



City of Hamilton
GENERAL ISSUES COMMITTEE
AGENDA

Meeting #: 21-025
Date: November 22, 2021
Time: 9:30 a.m.
Location: Due to the COVID-19 and the Closure of City Hall (CC)

All electronic meetings can be viewed at:

City's Website:
<https://www.hamilton.ca/council-committee/council-committee-meetings/meetings-and-agendas>

City's YouTube Channel:
<https://www.youtube.com/user/InsideCityofHamilton> or Cable 14

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

	Pages
1. APPROVAL OF AGENDA	
2. DECLARATIONS OF INTEREST	
3. APPROVAL OF MINUTES OF PREVIOUS MEETING	
3.1. November 8, 2021	3
4. COMMUNICATIONS	
5. CONSENT ITEMS	
5.1. Alectra Utilities Water, Wastewater and Storm 2021 Service Activity Report (FCS21089) (City Wide)	11
<p>NOTE: As there will no longer be a presentation to accompany this report, it has been moved to Consent.</p>	
6. STAFF PRESENTATIONS	

6.1. 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide)

22

- 7. DISCUSSION ITEMS
- 8. MOTIONS
- 9. NOTICES OF MOTION
- 10. GENERAL INFORMATION / OTHER BUSINESS
- 11. PRIVATE & CONFIDENTIAL
- 12. ADJOURNMENT



GENERAL ISSUES COMMITTEE (BUDGET) MINUTES 21-022

3:00 p.m.

November 8, 2021

Due to COVID-19 and the closure of City Hall, this meeting was held virtually.

Present: Mayor F. Eisenberger, Deputy Mayor M. Pearson (Chair)
Councillors M. Wilson, J. Farr, N. Nann, S. Merulla, T. Jackson,
E. Pauls, J. P. Danko, B. Clark, B. Johnson, A. VanderBeek

Absent: Councillors T. Whitehead. L. Ferguson – Personal
Councillor J. Partridge – Other City Business

THE FOLLOWING ITEMS WERE REFERRED TO COUNCIL FOR CONSIDERATION:

1. 2022 Budget, Public Engagement Process (FCS21110) (City Wide) (Item 5.1)

(Eisenberger/Clark)

That Report FCS21110, respecting the 2022 Budget, Public Engagement Process, be received.

Result: MOTION, CARRIED by a vote of 12 to 0, as follows:

Yes	-	Mayor Fred Eisenberger
Yes	-	Ward 1 Councillor Maureen Wilson
Yes	-	Ward 2 Councillor Jason Farr
Yes	-	Ward 3 Councillor Nrinder Nann
Yes	-	Ward 4 Councillor Sam Merulla
Vacant	-	Ward 5
Yes	-	Ward 6 Councillor Tom Jackson
Yes	-	Ward 7 Councillor Esther Pauls
Yes	-	Ward 8 Councillor J. P. Danko
Yes	-	Ward 9 Councillor Brad Clark
Yes	-	Ward 10 Councillor Maria Pearson
Yes	-	Ward 11 Councillor Brenda Johnson, Deputy Mayor
Absent	-	Ward 12 Councillor Lloyd Ferguson
Yes	-	Ward 13 Councillor Arlene VanderBeek
Absent	-	Ward 14 Councillor Terry Whitehead
Absent	-	Ward 15 Councillor Judi Partridge

FOR INFORMATION:

(a) APPROVAL OF AGENDA (Item 2)

The Committee Clerk advised of the following changes to the agenda:

4. COMMUNICATIONS

4.1 Respecting the 2022 Budget Process

- 4.1.a. Keanin Loomis, President and CEO, Hamilton Chamber of Commerce
- 4.1.b. United Way Halton and Hamilton
- 4.1.c. Sasha Katz

6. DELEGATION REQUESTS

6.1 Respecting the 2022 Budget Process

- 6.1.f. Claire Middel
- 6.1.g. Louise Concepcion
- 6.1.h. Kojo Dampsey, Hamilton Centre for Civic Inclusion
- 6.1.i. Violetta Nikolskaya, YWCA
- 6.1.j. Thomas Cooper, Hamilton Roundtable for Poverty Reduction
- 6.1.k. Dr. Lynda Lukasik, Environment Hamilton
- 6.1.l. Don McLean
- 6.1.m. Bill Foley
- 6.1.n. Karl Andrus, Hamilton Community Benefits Network
- 6.1.o. Ian Borsuk, Environment Hamilton
- 6.1.p. Sarah Jama, Disability Justice Network of Ontario
- 6.1.q. Gabriel Baribeau
- 6.1.r. Vic Wojciechowska
- 6.1.s. Matthew Higginson
- 6.1.t. Abedar Kamgari
- 6.1.u. Sarah Dawson
- 6.1.v. Katharine King
- 6.1.w. James Lambert
- 6.1.x. Zeinab Khawaja
- 6.1.y. Tanya Collins
- 6.1.z. Joanna Aitcheson
- 6.1.aa. Caitlin Thompson
- 6.1.ab. Sabreina Dahab
- 6.1.ac. Merima Menzildizic

6.2. Respecting the 2022 Budget Process - Video

- 6.2.a. Jonathan Lopez
- 6.2.b. Marnie Schurter
- 6.2.c. Michael Lopez
- 6.2.d. Laura Katz
- 6.2.e. Becky Katz

(Johnson/Pauls)

That the agenda for the November 8, 2021 General Issues Committee (Budget) meeting, be approved, as amended.

Result: MOTION, CARRIED by a vote of 12 to 0, as follows:

Yes	-	Mayor Fred Eisenberger
Yes	-	Ward 1 Councillor Maureen Wilson
Yes	-	Ward 2 Councillor Jason Farr
Yes	-	Ward 3 Councillor Nrinder Nann
Yes	-	Ward 4 Councillor Sam Merulla
Vacant	-	Ward 5
Yes	-	Ward 6 Councillor Tom Jackson
Yes	-	Ward 7 Councillor Esther Pauls
Yes	-	Ward 8 Councillor J. P. Danko
Yes	-	Ward 9 Councillor Brad Clark
Yes	-	Ward 10 Councillor Maria Pearson
Yes	-	Ward 11 Councillor Brenda Johnson, Deputy Mayor
Absent	-	Ward 12 Councillor Lloyd Ferguson
Yes	-	Ward 13 Councillor Arlene VanderBeek
Absent	-	Ward 14 Councillor Terry Whitehead
Absent	-	Ward 15 Councillor Judi Partridge

(b) DECLARATIONS OF INTEREST (Item 3)

There were no declarations of interest.

(c) COMMUNICATIONS (Item 4)

(i) Correspondence respecting the 2022 Budget Process (Item 4.1)

(VanderBeek/Merulla)

That the following Communication Items, respecting the 2022 Budget process, be received:

- (1) Keanin Loomis, President and CEO, Hamilton Chamber of Commerce (Item 4.1.a.)
- (2) United Way Halton and Hamilton (Item 4.1.a.)
- (3) Sasha Katz (Item 4.1.c.)

Result: MOTION, CARRIED by a vote of 12 to 0, as follows:

Yes	-	Mayor Fred Eisenberger
Yes	-	Ward 1 Councillor Maureen Wilson
Yes	-	Ward 2 Councillor Jason Farr
Yes	-	Ward 3 Councillor Nrinder Nann
Yes	-	Ward 4 Councillor Sam Merulla
Vacant	-	Ward 5
Yes	-	Ward 6 Councillor Tom Jackson
Yes	-	Ward 7 Councillor Esther Pauls
Yes	-	Ward 8 Councillor J. P. Danko
Yes	-	Ward 9 Councillor Brad Clark
Yes	-	Ward 10 Councillor Maria Pearson
Yes	-	Ward 11 Councillor Brenda Johnson, Deputy Mayor
Absent	-	Ward 12 Councillor Lloyd Ferguson
Yes	-	Ward 13 Councillor Arlene VanderBeek
Absent	-	Ward 14 Councillor Terry Whitehead
Absent	-	Ward 15 Councillor Judi Partridge

(d) DELEGATION REQUESTS (Item 6)

(i) Respecting the 2022 Budget Process (Items 6.1 and 6.2)

(Danko/Wilson)

That the following delegation requests, respecting the 2020 Budget process, be approved for the November 8, 2021 General Issues Committee (Budget) meeting:

- (1) Anthony Marco, Hamilton and District Labour Council, respecting the Living Wage (Item 6.1.a.)
- (2) Craig Burley (Item 6.1.b.)
- (3) Ayla Bahram (Item 6.1.c.)
- (4) Aya Younis (Item 6.1.d.)
- (5) Sam Fernandes (Item 6.1.e.)
- (6) Claire Middel (Item 6.1.f.)
- (7) Louise Concepcion (Item 6.1.g.)
- (8) Kojo Dampsey, Hamilton Centre for Civic Inclusion (Item 6.1.h.)
- (9) Violetta Nikolskaya, YWCA (Item 6.1.i.)

- (10) Thomas Cooper, Hamilton Roundtable for Poverty Reduction (Item 6.1.j.)
- (11) Dr. Lynda Lukasik, Environment Hamilton (Item 6.1.k.)
- (12) Don McLean (Item 6.1.l.)
- (13) Bill Foley (Item 6.1.m.)
- (14) Karl Andrus, Hamilton Community Benefits Network (Item 6.1.n.)
- (15) Ian Borsuk, Environment Hamilton (Item 6.1.o.)
- (16) Sarah Jama, Disability Justice Network of Ontario (Item 6.1.p.)
- (17) Gabriel Baribeau (Item 6.1.q.)
- (18) Vic Wojciechowska (Item 6.1.r.)
- (19) Matthew Higginson (Item 6.1.s.)
- (20) Abedar Kamgari (Item 6.1.t.)
- (21) Sarah Dawson (Item 6.1.u.)
- (22) Katharine King (Item 6.1.v.)
- (23) James Lambert (Item 6.1.w.)
- (24) Zeinab Khawaja (Item 6.1.x.)
- (25) Tanya Collins (Item 6.1.y.)
- (26) Joanna Aitcheson (Item 6.1.z.)
- (27) Caitlin Thompson (Item 6.1.aa.)
- (28) Sabreina Dahab (Item 6.1.ab.)
- (29) Merima Menzildizic (Item 6.1.ac.)
- (30) Jonathan Lopez – video (Item 6.2.a.)
- (31) Marnie Schurter – video (Item 6.2.b.)
- (32) Michael Lopez – video (Item 6.2.c.)
- (33) Laura Katz – video (Item 6.2.d.)
- (34) Becky Katz – video (Item 6.2.e.)

Result: MOTION, CARRIED by a vote of 11 to 0, as follows:

Yes	-	Mayor Fred Eisenberger
Yes	-	Ward 1 Councillor Maureen Wilson
Yes	-	Ward 2 Councillor Jason Farr
Yes	-	Ward 3 Councillor Nrinder Nann
Yes	-	Ward 4 Councillor Sam Merulla
Vacant	-	Ward 5
Yes	-	Ward 6 Councillor Tom Jackson
Absent	-	Ward 7 Councillor Esther Pauls
Yes	-	Ward 8 Councillor J. P. Danko
Yes	-	Ward 9 Councillor Brad Clark
Yes	-	Ward 10 Councillor Maria Pearson
Yes	-	Ward 11 Councillor Brenda Johnson, Deputy Mayor
Absent	-	Ward 12 Councillor Lloyd Ferguson
Yes	-	Ward 13 Councillor Arlene VanderBeek
Absent	-	Ward 14 Councillor Terry Whitehead
Absent	-	Ward 15 Councillor Judi Partridge

(e) DELEGATIONS (Item 7)

(Nann/Farr)

That the following delegations, respecting the 2022 Budget process, be received:

- (1) Anthony Marco, Hamilton and District Labour Council, respecting the Living Wage (Item 7.1.a.)
- (2) Craig Burley (Item 7.1.b.)
- (3) Ayla Bahram (Item 7.1.c.)
- (4) Aya Younis (Item 7.1.d.)
- (5) Sam Fernandes (Item 7.1.e.)
- (6) Claire Middel (Item 7.1.f.)
- (7) Louise Concepcion (Item 7.1.g.)
- (8) Kojo Dampsey, Hamilton Centre for Civic Inclusion (Item 7.1.h.)
- (9) Violetta Nikolskaya, YWCA (Item 7.1.i.)
- (10) Thomas Cooper, Hamilton Roundtable for Poverty Reduction (Item 7.1.j.)
- (11) Dr. Lynda Lukasik, Environment Hamilton (Item 7.1.k.)
- (12) Don McLean (Item 7.1.l.)
- (13) Karl Andrus, Hamilton Community Benefits Network (Item 7.1.n.)
- (14) Ian Borsuk, Environment Hamilton (Item 7.1.o.)
- (15) Sarah Jama, Disability Justice Network of Ontario (Item 7.1.p.)
- (16) Gabriel Baribeau (Item 7.1.q.)
- (17) Vic Wojciechowska / Diana Wood (Item 7.1.r.)
- (18) Matthew Higginson (Item 7.1.s.)
- (19) Abedar Kamgari (Item 7.1.t.)
- (20) Sarah Dawson (Item 7.1.u.)
- (21) Katharine King (Item 7.1.v.)
- (22) James Lambert (Item 7.1.w.)
- (23) Zeinab Khawaja (Item 7.1.x.)
- (24) Tanya Collins / Annemarie Lavigne (Item 7.1.y.)
- (25) Joanna Aitcheson (for Stacey Easton) (Item 7.1.z.)
- (26) Caitlin Thompson (Item 7.1.aa.)
- (27) Sabreina Dahab / Talal Abdul Wahed (Item 7.1.ab.)
- (29) Merima Menzildizic (Item 7.1.ac.)
- (30) Jonathan Lopez – video (Item 7.2.a.)
- (31) Marnie Schurter – video (Item 7.2.b.)
- (32) Michael Lopez – video (Item 7.2.c.)
- (33) Laura Katz – video (Item 7.2.d.)
- (34) Becky Katz – video (Item 7.2.e.)

Bill Foley (Item 7.1.m.) was not present when called upon.

Result: MOTION, CARRIED by a vote of 11 to 0, as follows:

- | | | |
|-----|---|----------------------------------|
| Yes | - | Mayor Fred Eisenberger |
| Yes | - | Ward 1 Councillor Maureen Wilson |

General Issues Committee (Budget)
Minutes 21-022

November 8, 2021
Page 7 of 8

Yes	-	Ward 2	Councillor Jason Farr
Yes	-	Ward 3	Councillor Nrinder Nann
Absent	-	Ward 4	Councillor Sam Merulla
Vacant	-	Ward 5	
Yes	-	Ward 6	Councillor Tom Jackson
Yes	-	Ward 7	Councillor Esther Pauls
Yes	-	Ward 8	Councillor J. P. Danko
Yes	-	Ward 9	Councillor Brad Clark
Yes	-	Ward 10	Councillor Maria Pearson
Yes	-	Ward 11	Councillor Brenda Johnson, Deputy Mayor
Absent	-	Ward 12	Councillor Lloyd Ferguson
Yes	-	Ward 13	Councillor Arlene VanderBeek
Absent	-	Ward 14	Councillor Terry Whitehead
Absent	-	Ward 15	Councillor Judi Partridge

(f) ADJOURNMENT (Item 10)

(Danko/VanderBeek)

That there being no further business, the General Issues Committee, be adjourned at 5:42 p.m.

Result: MOTION, CARRIED by a vote of 12 to 0, as follows:

Yes	-	Mayor Fred Eisenberger	
Yes	-	Ward 1	Councillor Maureen Wilson
Yes	-	Ward 2	Councillor Jason Farr
Yes	-	Ward 3	Councillor Nrinder Nann
Absent	-	Ward 4	Councillor Sam Merulla
Vacant	-	Ward 5	
Yes	-	Ward 6	Councillor Tom Jackson
Yes	-	Ward 7	Councillor Esther Pauls
Yes	-	Ward 8	Councillor J. P. Danko
Yes	-	Ward 9	Councillor Brad Clark
Yes	-	Ward 10	Councillor Maria Pearson
Yes	-	Ward 11	Councillor Brenda Johnson, Deputy Mayor
Absent	-	Ward 12	Councillor Lloyd Ferguson
Yes	-	Ward 13	Councillor Arlene VanderBeek
Absent	-	Ward 14	Councillor Terry Whitehead
Absent	-	Ward 15	Councillor Judi Partridge

Respectfully submitted,

Maria Pearson, Deputy Mayor
Chair, General Issues Committee

Stephanie Paparella
Legislative Coordinator,
Office of the City Clerk



INFORMATION REPORT

TO:	Chair and Members General Issues Committee
COMMITTEE DATE:	November 22, 2021
SUBJECT/REPORT NO:	Alectra Utilities Water, Wastewater and Storm 2021 Service Activity Report (FCS21089) (City Wide)
WARD(S) AFFECTED:	City Wide
PREPARED BY:	John Savoia (905) 546-2424 Ext. 7298
SUBMITTED BY:	Brian McMullen Director, Financial Planning, Administration and Policy Corporate Services Department
SIGNATURE:	

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 Report FCS19095(a)).

On August 6, 2021, the City was advised that Alectra’s Board of Directors, at its May 21st meeting, approved an Alectra staff recommendation to discontinue water billing services. Alectra has committed to upholding the Water Billing Services Agreement with a focus on winding-down providing water billing services to the City at the time of contract expiry, being December 31, 2024. Refer to Report FCS21082 from the Audit Finance and Administration Committee meeting on October 7, 2021 for further details.

OUR Vision: To be the best place to raise a child and age successfully.

OUR Mission: To provide high quality cost conscious public services that contribute to a healthy, safe and prosperous community, in a sustainable manner.

OUR Culture: Collective Ownership, Steadfast Integrity, Courageous Change, Sensational Service, Engaged Empowered Employees.

SUBJECT: Alectra Utilities Water, Wastewater and Storm 2021 Service Activity Report (FCS21089) (City Wide) – Page 2 of 2

The budgeted cost of these services for 2021 is \$5.7 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 FCS21089 provides a report of the service activities provided by Alectra Utilities during 2021.

APPENDICES AND SCHEDULES ATTACHED

Appendix "A" to Report FCS21089 – 2021 Water and Wastewater / Stormwater Services Activity Report to the City of Hamilton – October 2021

JS/dt



2021 Water and Wastewater / Stormwater Services Activity Report to the City of Hamilton

October 2021

Christina Koren, Manager Billing

2021 in Review

Alectra Utilities Corporation ("Alectra") services approximately one million homes and businesses across an 1,800 square kilometers service territory comprising seventeen communities. Billing, payment, and related customer services are provided to 400,000 water and wastewater customers across four distinct municipalities, including 155,000 customers within the City of Hamilton. Approximately 32,000 City of Hamilton customers receive a stand-alone water services bill where the customer premise is outside of Alectra's electricity distribution service territory.

Improved Customer Friendly Messaging on Bills

- In Q1 – Alectra revised its bill presentment to ensure that low-income customers receiving the Ontario Electricity Support Program better understand their bills and water amounts owing
- In Q3 – Alectra enhanced its on-bill messaging to highlight where the customer was billed with an estimated water meter reading. Customers with estimated reads are encouraged to resolve any access issues and may submit their meter readings either by telephone or electronically

Improved Reporting

Alectra augmented its reports to provide additional details, support new requirements, and to address pandemic-related issues, including:

- Enhanced reporting where an account is billing with zero consumption
- Enhanced water meter reports where exceptions exist
- Provided a vacant premise reconciliation report to support the 2021 budget cycle
- Multi-year city report of water consumption by postal code for municipal energy analysis / programs
- Enhanced reporting analytics where a premise has multiple estimated readings

Revised Water Leak Adjustment Policy

Alectra is working with the City to ensure that its revised Water Leak Adjustment Policy, effective January 1, 2022, will be properly supported. This includes updated processes for the Contact Centre as well as Customer Operations to support the City's financial relief measures for customers with high bills due to a plumbing failure.

Continued and Evolving Pandemic Response

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

Alectra Utilities prepares year-round for the unexpected and is equipped to deliver reliable service to its customers across its 17 communities, even in uncertain times. Alectra initiated robust pandemic plans to ensure the health, safety and physical well-being of customers, employees, and the public. This includes restricting visitor access to our facilities, ensuring that our facilities are frequently cleaned, and that common workplace surfaces and areas are disinfected. Work-from-home policies have been put in place

for employees where possible, along with procedures to enable social distancing for employees required to report to an office or the field, which also helps protect customers. Alectra continues to closely monitor and adhere to all Public Health and government guidelines.

Alectra has implemented a customer-focused approach for families and businesses facing financial challenges due to COVID-19:

- Alectra continues to support customers in financial difficulty through flexible payment terms and has not disconnected any customers for nonpayment of account since the pandemic began
- Alectra encourages anyone having trouble paying their bills to consider a variety of the available assistance programs, including the Low-income Energy Assistance Program, and the Ontario Electricity Support Program
- Customers having trouble making payments because of the pandemic are encouraged to reach out to Alectra to establish a payment plan that works for them
- Delivering on the Government of Ontario's mandate for changes to electricity rates and support programs to provide financial relief to consumers. Alectra delivered approximately \$6MM in targeted funding to residential and small business customers through the COVID-19 Energy Assistance Programs

2021 Service Overview

In 2021, Alectra's suite of water related services for the City included:

- Meter reading
- Bill calculation, printing, mailing and electronic bill presentment options (paperless e-billing)
- Customer notifications
- Full customer Contact Centre 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
- Online customer tools and 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
- Managing Energy & Water Reporting and Benchmarking (EWRB) legislative reporting requirements for customers

Meter Reading and Billing

The foundation of customer billing services is the receipt of accurate and timely invoices. Alectra Utilities manages its meter reading 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 of Hamilton strive to obtain actual meter readings for accurate 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, or completing a water meter reading online 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 engagement communications.

As the pandemic continued through 2021, many schools and businesses were closed or allowed limited access, rendering the meter inaccessible. As a result, approximately 40,000 bills have had estimated meter reads. Alectra will re-bill customers if the estimated meter read varies significantly from the actual meter read. A new "estimated bill" message was displayed more prominently on bills to encourage customers to submit their meter readings and avoid unnecessary true-ups.

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 2021, Alectra managed 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 qualify for the program. Previously, these loans were collected via the property owner's 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 through custom configuration 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 managed by Alectra's billing application.

The City of Hamilton's meter replacement and meter maintenance programs were put on hold due to COVID-19 protocol during Q1 and Q2 of 2021. Alectra's Billing team is now working diligently to finalize any outstanding work orders.

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 has transitioned 1500 accounts in 2021 to property owners, while approximately 5,000 tenant-billed water accounts remain active.

In 2020 Alectra began piloting new Robotic Process Automation technology that use “bots” to review and manage certain meter read exceptions. If a premise is experiencing higher or lower water consumption than historical norms, the “bots” are capable of issuing field activities and triggering customer notifications. This technology manages the exceptions in a customer-friendly, accurate and efficient manner.

Meter Reading and Billing Statistics

	2021	2020	2019	2018	2017
	Forecasted	Actual	Actual	Actual	Actual
Number of Invoices	1,865,000	1,864,004	1,865,340	1,794,337	1,503,629
Revenue	\$235 MM	\$229 MM	\$223 MM	\$206 MM	\$200 MM
Meter Reads	1,736,889	1,736,440	1,662,759	1,624,330	1,453,956
Meter Read Success Rate	96%	96%	95%	95%	96%
New Accounts Created	1,380	1,389	2,941	2,818	1,645
Touchpad “not working” Service Orders	502	565	879	2,554	2,735
Service Orders to relocate remote touchpad	90	120	278	625	446

Customer Care and Communications

Alectra’s mission is to be an ally that our customers can rely on. For our Contact Centre, it is to listen to every customer with feedback from every channel and uncover insights to improve the customer journey. Alectra puts the customer at the heart of its decision-making across the organization.

In 2021, The Contact Centre’s goal to meet or exceed its target of answering 75% of all in-bound calls within 30 seconds has been challenged by pandemic related resourcing challenges. Service levels have also been impacted by higher overall Contact Centre activity which has increased by 5% this year. This increase is primarily a result of a 70% increase in online transactions, including customer move requests. Alectra’s agents also respond to requests received through email, its website, social media, self-service portals and the Alectra after-hours voice mailbox.

Alectra’s Contact Centre’s Quality Assurance Program supports its commitment to consistently provide exceptional customer service to its customers. Through this process, telephone interactions are assessed, and constructive feedback is provided to our agents during monthly coaching sessions.

To further its commitment to the customer, Alectra introduced a new “Voice of the Customer Council” program in 2021 which is comprised of both our Contact Centre agents and Management representatives. The purpose of the program is to provide a vehicle for front-line Customer Service Representatives to share customer feedback and elements of the customer experience. The program helps generate opportunities and strategies to enhance service and improve customer satisfaction. The team also promotes customer-friendly electronic payment methods and paperless ebilling solutions with every customer interaction.

In collaboration with The City of Hamilton, Alectra improved the online navigation related to the water services section of www.alectrautilities.com.

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 MyAccount which is a secure portal to view their bills, understand historical water consumption and utilize account management features such as the paperless billing option. Alectra has initiated focused campaigns in 2021 to promote the features and benefits of registering for MyAccount, particularly with customers who are establishing new accounts.

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's training team has also developed and implemented water and wastewater training for additional resources to augment the Hamilton Water queue.

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
- 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
- Agents also respond to voice messages regarding water reads

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

Customer calls answered within 30 seconds:

	2021 Forecast	2020 Actual	2019 Actual	2018 Actual	2017 Actual
Incoming Calls	70%	67%	76%	79%	77%

Customer calls continue to become more complex. Alectra’s Customer Service Representatives (“CSR’s”) are having detailed conversations with customers to understand their needs, while ensuring the customer is receiving the best possible information during their first interaction. Year-to-date, over 80% of customers surveyed indicated that their 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 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 Options and Arrears Support

	2021 Forecasted	2020 Actual	2019 Actual	2018 Actual	2017 Actual
Percentage of customers on Pre-Authorized Payment	27%	26%	26%	26%	26%
Water/Wastewater on Equal Payment Plan	8,000	8,113	8,524	8,911	9,049
30 day / 60 day Arrears Notification Letters sent	48,000	53,115	54,415	56,583	56,006
Number of Accounts Transferred to Tax Roll	23,000	21,135	20,151	15,875	11,681
Arrears Value	\$4.4 MM	\$4.1 MM	\$3.0 MM	\$3.0 MM	\$2.3 MM

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

	2021 Forecast	2020 Actual	2019 Actual	2018 Actual	2017 Actual
Service Orders Completed	22,000	25,107	21,877	13,559	12,389
High Water Notification Letters	16,000	22,086	34,642	12,340	9,844
Leak Adjustment Request Forms Received	55	55	53	41	90
Leak Adjustment Credits applied to accounts	\$17,000	\$25,949	\$26,768	\$66,930	\$55,700

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 2021, Alectra provided EWRB information to approximately 96 large customers and condominium corporations.



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

TO:	Chair and Members General Issues Committee
COMMITTEE DATE:	November 22, 2021
SUBJECT/REPORT NO:	2022 Recommended Water, Wastewater and Stormwater Budget (FCS21088) (City Wide)
WARD(S) AFFECTED:	City Wide
PREPARED BY:	Katie Black (905) 546-2424 Ext. 6415 John Savoia (905) 546-2424 Ext. 7298 Tran Trang (905) 546-2424 Ext. 4371
SUBMITTED BY:	Mike Zegarac General Manager, Finance and Corporate Services Corporate Services Department
SIGNATURE:	

RECOMMENDATIONS

- (a) That the metered water consumption charges for average residential properties (meters < 25mm in size) in the City of Hamilton be imposed at the following rates, effective January 1, 2022:

Monthly Water Consumption (m3)	Rate (\$/m3)
0 – 10	0.89
> 10	1.77

- (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 \$1.77 per cubic metre, effective January 1, 2022;
- (c) That daily water fixed charges for all properties in the City of Hamilton be imposed at the following rates, effective January 1, 2022:

**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 2 of 32**

Meter Size	Daily Water Rate
15 mm	\$0.41
16 mm	\$0.41
20 mm	\$0.41
21 mm	\$0.41
25 mm	\$1.03
38 mm	\$2.05
50 mm	\$3.28
75 mm	\$6.56
100 mm	\$10.25
150 mm	\$20.50
200 mm	\$32.80
250 mm	\$47.15
300 mm	\$69.70

- (d) That the wastewater / storm treatment charges for average residential properties (meters < 25mm in size) in the City of Hamilton be imposed at the following rates, effective January 1, 2022:

Monthly Water Consumption (m3)	Rate (\$/m3)
0 – 10	0.95
> 10	1.89

- (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 \$1.89 per cubic metre, effective January 1, 2022;
- (f) That daily wastewater /storm fixed charges for all properties in the City of Hamilton be imposed at the following rates, effective January 1, 2022:

Meter Size	Daily Wastewater / Storm Rate
15 mm	\$0.44
16 mm	\$0.44
20 mm	\$0.44
21 mm	\$0.44
25 mm	\$1.10
38 mm	\$2.20
50 mm	\$3.52
75 mm	\$7.04
100 mm	\$11.00
150 mm	\$22.00
200 mm	\$35.20
250 mm	\$50.60
300 mm	\$74.80

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 3 of 32**

- (g) That the residential non-metered annual water rate be imposed at the flat rate of \$646.05 per annum, effective January 1, 2022;
- (h) That the residential non-metered annual wastewater / storm rate be imposed at the flat rate of \$689.85 per annum, effective January 1, 2022;
- (i) That the residential combined non-metered annual water and wastewater / storm rate be imposed at the flat rate of \$1,335.90 per annum, effective January 1, 2022;
- (j) That the Private Fire Line rates be imposed at the following rates, effective January 1, 2022:

Connection Size		Monthly Rate
mm	inches	
25	1	\$3.88
38	1.5	\$8.92
50	2	\$15.52
75	3	\$34.92
100	4	\$62.08
150	6	\$139.68
200	8	\$248.32
250	10	\$248.32
300	12	\$248.32

- (k) That the 2022 Water, Wastewater and Storm Proposed User Fees and Charges be imposed as per Appendix “G” to Report FCS21088, effective January 1, 2022;
- (l) That the 2022 Water, Wastewater and Stormwater Rate Supported Operating Budget in the amount of \$257,850,912 be approved as per Appendix “A” to Report FCS21088;
- (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 2022-2031 Water, Wastewater and Stormwater Rate Supported Operating Budget forecast (Appendix “A” to Report FCS21088) be approved, in principle;
- (n) That the 2022 Water, Wastewater and Stormwater Rate Supported Capital Budget and Financing Plan in the amount of \$310,436,253 be approved as per Appendices “K”, “N”, “Q” and “S” to Report FCS21088;

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 4 of 32**

- (o) That the 2022-2031 Water, Wastewater and Stormwater Rate Supported Capital Budget forecast and financing plan (Appendix “I” to Report FCS21088) be approved, in principle;
- (p) That the City Solicitor be authorized and directed to prepare, for Council approval, all necessary by-laws respecting the 2022 water and wastewater / storm user fees, charges and rates set out in Recommendations (a) through (l) of Report FCS21088;
- (q) That the additional 10.0 Full Time Equivalent Rate Supported Staffing be approved as per Appendix “F” to Report FCS21088;
- (r) That the General Manager, Finance and Corporate Services, be authorized 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 \$118,717,030 Canadian currency as attached in Appendices “K”, “N” and “Q” to Report FCS21088, which includes \$49,100,000 in Rate Supported municipal debt and \$69,617,030 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 Recommendation (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 Recommendations (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 Recommendations (s) and (t), in a form satisfactory to the City Solicitor and with content acceptable to the General Manager, Finance and Corporate Services;

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 5 of 32**

- (t) That all necessary By-Law(s) be passed to authorize the debenture issue(s) negotiated, placed and secured in accordance with Recommendations (r) and (s);
- (u) That the amending By-law attached as Appendix “U” to Report FCS21088 which amends By-law 03-272, being a By-law To Impose Fees and Charges Respecting the Use of the City of Hamilton Sanitary Sewage System and to Implement a Wastewater Abatement and which has been prepared in a form satisfactory to the City Solicitor, be enacted and effective immediately by Council;
- (v) That the amending by-law attached as Appendix “V” to Report FCS21088 which amends By-law 06-026, being a By-law To Regulate the Installation, Connection and Use of Sewers and Drains and which has been prepared in a form satisfactory to the City Solicitor, be enacted and effective immediately by Council;
- (w) That the amending by-law attached as Appendix “W” to Report FCS21088 which amends By-law R84-026, being a By-law To Regulate the Management and Maintenance of the Water Works Systems and which has been prepared in a form satisfactory to the City Solicitor, be enacted and effective immediately by Council;
- (x) That the matter, respecting Budgetary Plan to Address the Chedoke Creek Matter, be considered complete and removed from the General Issues Committee’s Outstanding Business List.

