated Projects</b>														
City Wide	5141855777	Water infrastructure Analysis - Growth and Economic Opportunities		350	-	200	-	-	-	-	-	150	150	-
City Wide	5142160501	Watermain Rehabilitation/Replacement Coordinated with Development		1,000	-	-	-	-	-	-	-	1,000	1,000	-
<i>Sub-Total Coordinated Projects</i>				<b>1,350</b>	-	<b>200</b>	-	-	-	-	-	<b>1,150</b>	<b>1,150</b>	-
<b>Demolition</b>														
2	5142067420	St. Joseph's Tank Pulsation Dampener (HD002STK)		110	-	-	-	-	-	-	-	110	110	-
<i>Sub-Total Demolition</i>				<b>110</b>	-	-	-	-	-	-	-	<b>110</b>	<b>110</b>	-
<b>Equipment Replacement</b>														
City Wide	5141966151	SCADA Maintenance Program		150	-	-	-	-	-	-	-	150	150	-
<i>Sub-Total Equipment Replacement</i>				<b>150</b>	-	-	-	-	-	-	-	<b>150</b>	<b>150</b>	-
<b>Information Management Development</b>														
City Wide	5142257000	Vertical Asset Management Program		280	-	-	-	-	-	-	-	280	280	-
<i>Sub-Total Information Management Development</i>				<b>280</b>	-	-	-	-	-	-	-	<b>280</b>	<b>280</b>	-
<b>Master Plan - Horizontal Assets</b>														
13, 15	5141796752	PD16 (Waterdown) Trunk Feedermain - PS HD016 to Hwy 5 at Algonquin (W-25) (CASH FLOWED)	*	430	-	-	322	-	-	-	-	108	108	-
11	5141996951	Binbrook Feedermain via Fletcher (W-30)	*	3,870	-	-	3,870	-	-	-	-	-	-	-
11	5142096250	Airport Lands External Water Servicing (Feedermain) (W-27)	*	7,170	-	1,481	5,689	-	-	-	-	-	-	-
<i>Sub-Total Master Plan - Horizontal Assets</i>				<b>11,470</b>	-	<b>1,481</b>	<b>9,881</b>	-	-	-	-	<b>108</b>	<b>108</b>	-
<b>Master Plan - Vertical Assets</b>														

City of Hamilton  
Water System  
2021 Capital Budget Project List  
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
12	5141395354	PD18 (Ancaster) Water Servicing Strategy (W-14) (CASH FLOWED)	*	800	-	-	400	-	-	-	-	400	400	-
13	5141595553	PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (W-M)	*	390	-	-	292	-	-	-	-	98	98	-
13	5141695883	PS HD016 (York and Valley) Capacity Upgrade, Standby Power & Building Expansion (W-28) (CASH FLOWED)	*	1,400	-	-	1,260	-	-	-	-	140	140	-
5	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	*	14,080	-	-	10,560	-	-	-	-	3,520	20	3,500
<i>Sub-Total Master Plan - Vertical Assets</i>				<b>16,670</b>	-	-	<b>12,512</b>	-	-	-	-	<b>4,158</b>	<b>658</b>	<b>3,500</b>
<b>Outstations-Sustainable Asset Mgt (SAM)</b>														
1	5141567273	Main / Whitney Pumping Station Replacement and Decommissioning		250	-	-	-	-	-	-	-	250	250	-
8	5141567520	Stone Church/Garth Water (HDR05) Reservoir		2,975	-	-	-	-	-	-	-	2,975	75	2,900
12	5141667421	Glancaster Rd & Hwy 53 Pumping Station (HD018) Upgrades (CASH FLOWED)		5,900	-	-	-	-	-	-	-	5,900	-	5,900
14	5141767650	New Greensville Communal Well		170	-	-	-	-	-	-	-	170	170	-
15	5141895852	Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)		440	-	-	-	-	-	-	-	440	440	-
4, 10	5141967375	HDR01 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades		1,610	-	-	-	-	-	-	-	1,610	1,610	-
12	5142067450	Lee Smith Reservoir (HDR00) Upgrades		830	-	-	-	-	-	-	-	830	830	-
15	5142166608	Lynden Water System - Phase 2 Treatment		610	-	-	-	-	-	-	-	610	610	-
12	5142167420	HDR18 Glancaster Reservoir Upgrades		440	-	-	-	-	-	-	-	440	440	-
13	5142167421	HDR11 Woodley Lane Reservoir Upgrades		1,600	-	-	-	-	-	-	-	1,600	1,600	-
City Wide	5142167752	Water Outstation Inspections - Asset Management		500	-	-	-	-	-	-	-	500	500	-
<i>Sub-Total Outstations-Sustainable Asset Mgt (SAM)</i>				<b>15,325</b>	-	-	-	-	-	-	-	<b>15,325</b>	<b>6,525</b>	<b>8,800</b>
<b>Plans/Studies</b>														
City Wide	5142155247	Alterations to the Drinking Water System		150	-	-	-	-	-	-	-	150	150	-
<i>Sub-Total Plans/Studies</i>				<b>150</b>	-	-	-	-	-	-	-	<b>150</b>	<b>150</b>	-
<b>Plant - Sustainable Asset Mgt (SAM)</b>														
4	5141567575	High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)		2,470	-	-	-	-	-	-	-	2,470	370	2,100
City Wide	5142066310	WTP Pre-Treatment Isolation Valves		1,650	-	-	-	-	-	-	-	1,650	1,650	-
4	5142166110	Water Treatment Plant - Process Upgrades Phase 2 (CASH FLOWED)		1,378	-	-	671	-	-	-	-	707	707	-
<i>Sub-Total Plant - Sustainable Asset Mgt (SAM)</i>				<b>5,498</b>	-	-	<b>671</b>	-	-	-	-	<b>4,827</b>	<b>2,727</b>	<b>2,100</b>
<b>Plant - Water Quality Initiatives (WQI)</b>														
City Wide	5142169075	City Environmental Lab Improvements Program		275	-	-	-	-	-	275	-	-	-	-
<i>Sub-Total Plant - Water Quality Initiatives (WQI)</i>				<b>275</b>	-	-	-	-	-	<b>275</b>	-	-	-	-
<b>Pumping Station</b>														
10	5142167840	PD9 & PD10 East Stoney Creek Booster Pumping Station		720	-	-	-	-	-	-	-	720	720	-
<i>Sub-Total Pumping Station</i>				<b>720</b>	-	-	-	-	-	-	-	<b>720</b>	<b>720</b>	-
<b>Rehabilitation Project</b>														
City Wide	5142157626	Critical Watermain Inspection Program		600	-	-	-	-	-	-	-	600	600	-
City Wide	5142157627	Pipeline 38/28 Trunkmain Inspection		500	-	-	-	-	-	-	-	500	500	-
1, 2	5142160073	Structural Watermain Lining - Charlton Ave 750mm		150	-	-	-	-	-	-	-	150	150	-
City Wide	5142160074	Watermain CIPP Urgent and Sensitive Crossings		800	-	-	-	-	-	-	-	800	800	-
City Wide	5142160750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program		3,000	-	-	-	-	-	-	-	3,000	3,000	-
City Wide	5142161502	Water Meter - Installation/Replacement/Repair - General Maintenance		3,400	-	-	-	640	-	550	-	2,210	2,210	-
<i>Sub-Total Rehabilitation Project</i>				<b>8,450</b>	-	-	-	<b>640</b>	-	<b>550</b>	-	<b>7,260</b>	<b>7,260</b>	-
<b>Replacement Project</b>														
City Wide	5142160080	Valve Replacement Program		1,200	-	-	-	-	-	-	-	1,200	1,200	-
7	5142161301	Edwina - Lawson to Berko & Berko - Edwina to Lawfield		330	-	-	-	-	-	-	-	330	330	-
3	5142161304	Robert - Victoria to Emerald		430	-	-	-	-	-	-	-	430	430	-



City of Hamilton  
Water System  
2021 Capital Budget Project List  
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources		
													From Operating	Debt	
3	5142161305	Fraser - Edinburgh to Campbell		160	-	-	-	-	-	-	-	160	160	-	
3	5142161306	Afton - Cedar to Balsam		160	-	-	-	-	-	-	-	160	160	-	
2	5142161307	Mulberry - Bay to James		990	-	-	-	-	-	70	-	920	920	-	
City Wide	5142171074	Contingency for Unscheduled Works Program		180	-	-	-	-	-	-	-	180	180	-	
<i>Sub-Total Replacement Project</i>				<b>3,450</b>	-	-	-	-	-	<b>70</b>	-	<b>3,380</b>	<b>3,380</b>	-	
<b>Restorations</b>															
City Wide	5142111101	Road Cut Restoration Program		5,400	-	-	-	-	-	2,110	-	3,290	3,290	-	
<i>Sub-Total Restorations</i>				<b>5,400</b>	-	-	-	-	-	<b>2,110</b>	-	<b>3,290</b>	<b>3,290</b>	-	
<b>Technical Services Projects</b>															
City Wide	4031957944	PW Asset Management (PW-AM) System Implementation - CASH FLOW		1,420	-	-	-	-	-	-	-	1,420	1,420	-	
City Wide	4032055588	O.Reg. 588/17 Compliance - Asset Management Plan Development		50	-	-	-	-	-	-	-	50	50	-	
City Wide	4032155522	State of the Infrastructure - Asset Management		50	-	-	-	-	-	-	-	50	50	-	
City Wide	5141555555	Ctiy Wide Groundwater Model		450	-	-	-	-	-	-	-	450	450	-	
City Wide	5142149555	QA-QC Service Contract Program		150	-	-	-	-	-	-	-	150	150	-	
City Wide	5142155022	Engineering Consultant Watermain Projects		300	-	-	-	-	-	-	-	300	300	-	
4, 5	5142155122	Woodward-Greenhill Transmission Main Inspection		800	-	-	-	-	-	-	-	800	800	-	
City Wide	5142155556	Mapping Update Program		40	-	-	-	-	-	-	-	40	40	-	
City Wide	5142157545	Water - Computer Model		170	-	-	-	-	-	-	-	170	170	-	
City Wide	5142160577	Metallic Watermain Condition Assessment Program		630	-	-	-	-	-	-	-	630	630	-	
<i>Sub-Total Technical Services Projects</i>				<b>4,060</b>	-	-	-	-	-	-	-	<b>4,060</b>	<b>4,060</b>	-	
<b>Upgrade Projects</b>															
2	5142161302	Jackson - Catherine to Walnut		210	-	-	-	-	-	-	-	210	210	-	
City Wide	5142162073	Field Data Systems Program		110	-	-	-	-	-	-	-	110	110	-	
City Wide	5142162078	Substandard Water Service Replacement Program		2,750	-	-	-	-	-	-	-	2,750	2,750	-	
<i>Sub-Total Upgrade Projects</i>				<b>3,070</b>	-	-	-	-	-	-	-	<b>3,070</b>	<b>3,070</b>	-	
<b>Vehicles-New</b>															
City Wide	5142151110	Fleet Additions		1,760	-	-	-	-	-	600	-	1,160	1,160	-	
<i>Sub-Total Vehicles-New</i>				<b>1,760</b>	-	-	-	-	-	<b>600</b>	-	<b>1,160</b>	<b>1,160</b>	-	
<b>Water Quality Initiatives (WQI)</b>															
City Wide	5162168777	Chedoke Creek Water Quality Improvements		1,050	-	-	-	-	-	-	-	1,050	1,050	-	
<i>Sub-Total Water Quality Initiatives (WQI)</i>				<b>1,050</b>	-	-	-	-	-	-	-	<b>1,050</b>	<b>1,050</b>	-	
<b>Watermain Lining</b>															
City Wide	5142160072	Watermain Structural Lining		7,700	-	-	-	-	-	2,770	-	4,930	30	4,900	
<i>Sub-Total Watermain Lining</i>				<b>7,700</b>	-	-	-	-	-	<b>2,770</b>	-	<b>4,930</b>	<b>30</b>	<b>4,900</b>	
<b>Total All Projects</b>				<b>103,408</b>	-	<b>1,681</b>	<b>24,914</b>	<b>640</b>	-	<b>6,375</b>	-	<b>69,798</b>	<b>50,498</b>	<b>19,300</b>	

\*DC Debt

**CITY OF HAMILTON  
 WATER SYSTEM  
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Rehabilitation, Replacement, &amp; Upgrade Programs (SAM)</b>																
City Wide	4031957944	PW Asset Management (PW-AM) System Implementation	1,750	0	1,420	1,420	1,520	1,520	1,760	1,760	300	300	6,750	5,000	2019	2024
City Wide	4032055588	O.Reg. 588/17 Compliance - Asset Management Plan Development	75	0	50	50	50	50	50	50	0	0	225	150	2020	2023
City Wide	4032114405	Contaminated Soil & Rock Disposal Program	0	0	250	250	0	0	0	0	750	750	1,000	1,000	2021	Ongoing
City Wide	4032155522	State of the Infrastructure - Asset Management	0	0	50	50	90	90	90	90	630	630	860	860	2021	Ongoing
City Wide	4032158001	Consultation and Accommodation	0	0	30	30	30	30	30	30	210	210	300	300	2021	Ongoing
City Wide	5141555555	Ctiy Wide Groundwater Model	470	80	450	450	0	0	0	0	0	0	920	530	2015	2021
4	5141641226	Centralized Water and Wastewater Operations Centre (CASH FLOWED)	1,250	2,250	0	0	0	0	2,500	2,500	5,000	5,000	8,750	9,750	2016	2024
City Wide	5142066350	WTP Chlorine Chemical Building	2,250	0	0	0	6,430	6,430	6,430	6,430	0	0	15,110	12,860	2020	2022
City Wide	5142071940	Unspecified Water Works	0	0	0	0	0	0	0	0	0	0	0	0	2020	2024
City Wide	5142101099	Engineering Services Staffing Costs - Water	0	0	4,700	4,700	4,700	4,700	4,700	4,700	32,900	32,900	47,000	47,000	2021	Ongoing
City Wide	5142111101	Road Cut Restoration Program	0	0	5,400	3,290	5,400	5,400	5,400	5,400	37,800	37,800	54,000	51,890	2021	Ongoing
City Wide	5142149555	QA-QC Service Contract Program	0	0	150	150	150	150	150	150	1,050	1,050	1,500	1,500	2021	Ongoing
City Wide	5142151110	Fleet Additions	0	0	1,760	1,160	390	390	460	460	720	720	3,330	2,730	2021	Ongoing
City Wide	5142155022	Engineering Consultant Watermain Projects	0	0	300	300	300	300	300	300	2,100	2,100	3,000	3,000	2021	Ongoing
4, 5	5142155122	Woodward-Greenhill Transmission Main Inspection	0	0	800	800	0	0	0	0	0	0	800	800	2021	2021
City Wide	5142155556	Mapping Update Program	0	0	40	40	40	40	40	40	280	280	400	400	2019	Ongoing
City Wide	5142155851	Water Efficiency Plan/Program	0	0	0	0	115	115	117	117	902	902	1,134	1,134	2021	Ongoing
City Wide	5142157545	Water - Computer Model	0	0	170	170	280	280	280	280	1,960	1,960	2,690	2,690	2021	Ongoing
City Wide	5142157626	Critical Watermain Inspection Program	0	0	600	600	600	600	600	600	4,200	4,200	6,000	6,000	2021	Ongoing
City Wide	5142157627	Pipeline 38/28 Trunkmain Inspection	0	0	500	500	0	0	0	0	0	0	500	500	2021	2021
1, 2	5142160073	Structural Watermain Lining - Charlton Ave 750mm	0	0	150	150	2,200	2,200	0	0	0	0	2,350	2,350	2021	2022
City Wide	5142160074	Watermain CIPP Urgent and Sensitive Crossings	0	0	800	800	0	0	0	0	0	0	800	800	2021	2021

**CITY OF HAMILTON  
WATER SYSTEM  
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Rehabilitation, Replacement, &amp; Upgrade Programs (SAM)</b>																
City Wide	5142160080	Valve Replacement Program	0	0	1,200	1,200	1,200	1,200	1,200	1,200	8,400	8,400	12,000	12,000	2021	Ongoing
City Wide	5142160577	Metallic Watermain Condition Assessment Program	0	0	630	630	630	630	630	630	4,410	4,410	6,300	6,300	2021	Ongoing
City Wide	5142160711	PW Capital Water Consumption Program	0	0	250	250	250	250	250	250	1,750	1,750	2,500	2,500	2021	Ongoing
City Wide	5142160750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	0	0	3,000	3,000	2,500	2,500	2,500	2,500	14,000	14,000	22,000	22,000	2021	Ongoing
City Wide	5142161300	Stand-Alone Watermain Replacement	0	0	0	0	0	0	0	0	3,500	3,500	3,500	3,500	2024	Ongoing
7	5142161301	Edwina - Lawson to Berko & Berko - Edwina to Lawfield	0	0	330	330	0	0	0	0	0	0	330	330	2021	2021
2	5142161302	Jackson - Catherine to Walnut	0	0	210	210	0	0	0	0	0	0	210	210	2021	2021
3	5142161304	Robert - Victoria to Emerald	0	0	430	430	0	0	0	0	0	0	430	430	2021	2021
3	5142161305	Fraser - Edinburgh to Campbell	0	0	160	160	0	0	0	0	0	0	160	160	2021	2021
3	5142161306	Afton - Cedar to Balsam	0	0	160	160	0	0	0	0	0	0	160	160	2021	2021
2	5142161307	Mulberry - Bay to James	0	0	990	920	0	0	0	0	0	0	990	920	2021	2021
City Wide	5142161502	Water Meter - Installation/Replacement/Repair - General Maintenance	0	0	3,400	2,210	4,270	3,630	4,360	3,720	26,860	22,380	38,890	31,940	2021	Ongoing
City Wide	5142162073	Field Data Systems Program	0	0	110	110	110	110	110	110	770	770	1,100	1,100	2021	Ongoing
City Wide	5142162078	Substandard Water Service Replacement Program	0	0	2,750	2,750	2,750	2,750	2,750	2,750	14,000	14,000	22,250	22,250	2021	Ongoing
City Wide	5142171074	Contingency for Unscheduled Works Program	0	0	180	180	0	0	180	180	540	540	900	900	2021	Ongoing
City Wide	5142257000	Vertical Asset Management Program	0	0	280	280	280	280	0	0	0	0	560	560	2022	2022
1	5142461301	Amelia - Queen to West End	0	0	0	0	0	0	0	0	540	540	540	540	2024	2024
1	5142461302	Bold - Queen to Locke	0	0	0	0	0	0	0	0	700	700	700	700	2024	2024
7	5142461304	Dallas - Upper Gage to West End	0	0	0	0	0	0	0	0	600	600	600	600	2024	2024
2	5142461305	James and Charlton Intersection	0	0	0	0	0	0	0	0	900	900	900	900	2024	2024
3	5142461306	Myler - Sanford to Milton/Milton - Barton to Princess	0	0	0	0	0	0	0	0	450	450	450	450	2024	2024
3	5142561301	Edward - Barnesdale to Lottridge	0	0	0	0	0	0	0	0	340	340	340	340	2025	2025

**CITY OF HAMILTON**  
**WATER SYSTEM**  
**2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Rehabilitation, Replacement, &amp; Upgrade Programs (SAM)</b>																
2	5142561302	Hess - Markland to Aberdeen	0	0	0	0	0	0	0	0	430	430	430	430	2025	2025
15	5142561303	Dundas - Dennis to 250 w/o Clappison	0	0	0	0	0	0	0	0	1,650	1,650	1,650	1,650	2025	2026
2	5142561304	John - Cannon to Barton	0	0	0	0	0	0	0	0	760	760	760	760	2025	2025
2	5142661301	Robinson - Hess to Park	0	0	0	0	0	0	0	0	950	950	950	950	2026	2026
3	5142761301	Clinton\Case\Ruth\Barnesdale	0	0	0	0	0	0	0	0	1,740	1,740	1,740	1,740	2027	2027
4	5142761302	Edgemont - Main to King	0	0	0	0	0	0	0	0	660	660	660	660	2027	2028
2	5142861303	Caroline - Herkimer to Robinson	0	0	0	0	0	0	0	0	400	400	400	400	2028	2028
			<b>5,795</b>	<b>2,330</b>	<b>31,700</b>	<b>27,730</b>	<b>34,285</b>	<b>33,645</b>	<b>34,887</b>	<b>34,247</b>	<b>173,152</b>	<b>168,672</b>	<b>279,819</b>	<b>266,624</b>		
<b>Projects Coordinated with Roads Program</b>																
2	5141970012	Sheaffe / Park / Mulberry (Central Neighbourhood (North)) - Coordinated Road Restoration	910	910	200	200	0	0	0	0	0	0	1,110	1,110	2019	2021
2	5141971312	Sheaffe / Park / Mulberry (Central Neighbourhood (North))	1,050	0	1,240	1,240	0	0	0	0	0	0	2,290	1,240	2019	2021
4	5142071315	Delena / Beland / Dunsmore	150	0	1,140	1,140	0	0	0	0	0	0	1,290	1,140	2020	2021
City Wide	5142170000	Coordinated Road and Subsurface Works	0	0	0	0	0	0	0	0	8,940	8,940	8,940	8,940	2021	Ongoing
2	5142170004	Strachan - James to east end - Coordinated Road Restoration	0	0	430	430	0	0	0	0	0	0	430	430	2021	2021
13	5142170011	Highway 8 - Bond to Woodleys Lane - Coordinated Road Restoration	0	0	830	830	0	0	0	0	0	0	830	830	2021	2021
4	5142170015	Delena / Beland / Dunsmore - Coordinated Road Restoration	0	0	930	930	0	0	0	0	0	0	930	930	2021	2021
3	5142170022	Barton - Sherman to Ottawa - Coordinated Road Restoration	0	0	0	0	2,200	2,200	0	0	0	0	2,200	2,200	2021	2021
City Wide	5142171301	Watermain Replacement Coordinated with Roads	0	0	0	0	0	0	0	0	14,730	14,730	14,730	14,730	2021	Ongoing
1	5142171303	Marion - Longwood to Dromore	0	0	50	50	380	380	0	0	0	0	430	430	2021	2022
2	5142171304	Strachan - James to east end	0	0	600	600	0	0	0	0	0	0	600	600	2021	2021
8	5142171309	Inverness Court & Arcade Crescent (within Southam Neighbourhood)	0	0	150	150	0	0	0	0	0	0	150	150	2021	2021
4	5142171310	Barton - Parkdale to Talbot	0	0	1,080	1,080	0	0	0	0	0	0	1,080	1,080	2021	2021

**CITY OF HAMILTON**  
**WATER SYSTEM**  
**2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Projects Coordinated with Roads Program</b>																
13	5142171311	Highway 8 - Bond to Woodleys Lane	0	0	800	800	0	0	0	0	0	0	800	800	2021	2021
1	5142270003	Marion - Longwood to Dromore - Coordinated Road Restoration	0	0	0	0	480	480	0	0	0	0	480	480	2022	2022
13	5142270005	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD) - Coord Rd Restoration	0	0	0	0	910	910	0	0	0	0	910	910	2020	2022
5	5142270006	Kelvin - Old Orchard to south end - Coordinated Road Restoration	0	0	0	0	100	100	0	0	0	0	100	100	2022	2022
6	5142270008	Concession / Mountain Brow - Upper Gage to Oakcrest - Coordinated Road Restoration	0	0	0	0	1,800	1,800	0	0	0	0	1,800	1,800	2022	2022
4	5142270012	Strathearne - Main to Britannia - Coordinated Road Restoration	0	0	0	0	600	600	0	0	0	0	600	600	2022	2022
13	5142271305	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	0	0	0	0	1,000	1,000	0	0	0	0	1,000	1,000	2020	2022
5	5142271306	Kelvin - Old Orchard to south end	0	0	0	0	100	100	0	0	0	0	100	100	2022	2022
6	5142271308	Concession / Mountain Brow - Upper Gage to Oakcrest	0	0	0	0	2,200	2,200	0	0	0	0	2,200	2,200	2022	2022
4	5142271312	Strathearne - Main to Britannia	0	0	0	0	900	900	0	0	0	0	900	900	2022	2022
7	5142271318	Eastmount Neighbourhood - Water	0	0	0	0	160	160	0	0	0	0	160	160	2022	2022
3	5142271322	Barton - Sherman to Ottawa	0	0	0	0	5,500	5,500	0	0	0	0	5,500	5,500	2022	2022
13	5142370004	Hatt & Bond - King to Market - Coordinated Road Restoration	0	0	0	0	0	0	920	920	0	0	920	920	2023	2023
4	5142370005	Barton - Ottawa to Kenilworth - Coordinated Road Restoration	0	0	0	0	0	0	600	600	0	0	600	600	2023	2023
14	5142370008	Scenic - Chateau Crt to Upper Paradise - Coordinated Road Restoration	0	0	0	0	0	0	1,950	1,950	0	0	1,950	1,950	2023	2023
10	5142370013	Pinelands / Teal / Garden / Community / Greensfield - Coordinated Road Restoration	0	0	0	0	0	0	1,160	1,160	0	0	1,160	1,160	2023	2023
4	5142370015	Strathearne - Brampton to gate at north end - Coordinated Road Restoration	0	0	0	0	0	0	1,350	1,350	0	0	1,350	1,350	2023	2023
13	5142371304	Hatt & Bond - King to Market	0	0	0	0	0	0	800	800	0	0	800	800	2023	2023

**CITY OF HAMILTON  
WATER SYSTEM  
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Projects Coordinated with Roads Program</b>																
4	5142371305	Barton - Ottawa to Kenilworth	0	0	0	0	0	0	4,040	4,040	0	0	4,040	4,040	2023	2023
2	5142371307	Duke - Hess to west end & Robinson - Queen to west end	0	0	0	0	0	0	50	50	300	300	350	350	2023	2024
14	5142371308	Scenic - Chateau Crt to Upper Paradise	0	0	0	0	0	0	1,650	1,650	0	0	1,650	1,650	2023	2023
10	5142371313	Pinelands / Teal / Garden / Community / Greensfield	0	0	0	0	0	0	1,790	1,790	0	0	1,790	1,790	2023	2023
4	5142371315	Strathearne - Brampton to gate at north end	0	0	0	0	0	0	800	800	0	0	800	800	2023	2023
3	5142470002	Burlington & Industrial - Birch to Gage - Coordinated Road Restoration	0	0	0	0	0	0	0	0	2,000	2,000	2,000	2,000	2024	2024
2	5142470004	Ferguson/Foster/Walnut/Patrick - Coordinated Road Restoration	0	0	0	0	0	0	0	0	150	150	150	150	2024	2024
8	5142470005	Upper James - Mohawk to Fennell - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,650	1,650	1,650	1,650	2024	2024
2	5142470007	Duke - Hess to west end & Robinson - Queen to west end - Coordinated Road Restoration	0	0	0	0	0	0	0	0	230	230	230	230	2023	2024
13	5142470008	Hatt - Market to east end & York / Kerr - Coordinated Road Restoration	0	0	0	0	0	0	0	0	960	960	960	960	2024	2024
1	5142470013	Westdale North Neighbourhood Phase 1 - Coordinated Road Restoration	0	0	0	0	0	0	0	0	3,780	3,780	3,780	3,780	2024	2024
8	5142470024	Fennell - Upper James to Upper Wellington - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,100	1,100	1,100	1,100	2024	2024
3	5142471302	Burlington & Industrial - Birch to Gage	0	0	0	0	0	0	0	0	2,760	2,760	2,760	2,760	2024	2024
2	5142471304	Ferguson/Foster/Walnut/Patrick	200	0	0	0	0	0	0	0	1,710	1,710	1,910	1,710	2024	2024
8	5142471305	Upper James - Mohawk to Fennell	0	0	0	0	0	0	0	0	3,010	3,010	3,010	3,010	2024	2024
13	5142471308	Hatt - Market to east end & York / Kerr	0	0	0	0	0	0	0	0	1,000	1,000	1,000	1,000	2024	2024
1	5142471313	Westdale North Neighbourhood Phase 1	0	0	0	0	0	0	0	0	2,000	2,000	2,000	2,000	2024	2024
8	5142471324	Fennell - Upper James to Upper Wellington	0	0	0	0	0	0	0	0	640	640	640	640	2024	2024
15	5142472304	Bridge 451 - Hwy 5 E, 120m e/o Mill St S	0	0	0	0	0	0	0	0	140	140	140	140	2024	2024

**CITY OF HAMILTON  
 WATER SYSTEM  
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Projects Coordinated with Roads Program</b>																
3	5142570002	Wentworth - Barton to Burlington - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,250	1,250	1,250	1,250	2025	2025
12, 14	5142570007	Rymal - Glanaster to Upper Paradise - Coordinated Road Restoration	0	0	0	0	0	0	0	0	900	900	900	900	2025	2025
12	5142570008	Southcote - Hwy 403 bridge to Oldoakes /Dorval - Coordinated Road Restoration	0	0	0	0	0	0	0	0	210	210	210	210	2023	2025
3	5142570009	Wilson - Wentworth to Sherman - Coordinated Road Restoration	0	0	0	0	0	0	0	0	920	920	920	920	2025	2025
1	5142570012	Aberdeen - Queen to Studholme - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,770	1,770	1,770	1,770	2025	2026
2, 3	5142570013	Barton St BIA - Wentworth to Sherman - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,100	1,100	1,100	1,100	2025	2025
4	5142570014	Brampton - Parkdale to Woodward & Brighton - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,270	1,270	1,270	1,270	2025	2025
3	5142571309	Wilson - Wentworth to Sherman	0	0	0	0	0	0	0	0	810	810	810	810	2025	2025
1	5142571312	Aberdeen - Queen to Studholme	0	0	0	0	0	0	0	0	3,050	3,050	3,050	3,050	2025	2026
2, 3	5142571313	Barton St BIA - Wentworth to Sherman	0	0	0	0	0	0	0	0	2,700	2,700	2,700	2,700	2025	2025
4	5142571314	Brampton - Parkdale to Woodward & Brighton	0	0	0	0	0	0	0	0	800	800	800	800	2025	2025
1	5142670005	Dundurn - CPR bridge (s/o Main St) to King - Coordinated Road Restoration	0	0	0	0	0	0	0	0	560	560	560	560	2026	2026
2, 3	5142670007	Barton St BIA - Ferguson to Wentworth - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,400	1,400	1,400	1,400	2026	2026
3	5142670010	Oak/Emerald/East Ave - Cannon to Barton - Cannon to Barton - Coordinated Road Restoration	0	0	0	0	0	0	0	0	840	840	840	840	2026	2026
13	5142670012	Cairns / East St N / Spencer / (Hunter NBHD) - Coordinated Road Restoration	0	0	0	0	0	0	0	0	510	510	510	510	2026	2026
1	5142671305	Dundurn - CPR bridge (s/o Main St) to King	0	0	0	0	0	0	0	0	430	430	430	430	2026	2026
2, 3	5142671307	Barton St BIA - Ferguson to Wentworth	0	0	0	0	0	0	0	0	3,300	3,300	3,300	3,300	2026	2026

**CITY OF HAMILTON  
WATER SYSTEM  
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Projects Coordinated with Roads Program</b>																
3	5142671310	Oak/Emerald/East Ave - Cannon to Barton	0	0	0	0	0	0	0	0	1,480	1,480	1,480	1,480	2026	2026
13	5142671312	Cairns / East St N / Spencer / (Hunter Neighbourhood)	0	0	0	0	0	0	0	0	600	600	600	600	2026	2026
1, 13	5142671324	Osler - South St to West Park	0	0	0	0	0	0	0	0	900	900	900	900	2026	2028
3	5142700020	Sanford - Cannon to Barton - Coordinated Road Restoration	0	0	0	0	0	0	0	0	420	420	420	420	2027	2027
4	5142770003	Burlington & Industrial - Ottawa to Kenilworth - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,590	1,590	1,590	1,590	2027	2027
3	5142770004	Sanford - Main to Cannon - Coordinated Road Restoration	0	0	0	0	0	0	0	0	630	630	630	630	2027	2027
1	5142770011	Carling / Macklin St S / Olmstead / Tope (Westdale South) - Coordinated Road Restoration	0	0	0	0	0	0	0	0	490	490	490	490	2027	2027
2, 3	5142770018	Charlton - James to Walnut - Coordinated Road Restoration	0	0	0	0	0	0	0	0	840	840	840	840	2027	2027
3, 4	5142771303	Burlington & Industrial - Ottawa to Kenilworth	100	0	0	0	0	0	0	0	2,100	2,100	2,200	2,100	2027	2027
3	5142771304	Sanford - Main to Cannon	0	0	0	0	0	0	0	0	1,350	1,350	1,350	1,350	2027	2027
1	5142771311	Carling / Macklin St S / Olmstead / Tope (Westdale South)	0	0	0	0	0	0	0	0	660	660	660	660	2027	2027
3	5142870003	Evans - Wellington to East - Coordinated Road Restoration	0	0	0	0	0	0	0	0	140	140	140	140	2028	2028
3	5142870004	Birge - Emerald to Cheever - Coordinated Road Restoration	0	0	0	0	0	0	0	0	200	200	200	200	2028	2028
1	5142870011	Jones / Oxford / Tecumseh (Strathcona Neighbourhood) - Coordinated Road Restoration	0	0	0	0	0	0	0	0	550	550	550	550	2028	2028
10	5142870017	Green - Carla to Barton - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,450	1,450	1,450	1,450	2028	2028
2, 3	5142870018	Charlton - Walnut to Sherman Access - Coordinated Road Restoration	0	0	0	0	0	0	0	0	920	920	920	920	2028	2028
1, 13	5142870024	Osler - South St to West Park - Coordinated Road Restoration	0	0	0	0	0	0	0	0	450	450	450	450	2028	2028
3	5142871303	Evans - Wellington to East	0	0	0	0	0	0	0	0	280	280	280	280	2028	2028
3	5142871304	Birge - Emerald to Cheever	0	0	0	0	0	0	0	0	240	240	240	240	2028	2028



**CITY OF HAMILTON  
WATER SYSTEM  
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Projects Coordinated with Roads Program</b>																
1	5142871311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	0	0	0	0	0	0	0	0	810	810	810	810	2028	2028
1	5142970003	Florence/Head/Morden/Napier/Nelson/Peel/Wellesley (Strathcona NBHD) - Coordinated Road Restoration	0	0	0	0	0	0	0	0	640	640	640	640	2029	2029
7, 8	5142970010	Upper Wellington - Bryna to Mohawk - Coordinated Road Restoration	0	0	0	0	0	0	0	0	1,100	1,100	1,100	1,100	2029	2029
1	5142971303	Florence/Head/Morden/Napier/Nelson/Peel/Wellesley (Strathcona Neighbourhood)	0	0	0	0	0	0	0	0	720	720	720	720	2029	2029
7, 8	5142971310	Upper Wellington - Bryna to Mohawk	0	0	0	0	0	0	0	0	1,050	1,050	1,050	1,050	2029	2029
2	5143070003	Hughson - Wilson to Barton - Coordinated Road Restoration	0	0	0	0	0	0	0	0	490	490	490	490	2030	2030
3	5143070008	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmure - Coordinated Road Restoration	0	0	0	0	0	0	0	0	780	780	780	780	2030	2030
5	5143070029	Nash – Barton to 350 metres north of Bancroft - Coordinated Road Restoration	0	0	0	0	0	0	0	0	960	960	960	960	2030	2030
2	5143071303	Hughson - Wilson to Barton	0	0	0	0	0	0	0	0	550	550	550	550	2030	2030
3	5143071308	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmure	0	0	0	0	0	0	0	0	950	950	950	950	2030	2030
			<b>2,410</b>	<b>910</b>	<b>7,450</b>	<b>7,450</b>	<b>16,330</b>	<b>16,330</b>	<b>15,110</b>	<b>15,110</b>	<b>90,260</b>	<b>90,260</b>	<b>131,560</b>	<b>130,060</b>		
<b>Plant/Outstations Projects (SAM)</b>																
1	5141567273	Main / Whitney Pumping Station Replacement and Decommissioning	1,930	830	250	250	0	0	2,980	2,980	0	0	5,160	4,060	2015	2019
8	5141567520	Stone Church/Garth Water (HDR05) Reservoir	3,960	0	2,975	2,975	3,125	3,125	2,775	2,775	0	0	12,835	8,875	2015	2023
4	5141567575	High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)	1,430	220	2,470	2,470	2,470	2,470	0	0	0	0	6,370	5,160	2015	2019
12	5141667421	Glancaister Rd & Hwy 53 Pumping Station (HD018) Upgrades (CASH FLOWED)	6,700	4,400	5,900	5,900	2,200	2,200	0	0	0	0	14,800	12,500	2016	2022

**CITY OF HAMILTON  
 WATER SYSTEM  
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Plant/Outstations Projects (SAM)</b>																
14	5141767650	New Greensville Communal Well	1,400	500	170	170	3,650	3,650	3,650	3,650	0	0	8,870	7,970	2017	2021
9	5141867651	HD007 Highland Rd Reservoir Upgrades	260	260	0	0	990	990	0	0	0	0	1,250	1,250	2018	2019
15	5141895852	Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)	440	440	440	440	6,150	6,150	0	0	0	0	7,030	7,030	2018	2022
4, 10	5141967375	HDR01 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades	7,550	0	1,610	1,610	0	0	0	0	0	0	9,160	1,610	2019	2021
City Wide	5142066310	WTP Pre-Treatment Isolation Valves	280	0	1,650	1,650	550	550	0	0	0	0	2,480	2,200	2020	2022
12	5142067450	Lee Smith Reservoir (HDR00) Upgrades	280	0	830	830	0	0	0	0	0	0	1,110	830	2020	2021
4	5142166110	Water Treatment Plant - Process Upgrades Phase 2 (CASH FLOWED)	0	0	1,378	707	1,378	707	2,705	1,387	140,719	72,169	146,180	74,970	2021	2028
15	5142166608	Lynden Water System - Phase 2 Treatment	0	0	610	610	0	0	0	0	0	0	610	610	2021	2022
City Wide	5142166713	Water Maintenance Capital Program	0	0	0	0	2,000	2,000	2,000	2,000	14,000	14,000	18,000	18,000	2021	Ongoing
12	5142167420	HDR18 Glancaster Reservoir Upgrades	0	0	440	440	1,430	1,430	0	0	0	0	1,870	1,870	2021	2021
13	5142167421	HDR11 Woodley Lane Reservoir Upgrades	0	0	1,600	1,600	0	0	0	0	0	0	1,600	1,600	2021	2021
City Wide	5142167751	Water Outstation Upgrades - Asset Management Program	0	0	0	0	0	0	1,500	1,500	105,000	105,000	106,500	106,500	2024	Ongoing
City Wide	5142167752	Water Outstation Inspections - Asset Management	0	0	500	500	900	900	900	900	6,300	6,300	8,600	8,600	2021	Ongoing
			<b>24,230</b>	<b>6,650</b>	<b>20,823</b>	<b>20,152</b>	<b>24,843</b>	<b>24,172</b>	<b>16,510</b>	<b>15,192</b>	<b>266,019</b>	<b>197,469</b>	<b>352,425</b>	<b>263,635</b>		
<b>Plant/Outstations Projects (WQI)</b>																
City Wide	5142169075	City Environmental Lab Improvements Program	0	0	275	0	340	340	190	190	390	390	1,195	920	2021	Ongoing
4	5142666510	GAC Replacement	0	0	0	0	0	0	0	0	6,810	6,810	6,810	6,810	2026	Ongoing
City Wide	5162168777	Chedoke Creek Water Quality Improvements	0	0	1,050	1,050	1,250	1,250	1,050	1,050	1,100	1,100	4,450	4,450	2021	2024
			<b>0</b>	<b>0</b>	<b>1,325</b>	<b>1,050</b>	<b>1,590</b>	<b>1,590</b>	<b>1,240</b>	<b>1,240</b>	<b>8,300</b>	<b>8,300</b>	<b>12,455</b>	<b>12,180</b>		

**Master Plan - Horizontal Assets**

**CITY OF HAMILTON  
 WATER SYSTEM  
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Master Plan - Horizontal Assets</b>																
13, 15	5141796752	PD16 (Waterdown) Trunk Feedermain - PS HD016 to Hwy 5 at Algonquin (W-25) (CASH FLOWED)	2,570	422	430	108	1,100	275	7,270	1,818	0	0	11,370	2,623	2017	2019
11	5141996951	Binbrook Feedermain via Fletcher (W-30)	0	0	3,870	0	2,530	0	0	0	0	0	6,400	0	2019	2020
11	5142096250	Airport Lands External Water Servicing (Feedermain) (W-27)	1,080	0	7,170	0	0	0	0	0	10,340	0	18,590	0	2020	2025
12	5142096520	Garner Road Trunk Watermain - Southcote to Wilson (W-09)	3,390	0	0	0	0	0	13,550	0	0	0	16,940	0	2020	2023
1	5142396850	Locke St Trunk Watermain - York - Locke to Cannon @ Caroline (W-19)	0	0	0	0	0	0	2,530	0	0	0	2,530	0	2023	2023
1	5142496850	Locke St Trunk Watermain - Main to York (W-19)	0	0	0	0	0	0	0	0	2,200	0	2,200	0	2024	2024
6, 9	5142596250	HD07A Feedermain (W-22)	0	0	0	0	0	0	0	0	8,860	0	8,860	0	2025	2026
			<b>7,040</b>	<b>422</b>	<b>11,470</b>	<b>108</b>	<b>3,630</b>	<b>275</b>	<b>23,350</b>	<b>1,818</b>	<b>21,400</b>	<b>0</b>	<b>66,890</b>	<b>2,623</b>		
<b>Master Plan - Vertical Assets</b>																
12	5141395354	PD18 (Ancaster) Water Servicing Strategy (W-14) (CASH FLOWED)	2,610	255	800	400	6,080	3,040	6,080	3,040	0	0	15,570	6,735	2013	2020
11	5141495551	PD7 (Upper Stoney Creek/Glanbrook) Elevated Reservoir (W-23)	2,600	0	0	0	5,500	0	5,500	0	0	0	13,600	0	2014	2020
13	5141595553	PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (W-04)	1,270	0	390	98	2,650	663	3,150	788	0	0	7,460	1,549	2015	2023
13	5141695883	PS HD016 (York and Valley) Capacity Upgrade, Standby Power & Building Expansion (W-26) (CASH FLOWED)	4,490	302	1,400	140	3,950	395	4,150	416	0	0	13,990	1,253	2016	2019
5	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	10,040	2,482	14,080	3,520	14,430	3,607	15,650	3,914	15,650	3,914	69,850	17,437	2017	2020
11	5141995951	PS HD019 (Binbrook) Capacity Upgrade (W-20)	220	0	0	0	1,800	0	0	0	0	0	2,020	0	2019	2020
City Wide	5142155010	Water Systems Planning Program	0	0	0	0	300	300	300	300	1,830	1,830	2,430	2,430	2021	Ongoing

**CITY OF HAMILTON  
 WATER SYSTEM  
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Master Plan - Vertical Assets</b>																
9	5142495251	Highland Reservoir HDR07 (W-11) Expansion (CASH FLOWED)	0	0	0	0	0	0	0	0	12,420	0	12,420	0	2024	2026
City Wide	5142495552	P.S. HD07A - New District 7 (Elfrida area) Pumping Station (W-21)	0	0	0	0	0	0	0	0	20,300	0	20,300	0	2025	2027
City Wide	5142855264	City-Wide Water Master Plan	0	0	0	0	0	0	0	0	250	25	250	25	2028	2028
			<b>21,230</b>	<b>3,039</b>	<b>16,670</b>	<b>4,158</b>	<b>34,710</b>	<b>8,005</b>	<b>34,830</b>	<b>8,458</b>	<b>50,450</b>	<b>5,769</b>	<b>157,890</b>	<b>29,429</b>		
<b>Development/Extension Projects</b>																
15	5142171308	East-West Road Corridor (Waterdown By-Pass)	0	0	1,200	60	0	0	0	0	0	0	1,200	60	2021	2021
12	5142171328	Southcote - Garner to Highway 403 Bridge	0	0	160	80	2,350	1,175	0	0	0	0	2,510	1,255	2021	2022
11	5142171352	Airport Lands - Dickenson Rd - Upper James to Upper centennial PKWY	0	0	1,800	1,800	0	0	0	0	0	0	1,800	1,800	2021	2021
11	5142180183	Binbrook - Royal Winter/Binhaven to Fletcher	0	0	630	0	0	0	0	0	0	0	630	0	2021	2021
City Wide	5142196011	Intensification Infrastructure Upgrades Program - Water	0	0	0	0	0	0	400	200	1,200	600	1,600	800	2021	Ongoing
11	5142380320	RHBP - Twenty Rd Extension - Glover to Trinity Church	0	0	0	0	0	0	565	340	0	0	565	340	2023	2031
11	5142580580	RHBP - Nebo - 900m s/o Twenty to Dickenson	0	0	0	0	0	0	0	0	400	0	400	0	2025	2025
11	5142880884	RHBP - Dickenson - Nebo to 800m e/o Nebo	0	0	0	0	0	0	0	0	900	0	900	0	2028	2028
10	5143080081	South Service Rd - Millen to Dewitt	0	0	0	0	0	0	0	0	2,280	0	2,280	0	2030	2030
10	5143080380	South Service Rd - Fruitland to Jones	0	0	0	0	0	0	0	0	1,280	0	1,280	0	2030	2030
10	5143080388	Lewis - Barton to Hwy 8	0	0	0	0	0	0	0	0	500	0	500	0	2030	2030
			<b>0</b>	<b>0</b>	<b>3,790</b>	<b>1,940</b>	<b>2,350</b>	<b>1,175</b>	<b>965</b>	<b>540</b>	<b>6,560</b>	<b>600</b>	<b>13,665</b>	<b>4,255</b>		
<b>Computer Hardware Purchases</b>																
City Wide	5143066151	SCADA Master Plan	0	0	0	0	0	0	0	0	2,625	2,625	2,625	2,625	2030	2034
			<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>2,625</b>	<b>2,625</b>	<b>2,625</b>	<b>2,625</b>		
<b>Coordinated Projects</b>																

**CITY OF HAMILTON  
 WATER SYSTEM  
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Coordinated Projects</b>																
City Wide	5141855777	Water infrastructure Analysis - Growth and Economic Opportunities	570	220	350	150	0	0	0	0	0	0	920	370	2018	2020
City Wide	5142160501	Watermain Rehabilitation/Replacement Coordinated with Development	0	0	1,000	1,000	1,000	1,000	1,000	1,000	7,000	7,000	10,000	10,000	2021	Ongoing
			<b>570</b>	<b>220</b>	<b>1,350</b>	<b>1,150</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>7,000</b>	<b>7,000</b>	<b>10,920</b>	<b>10,370</b>		
<b>Demolition</b>																
2	5142067420	St. Joseph's Tank Pulsation Dampener (HD002STK)	60	0	110	110	440	440	0	0	0	0	610	550	2020	2022
			<b>60</b>	<b>0</b>	<b>110</b>	<b>110</b>	<b>440</b>	<b>440</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>610</b>	<b>550</b>		
<b>Equipment Replacement</b>																
City Wide	5141966151	SCADA Maintenance Program	0	0	150	150	400	400	275	275	3,300	3,300	4,125	4,125	2019	Ongoing
			<b>0</b>	<b>0</b>	<b>150</b>	<b>150</b>	<b>400</b>	<b>400</b>	<b>275</b>	<b>275</b>	<b>3,300</b>	<b>3,300</b>	<b>4,125</b>	<b>4,125</b>		
<b>Plans/Studies</b>																
City Wide	5142155247	Alterations to the Drinking Water System	0	0	150	150	150	150	150	150	1,050	1,050	1,500	1,500	2021	Ongoing
City Wide	5142155713	Pressure Districts and Drinking Water System Optimization	0	0	0	0	170	170	170	170	1,190	1,190	1,530	1,530	2021	Ongoing
			<b>0</b>	<b>0</b>	<b>150</b>	<b>150</b>	<b>320</b>	<b>320</b>	<b>320</b>	<b>320</b>	<b>2,240</b>	<b>2,240</b>	<b>3,030</b>	<b>3,030</b>		
<b>Pumping Station</b>																
10	5142167840	PD9 & PD10 East Stoney Creek Booster Pumping Station	0	0	720	720	1,430	1,430	0	0	0	0	2,150	2,150	2021	2022
2	5142467422	New PD2 Water Pumping Station (CASH FLOWED)	500	500	0	0	0	0	0	0	12,100	12,100	12,600	12,600	2017	2021
			<b>500</b>	<b>500</b>	<b>720</b>	<b>720</b>	<b>1,430</b>	<b>1,430</b>	<b>0</b>	<b>0</b>	<b>12,100</b>	<b>12,100</b>	<b>14,750</b>	<b>14,750</b>		
<b>Watermain Lining</b>																
City Wide	5142160072	Watermain Structural Lining	0	0	7,700	4,930	6,200	6,200	6,200	6,200	43,400	43,400	63,500	60,730	2021	Ongoing
13	5142260072	WM Structural Lining - Dundas Valley Watermain	0	0	0	0	1,350	1,350	0	0	0	0	1,350	1,350	2022	2022

**CITY OF HAMILTON  
 WATER SYSTEM  
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
			0	0	7,700	4,930	7,550	7,550	6,200	6,200	43,400	43,400	64,850	62,080		
		<b>Total Water System</b>	<b>61,835</b>	<b>14,071</b>	<b>103,408</b>	<b>69,798</b>	<b>128,878</b>	<b>96,332</b>	<b>134,687</b>	<b>84,400</b>	<b>686,806</b>	<b>541,735</b>	<b>1,115,614</b>	<b>806,336</b>		

## Appendix "M" to Report FCS20073 Page 1 of 1

**SOURCE OF CAPITAL FINANCING**  
**2021 to 2030 RATE PROGRAM CAPITAL BUDGET**  
**\$(000'S)**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2021 to 2030
<b>WASTEWATER</b>											
<b>Capital Program</b>	<b>166,628</b>	<b>115,866</b>	<b>69,175</b>	<b>57,795</b>	<b>59,185</b>	<b>153,636</b>	<b>158,860</b>	<b>173,506</b>	<b>61,045</b>	<b>75,030</b>	<b>1,090,725</b>
<b><u>Source of Funding</u></b>											
Subsidy/Other Revenue	22,092	-	-	-	-	-	-	-	-	-	22,092
Development Charges	43,863	30,642	14,802	3,817	4,017	95,025	93,725	93,579	867	667	381,004
Reserves & Other Internal Sources	14,735	11,000	10,500	10,000	-	-	-	-	-	-	46,235
Contribution from Operating	57,238	46,724	42,673	43,978	55,168	58,611	63,935	79,927	60,178	74,363	582,794
External Debt	28,700	27,500	1,200	-	-	-	1,200	-	-	-	58,600
<b>Total</b>	<b>166,628</b>	<b>115,866</b>	<b>69,175</b>	<b>57,795</b>	<b>59,185</b>	<b>153,636</b>	<b>158,860</b>	<b>173,506</b>	<b>61,045</b>	<b>75,030</b>	<b>1,090,725</b>

City of Hamilton  
Wastewater System  
2021 Capital Budget Project List  
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
<b>Annual Projects</b>														
City Wide	4032114405	Contaminated Soil & Rock Disposal Program		250	-	-	-	-	-	-	-	250	250	-
City Wide	4032158001	Consultation and Accommodation		30	-	-	-	-	-	-	-	30	30	-
City Wide	5162101099	Engineering Services Staffing Costs - Wastewater		4,700	-	-	-	-	-	-	-	4,700	4,700	-
City Wide	5162160711	PW Capital Water Consumption Program		250	-	-	-	-	-	-	-	250	250	-
<i>Sub-Total Annual Projects</i>				<b>5,230</b>	-	-	-	-	-	-	-	<b>5,230</b>	<b>5,230</b>	-
<b>Building - New Construction</b>														
City Wide	5161667421	New Haulage Receiving Station		250	-	-	-	-	-	-	-	250	250	-
<i>Sub-Total Building - New Construction</i>				<b>250</b>	-	-	-	-	-	-	-	<b>250</b>	<b>250</b>	-
<b>Computer Software Purchases</b>														
City Wide	5162157545	Wastewater Computer Model Update & Maintenance		150	-	-	-	145	-	-	-	5	5	-
<i>Sub-Total Computer Software Purchases</i>				<b>150</b>	-	-	-	<b>145</b>	-	-	-	<b>5</b>	<b>5</b>	-
<b>Coordinated - Network Extension Projects</b>														
6, 11	5162180584	RHBP - Nebo - Rymal to Twenty	*	750	-	-	750	-	-	-	-	-	-	-
<i>Sub-Total Coordinated - Network Extension Projects</i>				<b>750</b>	-	-	<b>750</b>	-	-	-	-	-	-	-
<b>Coordinated - Replacement Projects</b>														
2	5161971945	Sheaffe / Park / Mulberry (Central Neighbourhood (North))		70	-	-	-	-	-	-	-	70	70	-
10	5162171025	Dewitt - Highway 8 to Barton		660	-	-	-	-	-	-	-	660	660	-
13	5162171311	Highway 8 - Bond to Woodleys Lane		1,650	-	-	-	-	-	-	-	1,650	1,650	-
<i>Sub-Total Coordinated - Replacement Projects</i>				<b>2,380</b>	-	-	-	-	-	-	-	<b>2,380</b>	<b>2,380</b>	-
<b>Coordinated Projects</b>														
City Wide	5161855777	Wastewater infrastructure Analysis - Growth and Economic Opportunities		350	-	200	-	-	-	-	-	150	150	-
<i>Sub-Total Coordinated Projects</i>				<b>350</b>	-	<b>200</b>	-	-	-	-	-	<b>150</b>	<b>150</b>	-
<b>Development Projects</b>														
7	5162180281	Rymal - 150m e/o Massina to 140m easterly		30	-	-	-	-	-	-	-	30	30	-
<i>Sub-Total Development Projects</i>				<b>30</b>	-	-	-	-	-	-	-	<b>30</b>	<b>30</b>	-
<b>Equipment Replacement</b>														
City Wide	5161966151	SCADA Maintenance Program		150	-	-	-	-	-	-	-	150	150	-
<i>Sub-Total Equipment Replacement</i>				<b>150</b>	-	-	-	-	-	-	-	<b>150</b>	<b>150</b>	-
<b>Maintenance Projects</b>														
5, 6	5161968920	Fennell/Greenhill Drop Shaft		350	-	-	-	-	-	-	-	350	350	-
4	5162068851	Pier 25 Dredging - Windermere Basin		280	-	-	-	-	-	-	-	280	280	-
4	5162161142	Eastern Sanitary Interceptor (ESI) at Battlefield Creek Trunk		260	-	-	-	-	-	-	-	260	260	-
<i>Sub-Total Maintenance Projects</i>				<b>890</b>	-	-	-	-	-	-	-	<b>890</b>	<b>890</b>	-
<b>Master Plan - Horizontal Assets</b>														
5, 9	5161695747	Battlefield Trunk Sewer Twinning (WW-33) (CASH FLOWED)	*	10,500	-	-	10,500	-	-	-	-	-	-	-
11	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	*	20,300	-	-	20,300	-	-	-	-	-	-	-
<i>Sub-Total Master Plan - Horizontal Assets</i>				<b>30,800</b>	-	-	<b>30,800</b>	-	-	-	-	-	-	-
<b>Network Extension Projects</b>														
12	5162180187	Garner Road West - Raymond Road to Hwy 6 - CASH FLOW	*	4,000	-	-	4,000	-	-	-	-	-	-	-
<i>Sub-Total Network Extension Projects</i>				<b>4,000</b>	-	-	<b>4,000</b>	-	-	-	-	-	-	-
<b>Outstations-Sustainable Asset Mgt (SAM)</b>														
13	5161267273	Dundas Wastewater Outstations Upgrades		3,470	-	-	-	-	-	-	-	3,470	3,470	-