EXECUTIVE SUMMARY

The 2022 Recommended Water, Wastewater and Stormwater (Rate) Budget is submitted for Council’s consideration. The 2022 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 2022 to 2031, capital investments in water, wastewater and stormwater infrastructure are forecasted at \$2.70 B, which represents an increase of \$0.17 B from last year’s 10-year forecast. This budget focuses on growing our economy, environmental stewardship, financial sustainability and effective inter-governmental relations.

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.

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 6 of 32**

The 2022 Rate Operating Budget program expenditures of \$98.4 M reflects an increase of \$7.8 M or 8.6% over the 2021 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 2022 Rate Operating Budget expenditures contain the request for 10 new full-time equivalent (FTE) employees. The net operating cost of the request is approximately \$917 K. The FTE requests are largely driven by regulatory pressures, business benefits and operating impacts from capital. For the full FTE request details, please refer to Appendix “F” to Report FCS21088.

Beyond employee related costs, there are increases in operating and maintenance expenditures (O&M). Increases in O&M expenditures are largely driven by existing facility pressures, increased compliance standards in soils management, inlet and outlet maintenance, as well as, the new Tertiary Treatment Facility. Lastly, the price for fluid and chemicals used to treat water and wastewater at the Plant is increasing versus last year’s budgeted price.

Capital financing costs, including reserve transfers, in the 2022 Requested Budget of \$159.4 M reflects an increase of \$4.5 M over the 2021 Budget. With non-rate revenues of \$3.0 M, rate revenues of \$254.9 M are required to meet operating (program and capital financing) expenditures.

Table 1 summarizes the budget changes for the 2022 Requested Budget.

Table 1

Summary of the 2022 Operating Budget				
(\$ millions)	2021 Restated Budget	2022 Requested Budget	2022 Requested / 2021 Restated Change	
Expenditures				
Program Expenditures	\$ 90.7	\$ 98.4	\$ 7.8	8.6%
Capital/Debt / Reserve Financing	\$ 154.9	\$ 159.4	\$ 4.5	2.9%
Total Expenditures	\$ 245.6	\$ 257.9	\$ 12.3	5.0%
Revenues				
Rate Revenue	\$ 242.7	\$ 254.9	\$ 12.2	5.0%
Non-Rate Revenue	\$ 2.9	\$ 3.0	\$ 0.1	3.0%
Total Revenue	\$ 245.6	\$ 257.9	\$ 12.3	5.0%
Average Residential Water / Wastewater / Storm Bill	\$ 784.80	\$ 823.85	\$ 39.05	4.98%

Note: Anomalies due to rounding.

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 7 of 32**

Chart 1 highlights that the proposed combined 4.98% rate increase is driven largely by increased operating and capital financing expenditures in 2022.

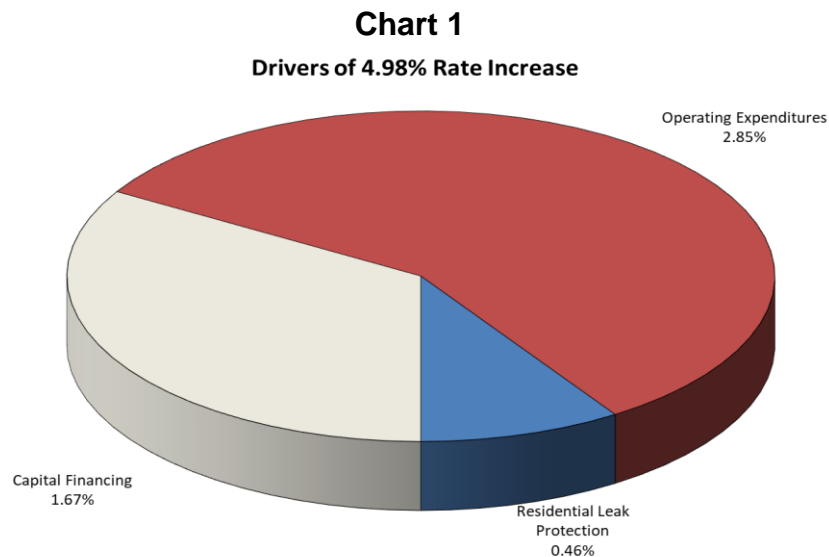


Table 2 identifies the proposed rate increase impact on the average residential customer.

Table 2
**Impact of Recommended 2022 Water and Wastewater /
Storm Rate Increases on a Typical Residential Bill**
(Based on annual water consumption of 200 m³)

2021 Residential Bill	\$784.80
2022 Residential Bill	\$823.85
Recommended Change (\$)	\$39.05
Recommended Change (%)	4.98%

The recommended 2022 Rate Supported Strategy differs slightly from the Strategy approved by Council, in principle, for 2021. Staff had forecast the need for a combined 4.05% rate increase in 2022. Based on the need to fund an escalating Capital program and incremental operating program expenditures, staff recommend that Council approve a 2022 rate increase of 4.98%, 0.93% higher than previously forecast.

It should be noted that in October 2021, Council approved a revised Water Leak Adjustment Policy (Policy) that will come into effect January 1, 2022 (for details please refer to Report FCS21087 / LS21037). The residential leak protection program is intended to be cost-neutral for the City and as such, the associated insurance premium fees borne by the City will be recovered from the fixed charges applied to residential

SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget (FCS21088) (City Wide) – Page 8 of 32

water accounts. The water daily fixed charge has been increased by one cent which represents a rate increase of 0.46%.

While it is true that the Rate Supported Budget Financing Strategy has changed from time to time, the overall goal of achieving a sustainable level of funding to support the necessary infrastructure investments, has not. Approved, in principle, rates were to increase by 4.05% to 4.35% for the forecast period of 2022 - 2030. The amended Strategy calls for combined rate increases averaging 6.4% from 2023 - 2026 and approximately 3.0% annually from 2027 - 2031.

In general, the goal of the Strategy has been to support the water, wastewater and storm programs through a sustainable level of funding. Capital investment forecasts have changed for a number of reasons creating the need for additional financial resources. It should be noted that the intention of the 2021 Strategy was to provide approximately \$2.2 B (2020\$) in support of the 2022 - 2031 capital program. The 2022 Strategy calls for funding of approximately \$2.3 B (2021\$) to support the 2023 – 2031 capital program.

Charts 2 and 3 highlight the 2022 Strategy relative to the previously approved 2021 Strategy.

Chart 2



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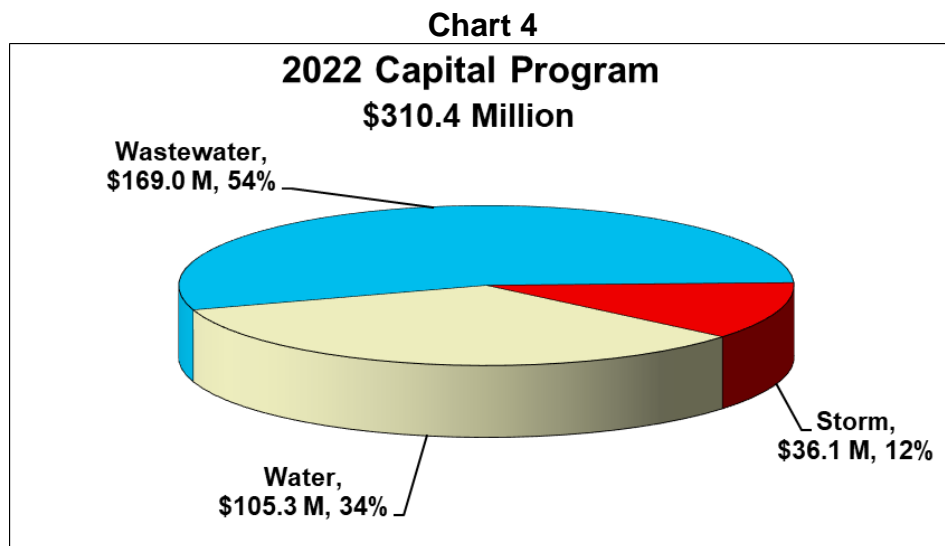
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SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget (FCS21088) (City Wide) – Page 9 of 32



The recommended 2022 Rate Supported Financing Strategy endeavours to achieve a balance between capital investment needs, rate of growth and rate stability. The 2022 Rate Supported Financing Strategy links forecast water demand and estimated wastewater discharge with a staged approach to necessary capital investments at the Woodward Wastewater Treatment Plant (WWTP). The current strategy calls for capital funding in 2022 of approximately \$310.4 M (2021\$) and \$2.70 B (2021\$) for the 2022 – 2031 timeframe. The 2022 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 4 provides a breakdown of the 2022 Rate Capital Program totalling \$310.4 M, by the three major program areas: Water, Wastewater and Storm.



**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 10 of 32**

Report FCS21088 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 FCS21088 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 30

FINANCIAL – STAFFING – LEGAL IMPLICATIONS

Financial: As per Recommendation (l) of Report FCS21088, approval of the 2022 Water, Wastewater and Stormwater Supported Operating Budget will support operating and capital financing expenditures of \$257,850,912 for 2022.

Staffing: The 2022 Rate Supported staffing complement reflects a requested increase of 10.0 FTE as reflected in Appendix “F” to Report FCS21088.

Legal: Recommendation (p) of Report FCS21088 relates to By-laws requiring Council approval, respecting the implementation of 2022 water and wastewater user fees and charges set out in the Recommendations (a) through (k) of Report FCS21088.

HISTORICAL BACKGROUND

The 2022 Rate Budget continues to support the priority of investing in infrastructure as evidenced by the 2022 to 2031 forecast investment of approximately \$2.70 B in water, wastewater and stormwater capital infrastructure.

Report FCS21088 outlines the various aspects and components that the recommended 2022 Rate Supported strategy incorporates:

- Sustainable Rate Strategy
- Proposed 2022 Water and Wastewater / Storm Rates
- Operating Budget Highlights
- Capital Budget Highlights
- Water Consumption Review and Forecast

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 2022 - 2031 financing plan.

**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 11 of 32**

RELEVANT CONSULTATION

Public Works, Hamilton Water Division, provided operating / capital expenditure and non-rate revenue forecasts as reflected in Report FCS21088.

Senior Leadership Team (SLT) reviewed a number of rate financing strategies.

ANALYSIS AND RATIONALE FOR RECOMMENDATIONS

Appendix “A” to Report FCS21088 summarizes the 2022 operating budget expenditures (program and capital financing) and revenues of \$257.9 M compared to the 2021 restated budget of \$245.6 M.

The 2022 Operating expenditures in the 2022 Requested Budget of \$98.4 M reflect an increase of \$7.8 M or 8.6% over the 2021 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 2022 Rate Operating Budget expenditures contains the request for 10 new full-time equivalent (FTE) employees. The net operating cost of the request is approximately \$917 K. The FTE requests are largely driven by regulatory pressures, business benefits and operating impacts from capital. For the full FTE request details, please refer to Appendix “F” to Report FCS21088.

Beyond employee related costs, there are increases in operating and maintenance expenditures (O&M). Increases in O&M expenditures are largely driven by existing facility pressures, increased compliance standards in soils management, inlet and outlet maintenance, as well as, the new Tertiary Treatment Facility. Lastly, the price for fluid and chemicals used to treat water and wastewater at the Plant is increasing versus last year’s budgeted price.

2022 Proposed Rate Increases

The recommended 2022 Rate Supported Strategy differs slightly from the Strategy approved by Council, in principle, for 2021. Staff had forecast the need for a combined 4.05% rate increase in 2022. Based on the need to fund an escalating Capital program and increased operating costs, staff recommend that Council approve a 2022 rate increase of 4.98%, 0.93% higher than previously forecast increasing the average annual residential bill to approximately \$824.

In October 2021, Council approved a revised Water Leak Adjustment Policy (Policy) that will come into effect January 1, 2022 (for details please refer to Report FCS21087 /

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 12 of 32**

LS21037). The residential leak protection program is intended to be cost-neutral for the City and, as such, the associated insurance premium fees borne by the City will be recovered from the fixed charges applied to residential water accounts. The water daily fixed charge has been increased by one cent which represents a rate increase of 0.46%

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 2022 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.

Table 3

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

	2021	2022	Increase
Water			
Fixed Charge (daily) ¹	\$0.38	\$0.41	\$0.03
Consumption Charge Block 1 (0-10 cubic metres / month)	\$0.85	\$0.89	\$0.04
Consumption Charge Block 2 (>10 cubic metres / month)	\$1.70	\$1.77	\$0.07
Wastewater / Storm			
Fixed Charge (daily) ¹	\$0.42	\$0.44	\$0.02
Treatment Charge Block 1 (0-10 cubic metres / month)	\$0.91	\$0.95	\$0.04
Treatment Charge Block 2 (>10 cubic metres / month)	\$1.82	\$1.89	\$0.07

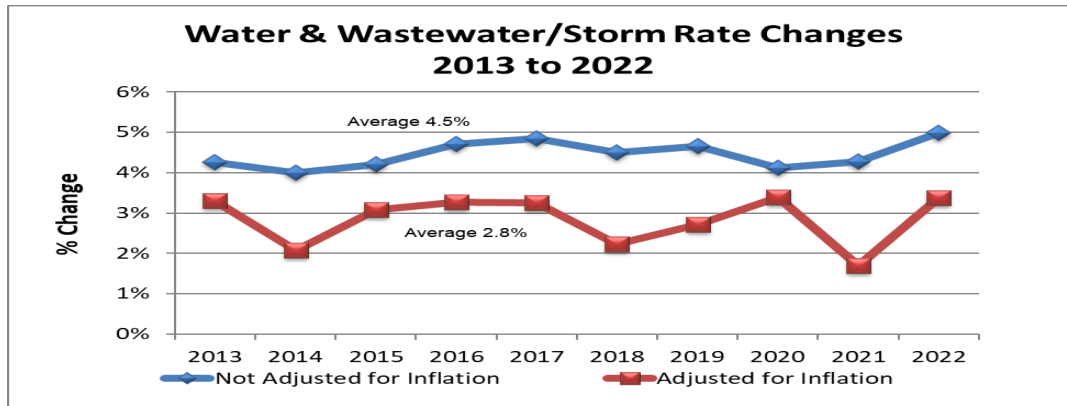
¹ Rate for a 15-21 mm meter which is installed in most residential homes.

Trends in Combined Rate Changes 2013-2022

Hamilton's overall average annual combined water and wastewater / storm rate increase is 4.5% before adjusting for inflation during the 10-year period from 2013 to 2022. Accounting for inflation results in the overall average, the annual rate increase over the same period would be 2.8%. Chart 5 shows the trend in Hamilton's combined water and wastewater / storm rates for the period 2013 to 2022.

SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget (FCS21088) (City Wide) – Page 13 of 32

Chart 5



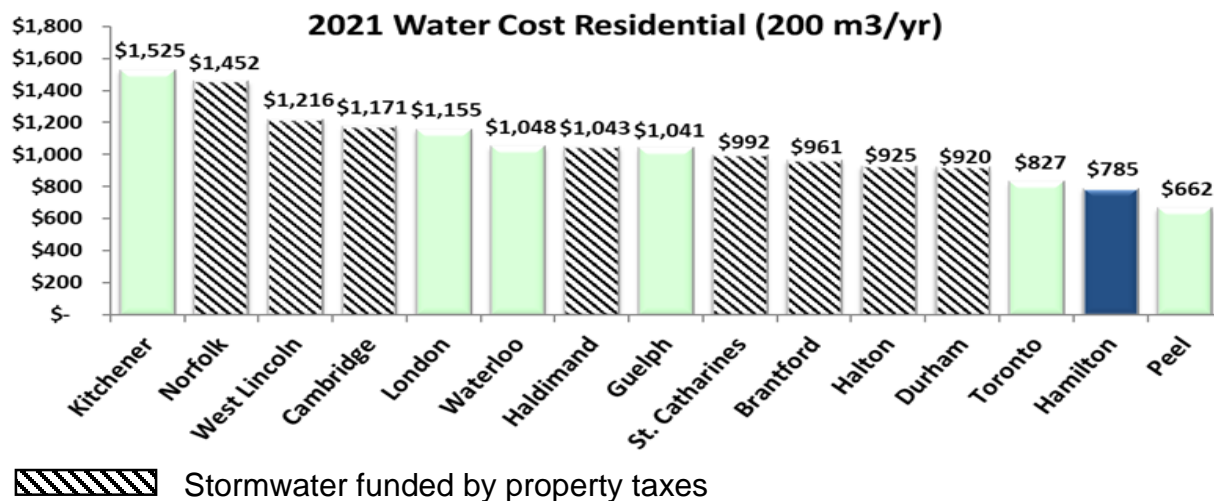
Comparative Rates

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 4.5% 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.

In 2021, Hamilton’s residential annual water and wastewater / storm bill continued 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 6.

Chart 6



**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 14 of 32**

Affordability

In preparation of the recommended combined rate increase for 2022 and considering the pandemic's impact on all ratepayers, an assessment of ratepayers' ability to pay current water and wastewater / storm billings during 2021 has been completed. Ability-to-pay is primarily a function of income related to the cost of living. Fixed costs, such as housing, property taxes, utilities and other necessities take a smaller share of household income for households with higher income levels.

A review of BMA Management Consulting's 2020 Municipal Survey (108 Ontario municipalities participation) indicates that while Hamilton's median household income of \$98,496 is below the survey median \$101,737, Hamilton's average residential water and wastewater annual bill of \$753 represents 0.8% of household income that compares favourably to the survey average of 1.1%.

Arguably, a more accurate measure of affordability may be to review water bill delinquency rates. Per the City's Arrears Policy unpaid water and wastewater / storm arrears that remain unpaid 60 days past the invoice due date are transferred to the property's tax roll. Alectra reports this metric within their annual service activity report (for details refer to Report FCS21089). Alectra is forecasting there will be an increase of nearly 2,000 tax roll arrears transfers in 2021 over 2020 which amounts to an increase of approximately \$300 K in the associated dollar value being transferred over last year.

From 2017 to 2021, the number of unpaid arrears tax roll transfers has more than doubled over the five-year period from approximately 11,700 transfers to 23,000 transfers. With respect to transferred arrears amounts, about \$2.3 M was transferred in 2017 and \$4.4 M is forecasted for 2021 (91% increase). It should be noted that the change to monthly residential billing was completed in June 2017 and generally speaking, more frequent billing was expected to help with the ability to manage bills. Hence, the increase in arrears transfers since 2017 is most concerning as approximately 90% of arrears transfers are related to residential accounts. Prior to 2017, a significant portion of arrears transfers were associated with large commercial / industrial accounts.

In January 2020, the minimum arrears threshold amount for an active account was increased to \$100 from \$75 in an attempt to provide more time for outstanding lower arrears amounts to be addressed before tax roll transfers occur. Approximately, 30% of arrears transfers in 2019 were for arrears amounts between \$75 and \$100. However, the expected reduction in the number of arrears transfers was not realized as the number of transfers increased by 5% in 2020. The minimum arrears threshold amount for an active account will increase to \$125 as of January 1, 2022. It should be noted that an administrative fee is applied by Taxation for each arrears tax roll transfer

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 15 of 32**

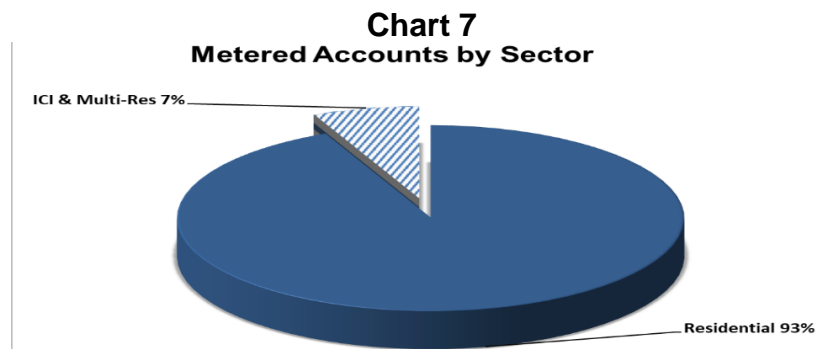
occurrence (for 2021, the fee is \$36.02 plus H.S.T.). Staff will continue to monitor water bill delinquency rates on an ongoing basis to gauge the impact of increasing water bills.

One factor that may be contributing to increasing tax roll transfers is, unlike with some other utilities (natural gas and electricity), service disconnection is not utilized to address unpaid water bills in Hamilton. A number of neighbouring water utilities employ service disconnection within their collection policies.

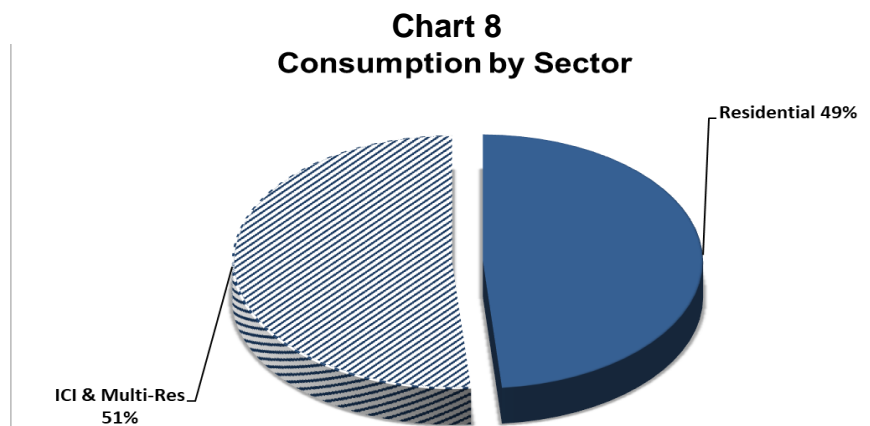
CONSUMPTION AND RATE-GENERATED REVENUES

Metered Water Consumption

Currently, the City of Hamilton has over 154,000 metered water accounts (see Chart 7). Residential users account for 93% of total metered accounts and approximately 49% 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 comprises 51% of total consumption (see Chart 8).



Revenues associated with consumption represents approximately 94% of the total budgeted Rate revenues of \$229.0 M for 2021 or \$240.4 M for 2022.



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SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget (FCS21088) (City Wide) – Page 16 of 32

Total Consumption – 2022 Budget \$240.4 M

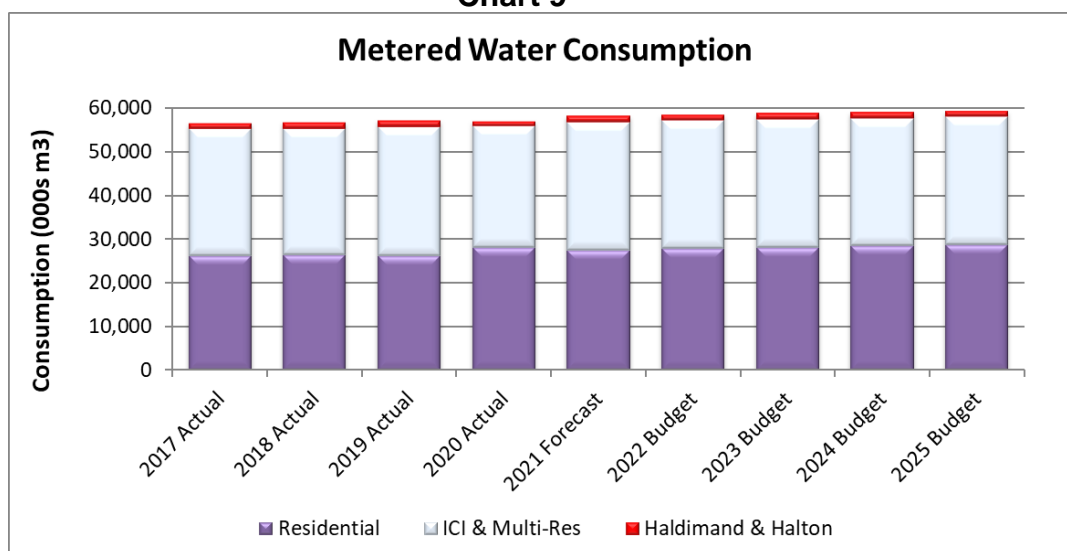
Since 2017, Hamilton's total metered annual water consumption (see Chart 9) has remained at approximately 56-59 million cubic metres. The 2021 projected total consumption is just over 57 million cubic metres. The 2022 Budget of 58.4 M cubic metres is approximately 0.3% above the consumption in the 2021 Budget.

Total water consumption forecast over the 10-year period (2022 to 2031) reflects relatively flat consumption demand. This relatively conservative forecast reflects the following:

- 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 9



Residential Consumption – 2022 Budget \$113.9 M

Since 2017, residential consumption (see Chart 10) 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

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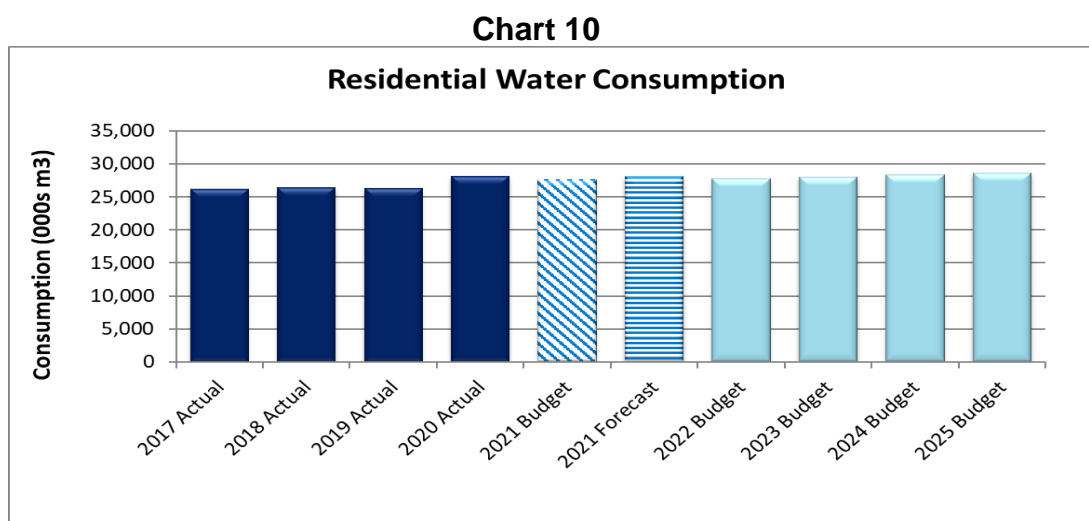
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SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget (FCS21088) (City Wide) – Page 17 of 32

associated with fixture / appliance obsolescence such as the installation of water efficient toilets and washer machines. For 2022, staff is recommending that the forecast for average residential consumption remain at 200 m³ to reflect the past several years of consumption for an estimate of 27.7 M cubic metres.

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.



Industrial / Commercial / Institutional and Multi-Res Consumption – 2022 Budget \$123.3 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.

In sharp contrast to many neighbouring communities, Hamilton is unique in that a 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 11, water consumption demand is forecast to remain relatively flat for the ICI / Multi-res sector at 29.3 M cubic metres for the 2022 Budget.

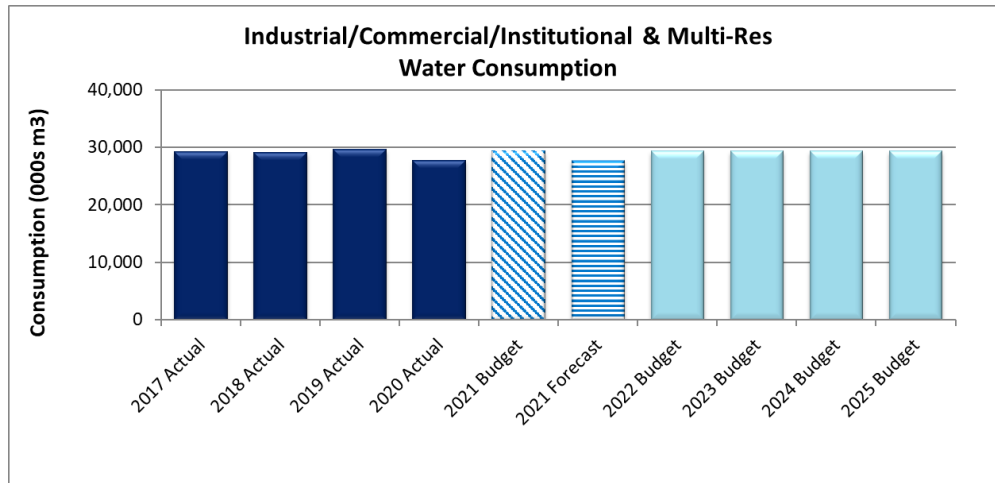
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SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget (FCS21088) (City Wide) – Page 18 of 32

Chart 11



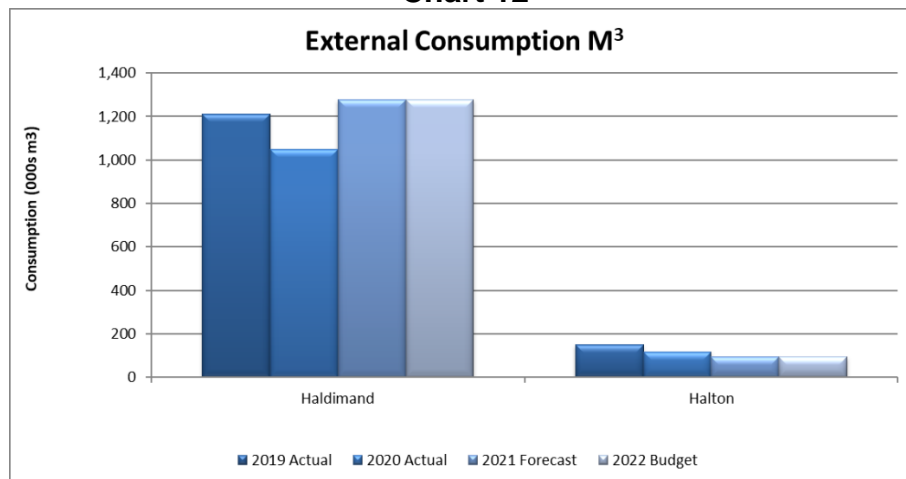
External Consumption – 2022 Budget \$3.1 M

Under long-term arrangements, Hamilton supplies Haldimand County and Halton Region potable water (see Chart 12) 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.

The current water supply agreement for Halton was executed in 2011 for an initial 10-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.

Chart 12



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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 19 of 32**

OTHER REVENUE HIGHLIGHTS

Sewer Discharge Permits – 2022 Budget \$9.8 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 – 2022 Budget \$2.9 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 FCS21088 provides details of the user fees and 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 – 2022 Budget \$2.0 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.

2022–2031 Rate Capital Budget

Table 4 and Appendices "H", "J", "M" and "P" to report FCS21088 summarizes the \$2.7 B capital program and the financing requirements for the 2022–2031 water, wastewater and storm capital budget. Of this amount, \$1.069 B (40%) is for water, \$1.275 B (47%) is for wastewater and \$0.355 B (13%) is for the storm program. A total of \$825 M or 31% of the 10-year capital program is required in the first three years (2022–2024). Significant projects include the Woodward Wastewater Treatment Plant (WWTP) Upgrade, Greenhill Pumping Station Upgrades, Airport Lands Trunk Sewer and Battlefield Trunk Sewer Twinning.

The capital program also includes \$667 M for growth infrastructure related to the current Growth Related Integrated Development Strategy (GRIDS), which will be funded from Development Charges except for an estimated \$90 M in Development Charge (DC) exemptions that 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.