City of Hamilton  
Wastewater System  
2021 Capital Budget Project List  
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
12, 13, 15	5161667622	FC001, DC009 & HC011 Wastewater Pumping Stations Upgrades		660	-	-	330	-	-	-	-	330	330	-
4	5161767420	Parkdale Avenue HC001 Wastewater Pumping Station Upgrades		250	-	-	-	-	-	-	-	250	250	-
5	5162067065	Eastport Drive SPS (HC017) Upgrades		2,480	-	-	-	-	-	-	-	2,480	2,480	-
15	5162067275	FC001 Elgin Street Sewage Pumping Station		1,700	-	-	-	-	-	-	-	1,700	1,700	-
12	5162067425	Hillside SPS (DC006) Upgrades		1,100	-	-	-	-	-	-	-	1,100	1,100	-
13	5162167420	DC007 McMaster Sewage Pumping Station Upgrades		770	-	-	-	-	-	-	-	770	770	-
City Wide	5162167752	Wastewater Outstation Inspections - Asset Management Program		200	-	-	-	-	-	-	-	200	200	-
<i>Sub-Total Outstations-Sustainable Asset Mgt (SAM)</i>				<b>10,630</b>	-	-	<b>330</b>	-	-	-	-	<b>10,300</b>	<b>10,300</b>	-
<b>Plant - Sustainable Asset Mgt (SAM)</b>														
13	5161266213	Dundas WWTP Improvements (CASH FLOWED)		1,650	-	-	-	-	-	-	-	1,650	1,650	-
City Wide	5161966102	Woodward WWTP - Expansion (CASH FLOWED)	*	1,750	-	-	1,750	-	-	-	-	-	-	-
City Wide	5161966511	Woodward WWTP - Digesters 3 & 5 (CASH FLOWED)		5,750	-	-	-	-	-	-	-	5,750	5,750	-
City Wide	5162067420	Main & King CSO Rehabilitation		1,000	-	-	-	-	-	-	-	1,000	1,000	-
City Wide	5162166713	Wastewater Maintenance Capital Program		1,500	-	-	-	-	-	-	-	1,500	1,500	-
<i>Sub-Total Plant - Sustainable Asset Mgt (SAM)</i>				<b>11,650</b>	-	-	<b>1,750</b>	-	-	-	-	<b>9,900</b>	<b>9,900</b>	-
<b>Plant - Wastewater Investment Needs (WINS)</b>														
City Wide	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	*	69,363	21,892	-	5,480	12,220	-	-	-	29,771	1,071	28,700
City Wide	5160966910	Woodward WWTP - Biosolids Management Facility	*	2,770	-	-	527	-	-	-	-	2,243	2,243	-
City Wide	5162169075	City Environmental Lab Improvements Program		410	-	-	-	-	-	410	-	-	-	-
City Wide	5162169076	City Environmental Lab - HVAC		120	-	-	-	-	-	120	-	-	-	-
<i>Sub-Total Plant - Wastewater Investment Needs (WINS)</i>				<b>72,663</b>	<b>21,892</b>	-	<b>6,007</b>	<b>12,220</b>	-	<b>530</b>	-	<b>32,014</b>	<b>3,314</b>	<b>28,700</b>
<b>Rehabilitation Project</b>														
8	5162061006	Inverness Ave E - Combined Major Trunk Rehabilitation		770	-	-	-	-	-	-	-	770	770	-
City Wide	5162160302	Emergency Repairs - Cross Connections Program		500	-	-	-	-	-	500	-	-	-	-
City Wide	5162160390	Wastewater System Lining Program		4,050	-	-	-	-	-	960	-	3,090	3,090	-
11	5162160391	AEGD Upper James Force Main Downstream Lining		3,500	-	-	-	-	-	-	-	3,500	3,500	-
City Wide	5162160522	Sewer Lateral Management Program (WWC)		4,250	-	-	-	-	-	-	-	4,250	4,250	-
City Wide	5162160533	Trenchless Manhole Rehabilitation		70	-	-	-	-	-	-	-	70	70	-
City Wide	5162160574	Capital Programming Sewer Inspection & Assessment		500	-	-	-	-	-	-	-	500	500	-
City Wide	5162160575	Mainline Sewer Condition Assessment Program		1,140	-	-	-	-	-	-	-	1,140	1,140	-
City Wide	5162160576	Sewer Lateral Condition Assessment Program		540	-	-	-	-	-	-	-	540	540	-
City Wide	5162160577	Mainline Sewer Condition Assessment for Compliance & Regulations		100	-	-	-	-	-	-	-	100	100	-
<i>Sub-Total Rehabilitation Project</i>				<b>15,420</b>	-	-	-	-	-	<b>1,460</b>	-	<b>13,960</b>	<b>13,960</b>	-
<b>Repairs</b>														
City Wide	5162160820	Open Cut Repairs for CIPP Program		500	-	-	-	-	-	-	-	500	500	-
<i>Sub-Total Repairs</i>				<b>500</b>	-	-	-	-	-	-	-	<b>500</b>	<b>500</b>	-
<b>Replacement Project</b>														
City Wide	5162161444	Sewer Lateral Replace/Rehab Program		3,600	-	-	-	-	-	-	-	3,600	3,600	-
City Wide	5162161740	Unscheduled Manhole and Sewermain Replacement Program		610	-	-	-	-	-	110	-	500	500	-
City Wide	5162171015	Sewer Lateral Replacement for Co-ordinated Projects		270	-	-	-	-	-	-	-	270	270	-
<i>Sub-Total Replacement Project</i>				<b>4,480</b>	-	-	-	-	-	<b>110</b>	-	<b>4,370</b>	<b>4,370</b>	-
<b>Restorations</b>														
City Wide	5162111101	Road Cut Restoration Program		1,800	-	-	-	-	-	-	-	1,800	1,800	-
<i>Sub-Total Restorations</i>				<b>1,800</b>	-	-	-	-	-	-	-	<b>1,800</b>	<b>1,800</b>	-

City of Hamilton  
Wastewater System  
2021 Capital Budget Project List  
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
<b>Technical Services Projects</b>														
City Wide	403205588	O.Reg. 588/17 Compliance - Asset Management Plan Development		50	-	-	-	-	-	-	-	50	50	-
City Wide	403215522	State of the Infrastructure - Asset Management		50	-	-	-	-	-	-	-	50	50	-
City Wide	516214955	QA-QC Service Contract Program		150	-	-	-	-	-	-	-	150	150	-
City Wide	516215502	Engineering Consultant Sewermain Projects		300	-	-	-	-	-	-	-	300	300	-
City Wide	516215556	Mapping Update Program		40	-	-	-	-	-	-	-	40	40	-
City Wide	516215587	Forcemain Condition Assessment Program		270	-	-	-	-	-	270	-	-	-	-
City Wide	516215588	Inflow & Infiltration Studies and Flow Monitoring Program	*	450	-	-	226	-	-	-	-	224	224	-
<i>Sub-Total Technical Services Projects</i>				<b>1,310</b>	-	-	<b>226</b>	-	-	<b>270</b>	-	<b>814</b>	<b>814</b>	-
<b>Upgrade Projects</b>														
6, 7	516165531	Lawfield / Berrisfield Neighbourhoods		170	-	-	-	-	-	-	-	170	170	-
City Wide	5162162073	Field Data Systems Program		110	-	-	-	-	-	-	-	110	110	-
City Wide	5162167501	Odour Control Program & Media Replacement		500	-	-	-	-	-	-	-	500	500	-
<i>Sub-Total Upgrade Projects</i>				<b>780</b>	-	-	-	-	-	-	-	<b>780</b>	<b>780</b>	-
<b>Wastewater Investment Needs Strategy (WINS)</b>														
15	5162167275	DC014 First Street (Waterdown) SPS New Swab Launch Chamber		1,540	-	-	-	-	-	-	-	1,540	1,540	-
<i>Sub-Total Wastewater Investment Needs Strategy (WINS)</i>				<b>1,540</b>	-	-	-	-	-	-	-	<b>1,540</b>	<b>1,540</b>	-
<b>Water Quality Initiatives (WQI)</b>														
City Wide	5161468422	Randle Reef Sediment Remediation (CASH FLOWED)		375	-	-	-	-	-	-	-	375	375	-
<i>Sub-Total Water Quality Initiatives (WQI)</i>				<b>375</b>	-	-	-	-	-	-	-	<b>375</b>	<b>375</b>	-
<b>Waterfront Initiatives</b>														
City Wide	5162055800	Sewer Outfall Monitoring Study		500	-	-	-	-	-	-	-	500	500	-
<i>Sub-Total Waterfront Initiatives</i>				<b>500</b>	-	-	-	-	-	-	-	<b>500</b>	<b>500</b>	-
<b>Total All Projects</b>				<b>166,628</b>	<b>21,892</b>	<b>200</b>	<b>43,863</b>	<b>12,365</b>	-	<b>2,370</b>	-	<b>85,938</b>	<b>57,238</b>	<b>28,700</b>

\*DC Debt

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Rehabilitation, Replacement, &amp; Upgrade Programs (SAM)</b>																
City Wide	4032055588	O.Reg. 588/17 Compliance - Asset Management Plan Development	75	0	50	50	50	50	50	50	0	0	225	150	2020	2023
City Wide	4032114405	Contaminated Soil & Rock Disposal Program	0	0	250	250	0	0	0	0	750	750	1,000	1,000	2021	Ongoing
City Wide	4032155522	State of the Infrastructure - Asset Management	0	0	50	50	90	90	90	90	630	630	860	860	2021	Ongoing
City Wide	4032158001	Consultation and Accommodation	0	0	30	30	30	30	30	30	210	210	300	300	2021	Ongoing
4	5161641226	Centralized Water and Wastewater Operations Centre (CASH FLOWED)	1,250	2,250	0	0	0	0	2,500	2,500	5,000	5,000	8,750	9,750	2016	2024
6, 7	5161655351	Lawfield / Berrisfield Neighbourhoods	185	110	170	170	0	0	0	0	0	0	355	280	2016	2021
City Wide	5161667421	New Haulage Receiving Station	2,240	0	250	250	4,250	4,250	4,250	4,250	0	0	10,990	8,750	2016	2023
8	5162061006	Inverness Ave E - Combined Major Trunk Rehabilitation	200	0	770	770	0	0	0	0	0	0	970	770	2020	2021
City Wide	5162071940	Unspecified WW Works	0	0	0	0	0	0	0	0	0	0	0	0	2020	2024
City Wide	5162101099	Engineering Services Staffing Costs - Wastewater	0	0	4,700	4,700	4,700	4,700	4,700	4,700	32,900	32,900	47,000	47,000	2021	Ongoing
City Wide	5162111101	Road Cut Restoration Program	0	0	1,800	1,800	1,800	1,800	1,800	1,800	12,600	12,600	18,000	18,000	2021	Ongoing
City Wide	5162149555	QA-QC Service Contract Program	0	0	150	150	150	150	150	150	1,050	1,050	1,500	1,500	2021	Ongoing
City Wide	5162155022	Engineering Consultant Sewermain Projects	0	0	300	300	300	300	300	300	2,100	2,100	3,000	3,000	2021	Ongoing
City Wide	5162155556	Mapping Update Program	0	0	40	40	40	40	40	40	280	280	400	400	2021	Ongoing
City Wide	5162155878	Forcemain Condition Assessment Program	0	0	270	0	270	270	270	270	1,890	1,890	2,700	2,430	2021	Ongoing
City Wide	5162155880	Inflow & Infiltration Studies and Flow Monitoring Program	0	0	450	224	550	275	550	275	1,960	980	3,510	1,754	2021	Ongoing
City Wide	5162157545	Wastewater Computer Model Update & Maintenance	0	0	150	150	440	440	170	170	1,190	1,190	1,950	1,950	2021	Ongoing
City Wide	5162160302	Emergency Repairs - Cross Connections Program	0	0	500	0	500	500	400	400	1,150	1,150	2,550	2,050	2021	Ongoing
City Wide	5162160390	Wastewater System Lining Program	0	0	4,050	3,090	4,050	4,050	4,050	4,050	28,350	28,350	40,500	39,540	2021	Ongoing
11	5162160391	AEGD Upper James Force Main Downstream Lining	0	0	3,500	3,500	0	0	0	0	0	0	3,500	3,500	2021	2021
City Wide	5162160522	Sewer Lateral Management Program (WWC)	0	0	4,250	4,250	4,000	4,000	3,500	3,500	24,500	24,500	36,250	36,250	2021	Ongoing

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Rehabilitation, Replacement, &amp; Upgrade Programs (SAM)</b>																
City Wide	5162160533	Trenchless Manhole Rehabilitation	0	0	70	70	70	70	70	70	490	490	700	700	2021	Ongoing
City Wide	5162160574	Capital Programming Sewer Inspection & Assessment	0	0	500	500	500	500	500	500	3,500	3,500	5,000	5,000	2021	Ongoing
City Wide	5162160575	Mainline Sewer Condition Assessment Program	0	0	1,140	1,140	1,140	1,140	1,140	1,140	7,980	7,980	11,400	11,400	2021	Ongoing
City Wide	5162160576	Sewer Lateral Condition Assessment Program	0	0	540	540	540	540	540	540	3,780	3,780	5,400	5,400	2021	Ongoing
City Wide	5162160577	Mainline Sewer Condition Assessment for Compliance & Regulations	0	0	100	100	100	100	100	100	700	700	1,000	1,000	2021	Ongoing
City Wide	5162160711	PW Capital Water Consumption Program	0	0	250	250	250	250	250	250	1,750	1,750	2,500	2,500	2021	Ongoing
City Wide	5162160820	Open Cut Repairs for CIPP Program	0	0	500	500	500	500	500	500	3,500	3,500	5,000	5,000	2021	Ongoing
City Wide	5162161444	Sewer Lateral Replace/Rehab Program	0	0	3,600	3,600	3,600	3,600	3,600	3,600	25,200	25,200	36,000	36,000	2021	Ongoing
City Wide	5162161740	Unscheduled Manhole and Sewermain Replacement Program	0	0	610	500	400	400	400	400	2,450	2,450	3,860	3,750	2021	Ongoing
City Wide	5162162073	Field Data Systems Program	0	0	110	110	110	110	110	110	770	770	1,100	1,100	2021	Ongoing
City Wide	5162167501	Odour Control Program & Media Replacement	0	0	500	500	1,000	1,000	0	0	0	0	1,500	1,500	2020	2020
City Wide	5162171015	Sewer Lateral Replacement for Co-ordinated Projects	0	0	270	270	270	270	270	270	2,790	2,790	3,600	3,600	2021	Ongoing
City Wide	5162171074	Contingency for Unscheduled Works Program	0	0	0	0	180	180	0	0	720	720	900	900	2021	Ongoing
4	5162260292	Strathearne - Barton to Brampton	0	0	0	0	7,000	7,000	0	0	0	0	7,000	7,000	2022	2022
15	5162418420	Grindstone Creek Utility Bridge	0	0	0	0	0	0	0	0	3,500	3,500	3,500	3,500	2024	2024
14	5162461420	West 31st 400mm Forcemain Replacement & Rehabilitation	0	0	0	0	0	0	0	0	1,600	1,600	1,600	1,600	2024	2024
			<b>3,950</b>	<b>2,360</b>	<b>29,920</b>	<b>27,854</b>	<b>36,880</b>	<b>36,605</b>	<b>30,330</b>	<b>30,055</b>	<b>173,290</b>	<b>172,310</b>	<b>274,370</b>	<b>269,184</b>		

**Projects Coordinated with Roads Program**

2	5161971945	Sheaffe / Park / Mulberry (Central Neighbourhood (North))	2,350	0	70	70	0	0	0	0	0	0	2,420	70	2019	2021
10	5162171025	Dewitt - Highway 8 to Barton	0	0	660	660	0	0	0	0	0	0	660	660	2021	2021
1	5162171303	Marion - Longwood to Dromore	0	0	0	0	120	120	0	0	0	0	120	120	2022	2022

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Projects Coordinated with Roads Program</b>																
13	5162171311	Highway 8 - Bond to Woodleys Lane	0	0	1,650	1,650	0	0	0	0	0	0	1,650	1,650	2021	2021
5	5162271306	Kelvin - Old Orchard to south end	0	0	0	0	30	30	0	0	0	0	30	30	2022	2022
6	5162271308	Concession / Mountain Brow - Upper Gage to Oakcrest	0	0	0	0	150	150	0	0	0	0	150	150	2022	2022
4	5162271312	Strathearne - Main to Britannia	0	0	0	0	30	30	0	0	0	0	30	30	2022	2022
13	5162272205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	0	0	0	0	1,750	1,750	0	0	0	0	1,750	1,750	2022	2022
2	5162371307	Duke - Hess to west end & Robinson - Queen to west end	0	0	0	0	0	0	30	30	240	240	270	270	2023	2024
14	5162371308	Scenic - Chateau Crt to Upper Paradise	0	0	0	0	0	0	900	900	0	0	900	900	2023	2023
2	5162471304	Ferguson/Foster/Walnut/Patrick	0	0	0	0	0	0	0	0	110	110	110	110	2024	2024
1	5162472213	Westdale North Neighbourhood Phase 1	0	0	0	0	0	0	0	0	1,500	1,500	1,500	1,500	2024	2024
3	5162671310	Oak/Emerald/East Ave - Cannon to Barton	0	0	0	0	0	0	0	0	420	420	420	420	2026	2026
3, 4	5162771203	Burlington & Industrial - Ottawa to Kenilworth	0	0	0	0	0	0	0	0	740	740	740	740	2027	2027
1	5162871311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	0	0	0	0	0	0	0	0	410	410	410	410	2028	2028
3	5163071308	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	0	0	0	0	0	0	0	0	80	80	80	80	2030	2030
			<b>2,350</b>	<b>0</b>	<b>2,380</b>	<b>2,380</b>	<b>2,080</b>	<b>2,080</b>	<b>930</b>	<b>930</b>	<b>3,500</b>	<b>3,500</b>	<b>11,240</b>	<b>8,890</b>		
<b>SERG Projects</b>																
City Wide	5162696475	Flooding & Drainage Master Plan Capital Forecast	0	0	0	0	0	0	0	0	22,500	22,500	22,500	22,500	2026	2029
			<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>22,500</b>	<b>22,500</b>	<b>22,500</b>	<b>22,500</b>		
<b>Waterfront Initiatives</b>																
City Wide	5162055800	Sewer Outfall Monitoring Study	0	0	500	500	0	0	0	0	0	0	500	500	2020	2021
			<b>0</b>	<b>0</b>	<b>500</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500</b>	<b>500</b>		
<b>Plant/Outstations Projects (SAM)</b>																

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Plant/Outstations Projects (SAM)</b>																
13	5161266213	Dundas WWTP Improvements (CASH FLOWED)	3,070	0	1,650	1,650	1,650	1,650	9,250	9,250	14,900	14,900	30,520	27,450	2012	2021
13	5161267273	Dundas Wastewater Outstations Upgrades	3,330	280	3,470	3,470	0	0	0	0	0	0	6,800	3,750	2012	2021
5	5161467756	Greenhill & Cochrane HCS01 Combined Sewer Overflow Tank Cleaning & Upgrades (CASH FLOWED)	2,920	930	0	0	2,150	2,150	0	0	0	0	5,070	3,080	2014	2021
12, 13, 15	5161667622	FC001, DC009 & HC011 Wastewater Pumping Stations Upgrades	6,690	1,438	660	330	0	0	0	0	0	0	7,350	1,768	2016	2021
4	5161767420	Parkdale Avenue HC001 Wastewater Pumping Station Upgrades	670	110	250	250	2,860	2,860	0	0	0	0	3,780	3,220	2017	2019
City Wide	5161966102	Woodward WWTP - Expansion (CASH FLOWED)	3,250	0	1,750	0	2,500	0	2,500	0	286,374	0	296,374	0	2019	2028
City Wide	5161966511	Woodward WWTP - Digesters 3 & 5 (CASH FLOWED)	3,000	0	5,750	5,750	3,250	3,250	0	0	0	0	12,000	9,000	2018	2022
5	5162067065	Eastport Drive SPS (HC017) Upgrades	390	0	2,480	2,480	0	0	0	0	0	0	2,870	2,480	2020	2022
15	5162067275	FC001 Elgin Street Sewage Pumping Station	550	0	1,700	1,700	0	0	0	0	0	0	2,250	1,700	2020	2021
City Wide	5162067420	Main & King CSO Rehabilitation	350	0	1,000	1,000	0	0	0	0	0	0	1,350	1,000	2020	2020
12	5162067425	Hillside SPS (DC006) Upgrades	280	0	1,100	1,100	0	0	0	0	0	0	1,380	1,100	2020	2021
City Wide	5162166713	Wastewater Maintenance Capital Program	0	0	1,500	1,500	2,000	2,000	2,000	2,000	14,000	14,000	19,500	19,500	2021	Ongoing
13	5162167420	DC007 McMaster Sewage Pumping Station Upgrades	0	0	770	770	1,650	1,650	0	0	0	0	2,420	2,420	2021	2021
City Wide	5162167751	Wastewater Outstation Upgrades - Asset Management Program	0	0	0	0	0	0	0	0	28,000	28,000	28,000	28,000	2024	Ongoing
City Wide	5162167752	Wastewater Outstation Inspections - Asset Management Program	0	0	200	200	620	620	620	620	4,340	4,340	5,780	5,780	2021	Ongoing
City Wide	5162266011	Woodward WWTP - Secondary Digester	0	0	0	0	500	500	5,000	5,000	0	0	5,500	5,500	2022	2023
City Wide	5162366420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	0	0	0	0	0	0	1,100	1,100	26,840	26,840	27,940	27,940	2018	2026
City Wide	5162466301	Woodward WWTP North Plant Rehabilitation (CASH FLOWED)	0	0	0	0	0	0	0	0	50,000	50,000	50,000	50,000	2024	2028
			<b>24,500</b>	<b>2,758</b>	<b>22,280</b>	<b>20,200</b>	<b>17,180</b>	<b>14,680</b>	<b>20,470</b>	<b>17,970</b>	<b>424,454</b>	<b>138,080</b>	<b>508,884</b>	<b>193,688</b>		

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Plant/Outstations Projects (WQI)</b>																
City Wide	5161468422	Randle Reef Sediment Remediation (CASH FLOWED)	5,650	1,550	375	375	0	0	0	0	0	0	6,025	1,925	2014	2021
			<b>5,650</b>	<b>1,550</b>	<b>375</b>	<b>375</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,025</b>	<b>1,925</b>		
<b>Plant/Outstations Projects (WINS)</b>																
City Wide	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	317,374	3,266	69,363	29,771	25,186	22,146	0	0	0	0	411,923	55,183	2008	2022
City Wide	5160966910	Woodward WWTP - Biosolids Management Facility	38,500	630	2,770	2,243	2,770	2,243	2,770	2,243	19,390	15,701	66,200	23,060	2009	2051
15	5162167275	DC014 First Street (Waterdown) SPS New Swab Launch Chamber	0	0	1,540	1,540	0	0	0	0	0	0	1,540	1,540	2021	2021
City Wide	5162169075	City Environmental Lab Improvements Program	0	0	410	0	340	340	190	190	390	390	1,330	920	2021	Ongoing
City Wide	5162169076	City Environmental Lab - HVAC	0	0	120	0	0	0	0	0	0	0	120	0	2021	2021
			<b>355,874</b>	<b>3,896</b>	<b>74,203</b>	<b>33,554</b>	<b>28,296</b>	<b>24,729</b>	<b>2,960</b>	<b>2,433</b>	<b>19,780</b>	<b>16,091</b>	<b>481,113</b>	<b>80,703</b>		
<b>Master Plan - Horizontal Assets</b>																
5, 9	5161695747	Battlefield Trunk Sewer Twinning (WW-33) (CASH FLOWED)	12,150	0	10,500	0	0	0	0	0	0	0	22,650	0	2016	2021
11	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	31,200	0	20,300	0	20,300	0	11,300	0	0	0	83,100	0	2016	2018
1	5161996954	Aberdeen at Hillside Neighbourhood Sewer Separation	450	0	0	0	2,230	2,230	0	0	990	990	3,670	3,220	2019	2025
			<b>43,800</b>	<b>0</b>	<b>30,800</b>	<b>0</b>	<b>22,530</b>	<b>2,230</b>	<b>11,300</b>	<b>0</b>	<b>990</b>	<b>990</b>	<b>109,420</b>	<b>3,220</b>		
<b>Master Plan - Vertical Assets</b>																
City Wide	5161555264	City-Wide Wastewater Master Plan	950	0	0	0	0	0	0	0	60	6	1,010	6	2015	2021
City Wide	5162095800	Flooding & Drainage Master Plan Capital Improvements	880	0	0	0	550	550	280	280	280	280	1,990	1,110	2020	2023
City Wide	5162155010	Wastewater Systems Planning Program	0	0	0	0	440	440	440	440	3,080	3,080	3,960	3,960	2021	Ongoing
			<b>1,830</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>990</b>	<b>990</b>	<b>720</b>	<b>720</b>	<b>3,420</b>	<b>3,366</b>	<b>6,960</b>	<b>5,076</b>		
<b>Development/Extension Projects</b>																

**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Development/Extension Projects</b>																
12	5162180187	Garner Road West - Raymond Road to Hwy 6 - CASH FLOW	0	0	4,000	0	4,000	0	0	0	0	0	8,000	0	2021	2022
7	5162180281	Rymal - 150m e/o Massina to 140m easterly	0	0	30	30	0	0	0	0	0	0	30	30	2021	2021
6, 11	5162180584	RHBP - Nebo - Rymal to Twenty	0	0	750	0	0	0	0	0	0	0	750	0	2021	2021
City Wide	5162196011	Intensification Infrastructure Upgrades Program - Wastewater	0	0	0	0	0	0	400	200	1,200	600	1,600	800	2021	Ongoing
			<b>0</b>	<b>0</b>	<b>4,780</b>	<b>30</b>	<b>4,000</b>	<b>0</b>	<b>400</b>	<b>200</b>	<b>1,200</b>	<b>600</b>	<b>10,380</b>	<b>830</b>		
<b>Computer Hardware Purchases</b>																
City Wide	5163066151	SCADA Master Plan	0	0	0	0	0	0	0	0	2,625	2,625	2,625	2,625	2030	2034
			<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>2,625</b>	<b>2,625</b>	<b>2,625</b>	<b>2,625</b>		
<b>Coordinated Projects</b>																
City Wide	5161855777	Wastewater infrastructure Analysis - Growth and Economic Opportunities	570	220	350	150	0	0	0	0	0	0	920	370	2018	2020
			<b>570</b>	<b>220</b>	<b>350</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>920</b>	<b>370</b>		
<b>Demolition</b>																
1	5161767772	Decommissioning Aberdeen Sewage Pumping Station	60	0	0	0	110	110	1,190	1,190	0	0	1,360	1,300	2019	2023
			<b>60</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>110</b>	<b>110</b>	<b>1,190</b>	<b>1,190</b>	<b>0</b>	<b>0</b>	<b>1,360</b>	<b>1,300</b>		
<b>Energy Management</b>																
City Wide	5162241350	Pilot solar power installation at a Class B Hamilton Water facility	0	0	0	0	150	150	600	600	0	0	750	750	2022	2023
			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150</b>	<b>150</b>	<b>600</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>750</b>	<b>750</b>		
<b>Equipment Replacement</b>																
City Wide	5161966151	SCADA Maintenance Program	0	0	150	150	400	400	275	275	3,300	3,300	4,125	4,125	2019	Ongoing
			<b>0</b>	<b>0</b>	<b>150</b>	<b>150</b>	<b>400</b>	<b>400</b>	<b>275</b>	<b>275</b>	<b>3,300</b>	<b>3,300</b>	<b>4,125</b>	<b>4,125</b>		

**Maintenance Projects**



**CITY OF HAMILTON  
WASTEWATER SYSTEM  
2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Maintenance Projects</b>																
5, 6	5161968920	Fennell/Greenhill Drop Shaft	680	0	350	350	0	0	0	0	15,000	15,000	16,030	15,350	2019	2026
4	5162068851	Pier 25 Dredging - Windermere Basin	170	170	280	280	13,250	13,250	0	0	0	0	13,700	13,700	2018	2021
4	5162161142	Eastern Sanitary Interceptor (ESI) at Battlefield Creek Trunk	0	0	260	260	0	0	0	0	0	0	260	260	2021	2021
			<b>850</b>	<b>170</b>	<b>890</b>	<b>890</b>	<b>13,250</b>	<b>13,250</b>	<b>0</b>	<b>0</b>	<b>15,000</b>	<b>15,000</b>	<b>29,990</b>	<b>29,310</b>		
<b>Plans/Studies</b>																
City Wide	5162562543	CSO Characterization Program	0	0	0	0	0	0	0	0	450	450	450	450	2025	2025
			<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>450</b>	<b>450</b>	<b>450</b>	<b>450</b>		
<b>Total Wastewater System</b>			<b>439,434</b>	<b>10,954</b>	<b>166,628</b>	<b>86,083</b>	<b>125,866</b>	<b>95,224</b>	<b>69,175</b>	<b>54,373</b>	<b>670,509</b>	<b>378,812</b>	<b>1,471,612</b>	<b>625,446</b>		

## Appendix "P" to Report FCS20073 Page 1 of 1

**SOURCE OF CAPITAL FINANCING**  
**2021 to 2030 RATE PROGRAM CAPITAL BUDGET**  
**\$(000'S)**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2021 to 2030
<b>STORM SEWERS</b>											
<b>Capital Program</b>	<b>29,875</b>	<b>26,805</b>	<b>27,250</b>	<b>34,385</b>	<b>22,580</b>	<b>26,310</b>	<b>46,680</b>	<b>41,180</b>	<b>41,510</b>	<b>34,880</b>	<b>331,455</b>
<b><u>Source of Funding</u></b>											
Subsidy/Other Revenue	473	75	75	75	75	75	75	75	75	75	1,148
Development Charges	8,185	4,000	4,000	4,920	4,000	4,000	4,000	4,000	4,920	4,000	46,025
Reserves & Other Internal Sources	3,584	3,646	-	-	-	-	-	-	-	-	7,230
Contribution from Operating	17,633	19,084	23,175	29,390	18,505	22,235	41,405	37,105	36,515	30,805	275,852
External Debt	-	-	-	-	-	-	1,200	-	-	-	1,200
<b>Total</b>	<b>29,875</b>	<b>26,805</b>	<b>27,250</b>	<b>34,385</b>	<b>22,580</b>	<b>26,310</b>	<b>46,680</b>	<b>41,180</b>	<b>41,510</b>	<b>34,880</b>	<b>331,455</b>

City of Hamilton  
Storm Water Management  
2021 Capital Budget Project List  
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
<b>Annual Projects</b>														
City Wide	4032114405	Contaminated Soil & Rock Disposal Program		250	-	-	-	-	-	-	-	250	250	-
City Wide	4032158001	Consultation and Accommodation		30	-	-	-	-	-	-	-	30	30	-
City Wide	5182101099	Engineering Services Staffing Costs - Storm		1,100	-	-	-	-	-	-	-	1,100	1,100	-
<i>Sub-Total Annual Projects</i>				<b>1,380</b>	-	-	-	-	-	-	-	<b>1,380</b>	<b>1,380</b>	-
<b>Coordinated - Network Extension Projects</b>														
6, 11	5182180584	RHBP - Nebo - Rymal to Twenty	*	2,000	-	-	1,700	-	-	-	-	300	300	-
<i>Sub-Total Coordinated - Network Extension Projects</i>				<b>2,000</b>	-	-	<b>1,700</b>	-	-	-	-	<b>300</b>	<b>300</b>	-
<b>Coordinated - Replacement Projects</b>														
4	5182170010	Barton - Parkdale to Talbot - Coordinated Road Restoration		1,700	-	-	-	-	-	-	-	1,700	1,700	-
13	5182172011	Highway 8 - Bond to Woodleys Lane		2,150	-	-	-	-	-	500	-	1,650	1,650	-
13	5182172205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)		30	-	-	-	-	-	-	-	30	30	-
4	5182172210	Barton - Parkdale to Talbot		1,530	-	-	-	-	-	-	-	1,530	1,530	-
City Wide	5182174840	Stormwater Analysis for Bridge, Culvert and Ditch Replacement Projects		500	-	-	-	-	-	-	-	500	500	-
<i>Sub-Total Coordinated - Replacement Projects</i>				<b>5,910</b>	-	-	-	-	-	<b>500</b>	-	<b>5,410</b>	<b>5,410</b>	-
<b>Coordinated - Upgrade Projects</b>														
City Wide	5182174680	Storm Sewer Network Planning - Transportation Program		660	-	-	-	-	-	-	-	660	660	-
<i>Sub-Total Coordinated - Upgrade Projects</i>				<b>660</b>	-	-	-	-	-	-	-	<b>660</b>	<b>660</b>	-
<b>Development Projects</b>														
City Wide	5182180090	Storm Water Management Program		4,000	-	-	4,000	-	-	-	-	-	-	-
11	5182180280	Airport Road Storm Sewer - Homestead to Mountaingate		1,360	-	-	1,360	-	-	-	-	-	-	-
7	5182180281	Rymal - 150m e/o Massina to 140m easterly		70	-	-	-	-	-	-	-	70	70	-
9	5182180285	SWMP - SM20		1,125	-	-	1,125	-	-	-	-	-	-	-
<i>Sub-Total Development Projects</i>				<b>6,555</b>	-	-	<b>6,485</b>	-	-	-	-	<b>70</b>	<b>70</b>	-
<b>Maintenance Projects</b>														
City Wide	5182168651	Windermere Basin Shoreline Rehabilitation		170	-	-	-	-	-	-	-	170	170	-
City Wide	5182174951	Shoreline Protection Program		1,320	-	-	-	-	-	1,320	-	-	-	-
<i>Sub-Total Maintenance Projects</i>				<b>1,490</b>	-	-	-	-	-	<b>1,320</b>	-	<b>170</b>	<b>170</b>	-
<b>Operations &amp; Maintenance</b>														
15	5181972940	Evans Road Culvert Twinning		500	-	-	-	-	-	-	-	500	500	-
15	5182017040	Highway 97 - Culvert Improvement Project		580	-	-	-	-	-	-	-	580	580	-
City Wide	5182160622	SWM Facility Maintenance Program		2,000	-	-	-	1,654	-	-	-	346	346	-
10, 11, 12, 13, 14,	5182160722	Municipal Drain Program		700	-	473	-	-	-	-	-	227	227	-
<i>Sub-Total Operations &amp; Maintenance</i>				<b>3,780</b>	-	<b>473</b>	-	<b>1,654</b>	-	-	-	<b>1,653</b>	<b>1,653</b>	-
<b>Outstations-Sustainable Asset Mgt (SAM)</b>														
City Wide	5182167751	Stormwater Infrastructure Criticality Assessment		280	-	-	-	-	-	-	-	280	280	-
<i>Sub-Total Outstations-Sustainable Asset Mgt (SAM)</i>				<b>280</b>	-	-	-	-	-	-	-	<b>280</b>	<b>280</b>	-
<b>Programs &amp; Contracts T.O.M.</b>														
City Wide	5182117152	Right of Way Drainage Program		1,500	-	-	-	-	-	-	-	1,500	1,500	-
City Wide	5182117458	Catch Basin Replacement/Rehabilitation Program		500	-	-	-	-	-	-	-	500	500	-
<i>Sub-Total Programs &amp; Contracts T.O.M.</i>				<b>2,000</b>	-	-	-	-	-	-	-	<b>2,000</b>	<b>2,000</b>	-
<b>Rehabilitation Project</b>														
13	5182061046	Osler Dr Outfall @ Grant Blvd		490	-	-	-	-	-	110	-	380	380	-

City of Hamilton  
Storm Water Management  
2021 Capital Budget Project List  
(000's)

City Ward	Project Number	Project Description	DC Debt	Gross Costs	Grants And Subsidies	Other External Revenue	Dev Charges (Inc Debt)	Reserves	WIP Reserves	WIP Other / Other Internal	WIP Debt	Net Cost	Financing Sources	
													From Operating	Debt
City Wide	5182160129	Residential Drainage Assistance Program		100	-	-	-	-	-	-	-	100	100	-
City Wide	5182160533	Trenchless Manhole Rehabilitation		70	-	-	-	-	-	-	-	70	70	-
14	5182180150	Chedmac - Southridge Court to 80m easterly		230	-	-	-	-	-	-	-	230	230	-
<i>Sub-Total Rehabilitation Project</i>				<b>890</b>	-	-	-	-	-	<b>110</b>	-	<b>780</b>	<b>780</b>	-
<b>Replacement Project</b>														
City Wide	5181767723	Pumping Stations		1,350	-	-	-	-	-	-	-	1,350	1,350	-
13	5182018101	Old Guelph Rd - Culvert Replacement		350	-	-	-	-	-	-	-	350	350	-
City Wide	5182117549	Concrete Box Culvert Rehab/Repair - T.O.M.		250	-	-	-	-	-	-	-	250	250	-
City Wide	5182117550	Concrete Box Culvert Rehab/Repair - Engineering Services		250	-	-	-	-	-	-	-	250	250	-
City Wide	5182161740	Unscheduled Manhole and Sewermain Replacement Program		50	-	-	-	-	-	-	-	50	50	-
<i>Sub-Total Replacement Project</i>				<b>2,250</b>	-	-	-	-	-	-	-	<b>2,250</b>	<b>2,250</b>	-
<b>SERG</b>														
1	5181260214	SERG - Parkside and Kipling Flood Solutions		1,000	-	-	-	-	-	-	-	1,000	1,000	-
City Wide	5182155347	Watercourse Erosion Sites Rehabilitation and Mitigation		280	-	-	-	-	-	-	-	280	280	-
City Wide	5182174275	Stormwater Management Facility Improvements		1,000	-	-	-	-	-	-	-	1,000	1,000	-
<i>Sub-Total SERG</i>				<b>2,280</b>	-	-	-	-	-	-	-	<b>2,280</b>	<b>2,280</b>	-
<b>Technical Services Projects</b>														
City Wide	4032055588	O.Reg. 588/17 Compliance - Asset Management Plan Development		50	-	-	-	-	-	-	-	50	50	-
City Wide	4032155522	State of the Infrastructure - Asset Management		50	-	-	-	-	-	-	-	50	50	-
City Wide	5182149555	QA-QC Service Contract Program		150	-	-	-	-	-	-	-	150	150	-
City Wide	5182155556	Mapping Update Program		40	-	-	-	-	-	-	-	40	40	-
<i>Sub-Total Technical Services Projects</i>				<b>290</b>	-	-	-	-	-	-	-	<b>290</b>	<b>290</b>	-
<b>Upgrade Projects</b>														
City Wide	5182162073	Field Data Systems Program		110	-	-	-	-	-	-	-	110	110	-
<i>Sub-Total Upgrade Projects</i>				<b>110</b>	-	-	-	-	-	-	-	<b>110</b>	<b>110</b>	-
<b>Total All Projects</b>				<b>29,875</b>	-	<b>473</b>	<b>8,185</b>	<b>1,654</b>	-	<b>1,930</b>	-	<b>17,633</b>	<b>17,633</b>	-

\*DC Debt

**CITY OF HAMILTON  
 STORM WATER MANAGEMENT  
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Rehabilitation, Replacement, &amp; Upgrade Programs (SAM)</b>																
City Wide	4032055588	O.Reg. 588/17 Compliance - Asset Management Plan Development	50	0	50	50	50	50	50	50	0	0	200	150	2020	2023
City Wide	4032114405	Contaminated Soil & Rock Disposal Program	0	0	250	250	0	0	0	0	750	750	1,000	1,000	2021	Ongoing
City Wide	4032155522	State of the Infrastructure - Asset Management	0	0	50	50	90	90	90	90	630	630	860	860	2021	Ongoing
City Wide	4032158001	Consultation and Accommodation	0	0	30	30	30	30	30	30	210	210	300	300	2021	Ongoing
9, 11, 12, 15	5181562590	SWMP Retrofits	720	500	0	0	0	0	660	660	0	0	1,380	1,160	2015	2023
City Wide	5181767723	Pumping Stations	700	100	1,350	1,350	100	100	0	0	50	50	2,200	1,600	2017	2026
15	5181972940	Evans Road Culvert Twinning	710	0	500	500	0	0	0	0	0	0	1,210	500	2019	2021
15	5182017040	Highway 97 - Culvert Improvement Project	0	0	580	580	0	0	0	0	0	0	580	580	2020	2021
13	5182018101	Old Guelph Rd - Culvert Replacement	0	0	350	350	0	0	0	0	0	0	350	350	2021	2021
13	5182061046	Osler Dr Outfall @ Grant Blvd	100	0	490	380	0	0	0	0	0	0	590	380	2020	2021
5	5182067875	Beach Strip Stormwater Pumping Stations (CASH FLOWED)	300	0	0	0	1,295	1,295	7,100	7,100	7,075	7,075	15,770	15,470	2020	2024
City Wide	5182101099	Engineering Services Staffing Costs - Storm	0	0	1,100	1,100	1,100	1,100	1,100	1,100	7,700	7,700	11,000	11,000	2021	Ongoing
City Wide	5182117549	Concrete Box Culvert Rehab/Repair - T.O.M.	0	0	250	250	250	250	250	250	1,750	1,750	2,500	2,500	2021	Ongoing
City Wide	5182117550	Concrete Box Culvert Rehab/Repair - Engineering Services	0	0	250	250	250	250	250	250	1,750	1,750	2,500	2,500	2021	Ongoing
City Wide	5182149555	QA-QC Service Contract Program	0	0	150	150	150	150	150	150	1,050	1,050	1,500	1,500	2021	Ongoing
City Wide	5182155556	Mapping Update Program	0	0	40	40	0	0	40	40	120	120	200	200	2021	Ongoing
City Wide	5182157545	Stormwater Computer Model	0	0	0	0	0	0	1,080	1,080	2,480	2,480	3,560	3,560	2021	Ongoing
City Wide	5182160129	Residential Drainage Assistance Program	0	0	100	100	0	0	0	0	0	0	100	100	2021	2021
City Wide	5182160533	Trenchless Manhole Rehabilitation	0	0	70	70	70	70	70	70	490	490	700	700	2021	Ongoing
City Wide	5182160622	SWM Facility Maintenance Program	0	0	2,000	2,000	2,000	2,000	1,200	1,200	8,400	8,400	13,600	13,600	2021	Ongoing
10, 11, 12, 13, 14, 15	5182160722	Municipal Drain Program	0	0	700	227	100	25	100	25	700	175	1,600	452	2021	Ongoing
City Wide	5182161740	Unscheduled Manhole and Sewermain Replacement Program	0	0	50	50	50	50	50	50	350	350	500	500	2021	Ongoing

**CITY OF HAMILTON  
 STORM WATER MANAGEMENT  
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Rehabilitation, Replacement, &amp; Upgrade Programs (SAM)</b>																
City Wide	5182162073	Field Data Systems Program	0	0	110	110	110	110	110	110	770	770	1,100	1,100	2021	Ongoing
City Wide	5182172074	Contingency for Unscheduled Works Program	0	0	0	0	180	180	0	0	720	720	900	900	2021	Ongoing
14	5182180150	Chedmac - Southridge Court to 80m easterly	0	0	230	230	0	0	0	0	0	0	230	230	2021	2021
City Wide	5182455422	Stormwater Master Plan	0	0	0	0	0	0	0	0	2,300	460	2,300	460	2028	2028
			<b>2,580</b>	<b>600</b>	<b>8,700</b>	<b>8,117</b>	<b>5,825</b>	<b>5,750</b>	<b>12,330</b>	<b>12,255</b>	<b>37,295</b>	<b>34,930</b>	<b>66,730</b>	<b>61,652</b>		
<b>Projects Coordinated with Roads Program</b>																
4	5182170010	Barton - Parkdale to Talbot - Coordinated Road Restoration	0	0	1,700	1,700	0	0	0	0	0	0	1,700	1,700	2021	2021
12	5182171328	Southcote - Garner to Highway 403 Bridge	0	0	0	0	1,500	1,500	0	0	0	0	1,500	1,500	2022	2022
13	5182172011	Highway 8 - Bond to Woodleys Lane	0	0	2,150	1,650	0	0	0	0	0	0	2,150	1,650	2021	2021
13	5182172205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	0	0	30	30	1,880	1,880	0	0	0	0	1,910	1,910	2021	2022
4	5182172210	Barton - Parkdale to Talbot	0	0	1,530	1,530	0	0	0	0	0	0	1,530	1,530	2021	2021
City Wide	5182174680	Storm Sewer Network Planning - Transportation Program	0	0	660	660	660	660	660	660	4,620	4,620	6,600	6,600	2021	Ongoing
City Wide	5182174840	Stormwater Analysis for Bridge, Culvert and Ditch Replacement Projects	0	0	500	500	500	500	500	500	3,500	3,500	5,000	5,000	2021	Ongoing
14	5182270009	Scenic - Mohawk to Chateau Crt - Coordinated Road Restoration	0	0	0	0	1,200	1,200	0	0	0	0	1,200	1,200	2022	2022
14	5182272309	Scenic - Mohawk to Chateau Crt	0	0	0	0	4,100	4,100	0	0	0	0	4,100	4,100	2022	2022
13	5182372304	Hatt & Bond - King to Market	0	0	0	0	0	0	2,100	2,100	0	0	2,100	2,100	2023	2023
1	5182472213	Westdale North Neighbourhood Phase 1	0	0	0	0	0	0	0	0	3,000	3,000	3,000	3,000	2024	2024
1	5182670013	Westdale North Neighbourhood Phase 2 - Coordinated Road Restoration	0	0	0	0	0	0	0	0	2,930	2,930	2,930	2,930	2026	2026
3	5182670020	Industrial - Ottawa to Gage / Gage / Depew - Coordinated Road Restoration	0	0	0	0	0	0	0	0	640	640	640	640	2026	2026

**CITY OF HAMILTON  
 STORM WATER MANAGEMENT  
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Projects Coordinated with Roads Program</b>																
3	5182672020	Industrial - Ottawa to Gage / Gage / Depew	0	0	0	0	0	0	0	0	390	390	390	390	2026	2026
1	5182770013	Westdale North Neighbourhood Phase 3 - Coordinated Road Restoration	0	0	0	0	0	0	0	0	2,030	2,030	2,030	2,030	2027	2027
3, 4	5182772203	Burlington & Industrial - Ottawa to Kenilworth	0	0	0	0	0	0	0	0	680	680	680	680	2027	2027
1	5182872311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	0	0	0	0	0	0	0	0	130	130	130	130	2028	2028
2	5183072293	Hughson - Wilson to Barton	0	0	0	0	0	0	0	0	280	280	280	280	2030	2030
3	5183072298	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	0	0	0	0	0	0	0	0	850	850	850	850	2030	2030
			<b>0</b>	<b>0</b>	<b>6,570</b>	<b>6,070</b>	<b>9,840</b>	<b>9,840</b>	<b>3,260</b>	<b>3,260</b>	<b>19,050</b>	<b>19,050</b>	<b>38,720</b>	<b>38,220</b>		
<b>SERG Projects</b>																
1	5181260214	SERG - Parkside and Kipling Flood Solutions	1,890	170	1,000	1,000	0	0	0	0	0	0	2,890	1,170	2012	2027
6	5181372295	SERG - Mount Albion Stormwater Management Facility Rehabilitation	670	0	0	0	330	330	0	0	0	0	1,000	330	2013	2022
13	5181823155	South St E and East St S in Dundas Drainage Improvement - SERG	230	60	0	0	0	0	1,100	1,100	0	0	1,330	1,160	2018	2023
11	5181872295	SERG - Winona Area Drainage Improvements	600	330	0	0	440	440	170	170	1,100	1,100	2,310	2,040	2018	2025
City Wide	5182155347	Watercourse Erosion Sites Rehabilitation and Mitigation	0	0	280	280	280	280	500	500	16,100	16,100	17,160	17,160	2021	Ongoing
City Wide	5182155421	Stormwater System Planning Program	0	0	0	0	770	770	770	770	5,390	5,390	6,930	6,930	2021	Ongoing
City Wide	5182174275	Stormwater Management Facility Improvements	0	0	1,000	1,000	0	0	1,250	1,250	17,250	17,250	19,500	19,500	2021	2030
5	5182323875	Beach Strip Stormwater Collection System Improvements	0	0	0	0	150	150	500	500	2,350	2,350	3,000	3,000	2023	2025
1	5182460214	SERG - Parkside & Kipling Stormwater Facility - CASH FLOW	0	0	0	0	0	0	0	0	12,610	12,610	12,610	12,610	2024	2028
3	5182472295	Main - Prospect to Gage - SERG B-3	0	0	0	0	0	0	0	0	1,580	1,580	1,580	1,580	2024	2024
City Wide	5182696475	Flooding & Drainage Master Plan Capital Forecast	0	0	0	0	0	0	0	0	67,500	67,500	67,500	67,500	2026	2029

**CITY OF HAMILTON  
 STORM WATER MANAGEMENT  
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
			<b>3,390</b>	<b>560</b>	<b>2,280</b>	<b>2,280</b>	<b>1,970</b>	<b>1,970</b>	<b>4,290</b>	<b>4,290</b>	<b>123,880</b>	<b>123,880</b>	<b>135,810</b>	<b>132,980</b>		
<b>Plant/Outstations Projects (SAM)</b>																
City Wide	5182167751	Stormwater Infrastructure Criticality Assessment	0	0	280	280	280	280	230	230	1,610	1,610	2,400	2,400	2021	Ongoing
			<b>0</b>	<b>0</b>	<b>280</b>	<b>280</b>	<b>280</b>	<b>280</b>	<b>230</b>	<b>230</b>	<b>1,610</b>	<b>1,610</b>	<b>2,400</b>	<b>2,400</b>		
<b>Plant/Outstations Projects (WQI)</b>																
City Wide	5182355075	Watershed Project Coordination and Stewardship Action Plans	0	0	0	0	0	0	0	0	1,190	1,190	1,190	1,190	2023	Ongoing
			<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>1,190</b>	<b>1,190</b>	<b>1,190</b>	<b>1,190</b>		
<b>Master Plan - Vertical Assets</b>																
City Wide	5182095800	Flooding & Drainage Master Plan Capital Improvements	880	0	0	0	550	550	280	280	280	280	1,990	1,110	2020	2023
			<b>880</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>550</b>	<b>550</b>	<b>280</b>	<b>280</b>	<b>280</b>	<b>280</b>	<b>1,990</b>	<b>1,110</b>		
<b>Development/Extension Projects</b>																
City Wide	5182180090	Storm Water Management Program	0	0	4,000	0	4,000	0	4,000	0	28,000	0	40,000	0	2021	Ongoing
11	5182180280	Airport Road Storm Sewer - Homestead to Mountaingate	0	0	1,360	0	0	0	0	0	0	0	1,360	0	2021	2021
7	5182180281	Rymal - 150m e/o Massina to 140m easterly	0	0	70	70	0	0	0	0	0	0	70	70	2021	2021
9	5182180285	SWMP - SM20	0	0	1,125	0	0	0	0	0	0	0	1,125	0	2021	2021
6, 11	5182180584	RHBP - Nebo - Rymal to Twenty	0	0	2,000	300	0	0	0	0	0	0	2,000	300	2020	2021
9	5182270021	Highland Rd W - First Rd W to Upper Centennial - Coordinated Road Restoration	0	0	0	0	310	310	0	0	0	0	310	310	2022	2022
9	5182272021	Highland Rd W - First Rd W to Upper Centennial	0	0	0	0	1,300	1,300	0	0	0	0	1,300	1,300	2022	2022
			<b>0</b>	<b>0</b>	<b>8,555</b>	<b>370</b>	<b>5,610</b>	<b>1,610</b>	<b>4,000</b>	<b>0</b>	<b>28,000</b>	<b>0</b>	<b>46,165</b>	<b>1,980</b>		
<b>Maintenance Projects</b>																
City Wide	5182168651	Windermere Basin Shoreline Rehabilitation	0	0	170	170	0	0	0	0	0	0	170	170	2021	2021



**CITY OF HAMILTON  
 STORM WATER MANAGEMENT  
 2021 - 2030 CAPITAL BUDGET LIST (000's)**

Ward (s)	Project Number	Project Description	Pre 2021		2021		2022		2023		2024-2030		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
<b>Maintenance Projects</b>																
15	5182174950	Watercourse and Drainage Channel Maintenance	0	0	0	0	580	580	460	460	3,870	3,870	4,910	4,910	2021	Ongoing
City Wide	5182174951	Shoreline Protection Program	0	0	1,320	0	150	150	400	400	3,350	3,350	5,220	3,900	2021	Ongoing
			<b>0</b>	<b>0</b>	<b>1,490</b>	<b>170</b>	<b>730</b>	<b>730</b>	<b>860</b>	<b>860</b>	<b>7,220</b>	<b>7,220</b>	<b>10,300</b>	<b>8,980</b>		
<b>Programs &amp; Contracts T.O.M.</b>																
City Wide	5182117152	Right of Way Drainage Program	0	0	1,500	1,500	1,500	1,500	1,500	1,500	10,500	10,500	15,000	15,000	2021	Ongoing
City Wide	5182117458	Catch Basin Replacement/Rehabilitation Program	0	0	500	500	500	500	500	500	3,500	3,500	5,000	5,000	2021	Ongoing
			<b>0</b>	<b>0</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>14,000</b>	<b>14,000</b>	<b>20,000</b>	<b>20,000</b>		
<b>Total Storm Water Management</b>			<b>6,850</b>	<b>1,160</b>	<b>29,875</b>	<b>19,287</b>	<b>26,805</b>	<b>22,730</b>	<b>27,250</b>	<b>23,175</b>	<b>232,525</b>	<b>202,160</b>	<b>323,305</b>	<b>268,512</b>		

## Appendix "S" to Report FCS20073 Page 1 of 1

**CITY OF HAMILTON**  
**2021 Rate Program Capital Budget Summary**  
**(\$000'S)**

	Gross Costs	Subsidy/ Other Revenues	Development Charges	WIP / Other Internal Sources	Reserves	Net Cost	Financing Source	
							Contribution From Operating	External Borrowings (Debentures)
<b>2021 Sustainable Asset Management Strategy (SAM)</b>								
Rehabilitation, Replacement & Upgrade Projects	75,550	473	226	6,600	2,439	65,812	65,812	-
Projects Coordinated with Roads Program or other Areas	18,100	400	-	500	-	17,200	17,200	-
S.E.R.G. Projects	2,280	-	-	-	-	2,280	2,280	-
Treatment Plant/Outstations Projects-SAM	43,383	-	2,751	-	-	40,632	29,732	10,900
Treatment Plant/Outstations Projects-WQI	1,700	-	-	275	-	1,425	1,425	-
Watermain Lining	7,700	-	-	2,770	-	4,930	30	4,900
<b>Sub-Total</b>	<b>148,713</b>	<b>873</b>	<b>2,977</b>	<b>10,145</b>	<b>2,439</b>	<b>132,279</b>	<b>116,479</b>	<b>15,800</b>
<b>Wastewater Investments Needs Strategies (WINS)</b>								
Treatment Plant/Outstations Projects-WINS	74,203	21,892	6,007	530	12,220	33,554	4,854	28,700
<b>Sub-Total</b>	<b>74,203</b>	<b>21,892</b>	<b>6,007</b>	<b>530</b>	<b>12,220</b>	<b>33,554</b>	<b>4,854</b>	<b>28,700</b>
<b>Master Plan</b>								
Horizontal and Vertical Assets	58,940	1,481	53,193	-	-	4,266	766	3,500
Waterfront Initiatives	500	-	-	-	-	500	500	-
<b>Sub-Total</b>	<b>59,440</b>	<b>1,481</b>	<b>53,193</b>	<b>-</b>	<b>-</b>	<b>4,766</b>	<b>1,266</b>	<b>3,500</b>
<b>Development Program</b>								
Development\Extension Projects	17,555	-	14,785	-	-	2,770	2,770	-
<b>Sub-Total</b>	<b>17,555</b>	<b>-</b>	<b>14,785</b>	<b>-</b>	<b>-</b>	<b>2,770</b>	<b>2,770</b>	<b>-</b>
<b>Total</b>	<b>299,911</b>	<b>24,246</b>	<b>76,962</b>	<b>10,675</b>	<b>14,659</b>	<b>173,369</b>	<b>125,369</b>	<b>48,000</b>