**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 20 of 32**

**Table 4
SOURCE OF CAPITAL FINANCING
2022 to 2031 RATE PROGRAM CAPITAL BUDGET
\$(000'S)**

	2022	2023	2024	2025	2026 to 2031	2022 to 2031
WATER						
Capital Program	105,271	111,222	148,240	157,650	546,254	1,068,637
<u>Source of Funding</u>						
Subsidy/Other Revenue	3,498	-	2,004	8,100	-	13,602
Development Charges	26,127	29,882	40,671	44,189	73,939	214,807
Reserves & Other Internal Sources	19,007	640	640	640	3,840	24,767
Contribution from Operating	39,540	72,200	84,926	94,722	457,275	748,661
External Debt	17,100	8,500	20,000	10,000	11,200	66,800
Total	105,271	111,222	148,240	157,650	546,254	1,068,637
WASTEWATER						
Capital Program	169,020	82,005	106,565	93,275	824,149	1,275,014
<u>Source of Funding</u>						
Subsidy/Other Revenue	4,000	-	2,720	7,000	-	13,720
Development Charges	39,241	18,059	24,634	6,564	294,405	382,901
Reserves & Other Internal Sources	19,996	9,000	5,000	-	-	33,996
Contribution from Operating	73,784	47,226	36,791	46,481	514,514	718,797
External Debt	32,000	7,720	37,420	33,230	15,230	125,600
Total	169,020	82,005	106,565	93,275	824,149	1,275,014
STORM SEWERS						
Capital Program	36,145	29,890	36,475	23,530	228,840	354,880
<u>Source of Funding</u>						
Subsidy/Other Revenue	75	75	2,075	5,275	6,390	13,890
Development Charges	19,160	10,175	10,055	4,000	25,540	68,930
Reserves & Other Internal Sources	5,145	-	-	-	-	5,145
Contribution from Operating	11,765	19,640	24,345	14,255	176,010	246,015
External Debt	-	-	-	-	20,900	20,900
Total	36,145	29,890	36,475	23,530	228,840	354,880
TOTAL RATE PROGRAM						
Capital Program	310,436	223,117	291,280	274,455	1,599,243	2,698,531
<u>Source of Funding</u>						
Subsidy/Other Revenue	7,573	75	6,799	20,375	6,390	41,212
Development Charges	84,527	58,116	75,359	54,752	393,885	666,638
Reserves & Other Internal Sources	44,148	9,640	5,640	640	3,840	63,908
Contribution from Operating	125,089	139,066	146,062	155,458	1,147,798	1,713,473
External Debt	49,100	16,220	57,420	43,230	47,330	213,300
Total	310,436	223,117	291,280	274,455	1,599,243	2,698,531

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Chart 13 illustrates the \$2.70 B capital program for the 2022–2031 water, wastewater and storm capital budget.

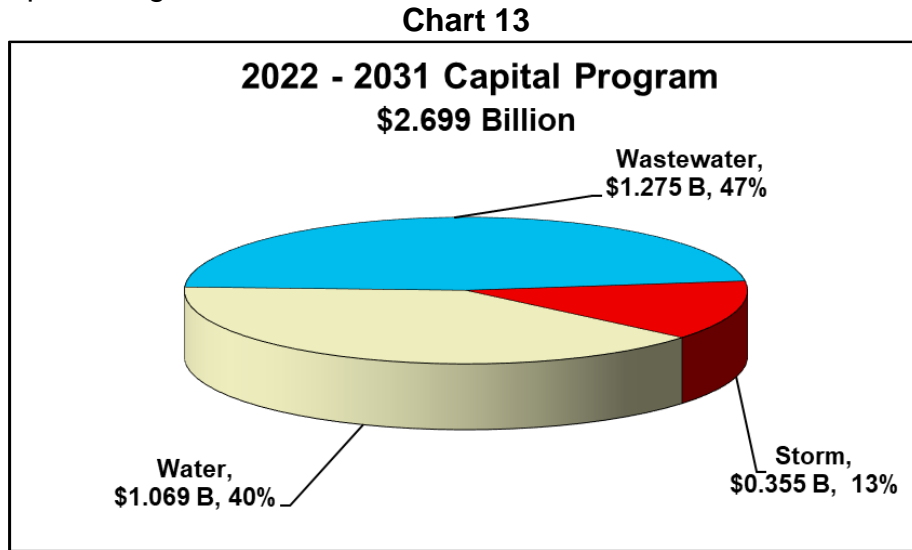
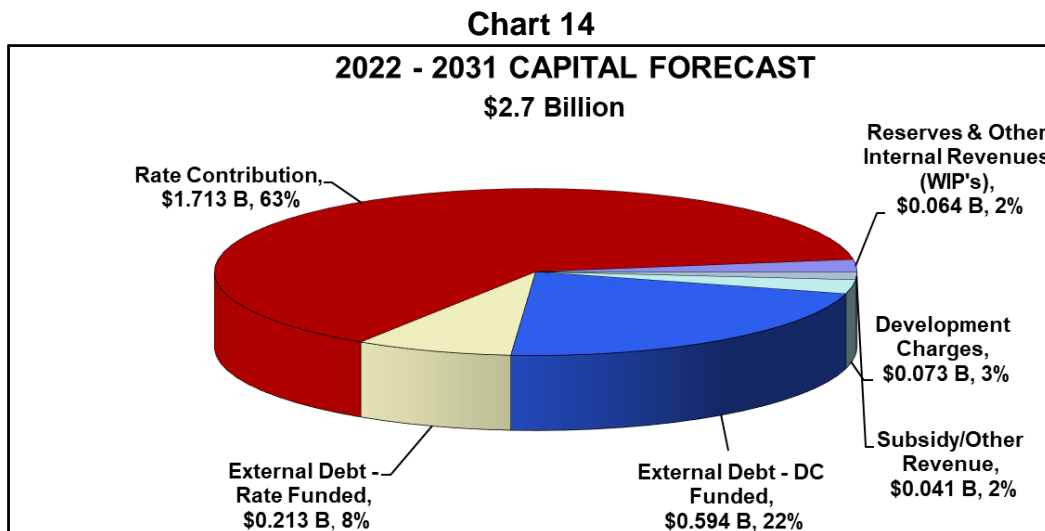


Chart 14 provides the sources of capital financing for the 2022–2031 forecast period. The growth-related infrastructure investment included in the 2022–2031 forecast to accommodate for growth is \$667 M, including \$594 M from DC funded external debt and \$73 M from development charges. Debt charges associated with DC funded debt will be recovered from development charges over the terms of issuance.

The 2022–2031 Capital Forecast includes \$15.2 M in funding from capital work-in-progress (WIP's). The Financing Plan for the 2022-2031 water, wastewater and storm capital program requires a net draw from reserves of \$48.7M, helping to mitigate reliance on rate supported debt for the delivery of capital works.

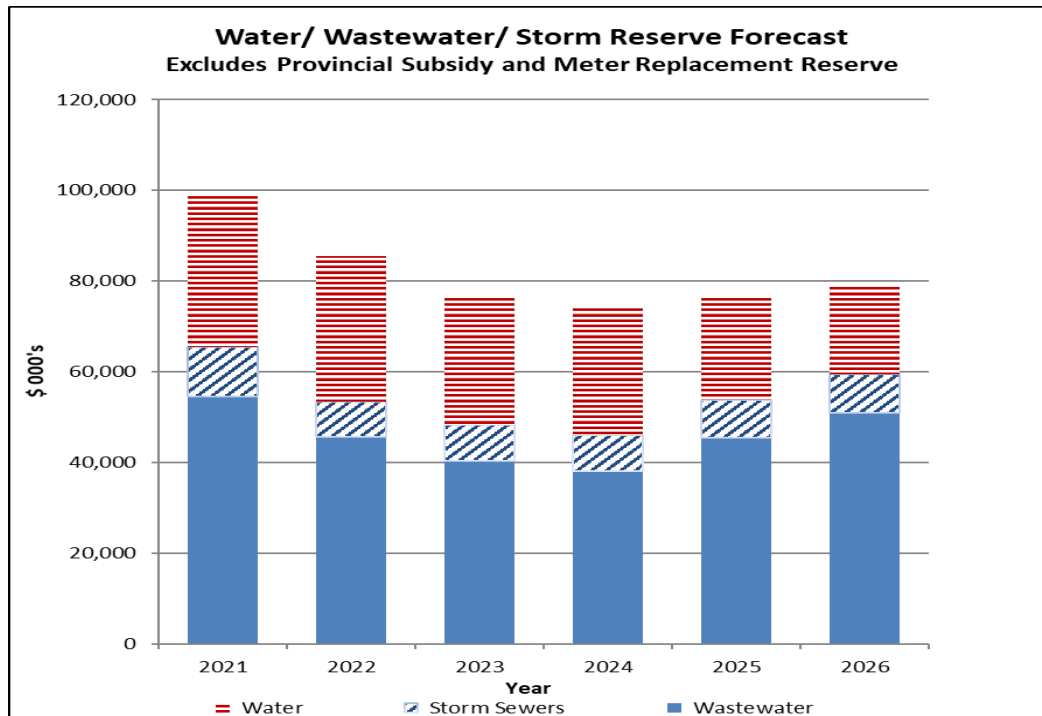


**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 22 of 32**

Rate Reserves

Chart 15 provides the projected reserve balances for the Water, Wastewater and Storm programs. The 2022 Budget Forecast reflects utilizing \$9.1 M in reserve funds for the Chedoke Creek project and \$12.6 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 15



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 proposed 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.

The combined reserve balances will decrease from \$99 M at the end of 2021 to \$79 M in 2026 and then stabilize over the remaining years in the 2027 to 2031 forecast under the proposed Capital Financing Plan. 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 and the Chedoke Creek and Cootes Paradise workplan. All three system Reserves are within the target balances relative to the Rate Reserve Policy approved by Council in June 2016.

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 23 of 32**

Woodward Wastewater Treatment Upgrade and Expansion Project

The implementation plan for the upgrade and expansion of the WWTP is consistent with the 2021 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 \$315 M of the total growth component related to Phase Two is in the 2022-2031 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 increased by \$30.9 M compared to the 2021 budget forecast. The change can be attributed to the 2022 budget using the 2019 DC background study and the 2021 budget using the 2014 DC background study. Table 5 provides a summary.

The WWTP expansion project implementation plan has remained unchanged when compared to the 2021 forecast but has been updated with revised cost estimates. 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 (2022 – 2025) 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.

Table 5

Woodward Wastewater Treatment Plant Project - Gross Capital Forecasts												
(\$ Millions)												
		pre										
	Total	2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
2022 Budget												
Phase 1 - Clean Harbour	424.6	386.7	37.9									
Phase 2 - Expansion	314.7	5.0	4.5	4.5	5.7	5.7	98.2	95.5	95.6			
Total WWTP	739.3	391.7	42.4	4.5	5.7	5.7	98.2	95.5	95.6	-	-	-
2021 Budget												
Phase 1 - Clean Harbour	412.0	386.8	25.2	-	-	-	-	-	-	-	-	-
Phase 2 - Expansion	296.4	5.1	2.5	2.5	3.1	3.1	94.3	92.9	92.9	-	-	-
Total WWTP	708.4	391.9	27.7	2.5	3.1	3.1	94.3	92.9	92.9	-	-	-
Increase (Decrease)												
Phase 1 - Clean Harbour	12.6	(0.1)	12.7	-	-	-	-	-	-	-	-	-
Phase 2 - Expansion	18.3	(0.1)	2.0	2.0	2.6	2.6	3.9	2.6	2.7	-	-	-
Total WWTP	30.9	(0.2)	14.7	2.0	2.6	2.6	3.9	2.6	2.7	-	-	-

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 24 of 32**

Chedoke Creek – Cootes Paradise Workplan

In 2018, the City of Hamilton had discovered that one of its combined sewer overflow tanks was discharging combined sewage into Chedoke Creek. The City immediately stopped the discharge, began clean-up activities in the area and contacted the Provincial Spills Action Centre. As a result of the overflow discharge, the City was served an order by the Ministry of Environment, Conservation and Parks (MECP) outlining several actions required by the City.

The first part of the order required the City to develop the Chedoke Creek Workplan, which was approved on June 11, 2021 and identified the remedial strategy for targeted dredging in Chedoke Creek. The initial workplan is a living document and subject to change as potential new information is discovered while executing the targeted dredging work.

The second part of the order required the City to develop the Cootes Paradise Report, which was also approved on June 11, 2021. This Report proposed the remediation and mitigation works to offset the impacts associated with the added nutrient loading to Cootes Paradise and the Western Hamilton Harbour Area that cannot be recovered by dredging Chedoke Creek.

In addition to the order, City Council directed Hamilton Water staff to meet with Royal Botanical Gardens staff to review potential solutions to Chedoke Creek and report back to the General Issues Committee with their findings. As a result, the Chedoke Creek Water Quality Improvement Study was developed and finalized to proactively address some requirements of the order. Contributions from the study were included in the development of the Cootes Paradise Report and subsequently applied in the development of the Cootes Paradise Workplan.

Table 6 details the capital investment that has been included in the 2022-2031 rate supported capital forecast to meet the requirements of the initial Chedoke Creek and Cootes Paradise Workplan with the majority of funding coming from reserves.

Table 6

Chedoke Creek - Cootes Paradise Workplan (\$000's)							
	Total	Pre-2022	2022	2023	2024	2025	2026-2031
Chedoke Creek Water Quality Improvements (CASH FLOWED)	12,450	1,050	9,050	1,250	1,100	-	
Lower Chedoke Combined EA Study	7,230		280	1,650	1,100	2,100	2,100
Chedoke Watershed Stormwater Retrofit EA Study	11,980		280	1,100	3,150	3,150	4,300
Total	31,660	1,050	9,610	4,000	5,350	5,250	6,400

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 25 of 32**

Provincial / Federal Subsidy Programs

In 2018, the Government of Canada launched the Disaster Mitigation and Adaptation Fund (DMAF) committing \$2 B over 10 years to invest in structural and natural infrastructure projects to increase the resilience of communities that are impacted by natural disasters triggered by climate change. In 2021, an additional \$1.375 B in federal funding over 12 years was announced to renew the DMAF.

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.

Through Report FCS21090, staff has proposed projects for the City's application for the second intake under that DMAF program for approval by Council. The potential funding contribution from the DMAF would enhance the City's ability to address built infrastructure, such as, escarpment biodiversity and stability, trail asset condition and wastewater and stormwater asset additions and enhancements. Total estimated project spending equates to \$106 M (\$82.4 M in rate supported projects and \$23.5 M in tax supported projects) with \$41 M from DMAF and \$65 M of City share, cash flowed over a 10-year period.

The majority of the proposed projects in the City's application are currently in the 10-year Tax and Rate Capital forecasts. However, eight projects are not included in the 10-year forecast and an additional six projects are partially funded. Should this application be successful, staff will report back with a recommended financing strategy to accommodate the City's portion of these projects.

Addressing Climate Change

City Council declared a climate change emergency in March 2019, at that time, joining 435 municipalities world-wide. Since then, the total number of municipalities has reached more than 800 cities around the world, as well as, the Government of Canada, all acknowledging the scale of the climate crisis and the need for accelerated action.

The City of Hamilton understands declaring a climate emergency is just the beginning. City Council, through its climate emergency declaration, directed staff to form a multi-departmental Corporate Climate Change Task Force (CCCTF). Through the CCCTF, a centralized approach has been created to recommend actions and initiatives that the City is required to take in order to reach the goal of reducing greenhouse gas emissions to net zero before 2050.

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 26 of 32**

A key piece of work is the Community Energy and Emissions Plan, which is a long-term plan to meet Hamilton's future energy needs while improving energy efficiency, reducing greenhouse gas emissions and fostering local sustainable and community-supported energy solutions. A draft of the Community Energy and Emissions Plan is anticipated to be brought to the General Issues Committee in late 2021 or early 2022.

Projected Water / Wastewater / Storm Debt

The 2022 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 2022–2031 has increased by \$142.5 M from the 2021 Rate Budget.

The forecasted DC supported debt financing has increased by approximately \$111.7 M over the same period, resulting in an overall net increase in forecasted debt financing of \$111.7 M from the forecast in the 2021 Rate Budget. The increase in reliance on DC supported debt is attributable to the increased cost estimate of the Woodward Wastewater Treatment Plant Expansion and various new projects. The Growth Capital is partially offset with a \$15 M contribution from DC reserves in the 2022 Rate Budget.

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 \$377 M in 2025, compared with the 2021 budget forecasted debt peak of \$288 M in 2024. The debt funded from DC's is projected to peak at \$743 M in 2028, whereas the 2021 budget was \$641 M in 2028.

Table 7 provides the multi-year debt forecast compared to the 2021 Budget forecast.

Table 7

Projected Rate & DC Supported Outstanding Debt											
(\$ Millions)											
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
2021 Rate Budget											
Funded from Rates	199	258	271	288	273	246	220	194	167	143	118
Funded from DC's	115	227	338	402	403	493	578	641	609	575	540
Total	314	485	609	690	676	739	798	835	776	718	658
2022 Rate Budget											
Funded from Rates	140	214	250	323	377	347	327	306	288	255	221
Funded from DC's	4	139	251	372	473	586	676	743	707	669	631
Total	144	353	501	695	850	933	1003	1049	995	924	852
Increase (Decrease)	(170)	(132)	(108)	5	174	194	205	214	219	206	194

Consistent with the 2021 Rate Budget and to more accurately forecast debt levels and the associated debt charges, the major multi-year Wastewater Treatment Plant projects

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SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget (FCS21088) (City Wide) – Page 27 of 32

are budgeted based on the projected cash flow of expenditures for the 2022 Rate Capital Budget, versus full commitment-based budgeting.

Chart 16 compares the total outstanding debt (Rate and DC Funded) from the 2021 Budget forecast to the 2022 Budget forecast. The graph illustrates the lower debt requirements for 2021-2023 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.

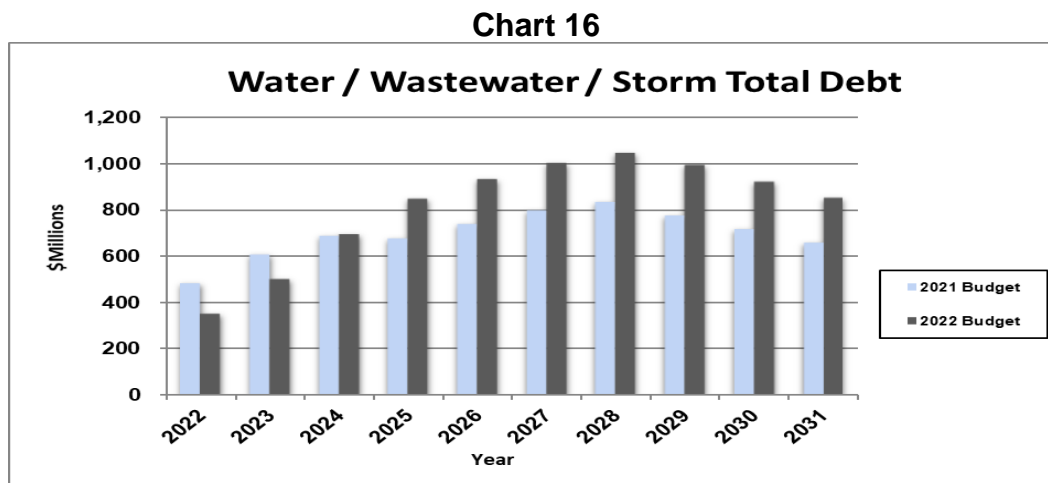


Chart 17 illustrates the projected outstanding debt for the 10-year period (2022–2031) and the funding source of the associated debt charges.

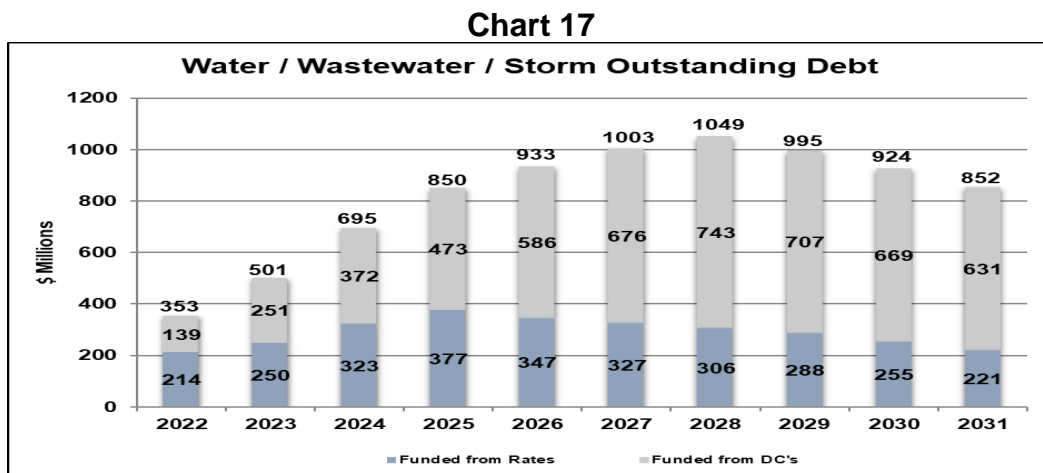
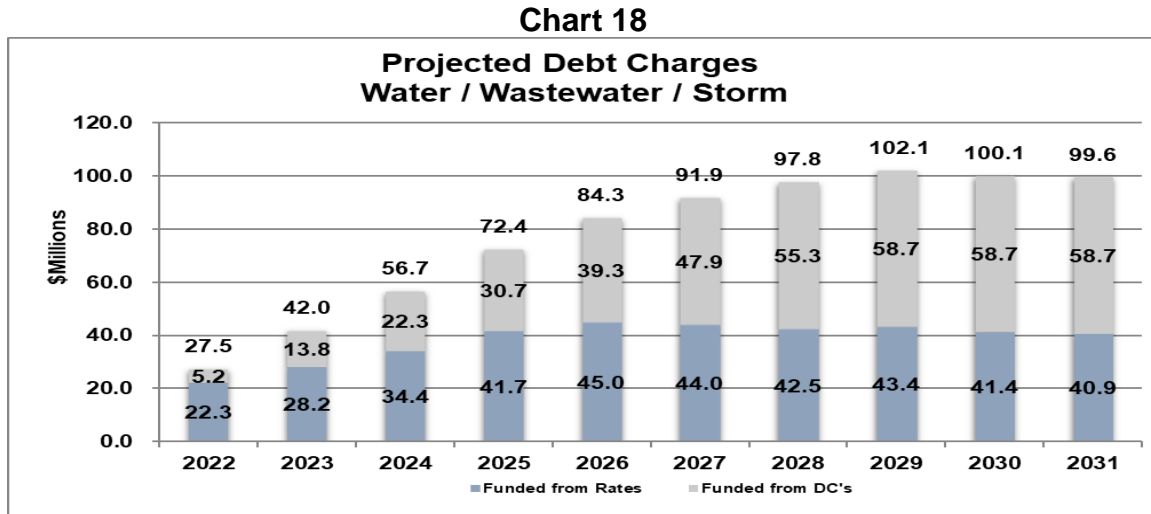


Chart 18 shows the forecasted debt charges funded by water / sewer rates and by Development Charges. In the upcoming years, staff in Corporate Services and in

**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 28 of 32**

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 8, the 2021 Rate Budget incorporates \$156.0 M capital financing costs which is an increase of \$1.5 M from the 2021 Rate budget. The 2022 budgeted debt charges increase by \$1.8 M, while contribution to capital and DC exemption funding remain the same compared to the 2021 budget.

Table 8

WATER, WASTEWATER & STORM					
IMPACT OF CAPITAL ON OPERATING BUDGET					
(000's)					
	2021 APPROVED	2022 PROPOSED	CHANGE		2022 - 2031 FORECAST
			\$	%	
Debt to be Issued	48,000	49,100	1,100	2.3%	213,300
Debt Charges (Net of DCs)	20,534	22,349	1,815	8.8%	383,880
Contribution to Capital	125,369	125,089	(280)	-0.2%	1,713,473
DC Exemption Funding	9,000	9,000	0	0.0%	90,000
Impact on Operating Budget	154,903	156,438	1,535	1.0%	2,187,354

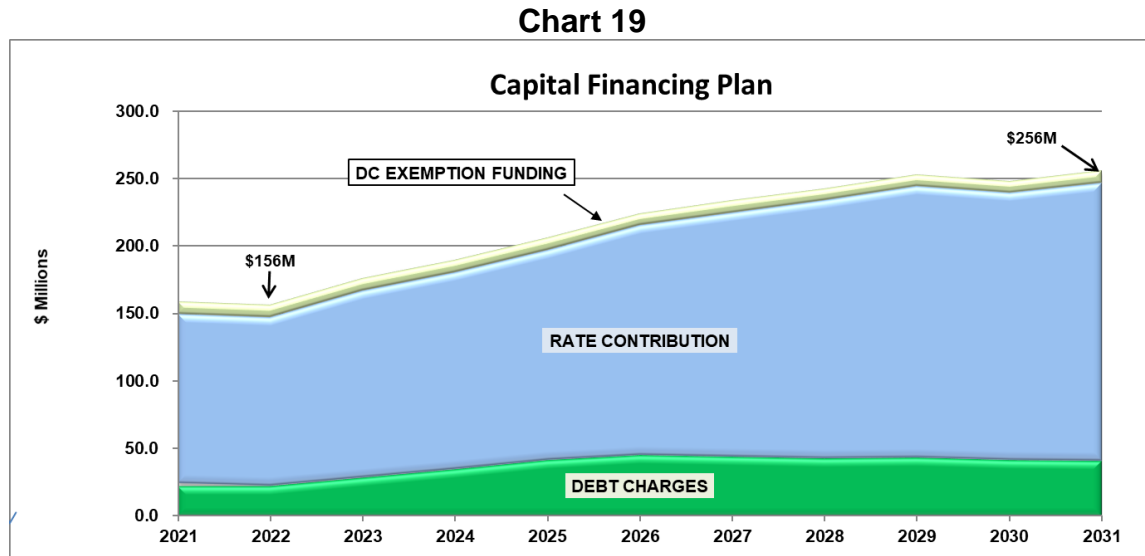
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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 29 of 32**

Chart 19 highlights the impact on the operating budget from the Rate Supported Capital program. These impacts are projected to increase from \$156 M in 2022 to \$256 M in 2031. Rate supported debt charges are expected to increase from 8.7% of total revenues in 2022 to 13.2% in 2026 and then decline to 9.9% in 2031.



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 2021 ARL in the amount of \$291,914,218 and is based on 2019 Financial Information Returns.

Using this 2021 ARL, the City Treasurer has calculated an updated ARL of \$219,967,107, shown in Appendix "T" to Report FCS21088. The 2021 ARL was adjusted for possible debt service charges of \$71,947,111 corresponding to approximately \$955.5 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 \$219,967,107, 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 \$2.6 B of additional borrowing which the City could undertake (assuming a 15-year term and 3% interest rate). The related tax and rate impacts would be considered before approving debt within these limits.

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**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 30 of 32**

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 2022 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.

APPENDICES AND SCHEDULES ATTACHED

Appendix “A” to Report FCS21088 – 2022 Hamilton Water, Wastewater and Storm Operating Budget – Combined Water, Wastewater and Storm

Appendix “B” to Report FCS21088 – 2022 Hamilton Water Operating Budget – Water

Appendix “C” to Report FCS21088 – 2022 Hamilton Wastewater and Storm Operating Budget – Combined Wastewater and Storm

Appendix “D” to Report FCS21088 – 2022 Hamilton Wastewater and Storm Operating Budget – Wastewater

Appendix “E” to Report FCS21088 – 2022 Hamilton Wastewater and Storm Operating Budget – Storm

**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 31 of 32**

Appendix “F” to Report FCS21088 – Hamilton Water – 2022 Rate Supported Staffing Summary and 2022 Rate Budget – Business Case Summary – Public Works

Appendix “G” to Report FCS21088 – 2022 Water and Wastewater / Storm Fees and Charges, Effective January 1, 2022 – 2022 Private Fire Line Rates – 2022 Proposed User Fees and Charges

Appendix “H” to Report FCS21088 – Source of Capital Financing – 2022 to 2031 Rate Program Capital Budget

Appendix “I” to Report FCS21088 – 2022 to 2031 Water / Wastewater / Storm Capital Financing Plan

Appendix “J” to Report FCS21088 – Source of Capital Financing – 2022 to 2031 Rate Program Capital Budget – Water

Appendix “K” to Report FCS21088 – Water System – 2022 Capital Budget Project List

Appendix “L” to Report FCS21088 – Water System – 2022 to 2031 Capital Budget List

Appendix “M” to Report FCS21088 – Source of Capital Financing – 2022 to 2031 Rate Program Capital Budget – Wastewater

Appendix “N” to Report FCS21088 – Wastewater System – 2022 Capital Budget Project List

Appendix “O” to Report FCS21088 – Wastewater System – 2022 to 2031 Capital Budget List

Appendix “P” to Report FCS21088 – Source of Capital Financing – 2022 to 2031 Rate Program Capital Budget – Storm Sewers

Appendix “Q” to Report FCS21088 – Storm Water Management – 2022 Capital Budget Project List

Appendix “R” to Report FCS21088 – Storm Water Management – 2022 to 2031 Capital Budget List

Appendix “S” to Report FCS21088 – 2022 Rate Program Capital Budget Summary

Appendix “T” to Report FCS21088 – City of Hamilton Treasurer’s Updated 2021 Annual Repayment Limit

Appendix “U” to Report FCS21088 – Amendments to By-law 03-272

**SUBJECT: 2022 Recommended Water, Wastewater and Stormwater Budget
(FCS21088) (City Wide) – Page 32 of 32**

Appendix “V” to Report FCS21088 – Amendments to By-law 06-026

Appendix “W” to Report FCS21088 – Amendments to By-law R84-026

CITY OF HAMILTON

2022 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET

COMBINED WATER, WASTEWATER AND STORM

	2021 RESTATED BUDGET	2021 PROJECTED ACTUAL	2022 REQUESTED BUDGET	CHANGE 2021 PROJECTED ACTUAL / 2021 RESTATED BUDGET	CHANGE 2022 REQUESTED / 2021 RESTATED BUDGET
	\$	\$	\$	\$ %	\$ %
<u>OPERATING EXPENDITURES:</u>					
Divisional Administration & Support	2,464,490	2,612,750	2,369,122	(148,260) (6.0%)	(95,368) (3.9%)
Woodward Upgrades	1,735,670	1,835,177	1,764,829	(99,507) (5.7%)	29,159 1.7%
Customer Service	325,250	247,934	329,279	77,317 23.8%	4,029 1.2%
Outreach & Education	1,093,813	758,530	1,111,320	335,283 30.7%	17,507 1.6%
Service Co-ordination	3,500,605	3,221,147	3,581,202	279,459 8.0%	80,597 2.3%
Engineering Systems & Data Collection	1,172,372	571,107	1,153,746	601,265 51.3%	(18,626) (1.6%)
Compliance & Regulations	1,005,054	959,455	1,019,823	45,600 4.5%	14,769 1.5%
Laboratory Services	3,553,884	3,705,037	3,743,598	(151,153) (4.3%)	189,714 5.3%
Environmental Monitoring & Enforcement	2,215,026	2,099,337	2,478,749	115,689 5.2%	263,723 11.9%
Water Distribution & Wastewater Collection	21,894,147	23,871,167	24,122,428	(1,977,020) (9.0%)	2,228,282 10.2%
Plant Operations	27,373,740	29,010,320	30,409,180	(1,636,580) (6.0%)	3,035,440 11.1%
Plant Maintenance	10,815,523	10,729,602	11,708,771	85,922 0.8%	893,248 8.3%
Capital Delivery	2,072,271	2,144,734	2,254,575	(72,463) (3.5%)	182,304 8.8%
Watershed Management	1,275,560	1,016,538	1,382,313	259,022 20.3%	106,753 8.4%
Infrastructure Planning & System Design	2,632,320	2,589,714	2,672,939	42,606 1.6%	40,619 1.5%
Wastewater Abatement Program	1,192,450	887,579	1,142,450	304,872 25.6%	(50,000) (4.2%)
Alectra Utilities Service Contract	5,712,000	5,733,291	5,826,240	(21,291) (0.4%)	114,240 2.0%
Corporate & Departmental Support Services	7,242,552	7,359,132	7,757,552	(116,580) (1.6%)	515,000 7.1%
Utilities Arrears Program	500,320	354,080	500,320	146,240 29.2%	- 0.0%
Sewer Lateral Management Program	300,000	299,796	300,000	204 0.1%	- 0.0%
Hamilton Harbour Remedial Action Plan	370,964	547,987	578,964	(177,023) (47.7%)	208,000 56.1%
Protective Plumbing Program (3P)	752,870	666,929	752,870	85,942 11.4%	- 0.0%
Financial Charges	86,020	86,020	86,020	- 0.0%	- 0.0%
	99,286,901	101,307,358	107,046,290	(2,020,458) (2.0%)	7,759,390 7.8%
Capital and Reserve Recoveries	(8,635,161)	(8,611,797)	(8,635,161)	(23,363) 0.3%	- 0.0%
Sub-Total	90,651,740	92,695,561	98,411,129	(2,043,821) (2.3%)	7,759,390 8.6%
<u>Capital and Reserve Impacts on Operating</u>					
<u>Contributions to Capital</u>					
Water Quality Initiatives	50,498,000	50,498,000	39,539,500	- 0.0%	(10,958,500) (21.7%)
Wastewater	57,237,984	57,237,984	73,784,138	- 0.0%	16,546,154 28.9%
Stormwater	17,632,679	17,632,679	11,765,000	- 0.0%	(5,867,679) (33.3%)
Sub-Total Contributions to Capital	125,368,663	125,368,663	125,088,638	- 0.0%	(280,025) (0.2%)
<u>Contributions for DC Exemptions</u>					
Water Quality Initiatives	2,520,000	2,520,000	2,520,000	- 0.0%	- 0.0%
Wastewater	4,590,000	4,590,000	4,590,000	- 0.0%	- 0.0%
Stormwater	1,890,000	1,890,000	1,890,000	- 0.0%	- 0.0%
Sub-Total Contributions for DC Exemptions	9,000,000	9,000,000	9,000,000	- 0.0%	- 0.0%

CITY OF HAMILTON

2022 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET

COMBINED WATER, WASTEWATER AND STORM

	2021	2021	2022	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2021 PROJECTED / 2021 RESTATED BUDGET	ACTUAL	2022 REQUESTED / 2021 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<u>OPERATING EXPENDITURES:</u>							
<u>Capital Debt Charges</u>							
Water Quality Initiatives	9,844,773	8,266,428	11,068,076	1,578,345	16.0%	1,223,303	12.4%
Wastewater	12,534,242	10,781,146	12,881,726	1,753,096	14.0%	347,484	2.8%
Stormwater	2,490,898	2,356,948	3,584,490	133,950	5.4%	1,093,592	43.9%
DC Debt Charges Recoveries	(4,335,428)	(4,335,426)	(5,185,120)	(2)	0.0%	(849,692)	19.6%
Sub-Total Debt Charges	20,534,485	17,069,096	22,349,172	3,465,389	16.9%	1,814,686	8.8%
Sub-Total Capital Financing	154,903,148	151,437,759	156,437,810	3,465,389	2.2%	1,534,661	1.0%
Reserve Transfers	-	(1,425,414)	3,001,973	1,425,414	0.0%	3,001,973	0.0%
Sub-Total Capital and Reserve Impacts on Operating	154,903,148	150,012,345	159,439,782	4,890,803	3.2%	4,536,634	2.9%
TOTAL EXPENDITURES	245,554,888	242,707,906	257,850,912	2,846,982	1.2%	12,296,024	5.0%
<u>REVENUES:</u>							
<u>Rate Revenue</u>							
Residential	107,653,756	110,053,756	113,919,774	2,400,000	2.2%	6,266,018	5.8%
Industrial/Commercial/Institutional/Multi-res	118,417,217	113,967,217	123,323,962	(4,450,000)	(3.8%)	4,906,745	4.1%
Haldimand	2,588,952	2,588,952	2,834,077	-	0.0%	245,125	9.5%
Halton	269,837	269,837	282,410	-	0.0%	12,573	4.7%
Raw Water	128,750	103,750	105,000	(25,000)	(19.4%)	(23,750)	(18.4%)
Non-Metered	880,000	880,000	825,000	-	0.0%	(55,000)	(6.3%)
Private Fire Lines	1,924,000	1,924,000	1,980,000	-	0.0%	56,000	2.9%
Hauler / 3rd Party Sales	1,400,000	1,950,000	1,820,000	550,000	39.3%	420,000	30.0%
Overstrength Agreements	3,210,510	3,012,854	3,306,825	(197,656)	(6.2%)	96,315	3.0%
Sewer Surcharge Agreements	6,224,456	5,600,130	6,511,190	(624,327)	(10.0%)	286,734	4.6%
Sub-Total Utility Rates	242,697,478	240,350,496	254,908,239	(2,346,982)	(1.0%)	12,210,761	5.0%
<u>Non-Rate Revenue</u>							
Local Improvement Recoveries	275,850	275,850	275,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	1,065,050	565,050	1,107,652	(500,000)	(46.9%)	42,602	4.0%
Investment Income	450,000	450,000	450,000	-	0.0%	-	0.0%
General Fees and Recoveries	1,066,510	1,066,510	1,109,170	-	0.0%	42,660	4.0%
Sub-Total Non-Rate Revenue	2,857,410	2,357,410	2,942,672	(500,000)	(17.5%)	85,262	3.0%
TOTAL REVENUES	245,554,888	242,707,906	257,850,912	(2,846,982)	(1.2%)	12,296,023	5.0%
NET EXPENDITURES	-	-	-	-	0.0%	-	0.0%

CITY OF HAMILTON
2022 - 2025 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET
COMBINED WATER, WASTEWATER AND STORM

	2021	2022	2023	2024	2025	CHANGE		CHANGE		CHANGE	
	RESTATED	REQUESTED	PROJECTED	PROJECTED	PROJECTED	2022 REQUESTED /	2023 PROJECTED /	2023 PROJECTED /	2024 PROJECTED /	2023 PROJECTED /	2024 PROJECTED /
	BUDGET	BUDGET	BUDGET	BUDGET	BUDGET	2021 RESTATED BUDGET	2022 REQUESTED BUDGET	2022 REQUESTED BUDGET	2023 PROJECTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<u>OPERATING EXPENDITURES:</u>											
Divisional Administration & Support	2,464,490	2,369,122	2,463,886	2,562,442	2,664,940	(95,368)	(3.9%)	94,765	4.0%	98,555	4.0%
Woodward Upgrades	1,735,670	1,764,829	1,835,422	1,908,839	1,985,193	29,159	1.7%	70,593	4.0%	73,417	4.0%
Customer Service	325,250	329,279	342,450	356,148	370,394	4,029	1.2%	13,171	4.0%	13,698	4.0%
Outreach & Education	1,093,813	1,111,320	1,155,773	1,202,004	1,250,084	17,507	1.6%	44,453	4.0%	46,231	4.0%
Service Co-ordination	3,500,605	3,581,202	3,724,450	3,873,428	4,028,365	80,597	2.3%	143,248	4.0%	148,978	4.0%
Engineering Systems & Data Collection	1,172,372	1,153,746	1,199,896	1,247,892	1,297,808	(18,626)	(1.6%)	46,150	4.0%	47,996	4.0%
Compliance & Regulations	1,005,054	1,019,823	1,060,616	1,103,040	1,147,162	14,769	1.5%	40,793	4.0%	42,425	4.0%
Laboratory Services	3,553,884	3,743,598	3,893,342	4,049,076	4,211,039	189,714	5.3%	149,744	4.0%	155,734	4.0%
Environmental Monitoring & Enforcement	2,215,026	2,478,749	2,577,899	2,681,015	2,788,256	263,723	11.9%	99,150	4.0%	103,116	4.0%
Water Distribution & Wastewater Collection	21,894,147	24,122,428	25,087,325	26,090,818	27,134,451	2,228,282	10.2%	964,897	4.0%	1,003,493	4.0%
Plant Operations	27,373,740	30,409,180	31,625,548	32,890,570	34,206,192	3,035,440	11.1%	1,216,367	4.0%	1,265,022	4.0%
Plant Maintenance	10,815,523	11,708,771	12,177,122	12,664,207	13,170,775	893,248	8.3%	468,351	4.0%	487,085	4.0%
Capital Delivery	2,072,271	2,254,575	2,344,758	2,438,549	2,536,090	182,304	8.8%	90,183	4.0%	93,790	4.0%
Watershed Management	1,275,560	1,382,313	1,437,606	1,495,110	1,554,914	106,753	8.4%	55,293	4.0%	57,504	4.0%
Infrastructure Planning & System Design	2,632,320	2,672,939	2,779,856	2,891,050	3,006,692	40,619	1.5%	106,918	4.0%	111,194	4.0%
Wastewater Abatement Program	1,192,450	1,142,450	1,188,148	1,235,674	1,285,101	(50,000)	(4.2%)	45,698	4.0%	47,526	4.0%
Alectra Utilities Service Contract	5,712,000	5,826,240	6,059,290	6,301,661	6,553,728	114,240	2.0%	233,050	4.0%	242,372	4.0%
Corporate & Departmental Support Services	7,242,552	7,757,552	8,067,854	8,390,568	8,726,191	515,000	7.1%	310,302	4.0%	322,714	4.0%
Utilities Arrears Program	500,320	500,320	520,333	541,146	562,792	-	0.0%	20,013	4.0%	20,813	4.0%
Sewer Lateral Management Program	300,000	300,000	312,000	324,480	337,459	-	0.0%	12,000	4.0%	12,480	4.0%
Hamilton Harbour Remedial Action Plan	370,964	578,964	602,123	626,207	651,256	208,000	56.1%	23,159	4.0%	24,085	4.0%
Protective Plumbing Program (3P)	752,870	752,870	782,985	814,304	846,876	-	0.0%	30,115	4.0%	31,319	4.0%
Financial Charges	86,020	86,020	89,461	93,039	96,761	-	0.0%	3,441	4.0%	3,578	4.0%
	99,286,901	107,046,290	111,328,142	115,781,267	120,412,518	7,759,390	7.8%	4,281,852	4.0%	4,453,126	4.0%
Capital and Reserve Recoveries	(8,635,161)	(8,635,161)	(8,916,012)	(9,206,807)	(9,507,916)	-	0.0%	(280,852)	3.3%	(290,795)	3.3%
Sub-Total	90,651,740	98,411,129	102,412,129	106,574,460	110,904,602	7,759,390	8.6%	4,001,000	4.1%	4,162,331	4.1%
<u>Capital and Reserve Impacts on Operating</u>											
<u>Contributions to Capital</u>											
Water Quality Initiatives	50,498,000	39,539,500	72,200,000	84,925,500	94,721,500	(10,958,500)	(21.7%)	32,660,500	82.6%	12,725,500	17.6%
Wastewater	57,237,984	73,784,138	35,726,470	31,791,470	46,481,470	16,546,154	28.9%	(38,057,668)	(51.6%)	(3,935,000)	(11.0%)
Stormwater	17,632,679	11,765,000	19,640,000	24,345,000	14,255,000	(5,867,679)	(33.3%)	7,875,000	66.9%	4,705,000	24.0%
Sub-Total Contributions to Capital	125,368,663	125,088,638	127,566,470	141,061,970	155,457,970	(280,025)	(0.2%)	2,477,832	2.0%	13,495,500	10.6%
<u>Contributions for DC Exemptions</u>											
Water Quality Initiatives	2,520,000	2,520,000	2,520,000	2,520,000	2,520,000	-	0.0%	-	0.0%	-	0.0%
Wastewater	4,590,000	4,590,000	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%	-	0.0%
Stormwater	1,890,000	1,890,000	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	9,000,000	9,000,000	9,000,000	9,000,000	9,000,000	-	0.0%	-	0.0%	-	0.0%
<u>Debt Charges</u>											
Water Quality Initiatives	9,844,773	11,068,076	16,537,103	22,672,618	29,346,565	1,223,303	12.4%	5,469,028	49.4%	6,135,514	37.1%
Wastewater	12,534,242	12,881,726	20,924,014	28,829,548	37,469,380	347,484	2.8%	8,042,288	62.4%	7,905,534	37.8%
Stormwater	2,490,898	3,584,490	4,530,697	5,128,028	5,611,572	1,093,592	43.9%	946,207	26.4%	597,331	13.2%
DC Debt Charges Recoveries	(4,335,428)	(5,185,120)	(13,797,266)	(22,250,437)	(30,740,212)	(849,692)	19.6%	(8,612,146)	166.1%	(8,453,171)	61.3%
Sub-Total Debt Charges	20,534,485	22,349,172	28,194,548	34,379,757	41,687,306	1,814,686	8.8%	5,845,376	26.2%	6,185,209	21.9%
Sub-Total Capital Financing	154,903,148	156,437,810	164,761,018	184,441,727	206,145,276	1,534,661	1.0%	8,323,208	5.3%	19,680,709	11.9%
Reserve Transfers	-	3,001,973	9,034,356	5,164,576	318,142	3,001,973	0.0%	6,032,384	200.9%	(3,869,780)	(42.8%)
Sub-Total Capital and Reserve Impacts on Operating	154,903,148	159,439,782	173,795,374	189,606,303	206,463,418	4,536,634	2.9%	14,355,592	9.0%	15,810,929	9.1%
TOTAL EXPENDITURES	245,554,888	257,850,912	276,207,504	296,180,764	317,368,019	12,296,024	5.0%	18,356,592	7.1%	19,973,260	7.2%

CITY OF HAMILTON
2022 - 2025 HAMILTON WATER, WASTEWATER AND STORM OPERATING BUDGET

COMBINED WATER, WASTEWATER AND STORM

	2021 RESTATED BUDGET	2022 REQUESTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	CHANGE 2022 REQUESTED / 2021 RESTATED BUDGET	CHANGE 2023 PROJECTED / 2022 REQUESTED BUDGET	CHANGE 2024 PROJECTED / 2023 PROJECTED BUDGET			
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
REVENUES:											
Rate Revenue											
Residential	107,653,756	113,919,774	122,675,631	132,010,795	141,908,712	6,266,018	5.8%	8,755,857	7.7%	9,335,163	7.6%
Industrial/Commercial/Institutional/Multi-res	118,417,217	123,323,962	131,917,723	141,473,007	151,614,571	4,906,745	4.1%	8,593,761	7.0%	9,555,284	7.2%
Haldimand	2,588,952	2,834,077	3,140,316	3,497,108	3,879,469	245,125	9.5%	306,238	10.8%	356,793	11.4%
Halton	269,837	282,410	310,553	343,476	379,268	12,573	4.7%	28,142	10.0%	32,923	10.6%
Raw Water	128,750	105,000	109,200	113,568	118,111	(23,750)	(18.4%)	4,200	4.0%	4,368	4.0%
Non-Metered	880,000	825,000	860,000	890,000	930,000	(55,000)	(6.3%)	35,000	4.2%	30,000	3.5%
Private Fire Lines	1,924,000	1,980,000	2,059,200	2,141,568	2,227,231	56,000	2.9%	79,200	4.0%	82,368	4.0%
Hauler / 3rd Party Sales	1,400,000	1,820,000	1,892,800	1,968,512	2,047,252	420,000	30.0%	72,800	4.0%	75,712	4.0%
Overstrength Agreements	3,210,510	3,306,825	3,439,098	3,576,662	3,719,729	96,315	3.0%	132,273	4.0%	137,564	4.0%
Sewer Surcharge Agreements	6,224,456	6,511,190	6,771,637	7,042,503	7,324,203	286,734	4.6%	260,448	4.0%	270,865	4.0%
Sub-Total Utility Rates	242,697,478	254,908,239	273,176,158	293,057,199	314,148,546	12,210,761	5.0%	18,267,919	7.2%	19,881,040	7.3%
Non-Rate Revenue											
Local Improvement Recoveries	275,850	275,850	275,850	275,850	275,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	1,065,050	1,107,652	1,151,958	1,198,036	1,245,958	42,602	4.0%	44,306	4.0%	46,078	4.0%
Investment Income	450,000	450,000	450,000	450,000	450,000	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	1,066,510	1,109,170	1,153,537	1,199,679	1,247,666	42,660	4.0%	44,367	4.0%	46,141	4.0%
Sub-Total Non-Rate Revenue	2,857,410	2,942,672	3,031,345	3,123,565	3,219,474	85,262	3.0%	88,673	3.0%	92,220	3.0%
TOTAL REVENUES	245,554,888	257,850,912	276,207,504	296,180,764	317,368,019	12,296,023	5.0%	18,356,592	7.1%	19,973,260	7.2%
NET EXPENDITURES	(0)	-	-	-	-	0	0.0%	(0)	0.0%	(0)	0.0%

CITY OF HAMILTON
2022-2031 HAMILTON WATER, WASTEWATER & STORM OPERATING BUDGET
COMBINED WATER, WASTEWATER AND STORM
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	2021 Restated	2022 Requested	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast
OPERATING EXPENDITURES											
OPERATING COSTS	90,652	98,411	102,412	106,574	110,905	114,283	117,776	121,387	125,121	128,981	132,973
TOTAL OPERATING COSTS	90,652	98,411	102,412	106,574	110,905	114,283	117,776	121,387	125,121	128,981	132,973
CAPITAL & RESERVE IMPACTS ON OPERATING											
Contributions to Capital											
Water	50,498	39,540	72,200	84,926	94,722	87,332	70,004	74,393	77,821	75,734	71,991
Wastewater	57,238	73,784	35,726	31,791	46,481	72,871	78,996	82,656	89,186	90,106	100,696
Stormwater	17,633	11,765	19,640	24,345	14,255	10,265	32,055	34,265	33,855	32,215	33,355
Sub-total Contributions to Capital	125,369	125,089	127,566	141,062	155,458	170,468	181,055	191,314	200,862	198,055	206,042
Contributions for DC Exemptions											
Water	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
Wastewater	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590
Stormwater	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890
Sub-total Contributions to Capital	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000
Debt Charges											
Water	9,845	11,068	16,537	22,673	29,347	33,702	34,795	35,057	35,325	33,856	33,779
Wastewater	12,534	12,882	20,924	28,830	37,469	44,805	50,966	56,025	59,603	58,873	58,812
Stormwater	2,491	3,584	4,531	5,128	5,612	5,826	6,129	6,717	7,176	7,317	7,026
DC Debt Charges Recoveries	(4,335)	(5,185)	(13,797)	(22,250)	(30,740)	(39,309)	(47,871)	(55,256)	(58,669)	(58,695)	(58,720)
Sub-total Debt Charges	20,534	22,349	28,195	34,380	41,687	45,024	44,019	42,543	43,435	41,351	40,898
Reserve Transfers	-	3,002	9,034	5,165	318	1,530	2,822	4,171	5,625	22,038	26,078
Sub-Total Capital & Reserve Impacts on Operating	154,903	159,440	173,795	189,606	206,463	226,022	236,897	247,028	258,922	270,445	282,018
TOTAL EXPENDITURES	245,555	257,851	276,208	296,181	317,368	340,306	354,674	368,416	384,043	399,426	414,991
REVENUES											
Residential	107,654	113,920	122,676	132,011	141,909	152,670	160,123	167,140	175,691	184,277	193,007
Industrial/Commercial/Institutional/Multi-res	118,417	123,324	131,918	141,473	151,615	162,636	168,666	174,493	180,646	186,505	192,365
Haldimand	2,589	2,834	3,140	3,497	3,879	4,301	4,454	4,595	4,737	4,866	4,995
Halton	270	282	311	343	379	420	434	448	463	476	490
Raw Water	129	105	109	114	118	122	125	129	133	137	141
Non-Metered	880	825	860	890	930	970	1,010	1,050	1,090	1,130	1,180
Private Fire Lines	1,924	1,980	2,059	2,142	2,227	2,294	2,363	2,434	2,507	2,582	2,659
Hauler / 3rd Party Sales	1,400	1,820	1,893	1,969	2,047	2,109	2,172	2,238	2,306	2,376	2,448
Overstrength Agreements	3,211	3,307	3,439	3,577	3,720	3,869	4,023	4,184	4,352	4,526	4,707
Sewer Surcharge Agreements	6,224	6,511	6,772	7,043	7,324	7,617	7,922	8,239	8,568	8,911	9,267
Non-Rate Revenue	2,857	2,943	3,031	3,124	3,219	3,299	3,381	3,465	3,552	3,641	3,732
TOTAL REVENUES	245,555	257,851	276,208	296,181	317,368	340,306	354,674	368,416	384,043	399,426	414,991
NET EXPENDITURES	(0)	-	-	-	-	-	-	-	-	-	-
Rate Increase	4.28%	4.98%	6.49%	6.45%	6.36%	6.46%	3.76%	3.29%	3.98%	3.76%	3.62%
RESIDENTIAL BILL (200m³ p.a.)	\$ 784.80	\$ 823.85	\$ 877.30	\$ 933.90	\$ 993.30	\$ 1,057.50	\$ 1,097.30	\$ 1,133.45	\$ 1,178.55	\$ 1,222.85	\$ 1,267.15

CITY OF HAMILTON
2022 HAMILTON WATER OPERATING BUDGET
WATER

	2021 RESTATED BUDGET	2021 PROJECTED ACTUAL	2022 REQUESTED BUDGET	CHANGE		CHANGE	
				2021 PROJECTED / 2021 RESTATED	ACTUAL BUDGET	2022 REQUESTED / 2021 RESTATED	BUDGET
	\$	\$	\$	\$	%	\$	%
<u>OPERATING EXPENDITURES:</u>							
Divisional Administration & Support	1,109,021	1,175,738	1,066,105	(66,717)	(6.0%)	(42,916)	(3.9%)
Customer Service	162,625	123,967	164,639	38,658	23.8%	2,014	1.2%
Outreach & Education	546,906	379,265	555,660	167,642	30.7%	8,754	1.6%
Service Co-ordination	1,785,309	1,642,785	1,826,413	142,524	8.0%	41,104	2.3%
Engineering Systems & Data Collection	586,186	285,554	576,873	300,633	51.3%	(9,313)	(1.6%)
Compliance & Regulations	502,527	479,727	509,911	22,800	4.5%	7,384	1.5%
Laboratory Services	1,125,160	1,173,015	1,185,223	(47,855)	(4.3%)	60,064	5.3%
Water Distribution & Wastewater Collection	13,308,869	14,510,647	14,663,382	(1,201,778)	(9.0%)	1,354,513	10.2%
Plant Operations	13,294,402	14,089,228	14,768,602	(794,826)	(6.0%)	1,474,200	11.1%
Plant Maintenance	5,407,762	5,364,801	5,854,386	42,961	0.8%	446,624	8.3%
Capital Delivery	932,522	965,130	1,014,559	(32,608)	(3.5%)	82,037	8.8%
Infrastructure Planning & System Design	1,184,544	1,165,371	1,202,822	19,173	1.6%	18,278	1.5%
Alectra Utilities Service Contract	2,856,000	2,866,646	2,913,120	(10,646)	(0.4%)	57,120	2.0%
Corporate & Departmental Support Services	3,259,148	3,311,609	3,490,898	(52,461)	(1.6%)	231,750	7.1%
Utilities Arrears Program	250,160	177,040	250,160	73,120	29.2%	-	0.0%
	46,311,140	47,710,521	50,042,754	(1,399,381)	(3.0%)	3,731,614	8.1%
Capital and Reserve Recoveries	(3,227,744)	(3,219,011)	(3,227,744)	(8,733)	0.3%	-	0.0%
Sub-Total	\$ 43,083,397	\$ 44,491,511	\$ 46,815,011	\$ (1,408,114)	(3.3%)	\$ 3,731,614	8.7%
<u>Capital and Reserve Impacts on Operating</u>							
<u>Contributions to Capital</u>							
Water Quality Initiatives	50,498,000	50,498,000	39,539,500	-	0.0%	(10,958,500)	(21.7%)
Wastewater	-	-	-	-	-	-	-
Stormwater	-	-	-	-	-	-	-
Sub-Total Contributions to Capital	50,498,000	50,498,000	39,539,500	-	0.0%	(10,958,500)	(21.7%)
<u>Contributions for DC Exemptions</u>							
Water Quality Initiatives	2,520,000	2,520,000	2,520,000	-	0.0%	-	0.0%
Wastewater	-	-	-	-	-	-	-
Stormwater	-	-	-	-	-	-	-
Sub-Total Contributions for DC Exemptions	2,520,000	2,520,000	2,520,000	-	0.0%	-	0.0%

CITY OF HAMILTON
2022 HAMILTON WATER OPERATING BUDGET
WATER

	2021	2021	2022	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2021 PROJECTED / 2021 RESTATED BUDGET	ACTUAL	2022 REQUESTED / 2021 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
Debt Charges							
Water Quality Initiatives	9,844,773	8,266,428	11,068,076	1,578,345	16.0%	1,223,303	12.4%
Wastewater	-	-	-	-		-	
Stormwater	-	-	-	-		-	
DC Debt Charges Recoveries	(1,110,541)	(1,110,541)	(1,419,924)	-	0.0%	(309,383)	27.9%
Sub-Total Debt Charges	8,734,232	7,155,887	9,648,152	1,578,345	18.1%	913,920	10.5%
Sub-Total Capital Financing	61,752,232	60,173,887	51,707,652	1,578,345	2.6%	(10,044,580)	(16.3%)
Reserve Transfers	13,473,750	12,466,124	26,221,925	1,007,626	7.5%	12,748,175	94.6%
Sub-Total Cap/Reserve Impacts on Operating	75,225,982	72,640,011	77,929,577	2,585,971	3.4%	2,703,595	3.6%
TOTAL EXPENDITURES	118,309,378	117,131,521	124,744,587	1,177,857	1.0%	6,435,209	5.4%
REVENUES:							
Rate Revenue							
Residential	52,204,561	53,404,561	55,608,691	1,200,000	2.3%	3,404,130	6.5%
Industrial/Commercial/Institutional/Multi-res	57,888,030	55,638,030	60,378,450	(2,250,000)	(3.9%)	2,490,420	4.3%
Haldimand	2,588,952	2,588,952	2,834,077	-	0.0%	245,125	9.5%
Halton	269,837	269,837	282,410	-	0.0%	12,573	4.7%
Raw Water	128,750	103,750	105,000	(25,000)	(19.4%)	(23,750)	(18.4%)
Non-Metered	440,000	440,000	412,500	-	0.0%	(27,500)	(6.3%)
Private Fire Lines	1,924,000	1,924,000	1,980,000	-	0.0%	56,000	2.9%
Hauler / 3rd Party Sales	700,000	997,143	910,000	297,143	42.4%	210,000	30.0%
Sub-Total Utility Rates	116,144,130	115,366,273	122,511,129	(777,857)	(0.7%)	6,366,999	5.5%
Non-Rate Revenue							
Local Improvement Recoveries	10,000	10,000	10,000	-	0.0%	-	0.0%
Permits / Leases / Agreements	852,040	452,040	886,122	(400,000)	(46.9%)	34,082	4.0%
Investment Income	450,000	450,000	450,000	-	0.0%	-	0.0%
General Fees and Recoveries	853,208	853,208	887,336	-	0.0%	34,128	4.0%
Sub-Total Non-Rate Revenue	2,165,248	1,765,248	2,233,458	(400,000)	(18.5%)	68,210	3.2%
TOTAL REVENUES	118,309,378	117,131,521	124,744,587	(1,177,857)	(1.0%)	6,435,209	5.4%
NET EXPENDITURES	-	-	-	-	0.0%	-	0.0%

CITY OF HAMILTON
2022 - 2025 HAMILTON WATER OPERATING BUDGET
WATER

	2021	2022	2023	2024	2025	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2022 REQUESTED / 2021 RESTATED BUDGET		2023 PROJECTED / 2022 REQUESTED BUDGET		2024 PROJECTED / 2023 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
<u>OPERATING EXPENDITURES:</u>											
Divisional Administration & Support	1,109,021	1,066,105	1,108,749	1,153,099	1,199,223	(42,916)	(3.9%)	42,644	4.0%	44,350	4.0%
Customer Service	162,625	164,639	171,225	178,074	185,197	2,014	1.2%	6,586	4.0%	6,849	4.0%
Outreach & Education	546,906	555,660	577,886	601,002	625,042	8,754	1.6%	22,226	4.0%	23,115	4.0%
Service Co-ordination	1,785,309	1,826,413	1,899,470	1,975,448	2,054,466	41,104	2.3%	73,057	4.0%	75,979	4.0%
Engineering Systems & Data Collection	586,186	576,873	599,948	623,946	648,904	(9,313)	(1.6%)	23,075	4.0%	23,998	4.0%
Compliance & Regulations	502,527	509,911	530,308	551,520	573,581	7,384	1.5%	20,396	4.0%	21,212	4.0%
Laboratory Services	1,125,160	1,185,223	1,232,632	1,281,937	1,333,215	60,064	5.3%	47,409	4.0%	49,305	4.0%
Water Distribution & Wastewater Collection	13,308,869	14,663,382	15,249,917	15,859,914	16,494,311	1,354,513	10.2%	586,535	4.0%	609,997	4.0%
Plant Operations	13,294,402	14,768,602	15,359,346	15,973,720	16,612,669	1,474,200	11.1%	590,744	4.0%	614,374	4.0%
Plant Maintenance	5,407,762	5,854,386	6,088,561	6,332,103	6,585,388	446,624	8.3%	234,175	4.0%	243,542	4.0%
Capital Delivery	932,522	1,014,559	1,055,141	1,097,347	1,141,241	82,037	8.8%	40,582	4.0%	42,206	4.0%
Infrastructure Planning & System Design	1,184,544	1,202,822	1,250,935	1,300,973	1,353,012	18,278	1.5%	48,113	4.0%	50,037	4.0%
Alectra Utilities Service Contract	2,856,000	2,913,120	3,029,645	3,150,831	3,276,864	57,120	2.0%	116,525	4.0%	121,186	4.0%
Corporate & Departmental Support Services	3,259,148	3,490,898	3,630,534	3,775,756	3,926,786	231,750	7.1%	139,636	4.0%	145,221	4.0%
Utilities Arrears Program	250,160	250,160	260,166	270,573	281,396	-	0.0%	10,006	4.0%	10,407	4.0%
	46,311,140	50,042,754	52,044,464	54,126,243	56,291,293	3,731,614	8.1%	2,001,710	4.0%	2,081,779	4.0%
Capital and Reserve Recoveries	(3,227,744)	(3,227,744)	(3,292,299)	(3,358,145)	(3,425,307)	-	0.0%	(64,555)	2.0%	(65,846)	2.0%
Sub-Total	43,083,397	46,815,011	48,752,166	50,768,098	52,865,985	3,731,614	8.7%	1,937,155	4.1%	2,015,933	4.1%
<u>Capital and Reserve Impacts on Operating</u>											
<u>Contributions to Capital</u>											
Water Quality Initiatives	50,498,000	39,539,500	72,200,000	84,925,500	94,721,500	(10,958,500)	(21.7%)	32,660,500	82.6%	12,725,500	17.6%
Sub-Total Contributions to Capital	50,498,000	39,539,500	72,200,000	84,925,500	94,721,500	(10,958,500)	(21.7%)	32,660,500	82.6%	12,725,500	17.6%
<u>Contributions for DC Exemptions</u>											
Water Quality Initiatives	2,520,000	2,520,000	2,520,000	2,520,000	2,520,000	-	0.0%	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	2,520,000	2,520,000	2,520,000	2,520,000	2,520,000	-	0.0%	-	0.0%	-	0.0%
<u>Capital Debt Charges</u>											
Water Quality Initiatives	9,844,773	11,068,076	16,537,103	22,672,618	29,346,565	1,223,303	12.4%	5,469,028	49.4%	6,135,514	37.1%
DC Debt Charges Recoveries	(1,110,541)	(1,419,924)	(4,304,222)	(7,737,780)	(11,650,971)	(309,383)	27.9%	(2,884,298)	203.1%	(3,433,558)	79.8%
Sub-Total Debt Charges	8,734,232	9,648,152	12,232,881	14,934,837	17,695,594	913,920	10.5%	2,584,730	26.8%	2,701,956	22.1%
Sub-Total Capital Financing	61,752,232	51,707,652	86,952,881	102,380,337	114,937,094	(10,044,580)	(16.3%)	35,245,230	68.2%	15,427,456	17.7%
Reserve Transfers	13,473,750	26,221,925	835,851	(3,100,939)	(3,116,879)	12,748,175	94.6%	(25,386,074)	(96.8%)	(3,936,789)	(471.0%)
Sub-Total Capital and Reserve Impacts on Operating	75,225,982	77,929,577	87,788,732	99,279,399	111,820,215	2,703,595	3.6%	9,859,155	12.7%	11,490,667	13.1%
TOTAL EXPENDITURES	118,309,378	124,744,587	136,540,898	150,047,497	164,686,200	6,435,209	5.4%	11,796,311	9.5%	13,506,599	9.9%