**City of Hamilton Treasurer's Updated 2020 Annual Repayment Limit**

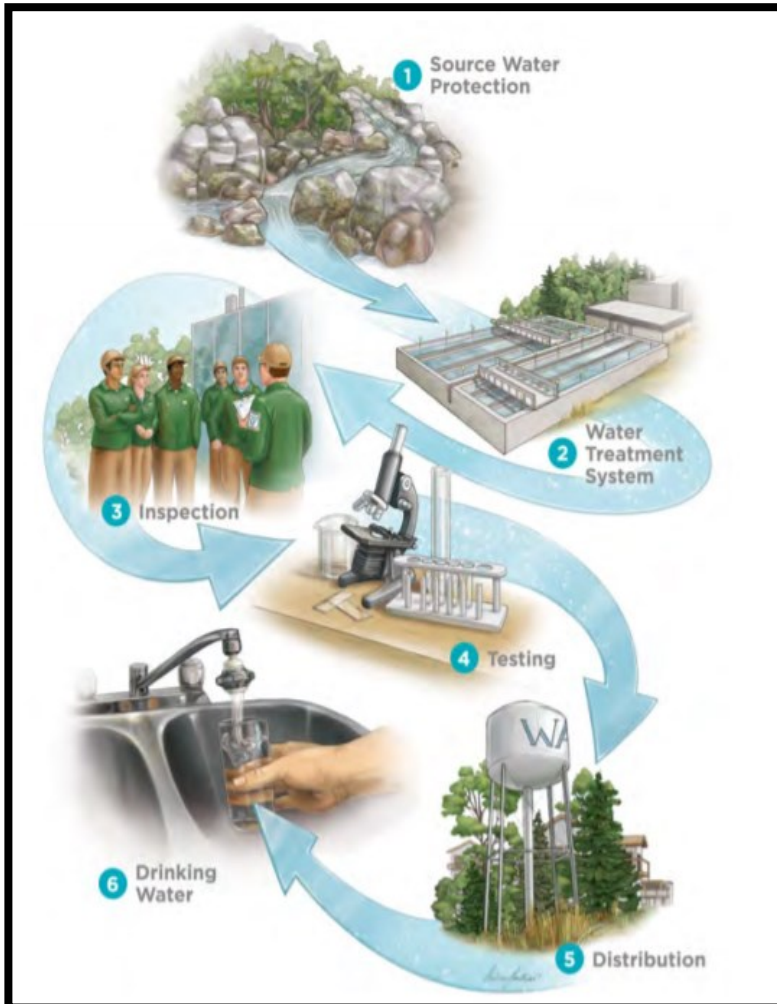
Annual Repayment Limit - <i>effective January 1, 2020, as calculated by the Ministry of Municipal Affairs and Housing, based on 2018 Financial Information Return</i>	\$275,795,317
Annual debt service charges on City Municipal debt approved to-date 2020 and prior years but not yet issued (\$465.0 M @ 5% for 15-year term)	-\$44,795,926
Annual debt service charges on City Municipal debt in respect of ICIP Transit debt approved but not yet issued (\$83.6 M @ 5% for 15-year term)	-\$8,055,294
Annual debt service charges on City Municipal debt in respect of West Harbour debt approved but not yet issued (\$2.9 M @ 5% for 15-year term)	-\$282,283
Annual debt service charges on City Municipal debt in respect of Housing 10-year Strategy debt approved but not yet issued (\$10.0 M @ 1.75% for 20-year term)	-\$596,912
Annual debt service charges on City Housing Hamilton debt approved but not yet issued and guaranteed by City of Hamilton (\$59.3 M @ 5% for 30-year term)	-\$3,856,250
Annual debt service charges on Municipal and Development Charges debt approved but not yet issued - 2020 Tax & Rate Supported Budget (\$107.7 M @ 5% for 15-year term)	-\$10,373,174
Annual debt service charges on Municipal and Tax Supported Development Charges debt approved but not yet issued - Police Station 40 (\$8 M @ 5% for 15-year term)	-\$770,738
Annual debt service charges in 2020 resulting from 2018 debenture issue of \$110.82 M;	-\$10,587,004
Annual debt service charges on debentures discharged in 2018 and 2019	\$4,707,558
Adjustment for annual debt service charges on outstanding City Housing Hamilton mortgages and City of Hamilton Tangible Capital Leases	\$36,094
<b>Updated 2020 Annual Repayment Limit - a calculation by the Treasurer representing an estimate of the maximum amount available to commit to annual debt service charges</b>	<b>\$201,221,385</b>
Debenture amount at 5% interest rate for 15-year term (amortizer) corresponding to the annual debt service charges of \$201,221,385	\$2,088,609,171



# 2021 RECOMMENDED WATER, WASTEWATER AND STORMWATER RATE SUPPORTED BUDGET

November 23, 2020

# 2021 RATE BUDGET



Performance Metrics / Statistics

2020 Highlights

2020 Clean Harbour Program

Opportunities & Challenges

Future Outlook

Continuous Improvement

State of the Infrastructure

2021 Operating Budget



**Water Supply**  
**Water Distribution**  
**Water Support Services**  
**Infrastructure Management**



**Wastewater Treatment**  
**Wastewater Collection**  
**Wastewater Support Services**  
**Infrastructure Management**



**Stormwater Treatment**  
**Stormwater Collection**  
**Stormwater Support Services**  
**Infrastructure Management**

HAMILTON WATER – SERVICES AND SUBSERVICES

# PERFORMANCE METRICS / STATISTICS



## 1 WATER TREATMENT PLANT



77,812 ML TREATED

WHICH IS EQUAL TO 29% OF HAMILTON HARBOUR



DAY-TO DAY OPERATIONS AND MAINTENANCE OF 13,563 FIRE HYDRANTS

1,000

PIECES OF OUTREACH MATERIAL CREATED



## 21 WATER PUMPING STATIONS



4 WELL SYSTEMS  
CARLISLE  
FREELTON  
GREENSVILLE  
LYNDEN



13

RESERVOIRS

7 WATER TOWERS



9 ACTIVE CONSTRUCTION PROJECTS



INCLUDING 5 SUBSTANTIALLY COMPLETED PROJECTS



158,413 WATER METERS

2,110 km OF WATERMAINS



290 WATERMAIN REPAIRS

19,262 WATER TREATMENT PLANT SAMPLES TESTED



18,046 WATER DISTRIBUTION SAMPLES TESTED

SUPPORT



8 AGENCIES WITH RESEARCH

750 SUBSTANDARD WATER SERVICE LINE REPLACEMENTS COMPLETED



## 2 WASTEWATER TREATMENT PLANTS



**115,336 ML TREATED**  
WHICH IS EQUAL TO 42% OF HAMILTON HARBOUR

## 300 BACKWATER VALVES INSTALLED

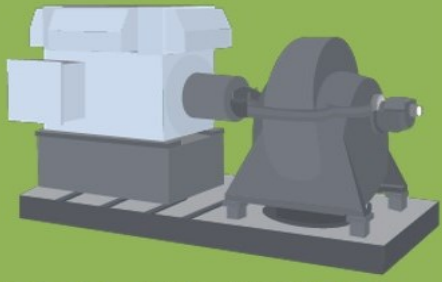


## ADDITIONAL SERVICES REVENUE (YTD) \$ 6,421,000

(78 ACTIVE PERMITS)



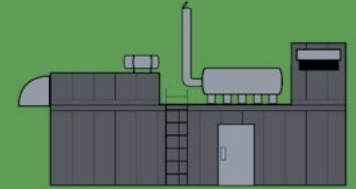
## 71 PUMPING STATIONS



## 9 COMBINED SEWER OVERFLOW TANKS



## 8,015 MEGA WATT HOURS ELECTRICITY PRODUCED



## 11 ACTIVE CONSTRUCTION PROJECTS



INCLUDING **7** SUBSTANTIALLY COMPLETED PROJECTS

## 1,202 km SANITARY SEWER

## 571 km COMBINED SEWER

## 40,299 TONNES OF BIOSOLIDS PROCESSED ON SITE

## 25,503 MANHOLES



## 49,258 WASTEWATER SAMPLES TESTED

## 13,106 ENVIRONMENTAL SAMPLES TESTED



## 1,376 DEVELOPMENT APPLICATION REVIEWS (YTD)

## \$4.4 MILLION COST AVOIDANCE (YTD GLOBAL ADJUSTMENT)



# TOTAL WASTEWATER ASSETS - \$5.39 BILLION



# 2020 STORMWATER FORECAST



**1,586,424 m<sup>3</sup>**

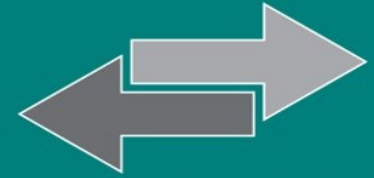
STORMWATER STORAGE CAPACITY

**1,231 km** OF STORM SEWER

SHORELINE ASSETS

**630M**

AT 29 LOCATIONS



**72** OIL & GRIT SEPARATORS

**2**



STORMWATER PUMPING STATIONS

**148**

KILOMETRES OF WATERCOURSES



**57** KILOMETRES OF MUNICIPAL DRAINS



DRAINAGE EASEMENTS



**5** WETLANDS

**74**

WET PONDS



**60**

DRY PONDS



**438**

EMERGENCY SPILLS ACTIVATIONS (YTD)



**2021**

FLOODING & DRAINAGE MASTER SERVICING STUDY



**1,465** RAIN BARRELS SOLD



## DUNDAS WWTP



**4,451 ML**  
wastewater  
treatment  
forecast



continuous  
compliance with  
wastewater  
effluent limits

## WOODWARD WTP



**77,812 ML**  
water treatment  
forecast



**AWQI**

**11** confirmed  
**3** unconfirmed



**\$4.40M**  
cost avoidance  
YTD global  
adjustment

## WOODWARD WWTP



**110,885 ML**  
wastewater  
treatment forecast



**74%**  
capacity utilization

**40,299** **TONNES**  
biosolids processed on site  
forecast



**8,015**  
mega watt hours  
generated by Cogen unit



continuous  
compliance with  
wastewater  
effluent limits



**43,061**  
gigajoules  
generated by Bio-gas  
Purification Unit (YTD)



Plant bypasses YTD



**8** odour  
complaints

# 2020 HIGHLIGHTS



## STRATEGIC PLAN OUR PRIORITIES

- **COMMUNITY ENGAGEMENT & PARTICIPATION** 145 of 220
  - Hamilton has an open, transparent, and accessible approach to City government that engages with and empowers all citizens to be involved in their community.
- **ECONOMIC PROSPERITY AND GROWTH**
  - Hamilton has a prosperous and diverse local economy where people have opportunities to grow and develop.
- **HEALTHY & SAFE COMMUNITIES**
  - Hamilton is a safe and supportive city where people are active, healthy, and have a high quality of life.
  -
- **CLEAN & GREEN**
  - Hamilton is environmentally sustainable with a healthy balance of natural and urban spaces.
- **BUILT ENVIRONMENT & INFRASTRUCTRE**
  - Hamilton is supported by state of the art infrastructure, transportation options, buildings and public spaces that create a dynamic City.
- **CULTURE & DIVERSITY**
  - Hamilton is a thriving, vibrant place for arts, culture, and heritage where diversity and inclusivity are embraced and celebrated.
- **OUR PEOPLE AND PERFORMANCE**
  - Hamiltonians have a high level of trust and confidence in their City government.



# WASTEWATER QUALITY MANAGEMENT SYSTEM POLICY



The City of Hamilton owns, maintains and operates various wastewater systems. The City is committed to:

- C** Compliance with all legal and other requirements
- L** Leaders in pollution prevention
- E** Effective Communication with the community
- A** Always improving the Wastewater Quality Management System
- N** Noteworthy innovation



## Implementation of wastewater quality management system (WWQMS)

- ❖ Operational plan and update in December 2020
- ❖ Policy (C.L.E.A.N) developed through Staff competition
- ❖ Wastewater compliance audit – March 2020
- ❖ First internal audit – Q1 2021

OCTOBER 2020

**WASTEWATER QUALITY MANAGEMENT SYSTEM**

# update

**WWQMS Operational Plan Development: We're on track!**

The Wastewater Quality Management System (WWQMS) Operational Plan is comprised of procedures that will help provide a clear picture of how Hamilton Water will meet its policy requirements. We've identified 32 procedures that need updating and created 3 new procedures for meeting WWQMS requirements.

These procedures will feed into the WWQMS Operational Plan for wastewater. We are currently working on developing and updating the remaining procedures. So keep an eye out for sectional procedure updates!

**15**  
REVIEWS IN PROGRESS

**20**  
COMPLETED

**35**  
TOTAL DOCUMENTS

**Did You Know?**

Our new Approvals Register (PW-WW-8-004-020) is a one stop shop for our Compliance Approval Requirements. It captures 75 Certificates of Approval (CoAs) and Environmental Compliance Approvals (ECAs) for Wastewater. The Register also includes Drinking Water approvals and we are working to include all Stormwater approvals as well! Click [here](#) for the Approvals Register.

**Feedback & Suggestions**

Do you have any other suggestions for WWQMS? We have the first full WWQMS Top Management Review meeting on November 5th and are looking for comments, suggestions and compliments! Please send them over to [jesmy.d'cruz@hamilton.ca](mailto:jesmy.d'cruz@hamilton.ca)

**PRE-PLANNING & INITIATION**  
May/19 - Sept/19

**STANDARD DEVELOPMENT**  
Sept/19

**GAP ANALYSIS**  
Oct/19 - Feb/20

**WORKING GROUP FORMATION**  
Jan/20

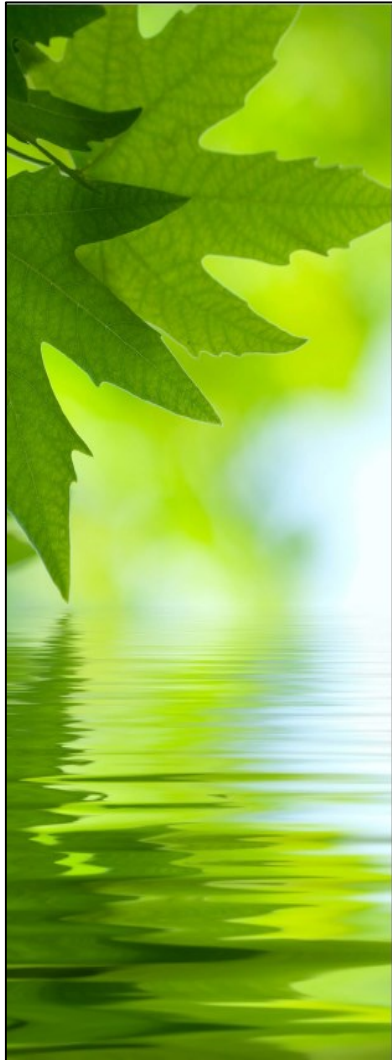
**ENVIRONMENTAL COMPLIANCE AUDIT**  
Mar/20

**OPERATIONAL PLAN DEVELOPMENT**  
Mar/20 - Oct/20

**1<sup>st</sup> WWQMS AUDIT**  
Q1-2021

**CORRECTIVE & PREVENTATIVE ACTIONS**  
Q2&Q3-2021

**2<sup>nd</sup> WWQMS AUDIT**  
Q4-2021



2020  
DIRECTOR'S  
REPORT  
HAMILTON WATER



### Community and stakeholder engagement Initiatives

- ❖ From 3P's to F.O.G (Fat's, Oil's and Grease's)
- ❖ Combined sewer overflow and wastewater treatment plant bypass public facing map
- ❖ Trust and confidence and service profiles
- ❖ 2020 divisional report

### Infrastructure performance

- ❖ Watermain performance (C-factor testing)

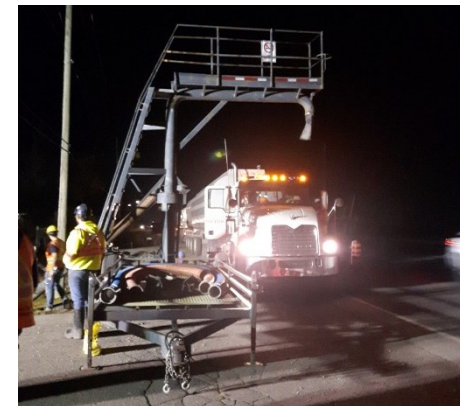






### Capital construction performance

- ❖ \$126.7M – Forecasted on 2020 capital construction expenditures for 2020
- ❖ 11 Vertical capital construction projects complete in 2020
  - AEGD pumping stations (2 of 3 stations)
  - Stone Church & Garth reservoir HDR05 phase 1 upgrades
  - Decommissioned Waterdown wastewater plant
  - Primary digester #4 clean out and interior sealing
  - New Lynden well system





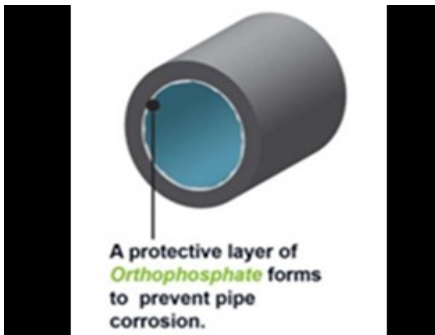
# 2020 HIGHLIGHTS – P3 BIOSOLIDS PROJECT



## Substantial performance of P3 Biosolids Facility

- ❖ Substantial performance May 11, 2020
- ❖ Delivered through Public-Private-Partnership model
- ❖ 30 Year operating, maintenance and rehabilitation phase with Harbour City Solutions
- ❖ 60,000 wet tonne per year processing facility
- ❖ Produces a fertilizer product registered under the Canadian Food Inspection Agency or can be used as a fuel source





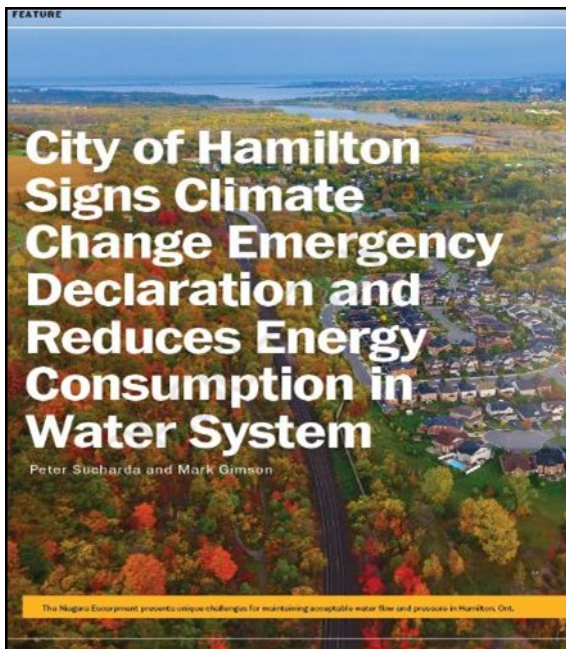
### Citizen facing programs

- ❖ Protective plumbing program (backwater valves)
  - Rostered contractor model continues to be a success
  - 10,833 valves installed since 2009 - \$24.1M spent towards program
- ❖ Sewer lateral management program
  - Upgrade of aged residential sewer service lines
  - 511 inspections (YTD) – spot repairs, replacement or lining
  - Approximately \$1.7M invested in 2020
- ❖ Substandard water service replacement program (lead services)
  - 615 services replaced (YTD)
  - 1251 size & type inspections (YTD)
  - Approximately \$2.34M invested in 2020
- ❖ Corrosion control program
  - Program launched November 2018
  - No water quality issues observed / reported
  - Project underway to assess program maturity
  - Decreasing trend in lead levels at tap

# CLIMATE CHANGE IMPACTS



- ❖ Hamilton Water is one of the City's largest energy consumers - \$11M annually
- ❖ Energy efficiencies are incorporated into all capital rehabilitation projects
  - High efficiency pumps and motors
  - LED lighting
- ❖ \$674M in total capital investment, driven by growth and infrastructure needs, that address energy efficiencies and mitigate flooding



## Examples of projects benefiting climate change:

- ❖ Anti stagnation valve program (3.1MWh / \$400,000 reduction)
- ❖ Biosolids P3 facility product has reduced trucking volumes
- ❖ West Mountain inflow and infiltration study
- ❖ Climate change asset impact study with GTHA municipalities
- ❖ Proactive leak detection
- ❖ Municipal natural asset inventory
- ❖ Review and update of the intensity-duration-frequency curve



Hamilton  
**CLEAN HARBOUR**  
P R O G R A M

For more information, please visit our website at:

- ❖ [www.hamilton.ca/cleanharbour](http://www.hamilton.ca/cleanharbour)

For a video update of the Woodward Upgrades Project, please visit our website at:

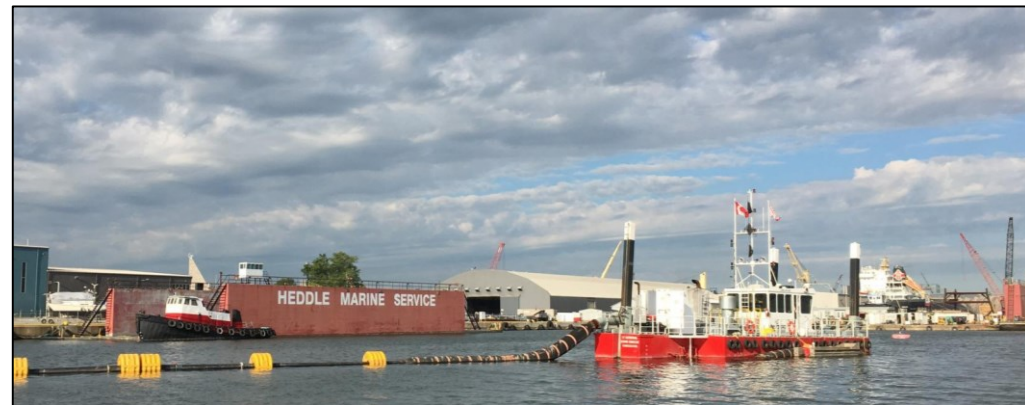
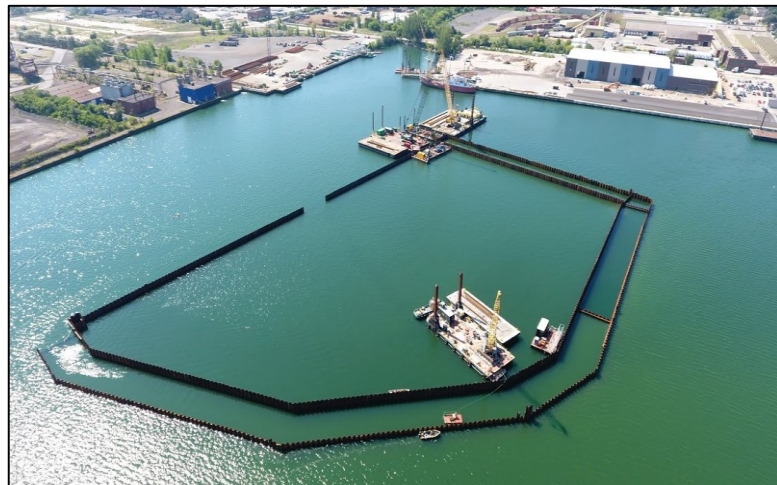
- ❖ <https://www.hamilton.ca/city-initiatives/our-harbour/woodward-upgrades-sub-projects>





## Project update by phase

- ❖ Phase 1: double celled sheet pile wall containment facility
  - Complete
- ❖ Phase 2: dredging of contaminated sediment
  - Underway – 70% complete (mid October)
  - 272,000m<sup>3</sup> removed to date
- ❖ Phase 3: dewatering and capping of contaminated material
  - COVID-19 could delay tendering to 2021
  - Expected to be complete in 2022/23



### Contract 1 – Main Pumping Station (MPS)



Contract value: **\$87.6 Million**

Construction began: **May 2017**

Substantial completion: **June 2021 (contract) + 6 months = Dec 2021**

Work performed to September 2020: **\$70.7 Million (80%)**

### Contract 2 – Electrical Upgrades (ELU)



Contract value: **\$60.9 Million**

Construction began: **October 2017**

Substantial completion: **June 2021 (on schedule)**

Work performed to September 2020: **\$55.5 Million (91%)**

### Contract 3 – Tertiary Treatment (TTU)



Contract value: **\$165.3 Million**

Construction began: **May 2019**

Substantial completion: **Dec 2021 (contract) + 7 months = July 2022**

Work performed to September 2020: **\$69.3 Million (41%)**



CONTRACT 1 – MPS

CONTRACT 2 – ELU

CONTRACT 3 – TTU



# OPPORTUNITIES AND CHALLENGES



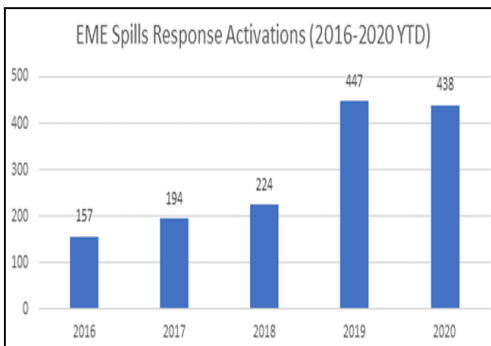


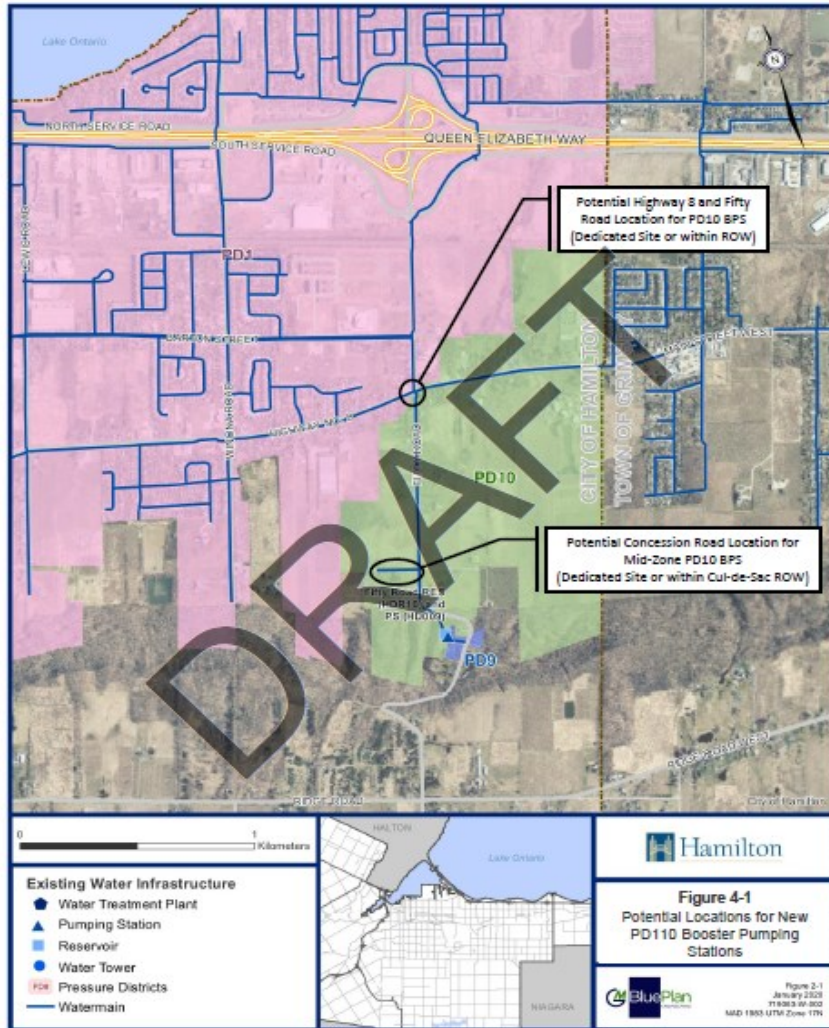
## Regulatory challenges

- ❖ Watermain disinfection procedure
- ❖ F-5-5 compliance
- ❖ Allocation capacity – combined system
- ❖ Stormwater source control enforcement
- ❖ Construction dewatering
- ❖ On-site and excess soil management O. Reg 406/19
- ❖ Area wide linear wastewater and stormwater collection environmental compliance approvals

## Operational impacts

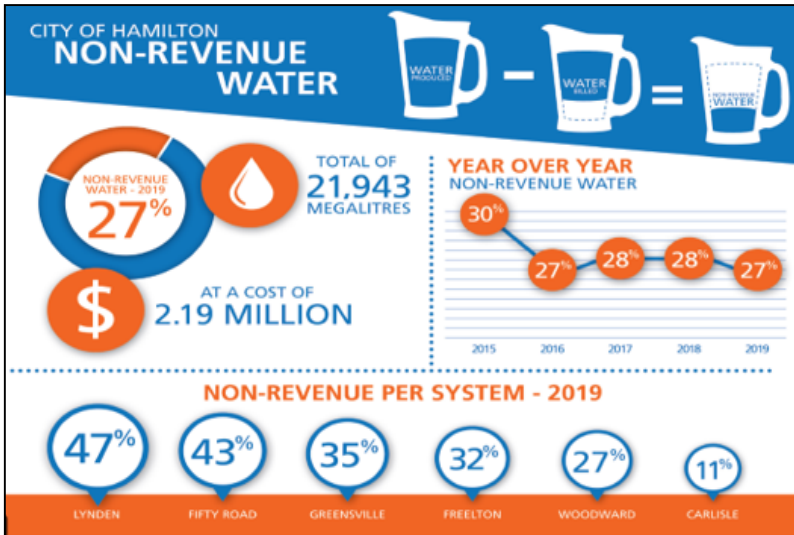
- ❖ Short term (2-3 year) capital rehabilitation repairs
- ❖ Utility encroachments
- ❖ High lake water levels
- ❖ COVID-19 service impacts
- ❖ Reported spills and response