CITY OF HAMILTON
2022 - 2025 HAMILTON WATER OPERATING BUDGET
WATER

	2021	2022	2023	2024	2025	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2022 REQUESTED / 2021 RESTATED BUDGET		2023 PROJECTED / 2022 REQUESTED BUDGET		2024 PROJECTED / 2023 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
REVENUES:											
Rate Revenue											
Residential	52,204,561	55,608,691	60,878,580	66,918,871	73,463,614	3,404,130	6.5%	5,269,889	9.5%	6,040,291	9.9%
Industrial/Commercial/Institutional/Multi-res	57,888,030	60,378,450	66,362,253	73,225,477	80,674,982	2,490,420	4.3%	5,983,803	9.9%	6,863,224	10.3%
Haldimand	2,588,952	2,834,077	3,140,316	3,497,108	3,879,469	245,125	9.5%	306,238	10.8%	356,793	11.4%
Halton	269,837	282,410	310,553	343,476	379,268	12,573	4.7%	28,142	10.0%	32,923	10.6%
Raw Water	128,750	105,000	109,200	113,568	118,111	(23,750)	(18.4%)	4,200	4.0%	4,368	4.0%
Non-Metered	440,000	412,500	430,000	445,000	465,000	(27,500)	(6.3%)	17,500	4.2%	15,000	3.5%
Private Fire Lines	1,924,000	1,980,000	2,059,200	2,141,568	2,227,231	56,000	2.9%	79,200	4.0%	82,368	4.0%
Hauler / 3rd Party Sales	700,000	910,000	946,400	984,256	1,023,626	210,000	30.0%	36,400	4.0%	37,856	4.0%
Sub-Total Utility Rates	116,144,130	122,511,129	134,236,502	147,669,325	162,231,301	6,366,999	5.5%	11,725,372	9.6%	13,432,823	10.0%
Non-Rate Revenue											
Local Improvement Recoveries	10,000	10,000	10,000	10,000	10,000	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	852,040	886,122	921,566	958,429	996,766	34,082	4.0%	35,445	4.0%	36,863	4.0%
Investment Income	450,000	450,000	450,000	450,000	450,000	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	853,208	887,336	922,830	959,743	998,133	34,128	4.0%	35,493	4.0%	36,913	4.0%
Sub-Total Non-Rate Revenue	2,165,248	2,233,458	2,304,396	2,378,172	2,454,899	68,210	3.2%	70,938	3.2%	73,776	3.2%
TOTAL REVENUES	118,309,378	124,744,587	136,540,898	150,047,497	164,686,200	6,435,209	5.4%	11,796,311	9.5%	13,506,599	9.9%
NET EXPENDITURES	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%

CITY OF HAMILTON
2022-2031 HAMILTON WATER OPERATING BUDGET
WATER
(000s)

	2021 Restated	2022 Requested	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast
OPERATING EXPENDITURES											
OPERATING COSTS	43,083	46,815	48,752	50,768	52,866	53,923	55,002	56,102	57,224	58,368	59,536
TOTAL OPERATING COSTS	43,083	46,815	48,752	50,768	52,866	53,923	55,002	56,102	57,224	58,368	59,536
CAPITAL & RESERVE IMPACTS ON OPERATING											
Contributions to Capital											
Water	50,498	39,540	72,200	84,926	94,722	87,332	70,004	74,393	77,821	75,734	71,991
Sub-total Contributions to Capital	50,498	39,540	72,200	84,926	94,722	87,332	70,004	74,393	77,821	75,734	71,991
Contributions for DC Exemptions											
Water	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
Sub-total Contributions to Capital	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520	2,520
Debt Charges											
Water	9,845	11,068	16,537	22,673	29,347	33,702	34,795	35,057	35,325	33,856	33,779
DC Debt Charges Recoveries	(1,111)	(1,420)	(4,304)	(7,738)	(11,651)	(14,921)	(16,946)	(17,882)	(18,056)	(18,056)	(18,055)
Sub-total Debt Charges	8,734	9,648	12,233	14,935	17,696	18,781	17,849	17,175	17,268	15,801	15,725
Reserve Transfers	13,474	26,222	836	(3,101)	(3,116.879)	18,431	42,691	45,194	48,532	58,589	68,963
Sub-Total Capital & Reserve Impacts on Operating	75,226	77,930	87,789	99,279	111,820	127,064	133,064	139,282	146,141	152,644	159,199
TOTAL EXPENDITURES	118,309	124,745	136,541	150,047	164,686	180,987	188,066	195,384	203,365	211,012	218,734
REVENUES											
Residential	52,205	55,609	60,879	66,919	73,464	80,814	84,510	88,452	92,849	97,211	101,644
Industrial/Commercial/Institutional/Multi-res	57,888	60,378	66,362	73,225	80,675	89,004	92,056	95,109	98,365	101,335	104,298
Haldimand	2,589	2,834	3,140	3,497	3,879	4,301	4,454	4,595	4,737	4,866	4,995
Halton	270	282	311	343	379	420	434	448	463	476	490
Raw Water	129	105	109	114	118	122	125	129	133	137	141
Non-Metered	440	413	430	445	465	485	505	525	545	565	590
Private Fire Lines	1,924	1,980	2,059	2,142	2,227	2,294	2,363	2,434	2,507	2,582	2,659
Hauler / 3rd Party Sales	700	910	946	984	1,024	1,044	1,065	1,086	1,108	1,130	1,153
Non-Rate Revenue	2,165	2,233	2,304	2,378	2,455	2,504	2,554	2,605	2,657	2,710	2,765
TOTAL REVENUES	118,309	124,745	136,541	150,047	164,686	180,987	188,066	195,384	203,365	211,012	218,734
NET EXPENDITURES	-	-	-	-	-	-	-	-	-	-	-
Rate Increase	3.3%	5.7%	8.4%	8.8%	8.7%	9.0%	3.5%	3.6%	3.9%	3.6%	3.5%
RESIDENTIAL BILL (200m³ p.a.)	\$ 376.70	\$ 398.05	\$ 431.35	\$ 469.45	\$ 510.35	\$ 556.05	\$ 575.35	\$ 595.85	\$ 618.80	\$ 640.95	\$ 663.10

CITY OF HAMILTON
2022 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
COMBINED WASTEWATER AND STORM

	2021 RESTATED BUDGET	2021 PROJECTED ACTUAL	2022 REQUESTED BUDGET	CHANGE		CHANGE	
				2021 PROJECTED ACTUAL / 2021 RESTATED BUDGET		2022 REQUESTED / 2021 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<u>OPERATING EXPENDITURES:</u>							
Divisional Administration & Support	1,355,470	1,437,013	1,303,017	(81,543)	(6.0%)	(52,453)	(3.9%)
Woodward Upgrades	1,735,670	1,835,177	1,764,829	(99,507)	(5.7%)	29,159	1.7%
Customer Service	162,625	123,967	164,639	38,658	23.8%	2,014	1.2%
Outreach & Education	546,906	379,265	555,660	167,642	30.7%	8,754	1.6%
Service Co-ordination	1,715,297	1,578,362	1,754,789	136,935	8.0%	39,492	2.3%
Engineering Systems & Data Collection	586,186	285,554	576,873	300,633	51.3%	(9,313)	(1.6%)
Compliance & Regulations	502,527	479,727	509,911	22,800	4.5%	7,384	1.5%
Laboratory Services	2,428,724	2,532,022	2,558,375	(103,298)	(4.3%)	129,651	5.3%
Environmental Monitoring & Enforcement	2,215,026	2,099,337	2,478,749	115,689	5.2%	263,723	11.9%
Water Distribution & Wastewater Collection	8,585,278	9,360,520	9,459,046	(775,242)	(9.0%)	873,769	10.2%
Plant Operations	14,079,338	14,921,092	15,640,578	(841,754)	(6.0%)	1,561,240	11.1%
Plant Maintenance	5,407,762	5,364,801	5,854,386	42,961	0.8%	446,624	8.3%
Capital Delivery	1,139,749	1,179,603	1,240,016	(39,854)	(3.5%)	100,267	8.8%
Watershed Management	1,275,560	1,016,538	1,382,313	259,022	20.3%	106,753	8.4%
Infrastructure Planning & System Design	1,447,776	1,424,343	1,470,116	23,433	1.6%	22,340	1.5%
Wastewater Abatement Program	1,192,450	887,579	1,142,450	304,872	25.6%	(50,000)	(4.2%)
Alectra Utilities Service Contract	2,856,000	2,866,646	2,913,120	(10,646)	(0.4%)	57,120	2.0%
Corporate & Departmental Support Services	3,983,403	4,047,522	4,266,653	(64,119)	(1.6%)	283,250	7.1%
Utilities Arrears Program	250,160	177,040	250,160	73,120	29.2%	-	0.0%
Sewer Lateral Management Program	300,000	299,796	300,000	204	0.1%	-	0.0%
Hamilton Harbour Remedial Action Plan	370,964	547,987	578,964	(177,023)	(47.7%)	208,000	56.1%
Protective Plumbing Program (3P)	752,870	666,929	752,870	85,942	11.4%	-	0.0%
Financial Charges	86,020	86,020	86,020	-	0.0%	-	0.0%
	52,975,760	53,596,837	57,003,536	(621,077)	(1.2%)	4,027,776	7.6%
Capital and Reserve Recoveries	(5,407,417)	(5,392,787)	(5,407,417)	(14,630)	0.3%	-	0.0%
Sub-Total	47,568,343	48,204,050	51,596,119	(635,707)	(1.3%)	4,027,776	8.5%
<u>Capital and Reserve Impacts on Operating</u>							
<u>Contributions to Capital</u>							
Water Quality Initiatives	-	-	-	-	0.0%	-	0.0%
Wastewater	57,237,984	57,237,984	73,784,138	-	0.0%	16,546,154	28.9%
Stormwater	17,632,679	17,632,679	11,765,000	-	0.0%	(5,867,679)	(33.3%)
Sub-Total Contributions to Capital	74,870,663	74,870,663	85,549,138	-	0.0%	10,678,475	14.3%
<u>Contributions for DC Exemptions</u>							
Water Quality Initiatives	-	-	-	-	0.0%	-	0.0%
Wastewater	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%
Stormwater	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	6,480,000	6,480,000	6,480,000	-	0.0%	-	0.0%

CITY OF HAMILTON
2022 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
COMBINED WASTEWATER AND STORM

	2021	2021	2022	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2021 PROJECTED / 2021 RESTATED BUDGET	ACTUAL	2022 REQUESTED / 2021 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<u>Debt Charges</u>							
Water Quality Initiatives	-	-	-	-	0.0%	-	0.0%
Wastewater	12,534,242	10,781,146	12,881,726	1,753,096	14.0%	347,484	2.8%
Stormwater	2,490,898	2,356,948	3,584,490	133,950	5.4%	1,093,592	43.9%
DC Debt Charges Recoveries	(3,224,887)	(3,224,885)	(3,765,196)	(2)	0.0%	(540,309)	16.8%
Sub-Total Debt Charges	11,800,254	9,913,210	12,701,020	1,887,044	16.0%	900,766	7.6%
Sub-Total Capital Financing	93,150,917	91,263,873	104,730,158	1,887,044	2.0%	11,579,241	12.4%
Reserve Transfers	(13,473,749)	(13,891,538)	(23,219,952)	417,789	(3.1%)	(9,746,203)	72.3%
Sub-Total Capital and Reserve Impacts on Operating	79,677,167	77,372,334	81,510,206	2,304,833	2.9%	1,833,039	2.3%
TOTAL EXPENDITURES	127,245,510	125,576,385	133,106,324	1,669,125	1.3%	5,860,814	4.6%
<u>REVENUES:</u>							
<u>Rate Revenue</u>							
Residential	55,449,195	56,649,195	58,311,083	1,200,000	2.2%	2,861,888	5.2%
Industrial/Commercial/Institutional/Multi-res	60,529,187	58,329,187	62,945,512	(2,200,000)	(3.6%)	2,416,325	4.0%
Non-Metered	440,000	440,000	412,500	-	0.0%	(27,500)	(6.3%)
Hauler / 3rd Party Sales	700,000	952,857	910,000	252,857	36.1%	210,000	30.0%
Overstrength Agreements	3,210,510	3,012,854	3,306,825	(197,656)	(6.2%)	96,315	3.0%
Sewer Surcharge Agreements	6,224,456	5,600,130	6,511,190	(624,327)	(10.0%)	286,734	4.6%
Sub-Total Utility Rates	126,553,348	124,984,223	132,397,110	(1,569,125)	(1.2%)	5,843,762	4.6%
<u>Non-Rate Revenue</u>							
Local Improvement Recoveries	265,850	265,850	265,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	213,010	113,010	221,530	(100,000)	(46.9%)	8,520	4.0%
Investment Income	-	-	-	-	0.0%	-	0.0%
General Fees and Recoveries	213,302	213,302	221,834	-	0.0%	8,532	4.0%
Sub-Total Non-Rate Revenue	692,162	592,162	709,214	(100,000)	(14.4%)	17,052	2.5%
TOTAL REVENUES	127,245,510	125,576,385	133,106,324	(1,669,125)	(1.3%)	5,860,814	4.6%
NET EXPENDITURES	-	-	-	-	0.0%	-	0.0%

**CITY OF HAMILTON
2022 - 2025 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
COMBINED WASTEWATER AND STORM**

	2021 RESTATED BUDGET	2022 REQUESTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	CHANGE 2022 REQUESTED / 2021 RESTATED BUDGET		CHANGE 2023 PROJECTED / 2022 REQUESTED BUDGET		CHANGE 2024 PROJECTED / 2023 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
OPERATING EXPENDITURES:											
Divisional Administration & Support	1,355,470	1,303,017	1,355,138	1,409,343	1,465,717	(52,453)	(3.9%)	52,121	4.0%	54,206	4.0%
Woodward Upgrades	1,735,670	1,764,829	1,835,422	1,908,839	1,985,193	29,159	1.7%	70,593	4.0%	73,417	4.0%
Customer Service	162,625	164,639	171,225	178,074	185,197	2,014	1.2%	6,586	4.0%	6,849	4.0%
Outreach & Education	546,906	555,660	577,886	601,002	625,042	8,754	1.6%	22,226	4.0%	23,115	4.0%
Service Co-ordination	1,715,297	1,754,789	1,824,981	1,897,980	1,973,899	39,492	2.3%	70,192	4.0%	72,999	4.0%
Engineering Systems & Data Collection	586,186	576,873	599,948	623,946	648,904	(9,313)	(1.6%)	23,075	4.0%	23,998	4.0%
Compliance & Regulations	502,527	509,911	530,308	551,520	573,581	7,384	1.5%	20,396	4.0%	21,212	4.0%
Laboratory Services	2,428,724	2,558,375	2,660,710	2,767,138	2,877,824	129,651	5.3%	102,335	4.0%	106,428	4.0%
Environmental Monitoring & Enforcement	2,215,026	2,478,749	2,577,899	2,681,015	2,788,256	263,723	11.9%	99,150	4.0%	103,116	4.0%
Water Distribution & Wastewater Collection	8,585,278	9,459,046	9,837,408	10,230,904	10,640,140	873,769	10.2%	378,362	4.0%	393,496	4.0%
Plant Operations	14,079,338	15,640,578	16,266,201	16,916,849	17,593,523	1,561,240	11.1%	625,623	4.0%	650,648	4.0%
Plant Maintenance	5,407,762	5,854,386	6,088,561	6,332,103	6,585,388	446,624	8.3%	234,175	4.0%	243,542	4.0%
Capital Delivery	1,139,749	1,240,016	1,289,617	1,341,202	1,394,850	100,267	8.8%	49,601	4.0%	51,585	4.0%
Watershed Management	1,275,560	1,382,313	1,437,606	1,495,110	1,554,914	106,753	8.4%	55,293	4.0%	57,504	4.0%
Infrastructure Planning & System Design	1,447,776	1,470,116	1,528,921	1,590,078	1,653,681	22,340	1.5%	58,805	4.0%	61,157	4.0%
Wastewater Abatement Program	1,192,450	1,142,450	1,188,148	1,235,674	1,285,101	(50,000)	(4.2%)	45,698	4.0%	47,526	4.0%
Alectra Utilities Service Contract	2,856,000	2,913,120	3,029,645	3,150,831	3,276,864	57,120	2.0%	116,525	4.0%	121,186	4.0%
Corporate & Departmental Support Services	3,983,403	4,266,653	4,437,320	4,614,812	4,799,405	283,250	7.1%	170,666	4.0%	177,493	4.0%
Utilities Arrears Program	250,160	250,160	260,166	270,573	281,396	-	0.0%	10,006	4.0%	10,407	4.0%
Sewer Lateral Management Program	300,000	300,000	312,000	324,480	337,459	-	0.0%	12,000	4.0%	12,480	4.0%
Hamilton Harbour Remedial Action Plan	370,964	578,964	602,123	626,207	651,256	208,000	56.1%	23,159	4.0%	24,085	4.0%
Protective Plumbing Program (3P)	752,870	752,870	782,985	814,304	846,876	-	0.0%	30,115	4.0%	31,319	4.0%
Financial Charges	86,020	86,020	89,461	93,039	96,761	-	0.0%	3,441	4.0%	3,578	4.0%
	52,975,760	57,003,536	59,283,677	61,655,024	64,121,225	4,027,776	7.6%	2,280,141	4.0%	2,371,347	4.0%
Capital and Reserve Recoveries	(5,407,417)	(5,407,417)	(5,623,714)	(5,848,662)	(6,082,609)	-	0.0%	(216,297)	4.0%	(224,949)	4.0%
Sub-Total	47,568,343	51,596,119	53,659,963	55,806,362	58,038,616	4,027,776	8.5%	2,063,845	4.0%	2,146,399	4.0%
Capital and Reserve Impacts on Operating											
Contributions to Capital											
Wastewater	57,237,984	73,784,138	35,726,470	31,791,470	46,481,470	16,546,154	28.9%	(38,057,668)	(51.6%)	(3,935,000)	(11.0%)
Stormwater	17,632,679	11,765,000	19,640,000	24,345,000	14,255,000	(5,867,679)	(33.3%)	7,875,000	66.9%	4,705,000	24.0%
Sub-Total Contributions to Capital	74,870,663	85,549,138	55,366,470	56,136,470	60,736,470	10,678,475	14.3%	(30,182,668)	(35.3%)	770,000	1.4%
Wastewater	4,590,000	4,590,000	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%	-	0.0%
Stormwater	1,890,000	1,890,000	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	6,480,000	6,480,000	6,480,000	6,480,000	6,480,000	-	0.0%	-	0.0%	-	0.0%
Capital Debt Charges											
Wastewater	12,534,242	12,881,726	20,924,014	28,829,548	37,469,380	347,484	2.8%	8,042,288	62.4%	7,905,534	37.8%
Stormwater	2,490,898	3,584,490	4,530,697	5,128,028	5,611,572	1,093,592	43.9%	946,207	26.4%	597,331	13.2%
DC Debt Charges Recoveries	(3,224,887)	(3,765,196)	(9,493,044)	(14,512,656)	(19,089,240)	(540,309)	16.8%	(5,727,848)	152.1%	(5,019,612)	52.9%
Sub-Total Debt Charges	11,800,254	12,701,020	15,961,667	19,444,920	23,991,712	900,766	7.6%	3,260,647	25.7%	3,483,253	21.8%
Sub-Total Capital Financing	93,150,917	104,730,158	77,808,137	82,061,390	91,208,182	11,579,241	12.4%	(26,922,021)	(25.7%)	4,253,253	5.5%
Reserve Transfers	(13,473,749)	(23,219,952)	8,198,506	8,265,515	3,435,021	(9,746,203)	72.3%	31,418,458	(135.3%)	67,009	0.8%
Sub-Total Capital and Reserve Impacts on Operating	79,677,167	81,510,206	86,006,642	90,326,905	94,643,203	1,833,039	2.3%	4,496,437	5.5%	4,320,262	5.0%
TOTAL EXPENDITURES	127,245,510	133,106,324	139,666,606	146,133,267	152,681,819	5,860,814	4.6%	6,560,281	4.9%	6,466,661	4.6%

**CITY OF HAMILTON
2022 - 2025 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
COMBINED WASTEWATER AND STORM**

	2021 RESTATED BUDGET	2022 REQUESTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	CHANGE 2022 REQUESTED / 2021 RESTATED BUDGET		CHANGE 2023 PROJECTED / 2022 REQUESTED BUDGET		CHANGE 2024 PROJECTED / 2023 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
REVENUES:											
Rate Revenue											
Residential	55,449,195	58,311,083	61,797,051	65,091,923	68,445,098	2,861,888	5.2%	3,485,968	6.0%	3,294,872	5.3%
Industrial/Commercial/Institutional/Multi-res	60,529,187	62,945,512	65,555,470	68,247,529	70,939,589	2,416,325	4.0%	2,609,958	4.1%	2,692,060	4.1%
Non-Metered	440,000	412,500	430,000	445,000	465,000	(27,500)	(6.3%)	17,500	4.2%	15,000	3.5%
Hauler / 3rd Party Sales	700,000	910,000	946,400	984,256	1,023,626	210,000	30.0%	36,400	4.0%	37,856	4.0%
Overstrength Agreements	3,210,510	3,306,825	3,439,098	3,576,662	3,719,729	96,315	3.0%	132,273	4.0%	137,564	4.0%
Sewer Surcharge Agreements	6,224,456	6,511,190	6,771,637	7,042,503	7,324,203	286,734	4.6%	260,448	4.0%	270,865	4.0%
Sub-Total Utility Rates	126,553,348	132,397,110	138,939,657	145,387,874	151,917,245	5,843,762	4.6%	6,542,547	4.9%	6,448,217	4.6%
Non-Rate Revenue											
Local Improvement Recoveries	265,850	265,850	265,850	265,850	265,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	213,010	221,530	230,392	239,607	249,192	8,520	4.0%	8,861	4.0%	9,216	4.0%
Investment Income	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	213,302	221,834	230,707	239,936	249,533	8,532	4.0%	8,873	4.0%	9,228	4.0%
Sub-Total Non-Rate Revenue	692,162	709,214	726,949	745,393	764,575	17,052	2.5%	17,735	2.5%	18,444	2.5%
TOTAL REVENUES	127,245,510	133,106,324	139,666,606	146,133,267	152,681,819	5,860,814	4.6%	6,560,281	4.9%	6,466,661	4.6%
NET EXPENDITURES	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%

CITY OF HAMILTON
2022-2031 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
COMBINED WASTEWATER AND STORM
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	2021 Restated	2022 Requested	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast
OPERATING EXPENDITURES											
OPERATING COSTS	47,568	51,596	53,660	55,806	58,039	60,360	62,775	65,286	67,897	70,613	73,437
TERTIARY TREATMENT	-	-	-	-	-	-	-	-	-	-	-
TOTAL OPERATING COSTS	47,568	51,596	53,660	55,806	58,039	60,360	62,775	65,286	67,897	70,613	73,437
CAPITAL & RESERVE IMPACTS ON OPERATING											
Contributions to Capital											
Wastewater	57,238	73,784	35,726	31,791	46,481	72,871	78,996	82,656	89,186	90,106	100,696
Stormwater	17,633	11,765	19,640	24,345	14,255	10,265	32,055	34,265	33,855	32,215	33,355
Sub-total Contributions to Capital	74,871	85,549	55,366	56,136	60,736	83,136	111,051	116,921	123,041	122,321	134,051
Contributions for DC Exemptions											
Wastewater	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590	4,590
Stormwater	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890	1,890
Sub-total Contributions to Capital	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480
Debt Charges											
Wastewater	12,534	12,882	20,924	28,830	37,469	44,805	50,966	56,025	59,603	58,873	58,812
Stormwater	2,491	3,584	4,531	5,128	5,612	5,826	6,129	6,717	7,176	7,317	7,026
DC Debt Charges Recoveries	(3,225)	(3,765)	(9,493)	(14,513)	(19,089)	(24,387)	(30,925)	(37,375)	(40,613)	(40,639)	(40,666)
Sub-total Debt Charges	11,800	12,701	15,962	19,445	23,992	26,243	26,170	25,368	26,166	25,550	25,173
Reserve Transfers	(13,474)	(23,220)	8,199	8,266	3,435	(16,901)	(39,868)	(41,023)	(42,907)	(36,551)	(42,885)
Sub-Total Capital & Reserve Impacts on Operating	79,677	81,510	86,007	90,327	94,643	98,958	103,833	107,746	112,781	117,801	122,819
TOTAL EXPENDITURES	127,246	133,106	139,667	146,133	152,682	159,319	166,608	173,032	180,678	188,414	196,257
REVENUES											
Residential	55,449	58,311	61,797	65,092	68,445	71,857	75,614	78,688	82,841	87,065	91,363
Industrial/Commercial/Institutional/Multi-res	60,529	62,946	65,555	68,248	70,940	73,632	76,610	79,384	82,280	85,171	88,067
Non-Metered	440	413	430	445	465	485	505	525	545	565	590
Hauler / 3rd Party Sales	700	910	946	984	1,024	1,065	1,107	1,151	1,197	1,245	1,295
Overstrength Agreements	3,211	3,307	3,439	3,577	3,720	3,869	4,023	4,184	4,352	4,526	4,707
Sewer Surcharge Agreements	6,224	6,511	6,772	7,043	7,324	7,617	7,922	8,239	8,568	8,911	9,267
Non-Rate Revenue	692	709	727	745	765	795	827	860	894	930	967
TOTAL REVENUES	127,246	133,106	139,667	146,133	152,682	159,319	166,608	173,032	180,678	188,414	196,257
NET EXPENDITURES	-	-	-	-	-	-	-	-	-	-	-
Rate Increase	5.2%	4.3%	4.7%	4.1%	4.0%	3.8%	4.1%	3.0%	4.1%	4.0%	3.8%
RESIDENTIAL BILL (200m³ p.a.)	\$ 408.10	\$ 425.80	\$ 445.95	\$ 464.45	\$ 482.95	\$ 501.45	\$ 521.95	\$ 537.60	\$ 559.75	\$ 581.90	\$ 604.05

CITY OF HAMILTON
2022 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
WASTEWATER

	2021	2021	2022	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2021 PROJECTED / 2021 RESTATED BUDGET	ACTUAL %	2022 REQUESTED / 2021 RESTATED BUDGET	%
	\$	\$	\$	\$	%	\$	%
<u>OPERATING EXPENDITURES:</u>							
<u>Environmental Services</u>							
Divisional Administration & Support	1,109,021	1,175,738	1,066,105	(66,717)	(6.0%)	(42,916)	(3.9%)
Woodward Upgrades	1,735,670	1,835,177	1,764,829	(99,507)	(5.7%)	29,159	1.7%
Customer Service	130,100	99,173	131,711	30,927	23.8%	1,611	1.2%
Outreach & Education	437,525	303,412	444,528	134,113	30.7%	7,003	1.6%
Service Co-ordination	1,015,176	934,132	1,038,549	81,043	8.0%	23,373	2.3%
Engineering Systems & Data Collection	468,949	228,443	461,499	240,506	51.3%	(7,450)	(1.6%)
Compliance & Regulations	477,401	455,741	484,416	21,660	4.5%	7,015	1.5%
Laboratory Services	2,292,611	2,390,119	2,414,995	(97,509)	(4.3%)	122,385	5.3%
Environmental Monitoring & Enforcement	2,130,191	2,018,932	2,383,813	111,258	5.2%	253,622	11.9%
Water Distribution & Wastewater Collection	4,995,611	5,446,710	5,504,041	(451,099)	(9.0%)	508,429	10.2%
Plant Operations	13,995,543	14,832,287	15,547,491	(836,744)	(6.0%)	1,551,949	11.1%
Plant Maintenance	4,758,830	4,721,025	5,151,859	37,806	0.8%	393,029	8.3%
Capital Delivery	932,522	965,130	1,014,559	(32,608)	(3.5%)	82,037	8.8%
Infrastructure Planning & System Design	1,184,544	1,165,371	1,202,822	19,173	1.6%	18,278	1.5%
Wastewater Abatement Program	1,192,450	887,579	1,142,450	304,872	25.6%	(50,000)	(4.2%)
Alectra Utilities Service Contract	2,856,000	2,866,646	2,913,120	(10,646)	(0.4%)	57,120	2.0%
Corporate & Departmental Support Services	3,476,425	3,532,383	3,723,625	(55,958)	(1.6%)	247,200	7.1%
Utilities Arrears Program	250,160	177,040	250,160	73,120	29.2%	-	0.0%
Sewer Lateral Management Program	300,000	299,796	300,000	204	0.1%	-	0.0%
Financial Charges	86,020	86,020	86,020	-	0.0%	-	0.0%
	43,824,747	44,420,854	47,026,591	(596,107)	(1.4%)	3,201,845	7.3%
Capital and Reserve Recoveries	(3,721,817)	(3,711,748)	(3,721,817)	(10,070)	0.3%	-	0.0%
Sub-Total Environmental Services	40,102,929	40,709,106	43,304,774	(606,177)	(1.5%)	3,201,845	8.0%
<u>Capital and Reserve Impacts on Operating</u>							
<u>Contributions to Capital</u>							
Wastewater	57,237,984	57,237,984	73,784,138	-	0.0%	16,546,154	28.9%
Sub-Total Contributions to Capital	57,237,984	57,237,984	73,784,138	-	0.0%	16,546,154	28.9%
<u>Contributions for DC Exemptions</u>							
Wastewater	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%
<u>Capital Debt Charges</u>							
Wastewater	12,534,242	10,781,146	12,881,726	1,753,096	14.0%	347,484	2.8%
DC Debt Charges Recoveries	(2,928,246)	(2,928,244)	(2,993,473)	(2)	0.0%	(65,227)	2.2%
Sub-Total Debt Charges	9,605,996	7,852,902	9,888,253	1,753,094	18.2%	282,257	2.9%
Sub-Total Capital Financing	71,433,980	69,680,886	88,262,391	1,753,094	2.5%	16,828,411	23.6%

Reserve Transfers	15,708,601	15,186,392	1,539,159	522,208	3.3%	(14,169,442)	(90.2%)
Sub-Total Cap\Reserve Impacts on Operating	87,142,581	84,867,279	89,801,550	2,275,302	2.6%	2,658,969	3.1%
TOTAL EXPENDITURES	127,245,510	125,576,385	133,106,324	1,669,125	1.3%	5,860,814	4.6%
REVENUES:							
Rate Revenue							
Residential	55,449,195	56,649,195	58,311,083	1,200,000	2.2%	2,861,888	5.2%
Industrial/Commercial/Institutional/Multi-res	60,529,187	58,329,187	62,945,512	(2,200,000)	(3.6%)	2,416,325	4.0%
Non-Metered	440,000	440,000	412,500	-	0.0%	(27,500)	(6.3%)
Hauler / 3rd Party Sales	700,000	952,857	910,000	252,857	36.1%	210,000	30.0%
Overstrength Agreements	3,210,510	3,012,854	3,306,825	(197,656)	(6.2%)	96,315	3.0%
Sewer Surcharge Agreements	6,224,456	5,600,130	6,511,190	(624,327)	(10.0%)	286,734	4.6%
Sub-Total Utility Rates	126,553,348	124,984,223	132,397,110	(1,569,125)	(1.2%)	5,843,762	4.6%
Non-Rate Revenue							
Local Improvement Recoveries	265,850	265,850	265,850	-	0.0%	-	0.0%
Permits / Leases / Agreements	213,010	113,010	221,530	(100,000)	(46.9%)	8,520	4.0%
General Fees and Recoveries	213,302	213,302	221,834	-	0.0%	8,532	4.0%
	-	-	-				
Sub-Total Non-Rate Revenue	692,162	592,162	709,214	(100,000)	(14.4%)	17,052	2.5%
TOTAL REVENUES	127,245,510	125,576,385	133,106,324	(1,669,125)	(1.3%)	5,860,814	4.6%
NET EXPENDITURES	-	-	-	-	0.0%	-	0.0%

CITY OF HAMILTON
2022 - 2025 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
WASTEWATER

	2021 RESTATED BUDGET	2022 REQUESTED BUDGET	2023 PROJECTED BUDGET	2024 PROJECTED BUDGET	2025 PROJECTED BUDGET	CHANGE 2022 REQUESTED / 2021 RESTATED BUDGET		CHANGE 2023 PROJECTED / 2022 REQUESTED BUDGET		CHANGE 2024 PROJECTED / 2023 PROJECTED BUDGET	
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
OPERATING EXPENDITURES:											
Divisional Administration & Support	1,109,021	1,066,105	1,108,749	1,153,099	1,199,223	(42,916)	(3.9%)	42,644	4.0%	44,350	4.0%
Woodward Upgrades	1,735,670	1,764,829	1,835,422	1,908,839	1,985,193	29,159	1.7%	70,593	4.0%	73,417	4.0%
Customer Service	130,100	131,711	136,980	142,459	148,157	1,611	1.2%	5,268	4.0%	5,479	4.0%
Outreach & Education	437,525	444,528	462,309	480,801	500,034	7,003	1.6%	17,781	4.0%	18,492	4.0%
Service Co-ordination	1,015,176	1,038,549	1,080,091	1,123,294	1,168,226	23,373	2.3%	41,542	4.0%	43,204	4.0%
Engineering Systems & Data Collection	468,949	461,499	479,958	499,157	519,123	(7,450)	(1.6%)	18,460	4.0%	19,198	4.0%
Compliance & Regulations	477,401	484,416	503,792	523,944	544,902	7,015	1.5%	19,377	4.0%	20,152	4.0%
Laboratory Services	2,292,611	2,414,995	2,511,595	2,612,059	2,716,541	122,385	5.3%	96,600	4.0%	100,464	4.0%
Environmental Monitoring & Enforcement	2,130,191	2,383,813	2,479,165	2,578,332	2,681,465	253,622	11.9%	95,353	4.0%	99,167	4.0%
Water Distribution & Wastewater Collection	4,995,611	5,504,041	5,724,202	5,953,170	6,191,297	508,429	10.2%	220,162	4.0%	228,968	4.0%
Plant Operations	13,995,543	15,547,491	16,169,391	16,816,166	17,488,813	1,551,949	11.1%	621,900	4.0%	646,776	4.0%
Plant Maintenance	4,758,830	5,151,859	5,357,934	5,572,251	5,795,141	393,029	8.3%	206,074	4.0%	214,317	4.0%
Capital Delivery	932,522	1,014,559	1,055,141	1,097,347	1,141,241	82,037	8.8%	40,582	4.0%	42,206	4.0%
Infrastructure Planning & System Design	1,184,544	1,202,822	1,250,935	1,300,973	1,353,012	18,278	1.5%	48,113	4.0%	50,037	4.0%
Wastewater Abatement Program	1,192,450	1,142,450	1,188,148	1,235,674	1,285,101	(50,000)	(4.2%)	45,698	4.0%	47,526	4.0%
Alectra Utilities Service Contract	2,856,000	2,913,120	3,029,645	3,150,831	3,276,864	57,120	2.0%	116,525	4.0%	121,186	4.0%
Corporate & Departmental Support Services	3,476,425	3,723,625	3,872,570	4,027,473	4,188,571	247,200	7.1%	148,945	4.0%	154,903	4.0%
Utilities Arrears Program	250,160	250,160	270,166	270,573	281,396	-	0.0%	10,006	4.0%	10,407	4.0%
Sewer Lateral Management Program	300,000	300,000	312,000	324,480	337,459	-	0.0%	12,000	4.0%	12,480	4.0%
Financial Charges	86,020	86,020	89,461	93,039	96,761	-	0.0%	3,441	4.0%	3,578	4.0%
	43,824,747	47,026,591	48,907,655	50,863,961	52,898,520	3,201,845	7.3%	1,881,064	4.0%	1,956,306	4.0%
Capital and Reserve Recoveries	(3,721,817)	(3,721,817)	(3,870,690)	(4,025,518)	(4,186,538)	-	0.0%	(148,873)	4.0%	(154,828)	4.0%
Sub-Total	40,102,929	43,304,774	45,036,965	46,838,444	48,711,981	3,201,845	8.0%	1,732,191	4.0%	1,801,479	4.0%
Capital and Reserve Impacts on Operating											
Contributions to Capital											
Wastewater	57,237,984	73,784,138	35,726,470	31,791,470	46,481,470	16,546,154	28.9%	(38,057,668)	(51.6%)	(3,935,000)	(11.0%)
Sub-Total Contributions to Capital	57,237,984	73,784,138	35,726,470	31,791,470	46,481,470	16,546,154	28.9%	(38,057,668)	(51.6%)	(3,935,000)	(11.0%)
Contributions for DC Exemptions											
Wastewater	4,590,000	4,590,000	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	4,590,000	4,590,000	4,590,000	4,590,000	4,590,000	-	0.0%	-	0.0%	-	0.0%
Debt Charges											
Wastewater	12,534,242	12,881,726	20,924,014	28,829,548	37,469,380	347,484	2.8%	8,042,288	62.4%	7,905,534	37.8%
DC Debt Charges Recoveries	(2,928,246)	(2,993,473)	(7,812,680)	(12,270,939)	(16,397,892)	(65,227)	2.2%	(4,819,208)	161.0%	(4,458,258)	57.1%
Sub-Total Debt Charges	9,605,996	9,888,253	13,111,333	16,558,610	21,071,488	282,257	2.9%	3,223,080	32.6%	3,447,276	26.3%
Sub-Total Capital Financing	71,433,980	88,262,391	53,427,803	52,940,080	72,142,958	16,828,411	23.6%	(34,834,588)	(39.5%)	(487,724)	(0.9%)
Reserve Transfers	15,708,601	1,539,159	41,201,837	46,354,743	31,826,880	(14,169,442)	(90.2%)	39,662,678	2576.9%	5,152,906	12.5%
Sub-Total Capital and Reserve Impacts on Operating	87,142,581	89,801,550	94,629,641	99,294,823	103,969,838	2,658,969	3.1%	4,828,090	5.4%	4,665,182	4.9%
TOTAL EXPENDITURES	127,245,510	133,106,324	139,666,606	146,133,267	152,681,819	5,860,814	4.6%	6,560,281	4.9%	6,466,661	4.6%

REVENUES:**Rate Revenue**

Residential	55,449,195	58,311,083	61,797,051	65,091,923	68,445,098	2,861,888	5.2%	3,485,968	6.0%	3,294,872	5.3%
Industrial/Commercial/Institutional/Multi-res	60,529,187	62,945,512	65,555,470	68,247,529	70,939,589	2,416,325	4.0%	2,609,958	4.1%	2,692,060	4.1%
Non-Metered	440,000	412,500	430,000	445,000	465,000	(27,500)	(6.3%)	17,500	4.2%	15,000	3.5%
Hauler / 3rd Party Sales	700,000	910,000	946,400	984,256	1,023,626	210,000	30.0%	36,400	4.0%	37,856	4.0%
Overstrength Agreements	3,210,510	3,306,825	3,439,098	3,576,662	3,719,729	96,315	3.0%	132,273	4.0%	137,564	4.0%
Sewer Surcharge Agreements	6,224,456	6,511,190	6,771,637	7,042,503	7,324,203	286,734	4.6%	260,448	4.0%	270,865	4.0%
Sub-Total Utility Rates	126,553,348	132,397,110	138,939,657	145,387,874	151,917,245	5,843,762	4.6%	6,542,547	4.9%	6,448,217	4.6%

Non-Rate Revenue

Local Improvement Recoveries	265,850	265,850	265,850	265,850	265,850	-	0.0%	-	0.0%	-	0.0%
Permits / Leases / Agreements	213,010	221,530	230,392	239,607	249,192	8,520	4.0%	8,861	4.0%	9,216	4.0%
Investment Income	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
General Fees and Recoveries	213,302	221,834	230,707	239,936	249,533	8,532	4.0%	8,873	4.0%	9,228	4.0%
Sub-Total Non-Rate Revenue	692,162	709,214	726,949	745,393	764,575	17,052	2.5%	17,735	2.5%	18,444	2.5%

TOTAL REVENUES	127,245,510	133,106,324	139,666,606	146,133,267	152,681,819	5,860,814	4.6%	6,560,281	4.9%	6,466,661	4.6%
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NET EXPENDITURES	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
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CITY OF HAMILTON
2022 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
STORM

	2021	2021	2022	CHANGE		CHANGE	
	RESTATED BUDGET	PROJECTED ACTUAL	REQUESTED BUDGET	2021 PROJECTED / 2021 RESTATED BUDGET	ACTUAL	2022 REQUESTED / 2021 RESTATED BUDGET	
	\$	\$	\$	\$	%	\$	%
<u>OPERATING EXPENDITURES:</u>							
Divisional Administration & Support	246,449	261,275	236,912	(14,826)	(6.0%)	(9,537)	(3.9%)
Customer Service	32,525	24,793	32,928	7,732	23.8%	403	1.2%
Outreach & Education	109,381	75,853	111,132	33,528	30.7%	1,751	1.6%
Service Co-ordination	700,121	644,229	716,240	55,892	8.0%	16,119	2.3%
Engineering Systems & Data Collection	117,237	57,111	115,375	60,127	51.3%	(1,863)	(1.6%)
Compliance & Regulations	25,126	23,986	25,496	1,140	4.5%	369	1.5%
Laboratory Services	136,114	141,903	143,380	(5,789)	(4.3%)	7,266	5.3%
Environmental Monitoring & Enforcement	84,835	80,405	94,936	4,431	5.2%	10,101	11.9%
Water Distribution & Wastewater Collection	3,589,666	3,913,810	3,955,005	(324,143)	(9.0%)	365,339	10.2%
Plant Operations	83,795	88,805	93,087	(5,010)	(6.0%)	9,292	11.1%
Plant Maintenance	648,931	643,776	702,526	5,155	0.8%	53,595	8.3%
Capital Delivery	207,227	214,473	225,458	(7,246)	(3.5%)	18,230	8.8%
Watershed Management	1,275,560	1,016,538	1,382,313	259,022	20.3%	106,753	8.4%
Infrastructure Planning & System Design	263,232	258,971	267,294	4,261	1.6%	4,062	1.5%
Corporate & Departmental Support Services	506,979	515,139	543,029	(8,161)	(1.6%)	36,050	7.1%
Hamilton Harbour Remedial Action Plan	370,964	547,987	578,964	(177,023)	(47.7%)	208,000	56.1%
Protective Plumbing Program (3P)	752,870	666,929	752,870	85,942	11.4%	-	0.0%
	9,151,014	9,175,983	9,976,944	(24,970)	(0.3%)	825,931	9.0%
Capital and Reserve Recoveries	(1,685,600)	(1,681,039)	(1,685,600)	(4,561)	0.3%	-	0.0%
Sub-Total	7,465,414	7,494,944	8,291,345	(29,530)	(0.4%)	825,931	11.1%

Capital and Reserve Impacts on Operating

Contributions to Capital

Stormwater	17,632,679	17,632,679	11,765,000	-	0.0%	(5,867,679)	(33.3%)
Sub-Total Contributions to Capital	17,632,679	17,632,679	11,765,000	-	0.0%	(5,867,679)	(33.3%)

Contributions for DC Exemptions

Stormwater	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%

Capital Debt Charges

Stormwater	2,490,898	2,356,948	3,584,490	133,950	5.4%	1,093,592	43.9%
DC Debt Charges Recoveries	(296,641)	(296,641)	(771,723)	-	0.0%	(475,082)	160.2%

Sub-Total Debt Charges	2,194,257	2,060,307	2,812,767	133,950	6.1%	618,510	28.2%
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Sub-Total Capital Financing	21,716,936	21,582,986	16,467,767	133,950	0.6%	(5,249,169)	(24.2%)
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Reserve Transfers	(29,182,350)	(29,077,930)	(24,759,111)	(104,420)	0.4%	4,423,239	(15.2%)
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Sub-Total Cap\Reserve Impacts on Operating	(7,465,414)	(7,494,944)	(8,291,345)	29,530	(0.4%)	(825,931)	11.1%
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TOTAL EXPENDITURES	-	-	-	-	0.0%	-	0.0%
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NET EXPENDITURES	-	-	-	-	0.0%	-	0.0%
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CITY OF HAMILTON
2022 - 2025 HAMILTON WASTEWATER AND STORM OPERATING BUDGET
STORM

	2021	2022	2023	2024	2025	CHANGE		CHANGE		CHANGE	
	RESTATED BUDGET	REQUESTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	PROJECTED BUDGET	2022 REQUESTED / 2021 RESTATED BUDGET	%	2023 PROJECTED / 2022 REQUESTED BUDGET	%	2024 PROJECTED / 2023 PROJECTED BUDGET	%
	\$	\$	\$	\$	\$	\$	%	\$	%	\$	%
OPERATING EXPENDITURES:											
Divisional Administration & Support	246,449	236,912	246,389	256,244	266,494	(9,537)	(3.9%)	9,476	4.0%	9,856	4.0%
Customer Service	32,525	32,928	34,245	35,615	37,039	403	1.2%	1,317	4.0%	1,370	4.0%
Outreach & Education	109,381	111,132	115,577	120,200	125,008	1,751	1.6%	4,445	4.0%	4,623	4.0%
Service Co-ordination	700,121	716,240	744,890	774,686	805,673	16,119	2.3%	28,650	4.0%	29,796	4.0%
Engineering Systems & Data Collection	117,237	115,375	119,990	124,789	129,781	(1,863)	(1.6%)	4,615	4.0%	4,800	4.0%
Compliance & Regulations	25,126	25,496	26,515	27,576	28,679	369	1.5%	1,020	4.0%	1,061	4.0%
Laboratory Services	136,114	143,380	149,115	155,080	161,283	7,266	5.3%	5,735	4.0%	5,965	4.0%
Environmental Monitoring & Enforcement	84,835	94,936	98,734	102,683	106,790	10,101	11.9%	3,797	4.0%	3,949	4.0%
Water Distribution & Wastewater Collection	3,589,666	3,955,005	4,113,206	4,277,734	4,448,843	365,339	10.2%	158,200	4.0%	164,528	4.0%
Plant Operations	83,795	93,087	96,810	100,683	104,710	9,292	11.1%	3,723	4.0%	3,872	4.0%
Plant Maintenance	648,931	702,526	730,627	759,852	790,247	53,595	8.3%	28,101	4.0%	29,225	4.0%
Capital Delivery	207,227	225,458	234,476	243,855	253,609	18,230	8.8%	9,018	4.0%	9,379	4.0%
Watershed Management	1,275,560	1,382,313	1,437,606	1,495,110	1,554,914	106,753	8.4%	55,293	4.0%	57,504	4.0%
Infrastructure Planning & System Design	263,232	267,294	277,986	289,105	300,669	4,062	1.5%	10,692	4.0%	11,119	4.0%
Wastewater Abatement Program	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Alectra Utilities Service Contract	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
Corporate & Departmental Support Services	506,979	543,029	564,750	587,340	610,833	36,050	7.1%	21,721	4.0%	22,590	4.0%
Hamilton Harbour Remedial Action Plan	370,964	578,964	602,123	626,207	651,256	208,000	56.1%	23,159	4.0%	24,085	4.0%
Protective Plumbing Program (3P)	752,870	752,870	782,985	814,304	846,876	-	0.0%	30,115	4.0%	31,319	4.0%
Financial Charges	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
	9,151,014	9,976,944	10,376,022	10,791,063	11,222,706	825,931	9.0%	399,078	4.0%	415,041	4.0%
Capital and Reserve Recoveries	(1,685,600)	(1,685,600)	(1,753,024)	(1,823,145)	(1,896,071)	-	0.0%	(67,424)	4.0%	(70,121)	4.0%
Sub-Total	7,465,414	8,291,345	8,622,998	8,967,918	9,326,635	825,931	11.1%	331,654	4.0%	344,920	4.0%

Capital and Reserve Impacts on Operating

Contributions to Capital

Stormwater	17,632,679	11,765,000	19,640,000	24,345,000	14,255,000	(5,867,679)	(33.3%)	7,875,000	66.9%	4,705,000	24.0%
Sub-Total Contributions to Capital	17,632,679	11,765,000	19,640,000	24,345,000	14,255,000	(5,867,679)	(33.3%)	7,875,000	66.9%	4,705,000	24.0%

Contributions for DC Exemptions

Stormwater	1,890,000	1,890,000	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%	-	0.0%
Sub-Total Contributions for DC Exemptions	1,890,000	1,890,000	1,890,000	1,890,000	1,890,000	-	0.0%	-	0.0%	-	0.0%

Debt Charges

Stormwater	2,490,898	3,584,490	4,530,697	5,128,028	5,611,572	1,093,592	43.9%	946,207	26.4%	597,331	13.2%
DC Debt Charges Recoveries	(296,641)	(771,723)	(1,680,364)	(2,241,718)	(2,691,348)	(475,082)	160.2%	(908,640)	117.7%	(561,354)	33.4%
Sub-Total Debt Charges	2,194,257	2,812,767	2,850,333	2,886,310	2,920,224	618,510	28.2%	37,566	1.3%	35,977	1.3%

Sub-Total Capital Financing	21,716,936	16,467,767	24,380,333	29,121,310	19,065,224	(5,249,169)	(24.2%)	7,912,566	48.0%	4,740,977	19.4%
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Reserve Transfers	(29,182,350)	(24,759,111)	(33,003,332)	(38,089,229)	(28,391,859)	4,423,239	(15.2%)	(8,244,220)	33.3%	(5,085,897)	15.4%
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Sub-Total Capital and Reserve Impacts on Operating	(7,465,414)	(8,291,345)	(8,622,998)	(8,967,918)	(9,326,635)	(825,931)	11.1%	(331,654)	4.0%	(344,920)	4.0%
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TOTAL EXPENDITURES	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
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REVENUES:

NET EXPENDITURES	-	-	-	-	-	-	0.0%	-	0.0%	-	0.0%
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HAMILTON WATER
2022 RATE SUPPORTED STAFFING SUMMARY

Deptid	Deptid Description	2021 RESTATED	2022 MAINTENANCE	2022 PROGRAM CHANGES	2022 REQUESTED	2022 REQUESTED vs. 2021 RESTATED
510200	Director Hamilton Water	2.00	2.00	0.00	2.00	0.00
510202	Project Management Office	5.00	5.00	0.00	5.00	0.00
510203	WWW Operations Director	2.00	2.00	0.00	2.00	0.00
510205	Woodward Upgrades	7.00	7.00	0.00	7.00	0.00
510206	Inventory & Fleet Management	6.00	6.00	0.00	6.00	0.00
510210	Customer Service & Community Outreach	2.00	2.00	0.00	2.00	0.00
510215	Education & Outreach	5.65	5.65	0.00	5.65	0.00
510220	Service Co-ordination	22.00	22.00	0.00	22.00	0.00
510230	Engineering Systems & Data Collection	9.00	9.00	0.00	9.00	0.00
510240	Compliance & Regulations	7.00	7.00	1.00	8.00	1.00
510250	Laboratory Services	25.00	25.00	0.00	25.00	0.00
510260	Environmental Monitoring & Enforcement	16.00	16.00	1.00	17.00	1.00
510270	Water Distribution (WD) & Wastewtr Collection (WWC)	5.00	5.00	0.00	5.00	0.00
510275	WD & WWC Contracts	20.00	20.00	0.00	20.00	0.00
510280	WD & WWC Construction	23.00	23.00	0.00	23.00	0.00
510285	WD & WWC Maintenance	19.00	19.00	0.00	19.00	0.00
510290	WD & WWC Operations	21.00	21.00	2.00	23.00	2.00
510295	WD & WWC Storm	8.00	8.00	0.00	8.00	0.00
510300	WWW Planning & Capital Director	2.00	2.00	0.00	2.00	0.00
510310	Plant Operations & Maintenance	6.00	6.00	3.00	9.00	3.00
510320	Plant Maintenance & Technical Services	1.00	1.00	0.00	1.00	0.00
510321	Plant Maintenance	30.00	30.00	0.00	30.00	0.00
510322	Plant SCADA	6.00	6.00	1.00	7.00	1.00
510323	Plant Technical Services	5.00	5.00	1.00	6.00	1.00
510330	Plant Operations	44.00	44.00	1.00	45.00	1.00
510340	Capital Delivery	15.00	15.00	0.00	15.00	0.00
510350	Infrastructure Planning and System Design	19.00	19.00	0.00	19.00	0.00
510360	Watershed Management	5.00	5.00	0.00	5.00	0.00
Total RATE Supported Staff		337.65	337.65	10.00	347.65	10.00

2022 Rate Budget - Business Case Summary

DEPARTMENT: Public Works

DIVISION	SERVICE / PROGRAM	DESCRIPTION OF PROGRAM ENHANCEMENT	2022 IMPACT			ANNUALIZED IMPACT
			\$ GROSS	\$ NET	FTE Impact	\$ NET
Hamilton Water	Compliance & Regulations	Technologist for ongoing administration of the Wastewater Quality Management System and new consolidated ministry approvals. <u>NOTE:</u> Council approved a 2 year temporary assignment and requested staff report back in 2022 (Report FCS18087).	\$ 105,000	\$ -	1.00	\$ -
Hamilton Water	Compliance & Regulations	Environmental Enforcement Officer to support the new Construction Dewatering Program. <u>NOTE:</u> This position will be fully cost recovered from users fees applicable under the new program.	\$ 105,000	\$ -	1.00	\$ -
Hamilton Water	Water Distribution	Two Water Distribution Technologists / Inspectors to support the new Leak Detection Program across the city's drinking water system.	\$ 243,500	\$ 243,500	2.00	\$ 243,500
Hamilton Water	Plant Operations	Quality Assurance Analyst to support increasing compliance regulations.	\$ 87,500	\$ 87,500	1.00	\$ 87,500
Hamilton Water	Plant Operations	Superintendent to support increasing wastewater compliance requirements.	\$ 163,000	\$ 163,000	1.00	\$ 163,000
Hamilton Water	Plant Operations	Process Technologist to support increasing compliance regulations.	\$ 106,000	\$ 106,000	1.00	\$ 106,000
Hamilton Water	Plant Operations	Project Manager to administer the third party Biosolids Contract. <u>NOTE:</u> This position will result in a contractual expenditure budget reduction.	\$ 139,000	\$ 64,000	1.00	\$ 64,000
Hamilton Water	Plant Maintenance and Technical Services	Project Manager to support the Facility Compliance Program.	\$ 134,000	\$ 134,000	1.00	\$ 134,000
Hamilton Water	Plant Maintenance and Technical Services	Project Manager to administer Cyber Security Program for the SCADA System.	\$ 119,000	\$ 119,000	1.00	\$ 119,000
Divn Subtotal			\$ 1,202,000	\$ 917,000	10.00	\$ 917,000
DEPARTMENT TOTAL			\$ 1,202,000	\$ 917,000	10.00	\$ 917,000

CITY OF HAMILTON
2022 WATER AND WASTEWATER/STORM FEES AND CHARGES
Effective January 1, 2022

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	\$ 0.41	\$ 0.44
16 mm	\$ 0.41	\$ 0.44
20 mm	\$ 0.41	\$ 0.44
21 mm	\$ 0.41	\$ 0.44
25 mm	\$ 1.03	\$ 1.10
38 mm	\$ 2.05	\$ 2.20
50 mm	\$ 3.28	\$ 3.52
75 mm	\$ 6.56	\$ 7.04
100 mm	\$ 10.25	\$ 11.00
150 mm	\$ 20.50	\$ 22.00
200 mm	\$ 32.80	\$ 35.20
250 mm	\$ 47.15	\$ 50.60
300 mm	\$ 69.70	\$ 74.80

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	0.89	1.77
2	>10	1.77	1.77

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	0.95	1.89
2	>10	1.89	1.89

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

Flat Rate Water Customers Annual Rate: \$646.05

Flat Rate Wastewater/Storm Customers Annual Rate: \$689.85

Combined Flat Rate Water & Wastewater/Storm Customers Annual Rate: \$1,335.90

City of Hamilton - 2022 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	\$ 3.88
38	1.5	\$ 8.92
50	2	\$ 15.52
75	3	\$ 34.92
100	4	\$ 62.08
150	6	\$ 139.68
200	8	\$ 248.32
250	10	\$ 248.32
300	12	\$ 248.32

PUBLIC WORKS
HAMILTON WATER

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	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease		
R84-026	510220	47220	1	WATER DISTRIBUTION								
				Water Meter Permit Fee								
				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 (5/8"x3/4") Displacement	\$359.70	\$359.70	n	\$359.70	0.0%	Current fee achieves full cost recovery		
				1b) 20mm (3/4") Displacement	\$404.60	\$404.60	n	\$404.60	0.0%	Current fee achieves full cost recovery		
				1c) 21mm (3/4"x1") Displacement	\$404.60	\$404.60	n	\$404.60	0.0%	Current fee achieves full cost recovery		
				1d) 25mm (1") Displacement	\$559.40	\$559.40	n	\$559.40	0.0%	Current fee achieves full cost recovery		
				1e) 38mm (1.5") Displacement	\$905.08	\$951.35	n	\$951.35	5.1%	To achieve full cost recovery		
				1f) 50mm (2") Displacement	\$1,218.80	\$1,218.80	n	\$1,218.80	0.0%	Current fee achieves full cost recovery		
				1g) 50mm (2") Compound with strainer	\$3,316.40	\$3,316.40	n	\$3,316.40	0.0%	Current fee achieves full cost recovery		
				1h) 100mm (4") Compound with strainer	\$5,304.84	\$5,304.84	n	\$5,304.84	0.0%	Current fee achieves full cost recovery		
				1i) 150mm (6") Compound with strainer	\$11,495.85	\$11,495.85	n	\$11,495.85	0.0%	Current fee achieves full cost recovery		
				1j) 100mm (4") Fire Service Compound	N/A	\$9,108.49	n	\$9,108.49	0.0%	New fee at full cost recovery		
				1k) 150mm (6") Fire Service Compound	\$14,215.97	\$14,419.63	n	\$14,419.63	1.4%	To achieve full cost recovery		
				1l) 200mm (8") Fire Service Compound	\$19,450.06	\$20,076.77	n	\$20,076.77	3.2%	To achieve full cost recovery		
1m) 250mm (10") Fire Service Compound	\$25,297.11	\$26,293.48	n	\$26,293.48	3.9%	To achieve full cost recovery						
1n) Radio Remote Read Equipment Installation	\$217.59	\$254.24	n	\$254.24	16.8%	To achieve full cost recovery						
1o) Radio Remote Read Equipment Installation in Chamber	N/A	\$1,001.82	n	\$1,001.82	0.0%	New fee at full cost recovery						
R84-026	510220	45519	2	Water Meter Removal Fee								
				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 (5/8"x3/4") Displacement	\$131.29	\$119.60	y	\$135.15	2.9%	To achieve full cost recovery		
				2b) 20mm (3/4") Displacement	\$131.29	\$119.60	y	\$135.15	2.9%	To achieve full cost recovery		
				2c) 21mm (3/4"x1") Displacement	\$131.29	\$119.60	y	\$135.15	2.9%	To achieve full cost recovery		
				2d) 25mm (1") Displacement	\$131.29	\$119.60	y	\$135.15	2.9%	To achieve full cost recovery		
2e) 38mm (1.5") - 250mm (10") 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	Water Meter Inspection Services								
				Note: Cost for customer requested service relating to meter investigation								
				3a) Regular Hours Inspection	\$134.97	\$119.44	y	\$134.97	0.0%	Current fee achieves full cost recovery		
				3b) After Hours Inspection	\$177.15	\$160.23	y	\$181.06	2.2%	To achieve full cost recovery		
3c) Same Day Inspection	N/A	\$279.63	y	\$315.98	0.0%	New fee at full cost recovery						

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PUBLIC WORKS
HAMILTON WATER

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	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026	510220	45608	4	Replacement Cost for Lost Meter Note: Cost to replace a meter that has been lost, stolen or damaged. Includes meter, installation and administrative costs.						
			4a)	15mm (5/8") Displacement	\$321.43	\$284.45	y	\$321.43	0.0%	Current fee achieves full cost recovery
			4b)	16mm (5/8"x3/4") Displacement	\$321.43	\$284.45	y	\$321.43	0.0%	Current fee achieves full cost recovery
			4c)	20mm (3/4") Displacement	\$386.73	\$342.24	y	\$386.73	0.0%	Current fee achieves full cost recovery
			4d)	21mm (3/4"x1") Displacement	\$386.73	\$342.24	y	\$386.73	0.0%	Current fee achieves full cost recovery
			4e)	25mm (1") Displacement	\$460.75	\$407.74	y	\$460.75	0.0%	Current fee achieves full cost recovery
			4f)	38mm (1.5") - 250mm (10") Meters (cost depends on size, labour, and meter location)	N/A	Cost + 10% OH	y	Cost + 10% OH	0.0%	New fee at full cost recovery
R84-026	510220	45690	5	Bench Testing Water Meters 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	\$434.60	y	\$491.10	38.2%	To achieve full cost recovery
			5b)	16-25mm Diameter - Test where meter has been removed from service within prior 90 days	\$221.24	\$201.65	y	\$227.86	3.0%	To achieve full cost recovery
			5c)	20 mm Diameter	\$412.33	\$490.70	y	\$554.49	34.5%	To achieve full cost recovery
			5d)	25 mm Diameter	\$501.55	\$575.89	y	\$650.76	29.7%	To achieve full cost recovery
			5e)	38 mm Diameter	\$1,033.02	\$1,158.41	y	\$1,309.00	26.7%	To achieve 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	\$1,115.65	y	\$1,260.68	19.9%	To achieve full cost recovery

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Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
10-103	510220	45644	6	Backflow Prevention Program Note: Costs for contractor registration fee, administration fees for processing backflow prevention test reports and survey forms.						
			6a)	Annual Program Registration Fee	\$158.06	\$144.92	y	\$163.76	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)	\$187.85	\$172.34	y	\$194.74	3.7%	To achieve full cost recovery
			6d)	Backflow Prevention Device Investigation - Regular Hours	\$164.92	\$151.60	y	\$171.31	3.9%	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	Construction Water 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)	\$103.70	\$107.90	n	\$107.90	4.1%	Equal to variable water rate increase
			8	Hydrant/Road Adaptor Fees 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)	\$2.55	\$2.65	n	\$2.65	3.9%	Rate is 1.5x volumetric water rate
R84-026	514330	41209	8b)	Hydrant/Road Adaptor Connection/Disconnection Fee (Regular Hours-Fee for Both Services)	\$151.14	\$154.10	n	\$154.10	2.0%	To achieve full cost recovery
R84-026	514330	41209	8c)	Hydrant/Road Adaptor Connection/Disconnection Fee (After Hours/Emergency-Fee for Both S	\$285.53	\$291.20	n	\$291.20	2.0%	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%	Current fee achieves 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%	Current fee achieves full cost recovery
R84-026	514330	41209	8h)	Hydrant Adaptor Backflow Prevention Device Testing (Regular Hours)	N/A	\$95.30	n	\$95.30	0.0%	New fee at full cost recovery
R84-026	514330	41209	8i)	Hydrant Adaptor Backflow Prevention Device Testing (After Hours / Emergency)	N/A	\$160.10	n	\$160.10	0.0%	New fee at full cost recovery
R84-026	514330	47244	9	Private Water Station Agreement Fees Annual Renewal	\$408.16	\$422.82	n	\$422.82	3.6%	To achieve full cost recovery
R84-026	514330	47232	10	Water Haulage Fees						
			10a)	Annual Water Haulage Permit Fee Note: Annual license fee to utilize the City's public filling stations.	\$65.34	\$58.22	y	\$65.79	0.7%	To achieve full cost recovery
			10b)	Account review Note: Costs charged for administrative services to provide customer account information for personal or taxation purposes.	\$99.34	\$88.28	y	\$99.76	0.4%	To achieve full cost recovery
R84-026	510220	45519	11	General Administration Fees						
			11a)	General Administrative Requests (per hour)/Report Requests	\$78.83	\$70.00	y	\$79.10	0.3%	To achieve full cost recovery
			11b)	Permit Cancellation administrative fee	\$46.66	\$41.30	y	\$46.67	0.0%	Current fee achieves full cost recovery
			11c)	Permit Renewal Fee	\$46.66	\$41.30	y	\$46.67	0.0%	Current fee achieves full cost recovery
			11d)	Lead Line Replacement Loan Application Fee	\$58.67	\$51.92	y	\$58.67	0.0%	Current fee achieves full cost recovery
			11e)	Monthly AMI Manual Meter Read Fee	\$3.39	\$3.06	y	\$3.46	2.0%	To achieve full cost recovery
			11f)	Water Shut-off Admin Fee	\$25.54	\$22.60	y	\$25.54	0.0%	Current fee achieves full cost recovery
			11g)	Water Shut-off Notice on Door	\$36.07	\$31.92	y	\$36.07	0.0%	Current fee achieves full cost recovery
			11h)	AMI Consumption History Fee	\$14.45	\$13.35	y	\$15.09	4.4%	To achieve full cost recovery
			11i)	NSF Fee - Processing fee on all 'returned' payments	\$40.79	\$36.73	y	\$41.50	1.7%	Current fee achieves full cost recovery