## Fifty Road drinking water supply

- ❖ Section of Stoney Creek has drinking water supplied from the Grimsby water system
- ❖ 2020 study recommend converting system to Hamilton supply
  - Current rate structure for Grimsby supply - \$2.77/m<sup>3</sup>
  - Project construction estimate - \$1.0M to \$1.4M
  - Payback period is approximately 14 years
  - Provides full control of the drinking water system

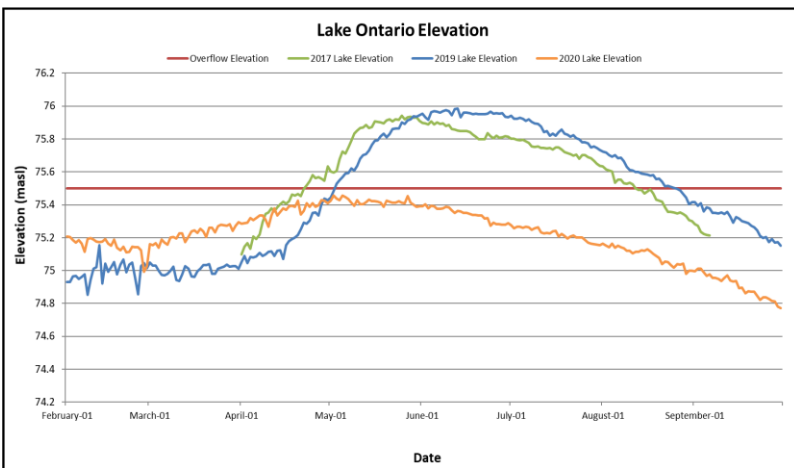


## System governance

- ❖ Low impact development governance (public, private and enforcement)
- ❖ Provincial changes to drinking water regulatory limits (ex. lead)
- ❖ Municipal responsibility agreements

## System performance

- ❖ Above average non-revenue water ratio and proactive leak detection
- ❖ Climate change – high intensity precipitation, elevated lake levels, frozen services, algae blooms
- ❖ Dundas wastewater treatment plant upgrades – funding





## Actions complete

- ❖ Studies and assignments
  - Chedoke Creek ecological risk assessment
  - Cootes Paradise environmental impact evaluation
  - Floatables study
  - Hatch facility inspection study
- ❖ Community engagement
  - Combined sewer overflow bypass notification website
  - Combined sewer overflow video

## Ongoing actions

- ❖ Studies and assignments
  - Chedoke water quality improvement study
  - Combined sewer outfall monitoring feasibility study
- ❖ Creation of watershed management committee

## Future actions

- ❖ Real time control phase 2 – 2021 construction
- ❖ Capital implementation plan from watershed management committee

**Represents \$7.7M in work related to Chedoke Creek and Cootes Paradise**





## Resources approved in 2020 rate budget

- ❖ 1 Water Quality Technologist – surface water quality program
  - Gap analysis for current monitoring activities
  - Draft framework – external stakeholder review Q1 2021
- ❖ 4 Maintenance Operators – enhanced combined sewer overflow facility inspection
  - Inspections complete at 22 locations (e.g. 7 combined sewer overflow tanks, sluice gates, regulators)
  - Proactive repairs and equipment replacement
  - Focus on critical control points



- ❖ Provincial Officer's Order issued to the City on Friday November 20, 2020
- ❖ Order posted on the City website – [www.hamilton.ca/chedokecreek](http://www.hamilton.ca/chedokecreek)
- ❖ The order requires the City to undertake remedial action for Chedoke Creek and Cootes Paradise
  - Targeted dredging plan for Chedoke Creek
  - Strategy for water quality improvements in Cootes Paradise
- ❖ City staff continue to work collaboratively with the Ministry and share the common goal of environmental improvement

# FUTURE OUTLOOK



## Organizational

- ❖ Stormwater program review
- ❖ By-law updates
  - Sewer use by-law – update
  - Waterworks by-law – update

## Operations

- ❖ Advanced metering infrastructure for ICI facilities and remaining well communities
- ❖ Non revenue water initiatives – proactive leak detection
- ❖ Lead service line replacements
  - Contractor and staff delivery model – cost savings
  - Review of accelerated delivery model

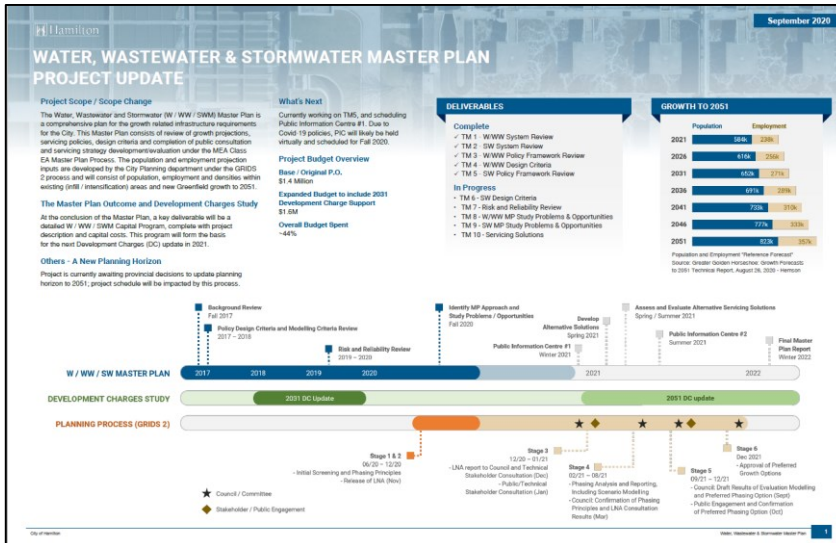




# MAJOR INITIATIVES 2021

## Planning & capital initiatives

- ❖ Water, wastewater and stormwater master plan
- ❖ Asset management readiness – O. Reg 588/17 and vertical asset management program
- ❖ Environmental assessments
  - Carlisle water storage
  - Waterdown trunk watermain twinning
  - Ancaster water servicing
  - Beach neighbourhood drainage environmental assessment
- ❖ Design and construction projects
  - Pressure district 7 water tower (Ward 11)
  - AEGD wastewater pumping station (Twenty Rd.)
  - Real time control - phase 2
  - Greenhill combined sewer overflow facility



# MAJOR INITIATIVES 2022 TO 2024

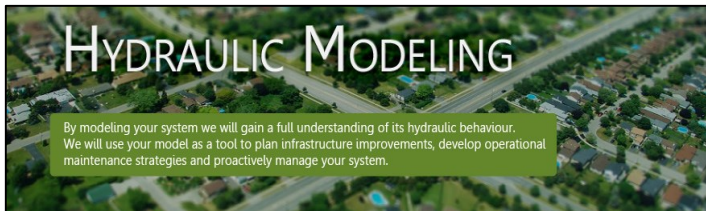


## Planning & capital initiatives

- ❖ Water treatment plant process upgrades
- ❖ Mountain waste hauler station design
- ❖ Dundas wastewater treatment plant upgrades



# MAJOR INITIATIVES 2022 TO 2024



## Organizational

- ❖ Facility plan for Woodward wastewater treatment plant
- ❖ Water / wastewater / stormwater / groundwater modelling
  - Model updates and calibration
  - Undertaking flow monitoring activities
  - Establishment of master model procedures
  - Assessing integration of growth information

## Operations

- ❖ Integration of WUP infrastructure
  - Commissioning and transfer to operations
  - Develop preventative maintenance program



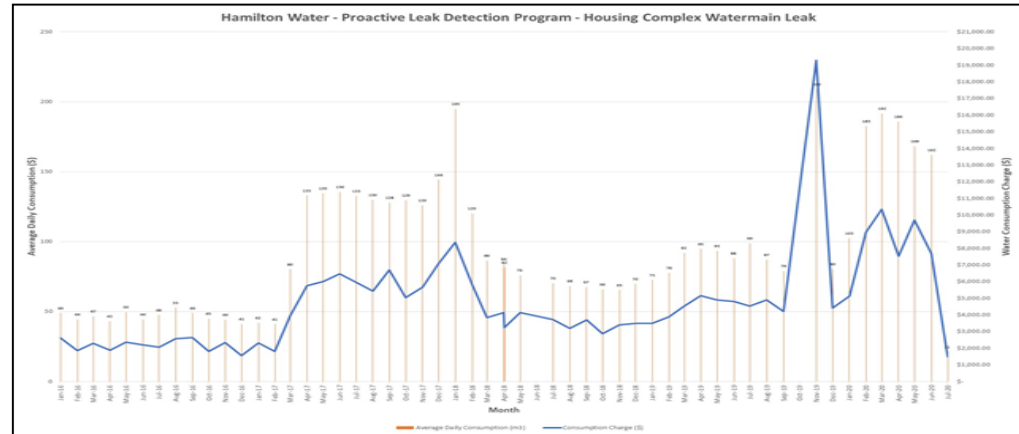
# CONTINUOUS IMPROVEMENT

# CONTINUOUS IMPROVEMENT HIGHLIGHTS

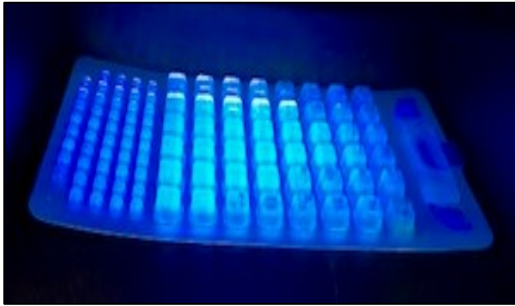


## Proactive leak detection

- ❖ 140 leaks (23% private leaks)
- ❖ Leak detection of over 400 km of watermain
- ❖ Major leaks previously undetected
  - ❖ 564 Stone Church – 463,000 l/d
  - ❖ 617 Scenic Dr – 397,000 l/d
- ❖ Financial benefits
  - ❖ Direct energy savings
  - ❖ IESO incentive program

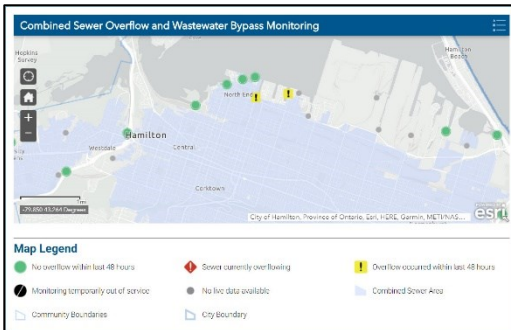


# CONTINUOUS IMPROVEMENT HIGHLIGHTS

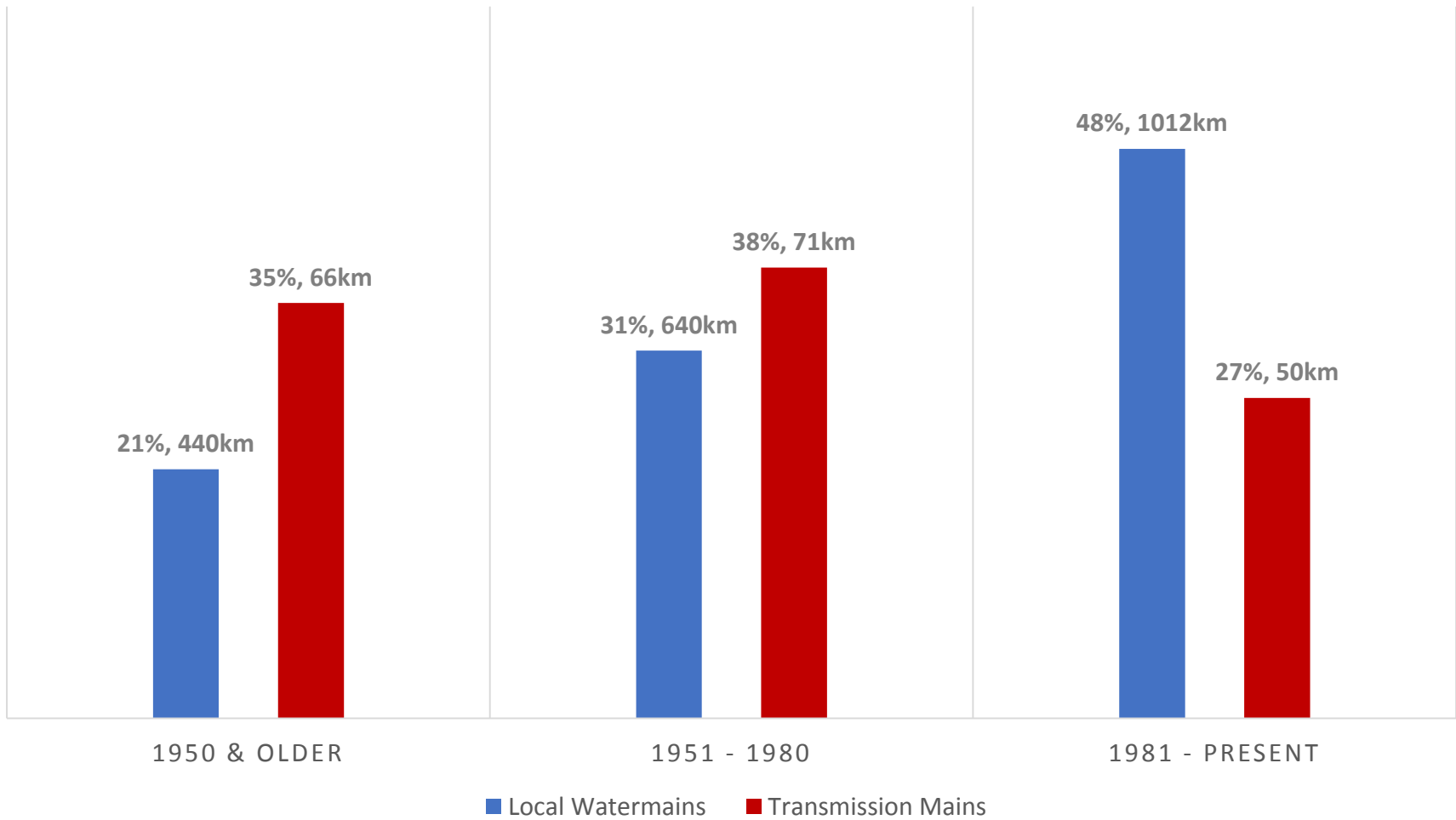


## Process oriented

- ❖ Enzyme substrate method for microbiological analysis
  - Implemented in February 2020
  - Accreditation to ISO17025:2017
  - 18hr vs 24hr incubation period
  - Interference elimination – AWQIs
  - Less staff time required to run analysis
  
- ❖ Combined sewer overflow (CSO) bypass notification
  - Visual of CSO locations and current/recent overflows
  - Provides volumes and historical information
  - Promotes transparency of our operations



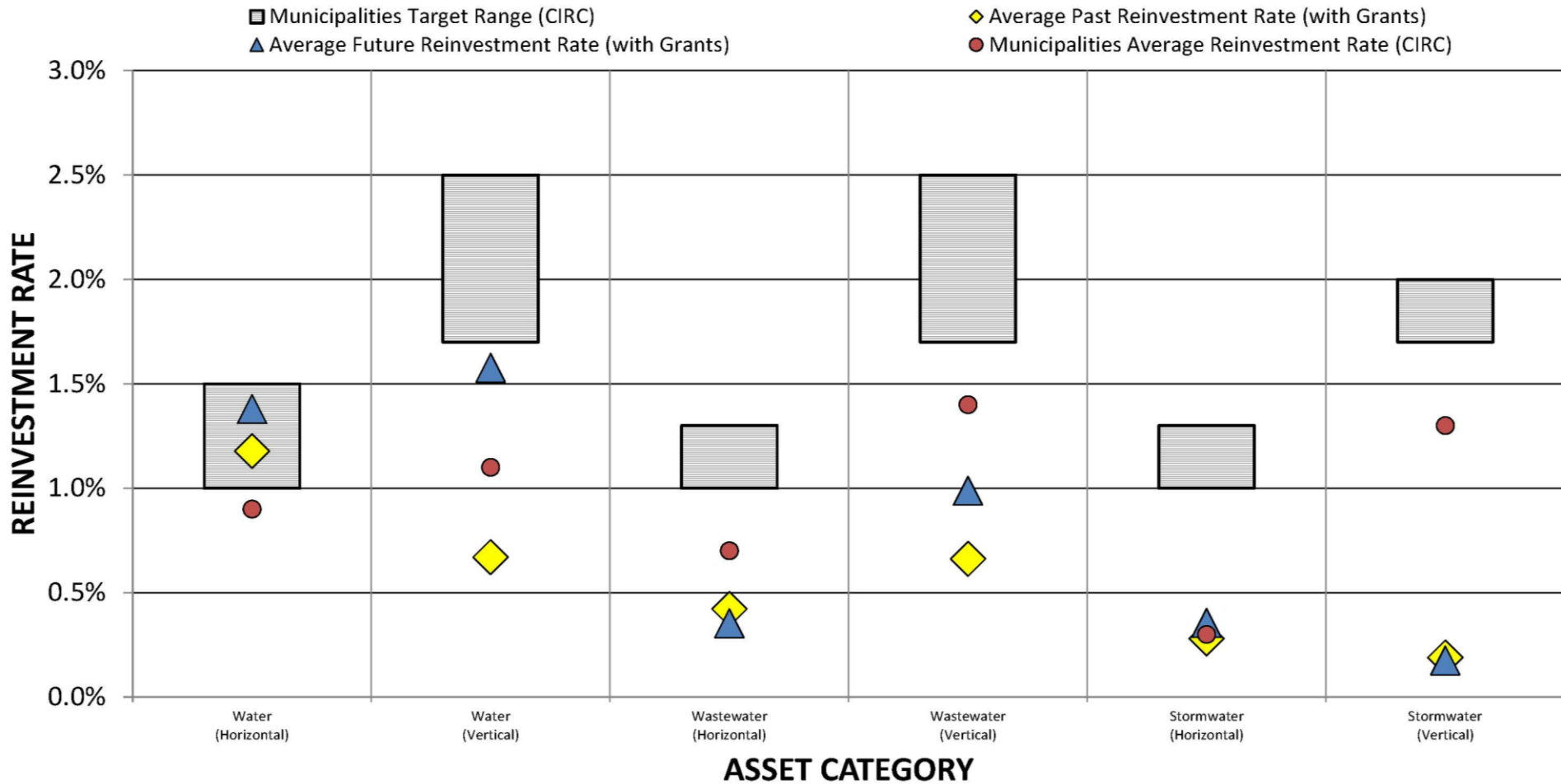
# STATE OF THE INFRASTRUCTURE



9% of the distribution network is transmission watermain (450mm and larger)

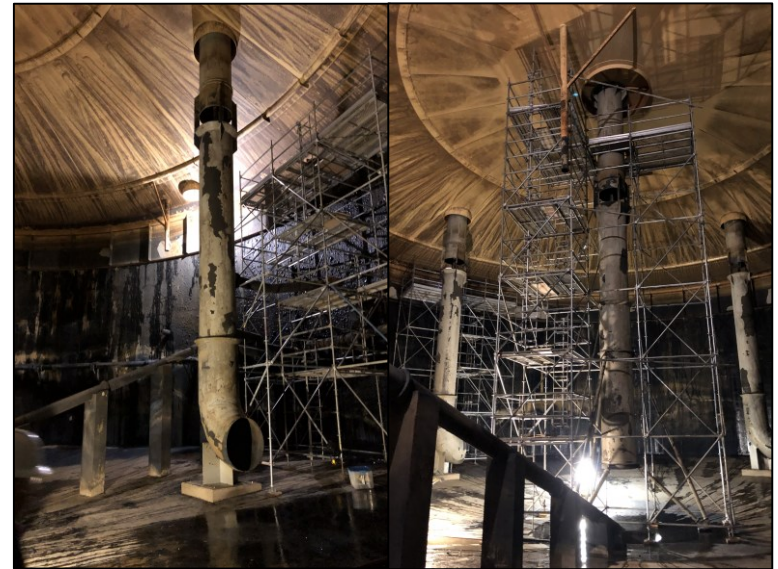
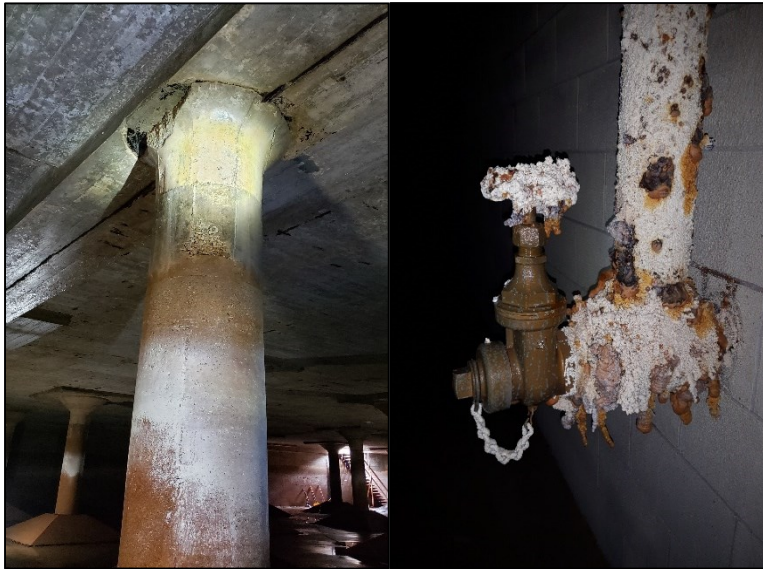


# INFRASTRUCTURE REINVESTMENT RATE COMPARISON



*Past 5-year Capital Approved Budget Average (2016-2020) and Future 10-year Capital Rates Budget Average (2021-2030) includes Grants.  
Approved Budget includes investment to existing infrastructure (excludes Maintenance, System Enhancement and Growth).*

# STATE OF VERTICAL INFRASTRUCTURE



Clearwell at Woodward WTP (1931) / expanded (1973)  
Capital repairs \$4.5M / Asset value \$36.5M

North Digester Complex at Woodward WWTP (1964)  
Capital repairs \$23.7M + life cycle replacement value \$62.4M



# GENERAL SYSTEM FAILURES



**Watermain break – Main St.**



**Sewer lateral damage – Markland St.**



**Sanatorium SW inlet / outlet – Rice Ave. & Sanatorium**



**Watermain break – Waterdown (Dundas St.)**



**Regulator repair – Campbell Ave/Fraser Ave.**



**Chedoke SW inlet / outlet – near Chedoke golf course**



## Watermain breaks outside the roadway - \$1.75M



249 York Rd - Dundas  
\$690,249



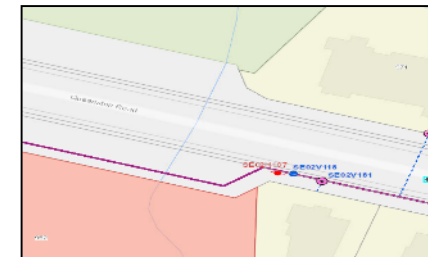
329 Mill St – Dundas  
\$280,028



Red Hill Creek  
\$181,208



118 Guildwood - Hamilton  
\$394,242



952 Queenston Rd – Stoney Creek  
\$183,490



# KENILWORTH RESERVOIR – CONTAMINATED SOILS

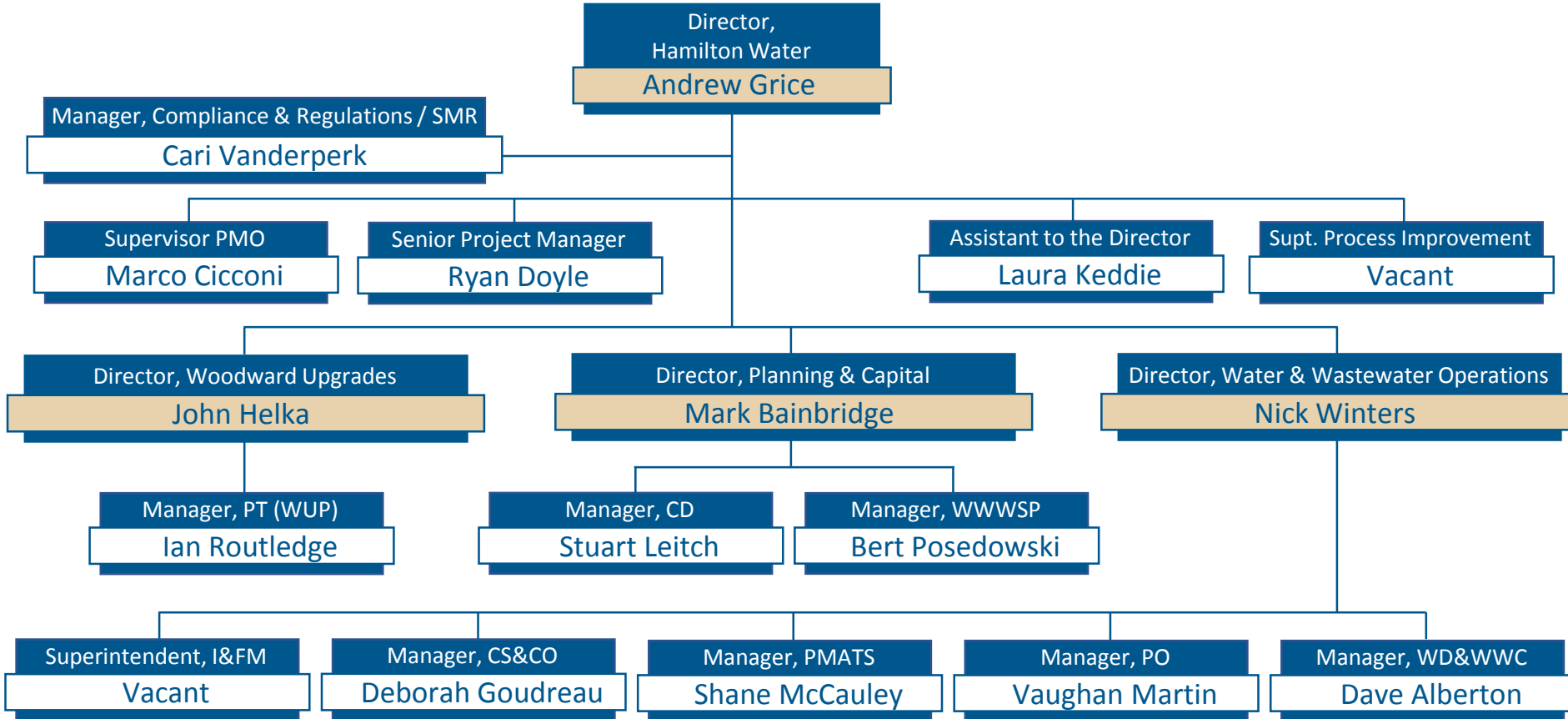


OPTION 1 – REMOVE/REPLACE CONTAMINATED SOILS		OPTION 2 – REUSE CONTAMINATED SOILS	
PRO'S	CON'S	PRO'S	CON'S
Minimizes any future water quality issues	High cost – removal and replacement	Low cost – reuse of Soils	Potential future water quality risks
Reduces operational burden of more frequent interior reservoir inspections	-	-	More frequent interior reservoir inspections
Community acceptance – no contaminated soil on a drinking water reservoir	-	-	Community acceptance – contaminated soil on a drinking water reservoir
Reduces drinking water testing requirements	-	-	Increases drinking water testing costs
<b>COST</b> - Up to \$6.5M to remove contaminated soils and replace with clean fill		<b>COST</b> - \$200,000 to \$300,000 / year	
<b>FUNDING SOURCE</b> – Reserves		<b>FUNDING SOURCE</b> – Operating budget	

# 2021 OPERATING BUDGET

## HAMILTON WATER

# ORGANIZATIONAL CHART

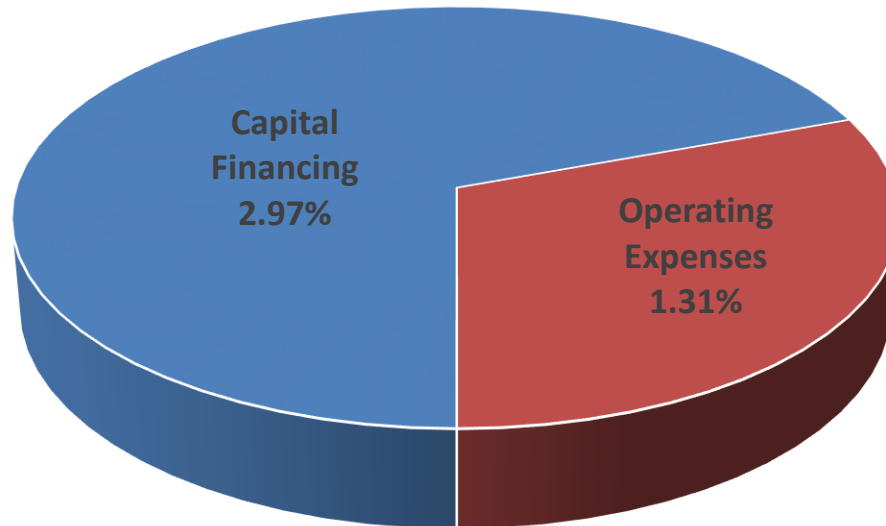


Complement (FTE)	Total
2020	324.65
2021 (Request)	338.65
Change: 2020 - 2021	+14

# 2021 PROPOSED RATE INCREASE

## Drivers of 4.28% Rate Increase

### Proposed rate increase - 4.28%



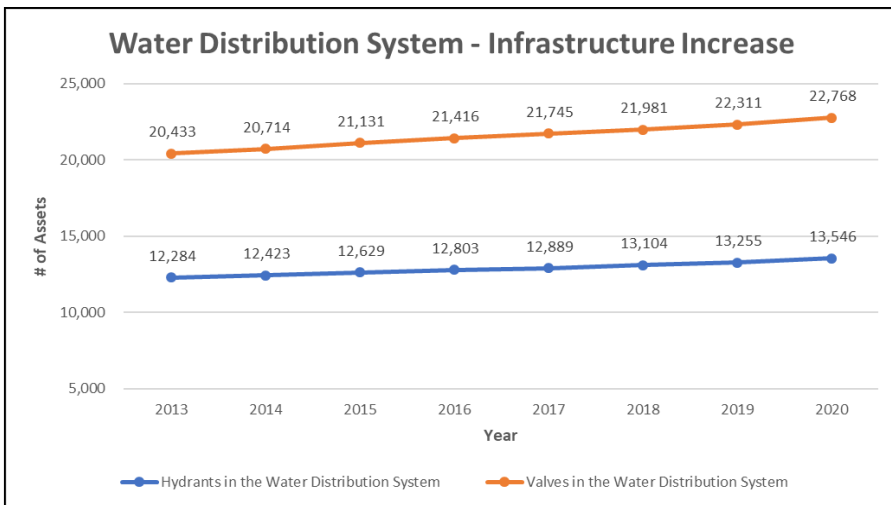
- ❖ Operating expenditures have been aligned with historical actuals
- ❖ Approximately 90% of operating expenditures are fixed in nature
- ❖ 2021 rate budget capital and operating expenses
  - Capital expenses - \$154M
  - Operating expenses - \$91M



# OPERATING IMPACTS FROM CAPITAL



- ❖ Woodward upgrades project – new facilities in operation (2021 & 2022)
- ❖ Lynden drinking water system – new facility
- ❖ Increased operational costs due to lagging capital rehabilitation program
- ❖ Stormwater ponds – newly assumed ponds from developments
- ❖ General system growth
  - Hydrants
  - Valves
  - Sewers
  - Watermains
  - Electricity Costs
  - Chemical Costs



# PRESSURES / RISKS NOT IN THE 2021 BUDGET



- ❖ Flooding and drainage master servicing study capital upgrades
- ❖ Stormwater management
  - Contaminated pond soils
  - Gaps in existing program
- ❖ Climate change
  - Flooding
  - Frozen water services
  - High lake water levels
- ❖ Unidentified projects
  - Development pressures
- ❖ Accelerated lead service removal

# 2021 RESOURCE REQUEST

SECTION		Previous 2021 Forecast	This Years 2021 Request
WUP Office		0	0
WUP Operations		3	3
DIR Office		0	0
C&R		4	1
PMO		0	1
P&C	CD	0	1
	WWWSP	0	0
Operations	PMATS	0	0
	PO	1	0
	CS&CO	2	2
	WDWWC	2	6
TOTALS		12	14

1 Millwright, 1 Instrument Tech,  
1 Electrician

1 Environmental  
Enforcement Officer

1 Capital Budget Coordinator  
(Temp. to Perm.)

1 Technologist (Temp. to Perm.)

1 BFP Officer, 1 PM Outreach  
and Education (Temp. to Perm.)

1 WDO, 1 Equipment Operator,  
2 Labourer/Truck Drivers  
2 Stormwater Technologists

## 2021 – FTE SAVINGS

FTE Request	Net Impact to Budget
<ul style="list-style-type: none"> <li>❖ Stormwater Program transferred to Hamilton Water in 2019               <ul style="list-style-type: none"> <li>• External consultants utilized for a variety of activities</li> <li>• Internal Hamilton Water staff can provide same service for reduced costs</li> <li>• Recommendation – 2 Stormwater Technologists</li> </ul> </li> </ul>	\$330,000/year Reduction
<ul style="list-style-type: none"> <li>❖ Water Distribution construction activities               <ul style="list-style-type: none"> <li>• 2019 BMA report to Audit Finance and Administration Committee</li> <li>• Additional construction crew would reduce costs</li> <li>• Recommendation – 4 Water Distribution operations staff</li> </ul> </li> </ul>	\$620,000/year Reduction
<ul style="list-style-type: none"> <li>❖ Environmental monitoring and enforcement               <ul style="list-style-type: none"> <li>• Program has been expanded to provide better control of ICI and construction sewer discharges</li> <li>• Additional revenue generated through sewer discharge permits to offset operational costs</li> <li>• Recommendation – 1 Environmental Enforcement Officer</li> </ul> </li> </ul>	Full annual cost recovery + environmental protection

# 2021 - 2025 RESOURCE REQUEST

SECTION		Previous 2021 Forecast	This Years 2021 Request	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast
WUP Office		0	0	0	0	0	0
WUP Operations		3	3	0	0	0	0
Director Office		0	0	0	0	0	0
C&R		4	1	1*/3	2*	1*	1
PMO		0	1	1	0	0	0
P&C	CD	0	1	0	0	0	0
	WWSP	0	0	1	2	1	0
Operations	PMATS	0	0	2	0	0	2
	PO	1	0	1	0	3	0
	CS&CO	2	2	0	0	0	0
	WDWWC	2	6	2	0	1	1
	IFM	0	0	0	1	0	0
TOTALS		12	14	10/1*	3/2*	5/1*	4

### **(3) 1 Millwright, 1 Electrician, 1 Instrumentation Technician – *Plant Maintenance & Technical Services***

- ❖ Maintenance of large, complex water/wastewater treatment infrastructure constructed as part of the Woodward Upgrades Project
- ❖ Staff required to support increase in facility maintenance demands

### **(4) 1 Water Distribution Operator, 1 Equipment Operator, 2 Labourer/Truck Drivers – *Water Distribution and Wastewater Collection***

- ❖ Crew for substandard water service replacement program (e.g. lead services)
- ❖ Shift from 100% contracted model to hybrid model of Contractor and City forces
- ❖ Estimated to complete 50% of lead service replacements per year

### **(2) Stormwater Technologists – *Water Distribution and Wastewater Collection***

- ❖ Administration of maintenance, capital repair and management of stormwater management facilities (SWMF), drainage easements, municipal drains, and select sections of shoreline and watercourses.
- ❖ Monitoring, inspection, and forecasting future clean outs of stormwater assets (e.g. 134 wet/dry ponds, 148km of watercourse, 630m of shoreline)
- ❖ Maintain regulatory compliance

## **(1) Capital Budget Coordinator – *Project Management Office***

- ❖ Maintain current levels of project controls
- ❖ Support expansion of project services to additional capital/operating teams
- ❖ Provides internal project support with legal, procurement, capital and operating teams

## **(1) Backflow Prevention Officer – *Customer Service and Community Outreach***

- ❖ Administer and enforce the backflow prevention bylaw
- ❖ Protects drinking water system by ensuring functional backflow devices are in place
- ❖ Program continues to expand in line with City growth

## **(1) Outreach and Education Project Manager – *Customer Service and Community Outreach***

- ❖ Responsible for various outreach initiatives including ongoing support – ex. corrosion control, lead water service awareness, flushables
- ❖ Future outreach initiatives including ongoing support – ex. flood mitigation, wastewater/combined sewage/stormwater infrastructure, spills/dumping to storm sewer catch basins
- ❖ Supports youth and adult education programs
- ❖ Liaison with Councillors and escalated resident/customer inquiries

## **(1) Technologist – *Capital Delivery***

- ❖ Supports Project Managers with design and construction activities such as regulatory approvals and construction inspections
- ❖ Supports water/wastewater capital works and future stormwater capital works
- ❖ Reduced engineering fees for site inspection

## **(1) Environmental Enforcement Officer – *Compliance & Regulations***

- ❖ Accommodate system growth to enforce construction dewatering and sewer use by-law programs
- ❖ Generates revenue through sewer discharge permits
- ❖ Supports emergency spills response program



# WOODWARD UPGRADES PROJECT

## PAST RESOURCE REQUESTS

### Original 2016 WUP Request

- 2 FTE in 2018
- 9 FTE in 2020



Total Request: 11 FTEs

- 1 SCADA Technologist
- 1 Data Clerk
- 5 Maintenance Operators
- 2 Millwrights
- 2 Instrumentation Technicians

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### 2017/2019/2020 WUP Request

Advanced FTE requests as temporary positions to assist in the delivery of the project

- 3 FTE in 2017
- 1 FTE in 2019
- 4 FTE in 2020



Total Request: 8 FTEs

- 1 SCADA Technologist
- 1 Process Supervisor
- 1 Process Technologist
- 5 Maintenance Operator's

*3 FTE approved during 2017 Budget, 1 FTE approved during 2019 budget & 4 FTE approved in 2020 budget*

### 2021 WUP Request

- Total requests: 3 FTE (Instrument Tech., Millwright, Electrician)

**Total Requests: 8 FTEs approved (2017/2019/2020) + 3 FTE (2021) = 11 FTEs**



THANK YOU





# 2021 Water, Wastewater and Stormwater Budget

# Rate Budget



Consumption

Legislative Framework

Strategic Plan and Term of Council Priorities



Growth and Development Charges

Canada / Ontario Government Programs

Non Rate Revenues

Rate Revenues – Fixed and variable Consumption Based

Reserves

Debt

# 2021 RATE BUDGET - What your dollars provide



# 2021 RATE BUDGET

## Snap Shot

### Operating

- **\$245.6 M** Total Program Expenditures
- **\$242.7 M** Rate Revenue
- **\$2.9 M** Non-Rate Revenue

### Capital

- **\$299.9 M** Rate Capital Program
  - 56% Wastewater
  - 34% Water
  - 10% Storm
- **\$2.53 B** capital investment forecast (2021 to 2030)
- **\$0.04 B** increase from last year's 10-year forecast

Recommended Combined Rate  
Increase 4.28%  
Approved-in-Principle

# 2021 RATE BUDGET

# 2021 RATE OPERATING BUDGET

## By the Numbers

<b>Summary of the 2021 Operating Budget</b>				
(\$ millions)	2020 Restated Budget	2021 Requested Budget	2021 Requested / 2020 Restated Change	
			\$	%
<b><u>Expenditures</u></b>				
Program Expenditures	\$ 86.7	\$ 90.7	\$ 3.9	4.5%
Capital/Debt / Reserve Financing	\$ 146.3	\$ 154.9	\$ 8.6	5.9%
<b>Total Expenditures</b>	<b>\$ 233.0</b>	<b>\$ 245.6</b>	<b>\$ 12.5</b>	<b>5.4%</b>
<b><u>Revenues</u></b>				
Rate Revenue	\$ 230.0	\$ 242.7	\$ 12.7	5.5%
Non-Rate Revenue	\$ 3.0	\$ 2.9	(\$ 0.2)	( 0.1%)
<b>Total Revenue</b>	<b>\$ 233.0</b>	<b>\$ 245.6</b>	<b>\$ 12.5</b>	<b>5.4%</b>
<b>Average Residential Water / Wastewater / Storm Bill</b>	<b>\$ 752.60</b>	<b>\$ 784.80</b>	<b>\$ 32.20</b>	<b>4.28%</b>

*Note: Anomalies due to rounding.*



# 2021 RATE CAPITAL BUDGET

## Sources of Funding

\$ 24.2 M Grants, Subsidies & Other Revenues +  
\$ 77.0 M Development Charges +  
\$125.4 M from Operating +  
\$ 14.6 M Reserves +  
\$ 10.7 M Work-in-progress (WIP) +  
\$ 48.0 M Debt

= **\$299.9 M** Gross Capital Funding

# 2021 METERED ACCOUNTS & REVENUE BY SECTOR

Where the \$ come from

## Metered Accounts by Sector



**RESIDENTIAL**  
93%



**ICI & MR**  
7%

## Revenue by Sector



**RESIDENTIAL**  
49%

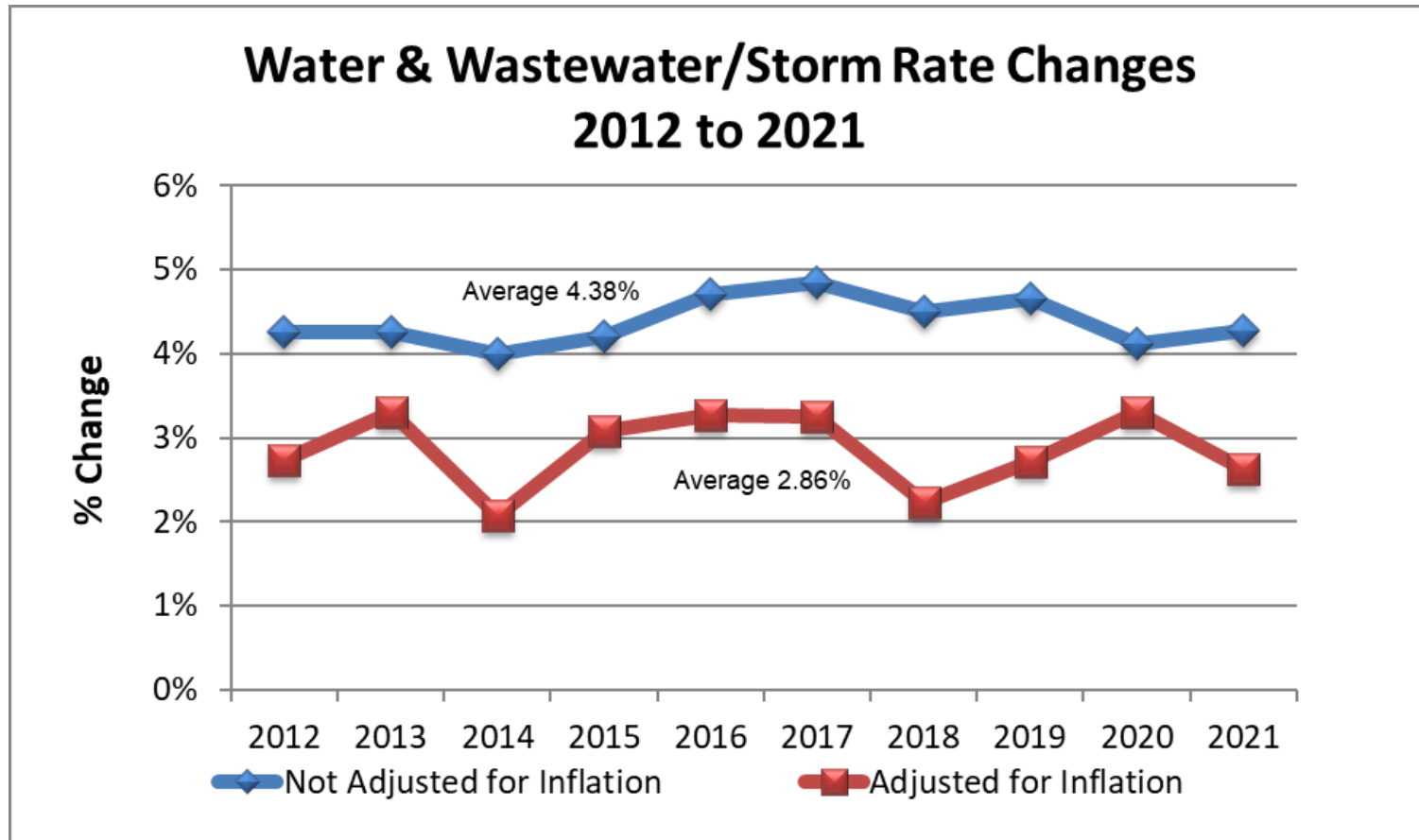


**ICI &  
Multi Residential**  
51%

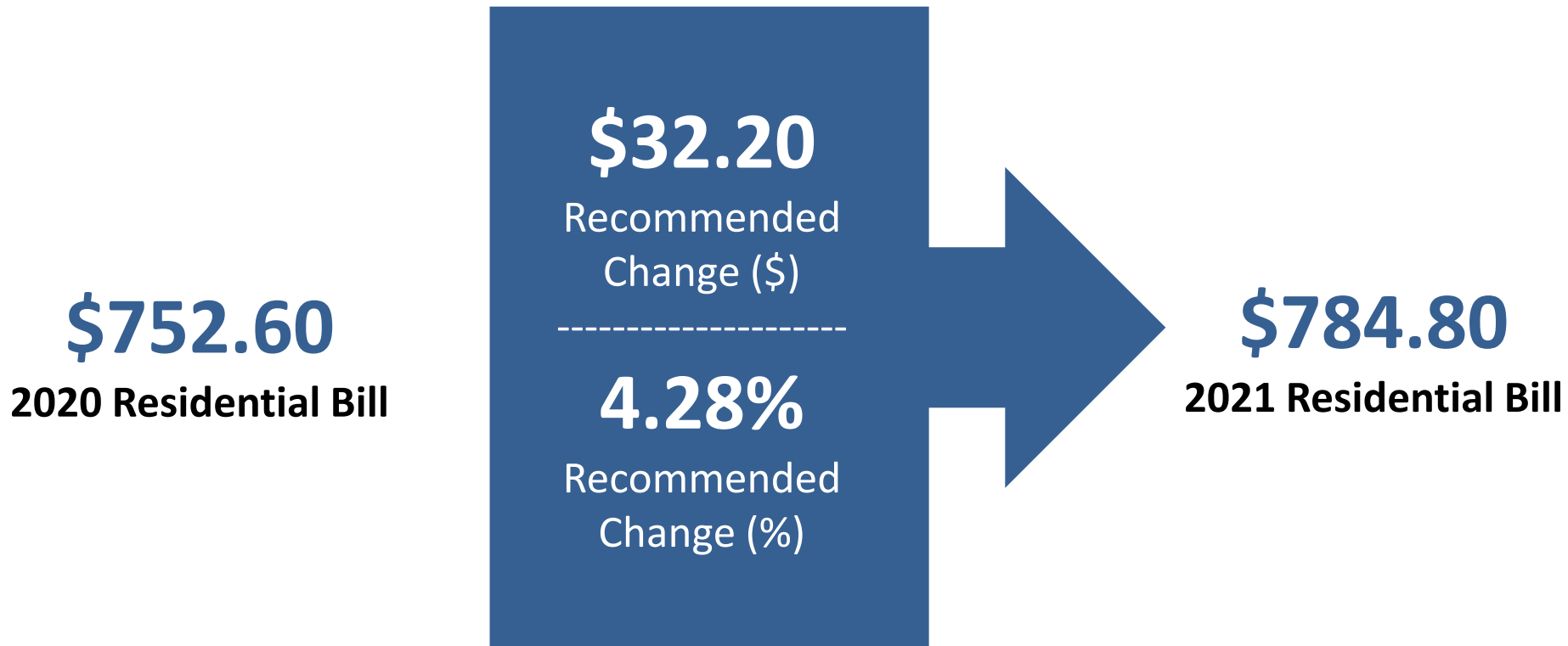
# RATE INFORMATION AT A GLANCE

# 10 YEAR RATE INCREASE TREND

By the numbers



# 2021 RESIDENTIAL AVERAGE BILL



**Impact of Recommended 2021 Water and Wastewater/Storm Rate Increases on a Typical Residential Bill: 4.28%**

*Based on annual water consumption of 200m<sup>3</sup>*

# CONSUMPTION TRENDS AT A GLANCE

# RESIDENTIAL WATER CONSUMPTION



**2012**

**2020**

+ 12,800 accounts  
10% increase



**2012**

**2020**

1% decrease  
in consumption

# 4 YEAR WATER CONSUMPTION FORECAST (M<sup>3</sup>)



(Aldershot  
Water Only)

(Caledonia & Cayuga  
Water Only)

2021 → 2024

2021 → 2024

2021 → 2024

2021 → 2024

**SLIGHT GROWTH**

**CONSISTENT**

**CONSISTENT**

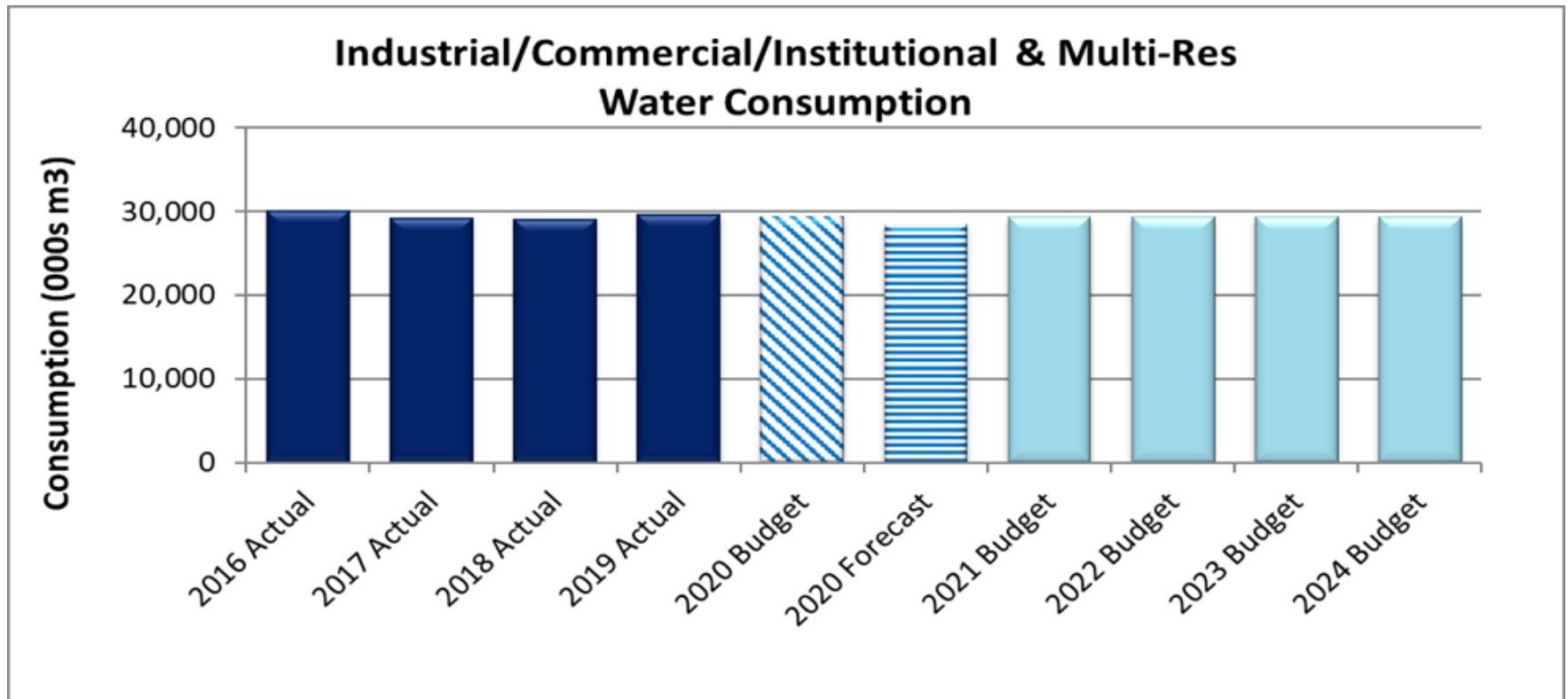
**CONSISTENT**

**Residential**

**ICI/ Multi Res**



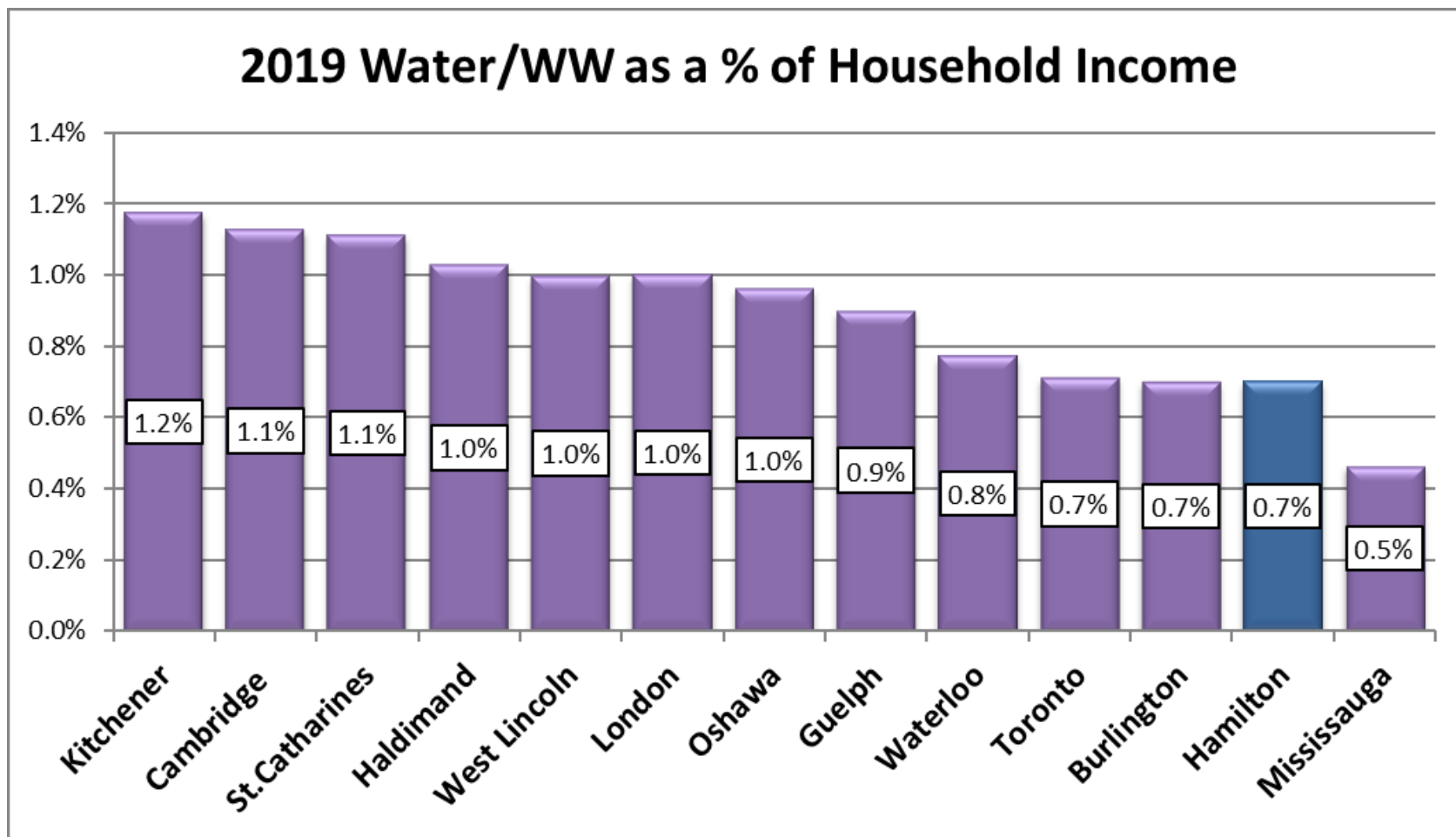
# ICI & MR CONSUMPTION FORECAST



**Consumption remains very consistent at just under 30M m<sup>3</sup>**

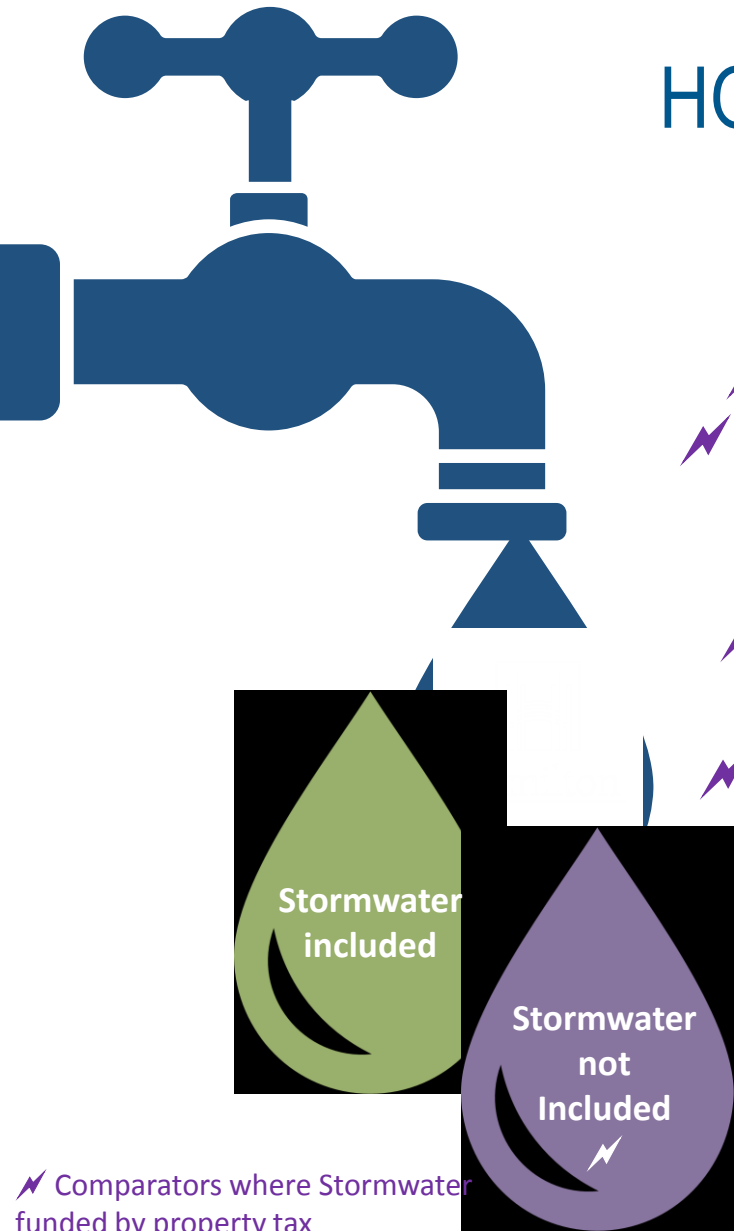
# MUNICIPAL COMPARATORS

# HOW DOES HAMILTON COMPARE?



Source: BMA Management Consulting Inc. – Municipal Study 2019

# HOW DOES HAMILTON COMPARE?



- Kitchener: \$1,503**
- ⚡ **Norfolk: \$1,366**
- ⚡ **Cambridge: \$1,171**
- ⚡ **West-Lincoln: \$1,168**
- London: \$1,113**
- Waterloo: \$1,040**
- ⚡ **Haldimand: \$1,038**
- Guelph: \$998**
- ⚡ **St. Catharines: \$974**
- ⚡ **Brantford: \$943**
- ⚡ **Durham: \$913**
- ⚡ **Halton: \$902**
- Toronto: \$815**
- Hamilton: \$753**
- Peel: \$632**