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HAMILTON WATER**

Purposes
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Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
R84-026			12	Water Inspection Services 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	\$108.25	\$97.65	y	\$110.34	1.9%	To achieve full cost recovery
	514330	47235	12b)	Private Water Service Repair/Replacement Inspection (After Hours /Emerg - Max 1 Hour	\$184.20	\$166.20	y	\$187.81	2.0%	To achieve full cost recovery
	514330	45690	12c)	Water Service Abandonment Inspection (Regular Hours - Max 1 Hour Total Labour)	\$96.69	\$87.05	y	\$98.37	1.7%	To achieve full cost recovery
	514330	45690	12d)	Water Service Abandonment Inspection (After Hours / Emergency - Max 1 Hour Total	\$172.63	\$155.60	y	\$175.83	1.9%	To achieve full cost recovery
	514330	45690	12e)	Water Service Inspection for Demolition (Regular Hours - Max 1 Hour Total Labour)	\$96.69	\$87.05	y	\$98.37	1.7%	To achieve full cost recovery
	514330	45690	12f)	Water Service Inspection for Demolition (After Hours / Emergency - Max 1 Hour Total	\$172.63	\$155.60	y	\$175.83	1.9%	To achieve full cost recovery
	514330	45690	12g)	Missed or Cancelled Inspection	\$69.86	\$62.95	y	\$71.13	1.8%	To achieve full cost recovery
R84-026	514330	45679	13	Turning Water Off or On 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.						
			13a)	Turning Water On/Off (Regular Hours)	\$127.40	\$130.00	n	\$130.00	2.0%	To achieve full cost recovery
			13b)	Turning Water On/Off (After Hours/Emergency)	\$214.30	\$218.85	n	\$218.85	2.1%	To achieve full cost recovery
			13c)	Turning Water On/Off During the Same Visit (Regular Hours - Max 1/2 Hour Total Labour)	\$85.54	\$87.05	n	\$87.05	1.8%	To achieve full cost recovery
			13d)	Labour)	\$117.12	\$119.45	n	\$119.45	2.0%	To achieve full cost recovery
			13e)	Non-compliance Turn Water Off	\$85.54	\$85.54	n	\$85.54	0.0%	To achieve full cost recovery
			13f)	Non-compliance Turn Water On	\$85.54	\$85.54	n	\$85.54	0.0%	To achieve full cost recovery
R84-026	514330	45636	14	Hydrant Flow Test / Water Quality Flushing Note: Cost to operate a City Fire Hydrant(s) for a maximum of 1 hour total labour.	\$123.52	\$96.70	y	\$109.27	-11.5%	To achieve full cost recovery
R84-026	514330	45690	15	Water Quality/Quantity Service Calls 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>						
			15a)	Service Call (Regular Hours - Max 1 Hour Total Labour)	\$96.69	\$87.05	y	\$98.37	1.7%	To achieve full cost recovery
			15b)	Service Call (After Hours - Max 1 Hour Total Labour)	\$169.42	\$155.60	y	\$175.83	3.8%	To achieve full cost recovery
R84-026	510290	45690	16	Hydrant Repair, Replace or Relocate 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	17	Watermain Shutdowns Note: Costs associated with isolating a watermain to facilitate third party work.						
			17a)	Watermain Shutdown / Recharge (Regular Hours-Maximum 1 Hour Total Labour)	\$133.06	\$135.30	n	\$135.30	1.7%	To achieve full cost recovery
			17b)	Watermain Shutdown / Recharge (After Hours / Emergency-Maximum 1 Hour Total Labour)	\$239.68	\$244.46	n	\$244.46	2.0%	To achieve full cost recovery
R84-026	510350	45408	18	Environmental Records Search PRISM Reports related to soil contamination Reports - Environmental Assessments and Master Plans	\$184.19	\$163.00	y	\$184.19	0.0%	To achieve full cost recovery
				- plus fee per page	\$18.11	\$16.02	y	\$18.11	0.0%	To achieve full cost recovery
					\$0.12	\$0.10	y	\$0.12	0.0%	To achieve full cost recovery
R84-026	514330	45690	19	Miscellaneous Water Distribution System Repair 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	20	Additional Labour Charges 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.						
			20a)	1/2 Hour Additional Labour (Regular Hours)-Water Distribution Operator	\$26.85	\$24.10	y	\$27.23	1.4%	To achieve full cost recovery
			20b)	1/2 Hour Additional Labour (After Hours)-Water Distribution Operator	\$40.25	\$36.20	y	\$40.91	1.6%	To achieve full cost recovery
			20c)	1/2 Hour Additional Labour (Regular Hours)-Water Distribution Operator	\$23.74	\$23.74	n	\$23.74	0.0%	To achieve full cost recovery
			20d)	1/2 Hour Additional Labour (After Hours)-Water Distribution Operator	\$35.62	\$35.62	n	\$35.62	0.0%	To achieve full cost recovery

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2022 PROPOSED USER FEES AND CHARGES

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 HAMILTON WATER**

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COLLECTION SYSTEM INSPECTION & MAINTENANCE										
06-026			1	Wastewater Inspection Services 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)	\$112.04	\$101.05	y	\$114.19	1.9%	To achieve full cost recovery
	516175	47230	1b)	Private Sewer Lateral Repair/Replacement Inspection (After Hours / Emergency - Maximum 1 Hour Total Labour)	\$239.93	\$216.05	y	\$244.14	1.8%	To achieve full cost recovery
	516175	45690	1c)	Missed or Cancelled Inspection	\$80.07	\$72.30	y	\$81.70	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	Sewer Related Service Calls 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)	\$99.61	\$90.50	y	\$102.27	2.7%	To achieve full cost recovery
			2b)	Service Call (After Hours - Maximum 1 Hour Total Labour)	\$202.64	\$184.50	y	\$208.49	2.9%	To achieve full cost recovery
06-026	516175	45690	3	Sewer Lateral Cleaning and Investigation Fees 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	\$467.86	\$422.30	y	\$477.20	2.0%	To achieve full cost recovery
			3b)	Complete Sewer Lateral Investigation - After Hours	\$516.78	\$466.50	y	\$527.15	2.0%	To achieve full cost recovery
			3c)	Partial Sewer Lateral Cleaning - Regular Hours	\$152.89	\$138.00	y	\$155.94	2.0%	To achieve full cost recovery
			3d)	Partial Sewer Lateral Cleaning - After Hours	\$214.05	\$193.20	y	\$218.32	2.0%	To achieve full cost recovery
			3e)	Abandoned Sewer Lateral Investigation - Regular Hours	\$244.63	\$220.80	y	\$249.50	2.0%	To achieve full cost recovery
			3f)	Abandoned Sewer Lateral Investigation - After Hours	\$305.79	\$276.00	y	\$311.88	2.0%	To achieve full cost recovery
06-026	516175	45690	4	Miscellaneous Wastewater Collection System Repair 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	Additional Labour Charges 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	\$25.75	\$23.50	y	\$26.56	3.1%	To achieve full cost recovery
			5b)	1/2 Hour Additional Labour (After Hours) - Wastewater Collection	\$38.65	\$35.25	y	\$39.83	3.1%	To achieve full cost recovery

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HAMILTON WATER**

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			LABORATORY SERVICES						
510250	45519		<u>Inorganic Tests:</u>						
		1	Solids						
		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	\$32.10	y	\$36.27	0.3%	To achieve full cost recovery
		2	Skalar						
		2a)	Total Cyanide	\$41.70	\$37.40	y	\$42.26	1.4%	To achieve full cost recovery
		2b)	Phenolics	\$37.29	\$33.60	y	\$37.97	1.8%	To achieve full cost recovery
		2c)	Total Kjeldhal Nitrogen (TKN)	\$35.48	\$32.00	y	\$36.16	1.9%	To achieve full cost recovery
		2d)	Ammonia	\$39.10	\$34.60	y	\$39.10	0.0%	Current fee achieves full cost recovery
		2e)	Dissolved Organic Carbon	\$41.81	\$37.60	y	\$42.49	1.6%	To achieve full cost recovery
		2f)	Total Organic Carbon	\$41.81	\$37.60	y	\$42.49	1.6%	To achieve full cost recovery
		2g)	Reactive Silica	\$33.90	\$30.60	y	\$34.58	2.0%	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	\$16.70	y	\$18.87	1.8%	To achieve 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	\$29.83	\$26.80	y	\$30.28	1.5%	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	\$28.40	y	\$32.09	6.4%	To achieve 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
			<u>Microbiology Tests:</u>						
510250	45519	13	Total Coliform/E coli - Presence/Absence	\$29.72	\$26.80	y	\$30.28	1.9%	To achieve full cost recovery
510250	45519	14	Total Coliform/E coli - MPN	\$32.43	\$29.20	y	\$33.00	1.7%	To achieve full cost recovery
510250	45519	15	EC - MPN	\$32.43	\$29.20	y	\$33.00	1.7%	To achieve full cost recovery
510250	45519	16	Heterotrophic Plate Count	\$30.40	\$27.40	y	\$30.96	1.9%	To achieve full cost recovery
510250	45519	17	Micro Examination	\$162.61	\$146.50	y	\$165.55	1.8%	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)	\$68.14	\$61.10	y	\$69.04	1.3%	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	\$68.14	\$61.10	y	\$69.04	1.3%	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	\$147.92	\$132.30	y	\$149.50	1.1%	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 905 546 2424 ext 5834

2022 PROPOSED USER FEES AND CHARGES

**PUBLIC WORKS
 HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				ENVIRONMENTAL MONITORING & ENFORCEMENT To Regulate the Discharge of any Matter into the Sanitary, Combined, and Storm Sewer Systems.						
14-090	516175	47232	1	Annual Permit to Discharge Hauled Sewage Note: Cost for administration and processing of annual permits required to haul sewage within Hamilton	\$329.00	\$335.00	n	\$335.00	1.8%	To achieve full cost recovery
			2	Discharge fees for Hauled Sewage generated: Inside the City - Compliant Note: Cost per truck full of sewage containing materials within Sewer Use By-law limit up to 1000 imperial gallons (4.54 m3) or any part thereof	\$51.15	\$52.18	n	\$52.18	2.0%	To achieve full cost recovery
14-090	516175	41314	2a)	greater than 1000 (4.54 m3) but less than or equal to 3500 Imperial gallons (15.9m3)	\$51.15	\$52.18	n	\$52.18	2.0%	To achieve full cost recovery
14-090	516175	41314	2b)	greater than 3500 (15.9 m3) but less than or equal to 5000 Imperial gallons (22.7 m3)	\$102.30	\$104.35	n	\$104.35	2.0%	To achieve full cost recovery
14-090	516175	41314	2c)	greater than 5000 (22.7 m3) but less than or equal to 8000 Imperial gallons (36.3 m3)	\$153.45	\$156.53	n	\$156.53	2.0%	To achieve full cost recovery
14-090	516175	41314	2d)	greater than 8000 (36.3 m3) but less than or equal to 10000 Imperial gallons (45.43 m3)	\$204.60	\$208.70	n	\$208.70	2.0%	To achieve full cost recovery
			3	Discharge fees for Hauled Sewage generated: Inside the City - Non-Compliant 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	\$51.15	\$52.18	n	\$52.18	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)	\$102.30	\$104.35	n	\$104.35	2.0%	To achieve full cost recovery
14-090	516175	41314	3c)	greater than 3500 (15.9 m3) but less than or equal to 5000 Imperial gallons (22.7 m3)	\$153.45	\$156.53	n	\$156.53	2.0%	To achieve full cost recovery
14-090	516175	41314	3d)	greater than 5000 (22.7 m3) but less than or equal to 8000 Imperial gallons (36.3 m3)	\$255.75	\$260.88	n	\$260.88	2.0%	To achieve full cost recovery
14-090	516175	41314	3e)	greater than 8000 (36.3 m3) but less than or equal to 10000 Imperial gallons (45.43 m3)	\$306.90	\$313.06	n	\$313.06	2.0%	To achieve full cost recovery
14-090	516175	41314	4	Holding Tanks for Recreational Vehicles 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	Overstrength Discharge Fees 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)	\$0.80	\$0.81	n	\$0.81	1.8%	To achieve full cost recovery
14-090	516080	41315	5b)	Total suspended solids (charge per kg)	\$0.64	\$0.66	n	\$0.66	2.7%	To achieve full cost recovery
14-090	516080	41315	5c)	Oil & grease (animal/vegetable) (charge per kg)	\$0.45	\$0.46	n	\$0.46	2.2%	To achieve full cost recovery
14-090	516080	41315	5d)	Total Kjeldahl Nitrogen (charge per kg)	\$1.02	\$1.04	n	\$1.04	2.0%	To achieve full cost recovery
14-090	516080	41315	5e)	Total Phosphorus (charge per kg)	\$1.89	\$2.20	n	\$2.20	16.4%	To achieve full cost recovery
14-090	516080	41317	6	Surcharge Discharge Fee (charge per m3)	\$1.82	\$1.89	n	\$1.89	3.8%	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

2022 PROPOSED USER FEES AND CHARGES

**PUBLIC WORKS
 HAMILTON WATER**

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
			7	Application Fees for Sewer Discharge Permits NOTE: Fee to be paid upon application for Sewer Discharge Permit						
14-090	510260	45519	7a)	Application Fee	\$725.38	\$688.00	y	\$777.44	7.2%	To achieve full cost recovery
14-090	510260	45519	7b)	Wastewater Characterization deposit (optional)	\$500.00	\$500.00	n	\$500.00	0.0%	Current fee achieves full cost recovery
14-090	510260	45519	7c)	Amendment Fee (all permit types)	\$340.56	\$319.46	y	\$360.99	6.0%	To achieve full cost recovery
			8	Administrative Fees for Sewer Discharge Permits Note: 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 \$810.00 per quarter)						
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	\$1,077.00	n	\$1,077.00	0.6%	To achieve full cost recovery
14-090	510260	45532	8e)	Conditional Discharge Permit (charged quarterly)	\$1,071.00	\$1,077.00	n	\$1,077.00	0.6%	To achieve full cost recovery
14-090	510260	45519	9	Information Requests Note: Fee per property for records search related to Sewer Use By-law historical violations	\$173.88	\$195.73	y	\$221.17	27.2%	To achieve full cost recovery
14-090	510260	45532	10	Wastewater Sampling (optional) Note: Per unit costs to conduct wastewater sampling to determine permit conditions and limits						
			10a)	Wastewater Sampling Vehicle Fee (per kilometer)	\$1.39	\$1.25	y	\$1.41	1.6%	To achieve full cost recovery
			10b)	Wastewater Sampling Equipment Fee (per day)	\$44.84	\$40.47	y	\$45.73	2.0%	To achieve full cost recovery
			10c)	Wastewater Sampling Technician Fee (per hour) Mon - Fr	\$57.22	\$51.45	y	\$58.14	1.6%	To achieve full cost recovery
			10d)	Wastewater Sampling Technician Fee (per hour) Sa	\$85.83	\$77.17	y	\$87.20	1.6%	To achieve full cost recovery
			10e)	Wastewater Sampling Technician Fee (per hour) Sur	\$114.45	\$102.90	y	\$116.28	1.6%	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).

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

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2022 PROPOSED USER FEES AND CHARGES

PUBLIC WORKS
HAMILTON WATER

Dept. By-Law #	Dept ID	Account #	Ref #	Service Offered	2021 including HST (if applicable)	2022 Proposed Fee	HST (y/n)	2022 including HST (if applicable)	% Fee Change	Basis for Fee Increase or Decrease
				ENVIRONMENTAL MONITORING & ENFORCEMENT Fees related to the Wastewater Abatement Program						
03-272	510260	45532	1	Application Fee (plus cost recovery for peer review if required)	\$431.65	\$437.00	y	\$493.81	14.4%	To achieve full cost recovery
03-272	510260	45532	2	Annual Administration Fee	\$859.04	\$815.00	y	\$920.95	7.2%	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 905-540-5190 or email sewerusebylaw@hamilton.ca

Appendix "H" to Report FCS21088 Page 1 of 1

SOURCE OF CAPITAL FINANCING
2022 to 2031 RATE PROGRAM CAPITAL BUDGET
\$(000'S)

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2022 to 2031
TOTAL RATE PROGRAM											
Capital Program	310,436	223,117	291,280	274,455	321,811	319,784	311,325	224,021	207,494	214,808	2,698,531
Source of Funding											
Subsidy/Other Revenue	7,573	75	6,799	20,375	6,015	75	75	75	75	75	41,212
Development Charges	84,527	58,116	75,359	54,752	140,458	123,264	107,446	5,944	8,724	8,051	666,638
Reserves & Other Internal Sources	44,148	9,640	5,640	640	640	640	640	640	640	640	63,908
Contribution from Operating	125,089	139,066	146,062	155,458	170,468	181,055	191,314	200,862	198,055	206,042	1,713,473
External Debt	49,100	16,220	57,420	43,230	4,230	14,750	11,850	16,500	-	-	213,300
Total	310,436	223,117	291,280	274,455	321,811	319,784	311,325	224,021	207,494	214,808	2,698,531

Appendix "I" to Report FCS21088 Page 1 of 1

CITY OF HAMILTON
2022 - 2031 WATER / WASTEWATER / STORM CAPITAL FINANCING PLAN
(\$'s)

	<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>2031</u>	<u>2022 - 2031</u>
NET EXPENDITURES FORECAST												
WASTEWATER (NET)	86,083,000	105,784,138	54,946,470	74,211,470	79,711,470	77,101,470	78,996,470	82,656,470	100,186,470	90,106,470	100,696,470	844,397,368
WATER (NET)	69,798,000	56,639,500	80,700,000	104,925,500	104,721,500	87,332,000	76,204,000	79,393,000	77,821,000	75,734,000	71,990,550	815,461,050
STORM (NET)	19,287,000	11,765,000	19,640,000	24,345,000	14,255,000	10,265,000	40,605,000	41,115,000	39,355,000	32,215,000	33,355,000	266,915,000
TOTAL NET EXPENDITURES	175,168,000	174,188,638	155,286,470	203,481,970	198,687,970	174,698,470	195,805,470	203,164,470	217,362,470	198,055,470	206,042,020	1,926,773,418
SOURCE OF FINANCING												
DEBT ISSUES	48,000,000	49,100,000	16,220,000	57,420,000	43,230,000	4,230,000	14,750,000	11,850,000	16,500,000	0	0	213,300,000
TRANSFER FROM OPERATING	125,368,663	125,088,638	139,066,470	146,061,970	155,457,970	170,468,470	181,055,470	191,314,470	200,862,470	198,055,470	206,042,020	1,713,473,418
TOTAL CAPITAL FINANCING	173,368,663	174,188,638	155,286,470	203,481,970	198,687,970	174,698,470	195,805,470	203,164,470	217,362,470	198,055,470	206,042,020	1,926,773,418
OPERATING BUDGET IMPACT												
TRANSFER FROM OPERATING	125,368,663	125,088,638	139,066,470	146,061,970	155,457,970	170,468,470	181,055,470	191,314,470	200,862,470	198,055,470	206,042,020	1,713,473,418
DC EXEMPTION FUNDING	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	9,000,000	90,000,000
DEBT CHARGES (NET)	22,391,526	22,349,172	28,194,548	34,379,757	41,687,306	45,024,078	44,019,392	42,542,948	43,434,587	41,350,652	40,897,791	383,880,231
TOTAL CAPITAL FINANCING COSTS	156,760,189	156,437,810	176,261,018	189,441,727	206,145,276	224,492,548	234,074,862	242,857,418	253,297,057	248,406,122	255,939,811	2,187,353,649

CITY OF HAMILTON							
2022-2031 CAPITAL BUDGET FINANCING PLAN							
RATE SUPPORTED PROGRAM - AFFORDABLE / UNAFFORDABLE							
\$(000's)							
<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/ & Internal Sources</u>	<u>FINANCING SOURCES</u>	
						<u>Contribution From Operating</u>	<u>External Debt</u>
	\$	\$	\$	\$	\$	\$	\$
2022	310,436	310,436	7,573	84,527	44,148	125,089	49,100
2023	223,117	223,117	75	58,116	9,640	139,066	16,220
2024	291,280	284,557	75	75,359	5,640	146,062	57,420
2025-2031	1,617,698	1,847,458	525	448,637	4,480	1,303,256	90,560
TOTAL	2,442,531	2,665,568	8,248	666,638	63,908	1,713,473	213,300

Appendix "J" to Report FCS21088 Page 1 of 1

**SOURCE OF CAPITAL FINANCING
2022 to 2031 RATE PROGRAM CAPITAL BUDGET
\$(000'S)**

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2022 to 2031
WATER											
Capital Program	105,271	111,222	148,240	157,650	125,608	99,686	86,707	78,661	80,434	75,158	1,068,637
Source of Funding											
Subsidy/Other Revenue	3,498	-	2,004	8,100	-	-	-	-	-	-	13,602
Development Charges	26,127	29,882	40,671	44,189	37,636	22,842	6,674	200	4,060	2,527	214,807
Reserves & Other Internal Sources	19,007	640	640	640	640	640	640	640	640	640	24,767
Contribution from Operating	39,540	72,200	84,926	94,722	87,332	70,004	74,393	77,821	75,734	71,991	748,661
External Debt	17,100	8,500	20,000	10,000	-	6,200	5,000	-	-	-	66,800
Total	105,271	111,222	148,240	157,650	125,608	99,686	86,707	78,661	80,434	75,158	1,068,637

**City of Hamilton
Water System
2022 Capital Budget Project List
(\$)**

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Coordinated - Network Extension	5142171328	Southcote - Garner to Highway 403 Bridge	3,040,000						1,520,000	-	1,520,000
	5142280280	First Road West Watermain - Bedrock to Glover Mountain	830,000		498,000				332,000	-	
	5142280281	Dickenson Road West Watermain - Garth Street Extension to 870m easterly	510,000						510,000	-	
Coordinated - Network Extension Total			4,380,000		498,000				1,520,000	-	1,520,000
Coordinated - Other	5142160501	Watermain Rehabilitation/Replacement Coordinated with Development	1,000,000						1,000,000	1,000,000	
	5142299999	Rates Projects Included in Tax Budget - NOT TO BE SET UP IN PEOPLESOFT	2,320,000						2,320,000	2,320,000	
Coordinated - Other Total			3,320,000						3,320,000	3,320,000	
Coordinated - Replacement	5142171303	Marion - Longwood to Dromore	440,000						440,000	440,000	
	5142271305	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	1,000,000						1,000,000		1,000,000
	5142271312	Strathearne - Main to Britannia	900,000						900,000		900,000
	5142271306	Kelvin - Old Orchard to south end	100,000						100,000	100,000	
	5142271308	Concession / Mountain Brow - Upper Gage to Oakcrest	2,200,000						2,200,000		2,200,000
	5142271296	Governor's - Main to Ogilvie (Bridge 296)	400,000						400,000	400,000	
	5142271022	Burlington - James to Ferguson	1,200,000						1,200,000		1,200,000
	5142271214	Fairfield - Barton to Britannia	500,000						500,000		500,000
5142271325	CCBF - Corktown Neighbourhood	400,000					400,000	-			
Coordinated - Replacement Total			7,140,000					400,000	6,740,000	940,000	5,800,000
Coordinated Replacement (50/50)	5142170000	Rates Share of Road Reconstruction - NOT TO BE SET UP IN PEOPLESOFT	4,130,000						4,130,000	4,130,000	
Coordinated Replacement (50/50) Total			4,130,000						4,130,000	4,130,000	
Demolition / Disposal	5142067420	St. Joseph's Tank Pulsation Dampener (HD002STK)	440,000						440,000	440,000	
Demolition / Disposal Total			440,000						440,000	440,000	
Enhancement	5142166608	Lynden Water System - Phase 2 Treatment	110,000						110,000	110,000	
Enhancement Total			110,000						110,000	110,000	
Expansion / Extension	5141996951	Binbrook Feedermain via Fletcher (W-30)	2,530,000			2,530,000			-		
	5142260280	Upper Centennial Watermain Extension	500,000						500,000		500,000
Expansion / Extension Total			3,030,000			2,530,000			500,000		500,000
Feasibility Plans / EA's/ Studies	5141855777	Water infrastructure Analysis - Growth and Economic Opportunities	330,000						330,000	330,000	
	5142096520	Garner Road Trunk Watermain - Southcote to Wilson (W-09)	13,550,000			13,550,000			-		
	5142155010	Water Systems Planning Program	600,000						600,000	600,000	
	5142155022	Engineering Consultant Watermain Projects	400,000						400,000	400,000	
	5142155247	Alterations to the Drinking Water System	150,000						150,000	150,000	
	5142155556	Mapping Update Program	40,000						40,000	40,000	
	5142157545	Water - Computer Model	150,000						150,000	150,000	
	5142257000	Vertical Asset Management Program	280,000						280,000	280,000	
	5142255264	City-Wide Water Master Plan	280,000			280,000			-		
	5142255280	Airport Employment Growth District (AEGD) Water, Wastewater and Stormwater Master Plan Update	700,000			700,000			-		
	5142251112	Inventory Bar Coding System, Equipment & Consulting	200,000						200,000	200,000	
	5142257800	Water Facility Asset Management Implementation Plan	100,000						100,000	100,000	
	5142255851	Water Efficiency Plan/Program	115,000						115,000	115,000	
5142267510	Water System Studies & Continual Improvement Initiatives	1,100,000						1,100,000	1,100,000		
Feasibility Plans / EA's/ Studies Total			17,995,000			14,530,000			3,465,000	3,465,000	
Licenses	5142162073	Field Data Systems Program	210,000					100,000	110,000	110,000	
Licenses Total			210,000					100,000	110,000	110,000	

**City of Hamilton
 Water System
 2022 Capital Budget Project List
 (\$)**

Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
New	5141495551	PD7 (Upper Stoney Creek/Glanbrook) Elevated Reservoir (W-23)	5,500,000			5,500,000			-		
	5141767650	New Greensville Communal Well	150,000						150,000	-	150,000
	5141895852	Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)	900,000						900,000	-	900,000
	5142161502	Water Meter - Installation/Replacement/Repair - General Maintenance	4,270,000				640,000		3,630,000	3,630,000	
	5142151110	Fleet Additions	1,162,000					1,162,000	-	-	
	5142167840	PD9 & PD10 East Stoney Creek Booster Pumping Station	550,000						550,000	-	550,000
	5142467224	New PD2 Water Pumping Station (CASH FLOWED)	2,650,000						2,650,000		2,650,000
	New Total			15,182,000			5,500,000	640,000	1,162,000	7,880,000	3,630,000
Rehabilitation / Renovation	5141567575	High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)	2,470,000						2,470,000	-	2,470,000
	5141760754	Kenilworth Transmission Watermain Renewal	600,000						600,000	600,000	
	5141761777	Beach Trunkmain Rehab	1,500,000						1,500,000	1,500,000	
	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	550,000			412,500			137,500	137,500	-
	5141867651	HD007 Highland Rd Reservoir Upgrades	170,000						170,000	170,000	
	5141967375	HDR01 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades	330,000						330,000	330,000	
	5142067450	Lee Smith Reservoir (HDR00) Upgrades	170,000						170,000	170,000	
	5142111101	Road Cut Restoration Program	7,965,000					5,400,000	2,565,000	-	-
	5142157626	Critical Watermain Inspection Program	731,000						131,000	600,000	600,000
	5142160072	Watermain Structural Lining	5,300,000					5,300,000	-	-	-
	5142166713	Water Maintenance Capital Program	1,000,000						1,000,000	1,000,000	
	5142169075	City Environmental Lab Improvements Program	340,000						340,000	340,000	
	5142166110	Water Treatment Plant - Process Upgrades Phase 2 (CASH FLOWED)	1,378,000			627,000			751,000	11,000	740,000
	5142167420	HDR18 Glancaster Reservoir Upgrades	440,000						440,000	-	440,000
	5142167421	HDR11 Woodley Lane Reservoir Upgrades	170,000						170,000	170,000	
	5142261741	Resetting or Adjusting of Water Utility Structures	250,000						250,000	250,000	
	5142261240	Woodward Treatment Plant Filter Building - Flume Watermain Lining	2,000,000						2,000,000	2,000,000	
	5142267585	Diesel Fuel Storage Compliance Upgrades	500,000						500,000	500,000	
	5141966420	Woodward WTP Chlorine Chemical Building	1,380,000						1,380,000		1,380,000
	5142266712	Water Maintenance - Rebuild, Replacement and New Capital	400,000						400,000	400,000	
	5142266220	Water Treatment Plant - Clearwells Concrete Restoration Upgrades	600,000						600,000	600,000	
	5142266320	Woodward Water Treatment Plant - Low Lift Pumping Station Intake Repairs	830,000						830,000	830,000	
	Rehabilitation / Renovation Total			29,074,000			1,039,500	10,700,000	2,696,000	14,638,500	9,608,500
Replacement	5141567273	Main / Whitney Pumping Station Replacement and Decommissioning	140,000						140,000	140,000	
	5141595553	PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (W-04)	220,000			165,000			55,000	55,000	
	5141966151	SCADA Maintenance Program	150,000						150,000	150,000	
	5142066310	WTP Pre-Treatment Isolation Valves	550,000						550,000	550,000	
	5142149555	QA-QC Service Contract Program	290,000					140,000	150,000	150,000	
	5142160080	Valve Replacement Program	3,780,000					1,170,000	2,610,000	2,610,000	
	5142160577	Metallic Watermain Condition Assessment Program	815,000					185,000	630,000	630,000	
	5142160711	PW Capital Water Consumption Program	250,000						250,000	250,000	
	5142160750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	2,850,000				1,300,000		1,550,000	1,550,000	
	5142162078	Substandard Water Service Replacement Program	2,350,000						2,350,000	2,350,000	
	5142271318	Eastmount Neighbourhood - Water	210,000					50,000	160,000	160,000	
	5142260081	Large Valve Replacement - Nash	2,000,000		2,000,000				-	-	
5142260082	Large Valve Replacement - Longwood and Glenside	1,000,000		1,000,000				-	-		
Replacement Total			14,605,000	3,000,000		165,000	1,300,000	1,545,000	8,595,000	8,595,000	

**City of Hamilton
 Water System
 2022 Capital Budget Project List
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Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Safety/ Security	5142266871	Hamilton Water Capital Security Plan	1,030,000						1,030,000	1,030,000	
	5142266351	Woodward SCADA OT (Operating Technology) Security Program	125,000						125,000	125,000	
Safety/ Security Total			1,155,000						1,155,000	1,155,000	
Staffing Costs	5142101099	Engineering Services Staffing Costs - Water	4,500,000					464,000	4,036,000	4,036,000	
Staffing Costs Total			4,500,000					464,000	4,036,000	4,036,000	
Grand Total			105,271,000	3,000,000	498,000	26,126,500	12,640,000	6,367,000	56,639,500	39,539,500	17,100,000

CITY OF HAMILTON
WATER SYSTEM
2022 - 2031 CAPITAL BUDGET LIST (\$)