## 2020 Water Bill Residential

200m<sup>3</sup>/ (year)

Survey Average  
\$1,022

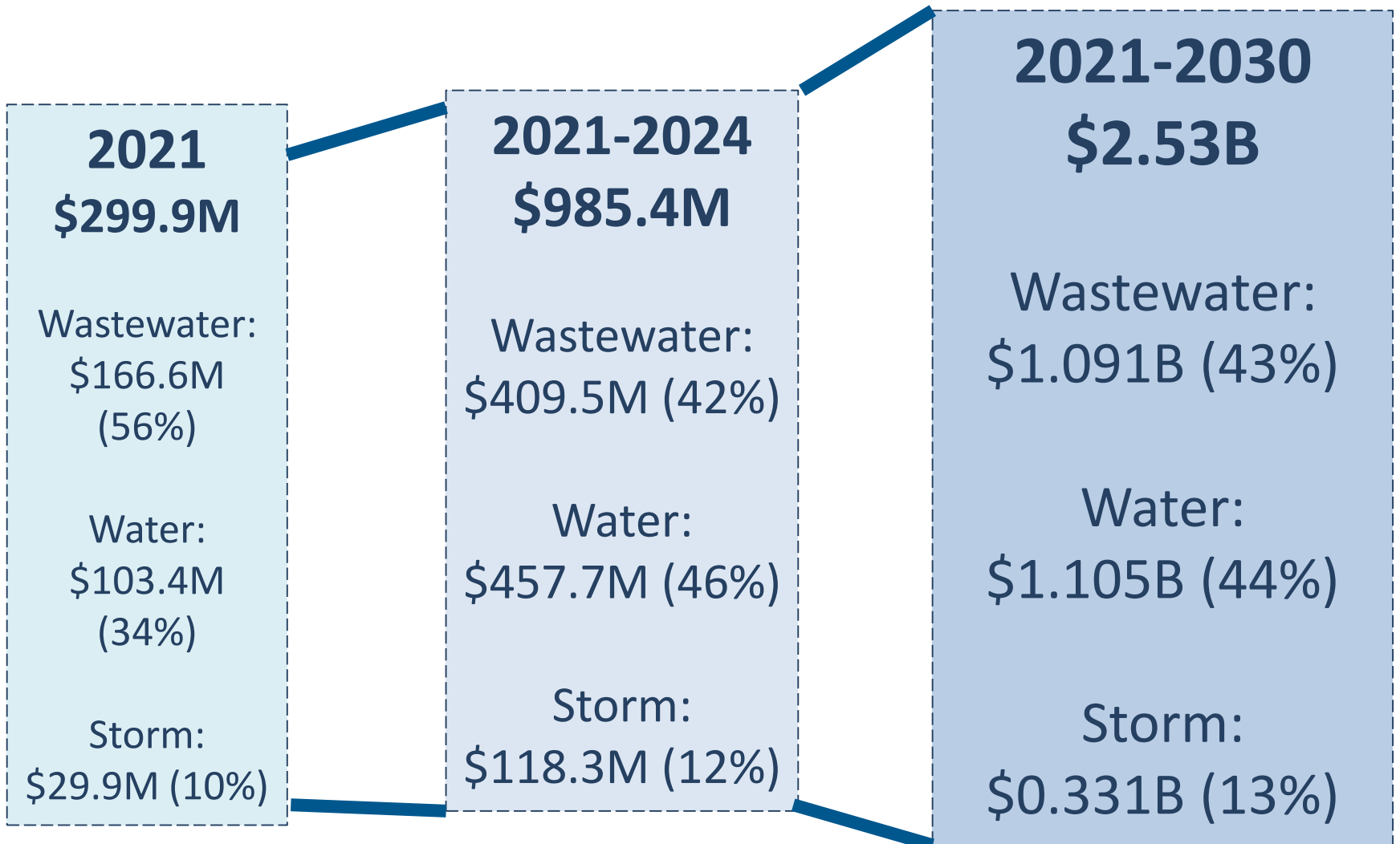
Hamilton provides **three** services for less than some municipalities which offer **two**

⚡ Comparators where Stormwater funded by property tax

# CAPITAL INVESTMENT AT A GLANCE

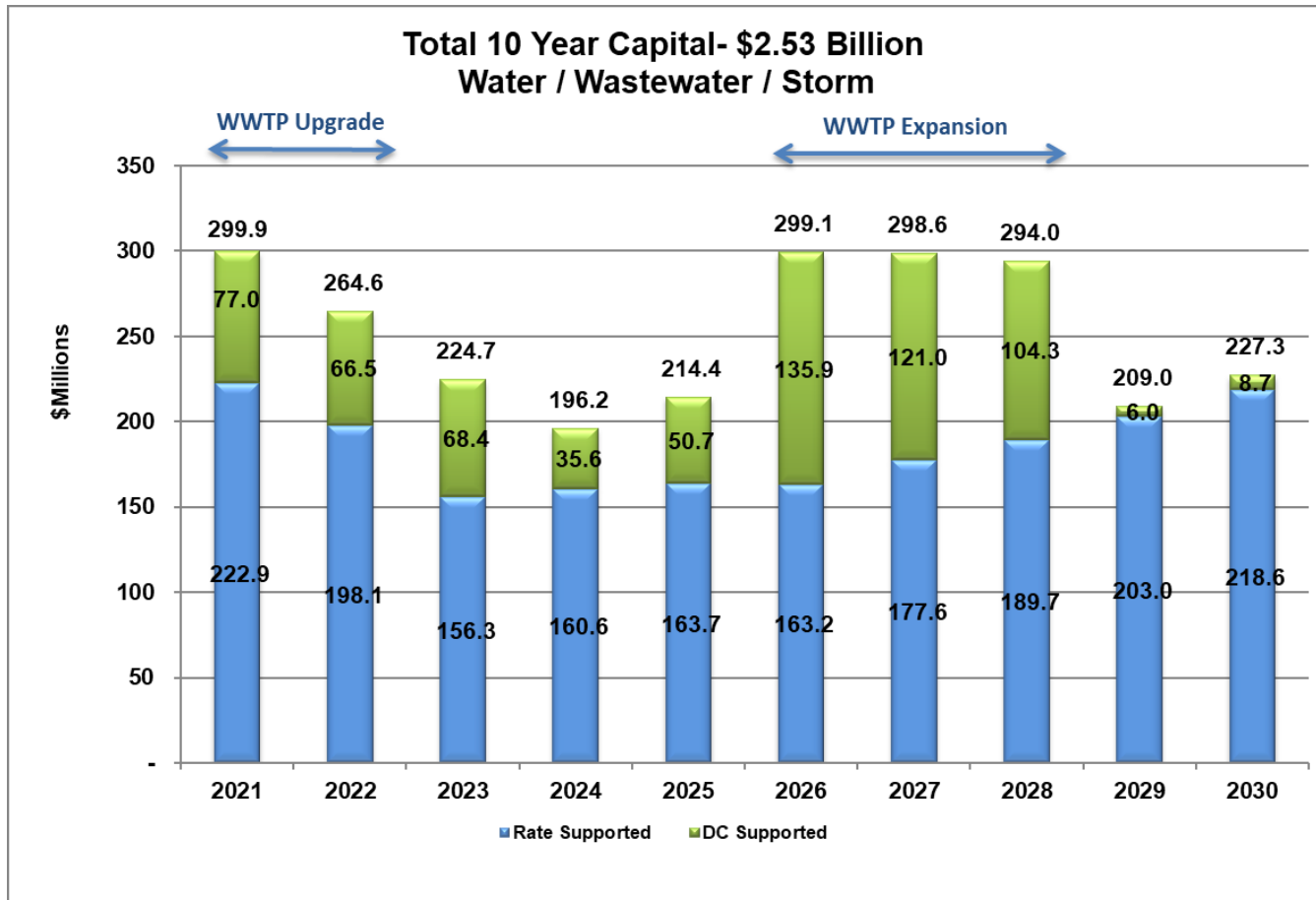
# LONG TERM CAPITAL PROGRAM

## At a Glance



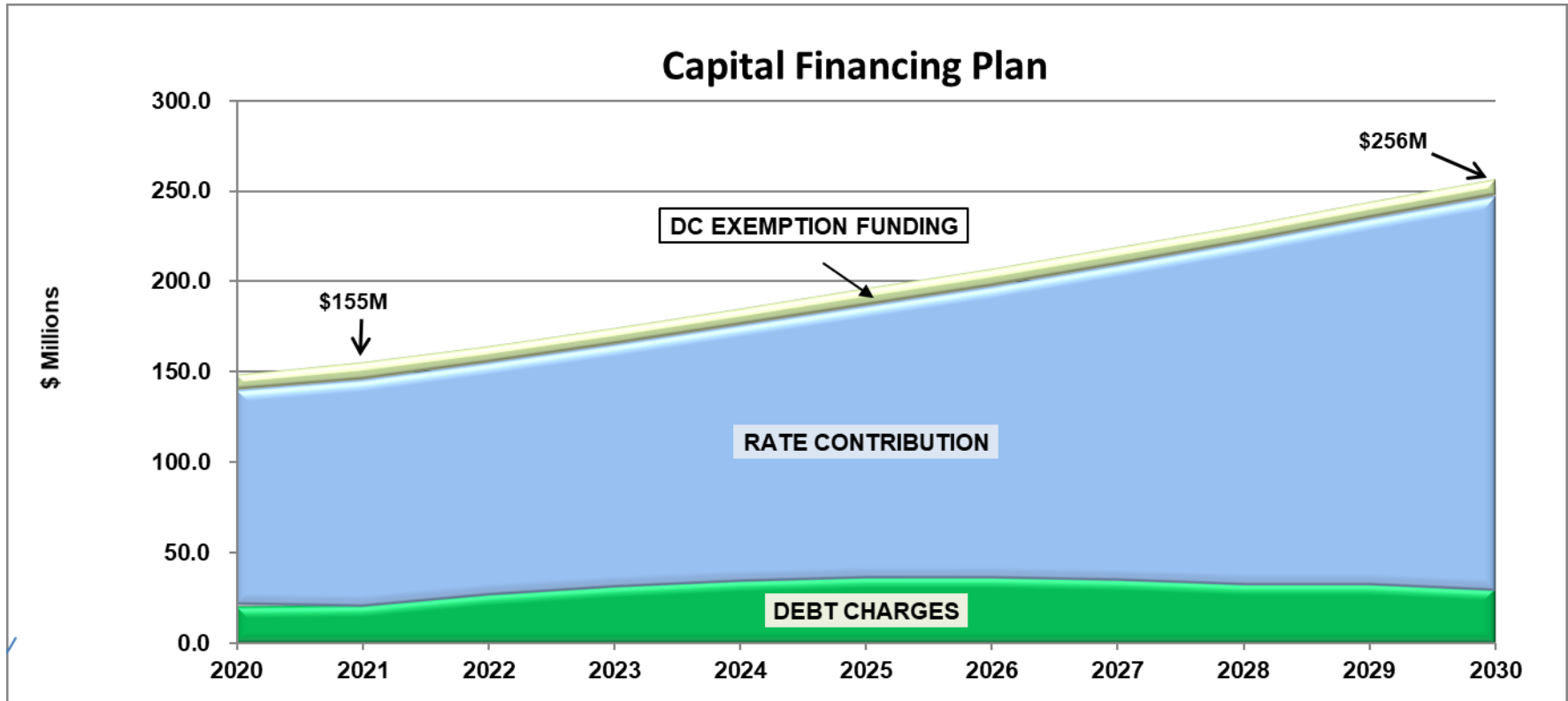
# 10 YEAR CAPITAL PROGRAM

## How much we plan to spend



# 10 YEAR CAPITAL STRATEGY

## How will we pay for it



**Contribution to capital increasing from \$155M in 2021 to \$256M in 2030**

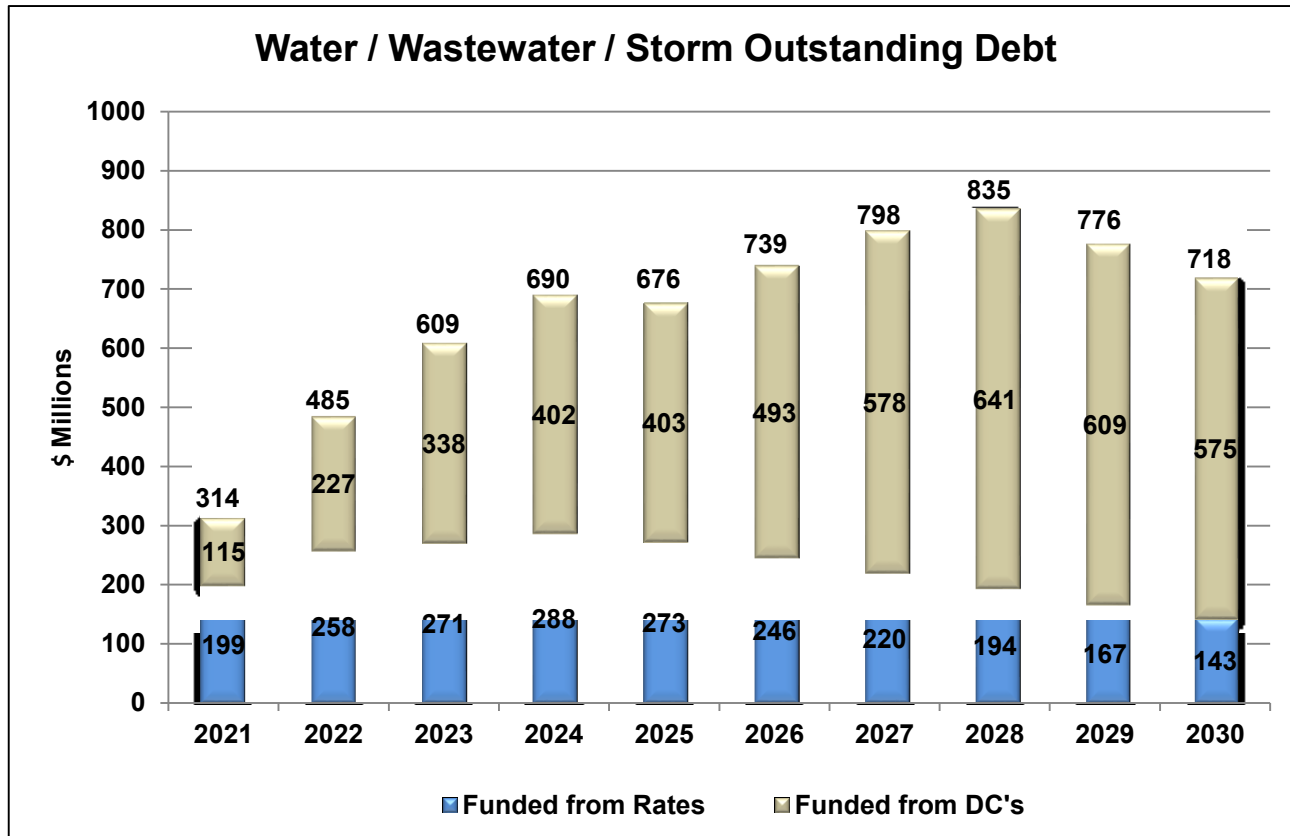
*Largely due to increase in capital construction*



# DEBT FUNDING AT A GLANCE

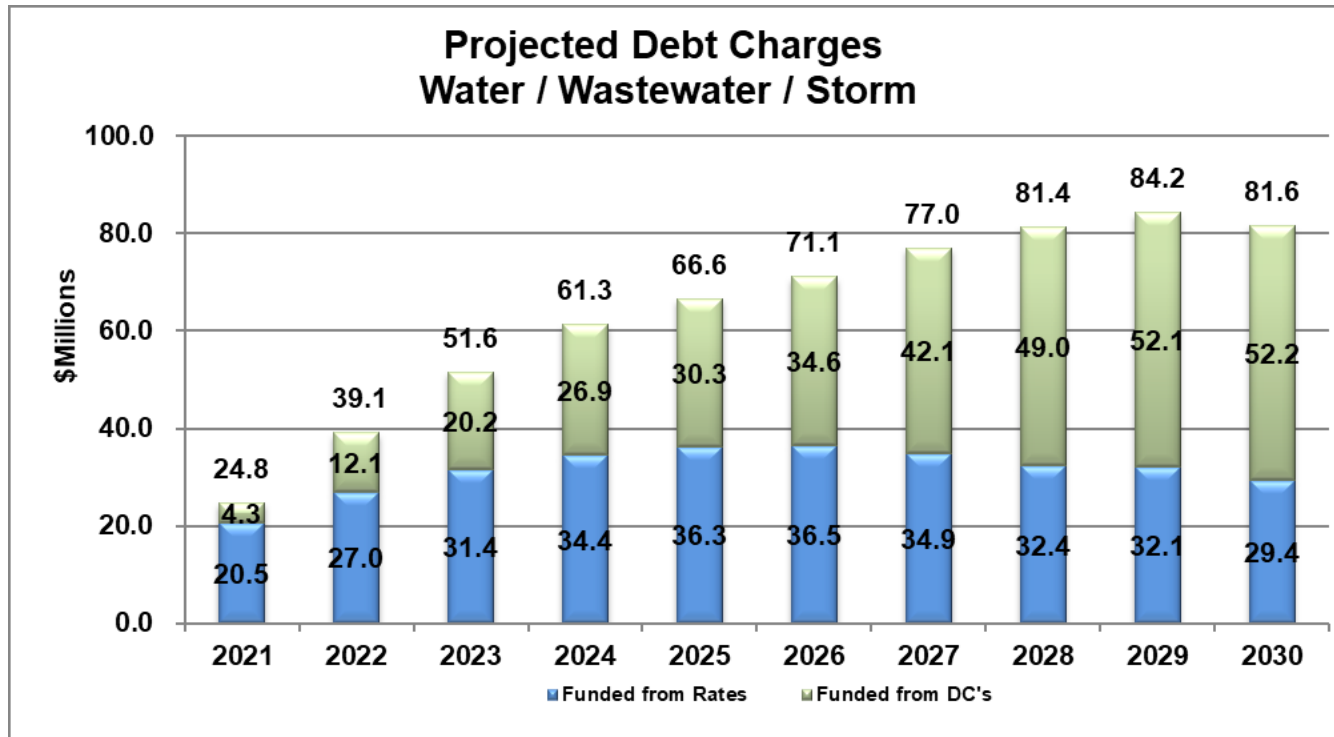
# 10 YEAR CAPITAL STRATEGY

## What does our debt look like?



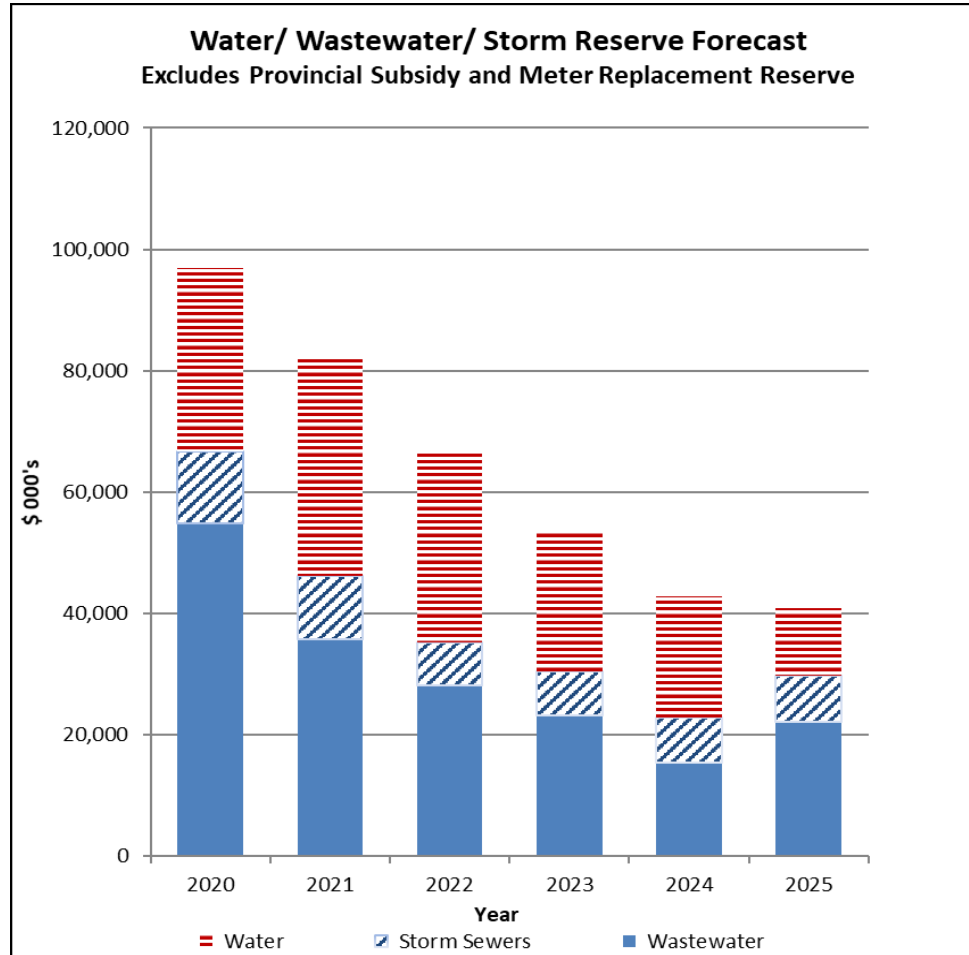
# 10 YEAR CAPITAL STRATEGY

## How much does our debt cost?



# 10 YEAR CAPITAL STRATEGY

## How much reserves will we use?



**Suggested amendments to the Rate Budget include:**  
Kenilworth Reservoir Soil Contamination

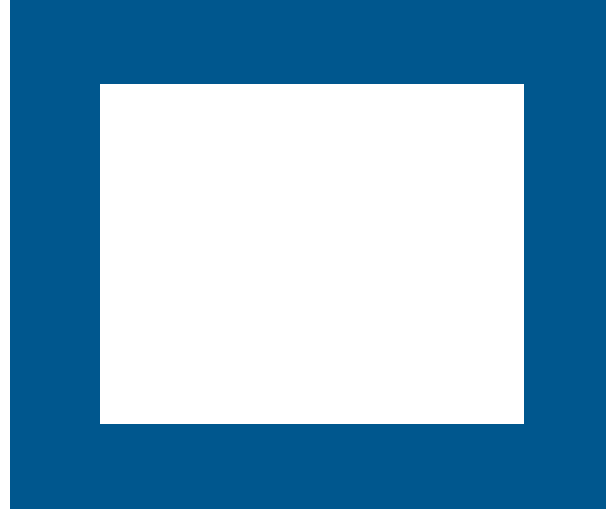
**Recommendations:**

Gross project cost for Kenilworth Reservoir Soil Contamination of up to \$6.5M with funding from Waterworks Reserve 108015 be approved in the 2021 Budget

- Nov 25, 2020 Council Approval of 2021 Rate Budget
- Dec 1, 2020 GIC Rate Budget Meeting (note 1)
- Dec 16, 2020 Council Approval of 2021 Rate Budget (note 2)

Note:

1. If needed
2. Council approval of the 2021 Rate Budget on Dec 16, 2020, if it is not approved at GIC on Nov 23, 2020



THANK YOU

# CITY OF HAMILTON MOTION

General Issues Committee (Budget): November 23, 2020

**MOVED BY COUNCILLOR J. P. DANKO.....**

**SECONDED BY MAYOR / COUNCILLOR.....**

## **Stormwater Gap Evaluation**

WHEREAS, stormwater management is an essential service provided by the City of Hamilton that protects the property, livelihood, safety and health of residents, businesses, infrastructure and natural waterways in every part of the City;

WHEREAS, Climate Change mitigation requirements and current extreme weather events have punctuated the importance of a robust and functional stormwater management system throughout the City;

WHEREAS, there was a reorganization in 2019 that resulted in the Hamilton Water Division assuming responsibility for a number of Stormwater programs and projects;

WHEREAS, the existing assets managed by Hamilton Water include stormwater management facilities, municipal drains, watercourses, drainage easements, pumping stations, sections of shoreline, combined sewer overflow (CSO) tanks and outfalls;

WHEREAS, Hamilton Water expects to assume operation of 25 additional stormwater management facilities in the next few years;

WHEREAS, there are known and unknown gaps in the existing stormwater programs, particularly with respect to maintaining a sustainable level of service; and,

WHEREAS, asset management data is essential to the long-term performance of City infrastructure and reliable, stable financial strategy;

**THEREFORE, IT BE RESOLVED:**

That Hamilton Water staff be directed to perform a comprehensive evaluation of all City stormwater programs to identify existing gaps, immediate needs, risks to the City including risks from Climate Change and extreme weather, outline the levels of service that the City should strive to achieve, quantify funding requirements along with options for long term maintenance, second cycle replacements and financing alternatives and report back to Public Works Committee in the first quarter of 2021 with an information report.