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net			
Coordinated - Network Extension	5142171328	Southcote - Garner to Highway 403 Bridge	-	(80,000)	3,040,000	1,520,000	-	-	-	-	-	-	-	-	3,040,000	1,440,000	2021	2022	
	5142280280	First Road West Watermain - Bedrock to Glover Mountain	-	-	830,000	-	-	-	-	-	-	-	-	-	830,000	-	2022	2022	
	5142280281	Dickenson Road West Watermain - Garth Street Extension to 870m easterly	-	-	510,000	-	-	-	-	-	-	-	-	-	510,000	-	2022	2022	
	5142380320	RHBP - Twenty Rd Extension - Glover to Trinity Church	-	-	-	-	565,000	-	-	-	-	-	-	-	565,000	-	2023	2023	
	5142580580	RHBP - Nebo - 900m s/o Twenty to Dickenson	-	-	-	-	-	-	-	400,000	-	-	-	-	400,000	-	2021	2039	
	5142671108	Rymal - Glancaster to Upper Paradise	-	-	-	-	-	-	-	-	-	-	340,000	340,000	340,000	340,000	2026	2026	
	5142880884	RHBP - Dickenson - Nebo to 800m e/o Nebo	-	-	-	-	-	-	-	-	-	-	-	-	900,000	-	2028	2028	
	5143080388	Lewis - Barton to Hwy 8	-	-	-	-	-	-	-	-	-	-	500,000	-	500,000	-	2023	2030	
Coordinated - Network Extension Total			-	(80,000)	4,380,000	1,520,000	565,000	-	-	-	400,000	-	1,740,000	340,000	7,085,000	1,780,000			
Coordinated - Other	5142160501	Watermain Rehabilitation/Replacement Coordinated with Development	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	6,000,000	6,000,000	11,000,000	11,000,000	2021	2046	
	5142299999	Rates Projects Included in Tax Budget - NOT TO BE SET UP IN PEOPLESOFT	-	-	2,320,000	2,320,000	2,120,000	2,120,000	1,410,000	1,410,000	360,000	360,000	4,410,000	4,410,000	10,620,000	10,620,000	2022	2046	
Coordinated - Other Total			1,000,000	1,000,000	3,320,000	3,320,000	3,120,000	3,120,000	2,410,000	2,410,000	1,360,000	1,360,000	10,410,000	10,410,000	21,620,000	21,620,000			
Coordinated - Replacement	5142171301	Watermain Replacement Coordinated with Roads	-	-	-	-	-	-	-	-	-	-	3,400,000	3,400,000	3,400,000	3,400,000	2027	2046	
	5142171303	Marion - Longwood to Dromore	-	-	440,000	440,000	-	-	-	-	-	-	-	-	440,000	440,000	2021	2022	
	5142271022	Burlington - James to Ferguson	-	-	1,200,000	1,200,000	-	-	-	-	-	-	-	-	1,200,000	1,200,000	2022	2022	
	5142271214	Fairfield - Barton to Britannia	-	-	500,000	500,000	-	-	-	-	-	-	-	-	500,000	500,000	2022	2022	
	5142271296	Governor's - Main to Ogilvie (Bridge 296)	-	-	400,000	400,000	-	-	-	-	-	-	-	-	400,000	400,000	2022	2022	
	5142271305	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	-	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	1,000,000	1,000,000	2022	2022	
	5142271306	Kelvin - Old Orchard to south end	-	-	100,000	100,000	-	-	-	-	-	-	-	-	100,000	100,000	2022	2022	
	5142271308	Concession / Mountain Brow - Upper Gage to Oakcrest	-	-	2,200,000	2,200,000	-	-	-	-	-	-	-	-	2,200,000	2,200,000	2022	2022	
	5142271312	Strathearne - Main to Britannia	-	-	900,000	900,000	-	-	-	-	-	-	-	-	900,000	900,000	2022	2022	
	5142271325	CCBF - Corktown Neighbourhood	-	-	400,000	-	-	-	-	-	-	-	-	-	400,000	-	2022	2022	
	5142371304	Hatt & Bond - King to Market	-	-	-	-	800,000	800,000	-	-	-	-	-	-	800,000	800,000	2021	2023	
	5142371307	Duke - Hess to west end & Robinson - Queen to west end	-	-	-	-	50,000	50,000	300,000	300,000	-	-	-	-	-	350,000	350,000	2023	2024
	5142371322	Barton - Sherman to Ottawa	-	-	-	-	10,000,000	10,000,000	-	-	-	-	-	-	10,000,000	10,000,000	2023	2023	
	5142371327	Upper Centennial - Rymal to Mud	-	-	-	-	100,000	100,000	6,000,000	6,000,000	-	-	-	-	6,100,000	6,100,000	2023	2024	
	5142471106	Rymal - Upper Ottawa to Dartnall	-	-	-	-	-	-	1,200,000	1,200,000	-	-	-	-	1,200,000	1,200,000	2024	2024	
	5142471202	Hughson - Simcoe to Brock & Wood - James to Hughson	-	-	-	-	-	-	1,550,000	1,550,000	-	-	-	-	1,550,000	1,550,000	2024	2024	
	5142471304	Ferguson/Foster/Walnut/Patrick	-	-	-	-	-	-	1,710,000	1,710,000	-	-	-	-	1,710,000	1,710,000	2022	2024	
	5142471308	Scenic - Chateau Crt to Upper Paradise	-	-	-	-	-	-	1,750,000	1,750,000	-	-	-	-	1,750,000	1,750,000	2024	2024	
	5142471314	Pinelands / Teal / Garden / Community / Greensfield	-	-	-	-	-	-	1,830,000	1,830,000	-	-	-	-	1,830,000	1,830,000	2024	2024	
	5142471315	Strathearne - Brampton to gate at north end	-	-	-	-	-	-	820,000	820,000	-	-	-	-	820,000	820,000	2024	2024	
	5142571106	Rymal - Upper Gage to Upper Ottawa	-	-	-	-	-	-	-	-	950,000	950,000	-	-	950,000	950,000	2025	2025	
	5142571201	Simcoe - James to Wellington & Hughson - Strachan to Simcoe	-	-	-	-	-	-	-	-	1,400,000	1,400,000	-	-	1,400,000	1,400,000	2025	2025	
	5142571303	Burlington & Industrial - Birch to Gage	-	-	-	-	-	-	-	-	2,820,000	2,820,000	-	-	2,820,000	2,820,000	2025	2025	
	5142571305	Upper James - Mohawk to Fennell	-	-	-	-	-	-	-	-	3,070,000	3,070,000	-	-	3,070,000	3,070,000	2025	2025	
	5142571306	Barton - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	4,700,000	4,700,000	-	-	4,700,000	4,700,000	2025	2025	
	5142671103	Rymal - Upper Sherman to Upper Gage	-	-	-	-	-	-	-	-	-	-	1,500,000	1,500,000	1,500,000	1,500,000	2026	2026	
	5142671305	Dundurn - CPR bridge (s/o Main St) to King	-	-	-	-	-	-	-	-	-	-	430,000	430,000	430,000	430,000	2026	2026	
	5142671307	Hatt - Market to east end & York / Kerr	-	-	-	-	-	-	-	-	-	-	1,060,000	1,060,000	1,060,000	1,060,000	2026	2026	
	5142671309	Wilson - Wentworth to Sherman	-	-	-	-	-	-	-	-	-	-	820,000	820,000	820,000	820,000	2026	2026	
	5142671314	Brampton - Parkdale to Woodward & Brighton	-	-	-	-	-	-	-	-	-	-	810,000	810,000	810,000	810,000	2026	2026	
	5142671323	Fennell - Upper James to Upper Wellington	-	-	-	-	-	-	-	-	-	-	670,000	670,000	670,000	670,000	2026	2026	
	5142671324	Osler - South St to West Park	-	-	-	-	-	-	-	-	-	-	900,000	900,000	900,000	900,000	2026	2028	
	5142771106	Wentworth - Barton to Burlington	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2027	2027	
	5142771109	Southcote - Hwy 403 bridge to Oldoakes /Dorval	-	-	-	-	-	-	-	-	-	-	2,100,000	2,100,000	2,100,000	2,100,000	2027	2027	
	5142771309	Gray - King to Hwy 8	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2027	2027	
	5142771312	Aberdeen - Queen to Studholme	-	-	-	-	-	-	-	-	-	-	3,200,000	3,200,000	3,200,000	3,200,000	2027	2027	
	5142771314	Westdale North Neighbourhood Phase 1	-	-	-	-	-	-	-	-	-	-	2,500,000	2,500,000	2,500,000	2,500,000	2027	2027	
	5142771315	Barton St BIA - Wentworth to Sherman	-	-	-	-	-	-	-	-	-	-	3,440,000	3,440,000	3,440,000	3,440,000	2027	2027	
	5142871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2028	2028	
	5142871118	Charlton - Walnut to Sherman Access	-	-	-	-	-	-	-	-	-	-	2,700,000	2,700,000	2,700,000	2,700,000	2028	<12/31/22	
	5142871304	Birge - Emerald to Cheever	-	-	-	-	-	-	-	-	-	-	240,000	240,000	240,000	240,000	2028	2028	
	5142871307	Barton St BIA - Ferguson to Wentworth	-	-	-	-	-	-	-	-	-	-	4,440,000	4,440,000	4,440,000	4,440,000	2028	2028	
	5142871308	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	2,150,000	2,150,000	2,150,000	2,150,000	2028	2028	
	5142871311	Oak/Emerald/East Ave - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	1,640,000	1,640,000	1,640,000	1,640,000	2028	2028	
	5142871312	Cairns / East St N / Spencer / (Hunter Neighbourhood)	-	-	-	-	-	-	-	-	-	-	630,000	630,000	630,000	630,000	2028	2028	
	5142971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	850,000	850,000	850,000	850,000	2029	2029	
	5142971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	2,200,000	2,200,000	2,200,000	2,200,000	2029	2029	
	5142971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	4,000,000	4,000,000	4,000,000	4,000,000	2029	2029	
	5142971117	Green - Carla to Barton	-	-	-	-	-	-	-	-	-	-	1,300,000	1,300,000	1,300,000	1,300,000	2029	2029	
	5142971303	Florence/Head/Morden/Napier/Nelson/Peel/Wellesley (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	720,000	720,000	720,000	720,000	2029	2029	
	5142971305	Carling / Macklin St S / Olmstead / Tope (Westdale South)	-	-	-	-	-	-	-	-	-	-	680,000	680,000	680,000	680,000	2029	2029	

CITY OF HAMILTON
WATER SYSTEM
2022 - 2031 CAPITAL BUDGET LIST (\$)

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5142971310	Upper Wellington - Bryna to Mohawk	-	-	-	-	-	-	-	-	-	-	1,050,000	1,050,000	1,050,000	1,050,000	2029	2029
	5142971311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	820,000	820,000	820,000	820,000	2029	2029
	5142971316	Sanford - Main to Cannon	-	-	-	-	-	-	-	-	-	-	1,410,000	1,410,000	1,410,000	1,410,000	2029	2029
	5143071129	Nash – Barton to 350 metres north of Bancroft	-	-	-	-	-	-	-	-	-	-	1,100,000	1,100,000	1,100,000	1,100,000	2030	2030
	5143071303	Hughson - Wilson to Barton	-	-	-	-	-	-	-	-	-	-	550,000	550,000	550,000	550,000	2030	2030
	5143071304	Evans - Wellington to East	-	-	-	-	-	-	-	-	-	-	390,000	390,000	390,000	390,000	2030	2030
	5143071308	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	-	-	-	-	-	-	-	-	-	-	950,000	950,000	950,000	950,000	2030	2030
Coordinated - Replacement Total			-	-	7,140,000	6,740,000	10,950,000	10,950,000	15,160,000	15,160,000	12,940,000	12,940,000	54,650,000	54,650,000	100,840,000	100,440,000		
	5142170000	Rates Share of Road Reconstruction - NOT TO BE SET UP IN PEOPLESOFT	-	-	4,130,000	4,130,000	3,790,000	3,790,000	4,930,000	4,930,000	4,690,000	4,690,000	56,400,000	56,400,000	73,940,000	73,940,000	2022	2046
Coordinated Replacement (50/50) Total			-	-	4,130,000	4,130,000	3,790,000	3,790,000	4,930,000	4,930,000	4,690,000	4,690,000	56,400,000	56,400,000	73,940,000	73,940,000		
Demolition / Disposal	5142067420	St. Joseph's Tank Pulsation Dampener (HD0025TK)	20,000	20,000	440,000	440,000	-	-	-	-	-	-	-	-	460,000	460,000	2020	2022
Demolition / Disposal Total			20,000	20,000	440,000	440,000	-	-	-	-	-	-	-	-	460,000	460,000		
Enhancement	5142166608	Lynden Water System - Phase 2 Treatment	210,000	210,000	110,000	110,000	-	-	-	-	-	-	-	-	320,000	320,000	2021	2022
Enhancement Total			210,000	210,000	110,000	110,000	-	-	-	-	-	-	-	-	320,000	320,000		
Expansion / Extension	5141796752	PD16 (Waterdown) Trunk Feedermain - PS HD016 to Hwy 5 at Algonquin (W-25) (CASH FLOWED)	2,200,000	1,878,000	-	-	1,100,000	275,000	7,270,000	1,817,500	-	-	-	-	10,570,000	3,970,500	2017	2024
	5141995951	PS HD019 (Binbrook) Capacity Upgrade (W-20)	20,000	20,000	-	-	-	-	280,000	-	-	-	2,150,000	-	2,450,000	20,000	2019	2026
	5141996951	Binbrook Feedermain via Fletcher (W-30)	3,920,000	50,000	2,530,000	-	-	-	-	-	-	-	-	-	6,450,000	50,000	2019	2022
	5142196011	Intensification Infrastructure Upgrades Program - Water	-	-	-	-	400,000	200,000	-	-	400,000	200,000	1,200,000	600,000	2,000,000	1,000,000	2023	2045
	5142260280	Upper Centennial Watermain Extension	-	-	500,000	500,000	-	-	-	-	-	-	-	-	500,000	500,000	2022	2022
	5142396850	Locke St Trunk Watermain - York - Locke to Cannon @ Caroline (W-19)	-	-	-	-	2,530,000	-	-	-	-	-	-	-	2,530,000	-	2023	2023
	5142495251	Highland Reservoir HDR07 (W-11) Expansion (CASH FLOWED)	-	-	-	-	-	-	1,980,000	-	5,220,000	-	5,220,000	-	12,420,000	-	2021	2026
	5142496850	Locke St Trunk Watermain - Main to York (W-19)	-	-	-	-	-	-	2,200,000	-	-	-	-	-	2,200,000	-	2024	2024
	5142596250	HD07A Feedermain (W-22)	-	-	-	-	-	-	-	-	1,160,000	-	7,700,000	-	8,860,000	-	2021	2026
	5143080081	South Service Rd - Millen to Dewitt	-	-	-	-	-	-	-	-	-	-	-	-	2,280,000	-	2023	2044
	5143080380	South Service Rd - Fruitland to Jones	-	-	-	-	-	-	-	-	-	-	-	-	1,280,000	-	2023	2030
	5143166110	Water Treatment Plant - Process Upgrades Phase 3 (CASH FLOWED)	-	-	-	-	-	-	-	-	-	-	1,100,000	228,800	1,100,000	228,800	2031	2034
	5143180180	Glover - Barton to South Service Rd Extension	-	-	-	-	-	-	-	-	-	-	-	-	790,000	-	2024	2031
	5143180182	Shaver - Kastura to Westview	-	-	-	-	-	-	-	-	-	-	225,000	168,750	225,000	168,750	2031	2032
	5143180381	Dewitt CNR Tracks to Barton	-	-	-	-	-	-	-	-	-	-	610,000	-	610,000	-	2024	2031
Expansion / Extension Total			6,140,000	1,948,000	3,030,000	500,000	4,030,000	475,000	11,730,000	1,817,500	6,780,000	200,000	22,555,000	997,550	54,265,000	5,938,050		
Feasibility Plans / EA's/ Studies	5141855777	Water Infrastructure Analysis - Growth and Economic Opportunities	920,000	920,000	330,000	330,000	-	-	-	-	-	-	-	-	1,250,000	1,250,000	2018	2022
	5142096520	Garner Road Trunk Watermain - Southcote to Wilson (W-09)	-	(3,390,000)	13,550,000	-	-	-	-	-	-	-	-	-	13,550,000	(3,390,000)	2020	2023
	5142155010	Water Systems Planning Program	-	-	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	3,600,000	6,000,000	6,000,000	2022	2040
	5142155022	Engineering Consultant Watermain Projects	300,000	300,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	2,400,000	2,400,000	4,300,000	4,300,000	2021	2046
	5142155247	Alterations to the Drinking Water System	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,650,000	1,650,000	2021	2046
	5142155556	Mapping Update Program	115,000	115,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	515,000	515,000	2021	2046
	5142155713	Pressure Districts and Drinking Water System Optimization	-	-	-	-	420,000	420,000	170,000	170,000	170,000	170,000	1,020,000	1,020,000	1,780,000	1,780,000	2022	2031
	5142157545	Water - Computer Model	170,000	170,000	150,000	150,000	280,000	280,000	280,000	280,000	280,000	280,000	1,680,000	1,680,000	2,840,000	2,840,000	2021	2046
	5142167752	Water Outstation Inspections - Asset Management	50,000	50,000	-	-	800,000	800,000	800,000	800,000	800,000	800,000	800,000	6,300,000	8,750,000	8,750,000	2021	2046
	5142251112	Inventory Bar Coding System, Equipment & Consulting	-	-	200,000	200,000	-	-	-	-	-	-	-	-	200,000	200,000	2022	2022
	5142255264	City-Wide Water Master Plan	-	-	280,000	-	-	-	-	-	-	-	550,000	-	830,000	-	2022	2028
	5142255280	Airport Employment Growth District (AEGD) Water, Wastewater and Stormwater Master Plan Update	-	-	700,000	-	-	-	-	-	-	-	-	-	700,000	-	2022	2022
	5142255851	Water Efficiency Plan/Program	-	-	115,000	115,000	117,000	117,000	120,000	120,000	122,000	122,000	803,000	803,000	1,277,000	1,277,000	2022	2041
	5142257000	Vertical Asset Management Program	280,000	280,000	280,000	280,000	-	-	-	-	-	-	-	-	560,000	560,000	2021	2022
	5142257800	Water Facility Asset Management Implementation Plan	-	-	100,000	100,000	280,000	280,000	110,000	110,000	-	-	-	-	490,000	490,000	2022	2024
	5142267510	Water System Studies & Continual Improvement Initiatives	-	-	1,100,000	1,100,000	-	-	-	-	-	-	-	-	1,100,000	1,100,000	2022	2022
	5143066151	2030 SCADA Master Plan	-	-	-	-	-	-	-	-	-	-	5,125,000	5,125,000	5,125,000	5,125,000	2029	2034
Feasibility Plans / EA's/ Studies Total			1,985,000	(1,405,000)	17,995,000	3,465,000	3,087,000	3,087,000	2,670,000	2,670,000	2,562,000	2,562,000	22,618,000	22,068,000	50,917,000	32,447,000		
Licenses	5142162073	Field Data Systems Program	110,000	110,000	210,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,310,000	1,210,000	2021	2046
Licenses Total			110,000	110,000	210,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,310,000	1,210,000		
New	5141395354	PD18 (Ancaster) Water Servicing Strategy (W-14) (CASH FLOWED)	220,000	(180,000)	-	-	6,080,000	3,040,000	6,080,000	3,040,000	-	-	-	-	12,380,000	5,900,000	2013	2024
	5141495551	PD7 (Upper Stoney Creek/Glanbrook) Elevated Reservoir (W-23)	250,000	250,000	5,500,000	-	5,500,000	-	-	-	-	-	-	-	11,250,000	250,000	2014	2023
	5141767650	New Greensville Communal Well	320,000	320,000	150,000	150,000	150,000	150,000	3,500,000	3,500,000	3,500,000	3,500,000	-	-	7,620,000	7,620,000	2017	2025

**CITY OF HAMILTON
WATER SYSTEM
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5141895852	Carlisle Water Supply System - Additional Water Storage (CASH FLOWED)	80,000	80,000	900,000	900,000	-	-	6,150,000	6,150,000	-	-	-	-	7,130,000	7,130,000	2018	2024
	5142151110	Fleet Additions	1,160,000	1,160,000	1,162,000	-	460,000	460,000	120,000	120,000	130,000	130,000	1,050,000	1,050,000	4,082,000	2,920,000	2021	2046
	5142161502	Water Meter - Installation/Replacement/Repair - General Maintenance	3,400,000	2,760,000	4,270,000	3,630,000	4,360,000	3,720,000	4,450,000	3,810,000	3,550,000	2,910,000	22,870,000	19,030,000	42,900,000	35,860,000	2021	2046
	5142167840	PD9 & PD10 East Stoney Creek Booster Pumping Station	470,000	470,000	550,000	550,000	3,150,000	3,150,000	-	-	-	-	-	-	4,170,000	4,170,000	2021	2023
	5142441226	Centralized Water and Wastewater Operations Centre (CASH FLOWED)	-	-	-	-	2,625,000	2,625,000	5,125,000	5,125,000	-	-	-	-	7,750,000	7,750,000	2023	2024
	5142467224	New PD2 Water Pumping Station (CASH FLOWED)	-	-	2,650,000	2,650,000	-	-	1,100,000	1,100,000	5,150,000	5,150,000	5,150,000	5,150,000	14,050,000	14,050,000	2022	2026
	5142495552	P.S. HD07A - New District 7 (Elfrida area) Pumping Station (W-21)	-	-	-	-	-	-	250,000	-	-	-	20,050,000	-	20,300,000	-	2024	2027
New Total			5,900,000	4,860,000	15,182,000	7,880,000	22,325,000	13,145,000	26,775,000	22,845,000	12,330,000	11,690,000	49,120,000	25,230,000	131,632,000	85,650,000		
Rehabilitation / Renovation	5141269250	HVAC system Upgrades at New Environmental Laboratory and Administration Building	5,420,000	5,420,000	-	-	-	-	110,000	110,000	880,000	880,000	-	-	6,410,000	6,410,000	2011	2025
	5141567520	Stone Church/Garth Water (HDR05) Reservoir	5,312,000	5,312,000	-	-	3,125,000	3,125,000	2,775,000	2,775,000	-	-	-	-	11,212,000	11,212,000	2015	2024
	5141567575	High Lift Pumping Station (HLPS) Improvements - Phase 2 (CASH FLOWED)	2,600,000	2,600,000	2,470,000	2,470,000	-	-	-	-	-	-	-	-	5,070,000	5,070,000	2015	2022
	5141667421	Glancaster Rd & Hwy 53 Pumping Station (HD018) Upgrades (CASH FLOWED)	10,510,000	10,510,000	-	-	-	-	-	-	-	-	5,500,000	5,500,000	16,010,000	16,010,000	2016	2029
	5141695883	PS HD016 (York and Valley) Capacity Upgrade, Standby Power & Building Expansion (W-26) (CASH FLOWED)	4,320,000	3,060,000	-	-	3,950,000	395,000	4,150,000	415,000	550,000	55,000	-	-	12,970,000	3,925,000	2016	2025
	5141760754	Kenilworth Transmission Watermain Renewal	2,000,000	2,000,000	600,000	600,000	-	-	-	-	-	-	-	-	2,600,000	2,600,000	2017	2022
	5141761777	Beach Trunkmain Rehab	7,700,000	7,700,000	1,500,000	1,500,000	-	-	-	-	-	-	-	-	9,200,000	9,200,000	2017	2022
	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) (CASH FLOWED)	23,820,000	13,260,000	550,000	137,500	13,930,000	3,482,500	15,650,000	3,912,500	15,650,000	3,912,500	-	-	69,600,000	24,705,000	2017	2025
	5141867651	HD007 Highland Rd Reservoir Upgrades	30,000	30,000	170,000	170,000	1,000,000	1,000,000	-	-	-	-	-	-	1,200,000	1,200,000	2018	2023
	5141966420	Woodward WTP Chlorine Chemical Building	660,000	660,000	1,380,000	1,380,000	-	-	-	-	-	-	-	-	2,040,000	2,040,000	2019	2022
	5141967375	HDR01 Kenilworth and HDR1C Ben Nevis Reservoir Upgrades	14,360,000	14,360,000	330,000	330,000	-	-	-	-	-	-	-	-	14,690,000	14,690,000	2019	2022
	5142067450	Lee Smith Reservoir (HDR00) Upgrades	110,000	110,000	170,000	170,000	-	-	-	-	-	-	-	-	280,000	280,000	2020	2022
	5142111101	Road Cut Restoration Program	5,400,000	5,400,000	7,965,000	-	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	32,400,000	32,400,000	61,965,000	54,000,000	2021	2046
	5142157626	Critical Watermain Inspection Program	600,000	600,000	731,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	3,600,000	6,731,000	6,600,000	2021	2046
	5142160072	Watermain Structural Lining	7,700,000	7,700,000	5,300,000	-	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	6,200,000	37,200,000	37,200,000	68,800,000	63,500,000	2021	2046
	5142160073	Structural Watermain Lining - Charlton Ave 750mm	150,000	150,000	-	-	-	-	-	-	-	-	2,680,000	2,680,000	2,830,000	2,830,000	2021	2029
	5142166110	Water Treatment Plant - Process Upgrades Phase 2 (CASH FLOWED)	1,378,000	1,378,000	1,378,000	751,000	2,705,000	1,473,000	19,175,000	10,442,000	54,838,000	29,862,000	66,706,000	36,324,000	146,180,000	80,230,000	2021	2028
	5142166713	Water Maintenance Capital Program	-	-	1,000,000	1,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	19,000,000	19,000,000	2022	2046
	5142167420	HDR18 Glancaster Reservoir Upgrades	440,000	440,000	440,000	440,000	1,430,000	1,430,000	1,100,000	1,100,000	-	-	-	-	3,410,000	3,410,000	2021	2024
	5142167421	HDR11 Woodley Lane Reservoir Upgrades	1,600,000	1,600,000	170,000	170,000	500,000	500,000	-	-	-	-	-	-	2,270,000	2,270,000	2021	2023
	5142169075	City Environmental Lab Improvements Program	275,000	275,000	340,000	340,000	190,000	190,000	90,000	90,000	50,000	50,000	300,000	300,000	1,245,000	1,245,000	2021	2046
	5142261240	Woodward Treatment Plant Filter Building - Flume Watermain Lining	-	-	2,000,000	2,000,000	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2022	2022
	5142261741	Resetting or Adjusting of Water Utility Structures	-	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,500,000	2,500,000	2022	2046
	5142266220	Water Treatment Plant - Clearwells Concrete Restoration Upgrades	-	-	600,000	600,000	700,000	700,000	2,400,000	2,400,000	2,400,000	2,400,000	-	-	6,100,000	6,100,000	2022	2025
	5142266320	Woodward Water Treatment Plant - Low Lift Pumping Station Intake Repairs	-	-	830,000	830,000	-	-	-	-	-	-	-	-	830,000	830,000	2022	2022
	5142266712	Water Maintenance - Rebuild, Replacement and New Capital	-	-	400,000	400,000	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	1,200,000	2,200,000	2,200,000	2022	2046
	5142267585	Diesel Fuel Storage Compliance Upgrades	-	-	500,000	500,000	600,000	600,000	-	-	-	-	-	-	1,100,000	1,100,000	2022	2023
	5142567751	Water Outstation Upgrades - Asset Management Program	-	-	-	-	-	-	-	-	7,500,000	7,500,000	45,000,000	45,000,000	52,500,000	52,500,000	2023	2046
	5142661308	James and Charlton Intersection	-	-	-	-	-	-	-	-	-	-	940,000	940,000	940,000	940,000	2026	2026
	5142860072	WM Structural Lining - Dundas Valley Watermain	-	-	-	-	-	-	-	-	-	-	1,550,000	1,550,000	1,550,000	1,550,000	2028	2028
Rehabilitation / Renovation Total			94,385,000	82,565,000	29,074,000	14,638,500	42,780,000	27,545,500	60,100,000	35,894,500	96,518,000	59,309,500	210,576,000	180,194,000	533,433,000	400,147,000		
Replacement	5141567273	Main / Whitney Pumping Station Replacement and Decommissioning	180,000	180,000	140,000	140,000	3,850,000	3,850,000	-	-	-	-	-	-	4,170,000	4,170,000	2015	2023
	5141595553	PS HD12A (Governors @ Huntingwood) Rebuild with Capacity Upgrade & Standby Power Installation (W-04)	260,000	(32,000)	220,000	55,000	2,650,000	662,500	4,350,000	1,087,500	-	-	-	-	7,480,000	1,773,000	2015	2024
	5141966151	SCADA Maintenance Program	2,400,000	2,400,000	150,000	150,000	275,000	275,000	275,000	275,000	900,000	900,000	2,275,000	2,275,000	6,275,000	6,275,000	2019	2046
	5142066310	WTP Pre-Treatment Isolation Valves	1,280,000	1,280,000	550,000	550,000	-	-	-	-	-	-	-	-	1,830,000	1,830,000	2020	2022
	5142066350	WTP Chlorine Chemical Building	200,000	200,000	-	-	-	-	6,430,000	6,430,000	6,430,000	6,430,000	-	-	13,060,000	13,060,000	2020	2025
	5142149555	QA-QC Service Contract Program	-	-	290,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,640,000	1,500,000	2021	2046
	5142160080	Valve Replacement Program	1,200,000	1,200,000	3,780,000	2,610,000	1,720,000	1,720,000	1,450,000	1,450,000	1,780,000	1,780,000	8,550,000	8,550,000	18,480,000	17,310,000	2021	2046
	5142160577	Metallic Watermain Condition Assessment Program	630,000	630,000	815,000	630,000	630,000	630,000	630,000	630,000	630,000	630,000	3,780,000	3,780,000	7,115,000	6,930,000	2021	2046
	5142160711	PW Capital Water Consumption Program	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,750,000	2,750,000	2021	2046
	5142160750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	3,000,000	3,000,000	2,850,000	1,550,000	2,850,000	2,850,000	2,350,000	2,350,000	2,350,000	2,350,000	14,100,000	14,100,000	27,500,000	26,200,000	2021	2046
	5142161300	Stand-Alone Watermain Replacement	-	-	-	-	-	-	-	-	-	-	5,000,000	5,000,000	5,000,000	5,000,000	2028	2046
	5142162078	Substandard Water Service Replacement Program	2,750,000	2,750,000	2,350,000	2,350,000	2,350,000	2,350,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	23,450,000	23,450,000	2021	2046
	5142171074	Contingency for Unscheduled Works Program	299,996	299,996	-	-	180,000	180,000	-	-	-	-	540,000	540,000	1,199,996	1,199,996	2021	2046</

CITY OF HAMILTON
WATER SYSTEM
2022 - 2031 CAPITAL BUDGET LIST (\$)

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5142260082	Large Valve Replacement - Longwood and Glenside	-	-	1,000,000	-	-	-	-	-	-	-	-	-	1,000,000	-	2022	2022
	5142271318	Eastmount Neighbourhood - Water	-	-	210,000	160,000	-	-	-	-	-	-	-	-	210,000	160,000	2022	2022
	5142461302	Bold - Queen to Locke	-	-	-	-	-	-	700,000	700,000	-	-	-	-	700,000	700,000	2021	2024
	5142472304	Bridge 451 - Hwy 5 E, 120m e/o Mill St S	-	-	-	-	-	-	140,000	140,000	-	-	-	-	140,000	140,000	2021	2031
	5142661301	Robinson - Hess to Park	-	-	-	-	-	-	-	-	-	-	950,000	950,000	950,000	950,000	2021	2026
	5142661306	Amelia - Queen to West End	-	-	-	-	-	-	-	-	-	-	560,000	560,000	560,000	560,000	2026	2026
	5142661307	Dallas - Upper Gage to West End	-	-	-	-	-	-	-	-	-	-	630,000	630,000	630,000	630,000	2026	2026
	5142661309	Myler - Sanford to Milton/Milton - Barton to Princess	-	-	-	-	-	-	-	-	-	-	470,000	470,000	470,000	470,000	2026	2026
	5142760311	George - Queen to Ray	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2027	2027
	5142761302	Edgemont - Main to King	-	-	-	-	-	-	-	-	-	-	660,000	660,000	660,000	660,000	2021	2028
	5142861302	Edward - Barnesdale to Lottridge	-	-	-	-	-	-	-	-	-	-	360,000	360,000	360,000	360,000	2028	2028
	5142861303	Hess - Markland to Aberdeen	-	-	-	-	-	-	-	-	-	-	460,000	460,000	460,000	460,000	2028	2028
	5142861305	John - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	810,000	810,000	810,000	810,000	2028	2028
	5142961301	Clinton\Case\Ruth\Barnesdale	-	-	-	-	-	-	-	-	-	-	1,810,000	1,810,000	1,810,000	1,810,000	2029	2029
	5143060310	Princess\Westinghouse\Milton\Fullerton\Gibson\Earl	-	-	-	-	-	-	-	-	-	-	4,200,000	4,200,000	4,200,000	4,200,000	2030	2030
	5143061303	Caroline - Herkimer to Robinson	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2030	2030
	5143166510	GAC Replacement	-	-	-	-	-	-	-	-	-	-	600,000	600,000	600,000	600,000	2026	2032
Replacement Total			12,449,996	12,157,996	14,605,000	8,595,000	14,905,000	12,917,500	18,725,000	15,462,500	14,670,000	14,670,000	60,995,000	60,995,000	136,349,996	124,797,996		
Safety/ Security	5142266351	Woodward SCADA OT (Operating Technology) Security Program	-	-	125,000	125,000	-	-	-	-	-	-	-	-	125,000	125,000	2022	2022
	5142266871	Hamilton Water Capital Security Plan	-	-	1,030,000	1,030,000	1,060,000	1,060,000	1,130,000	1,130,000	790,000	790,000	530,000	530,000	4,540,000	4,540,000	2022	2031
Safety/ Security Total			-	-	1,155,000	1,155,000	1,060,000	1,060,000	1,130,000	1,130,000	790,000	790,000	530,000	530,000	4,665,000	4,665,000		
Staffing Costs	5142101099	Engineering Services Staffing Costs - Water	4,700,000	4,700,000	4,500,000	4,036,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	49,700,000	49,236,000	2021	2046
Staffing Costs Total			4,700,000	4,700,000	4,500,000	4,036,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	49,700,000	49,236,000		
Grand Total			126,899,996	106,085,996	105,271,000	56,639,500	111,222,000	80,700,000	148,240,000	106,929,500	157,650,000	112,821,500	517,254,000	439,474,550	1,166,536,996	902,651,046		

Appendix "M" to Report FCS21088 Page 1 of 1

SOURCE OF CAPITAL FINANCING
2022 to 2031 RATE PROGRAM CAPITAL BUDGET
\$(000'S)

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2022 to 2031
WASTEWATER											
Capital Program	169,020	82,005	106,565	93,275	175,923	175,418	179,428	101,050	90,770	101,560	1,275,014
Source of Funding											
Subsidy/Other Revenue	4,000	-	2,720	7,000	-	-	-	-	-	-	13,720
Development Charges	39,241	18,059	24,634	6,564	98,822	96,422	96,772	864	664	864	382,901
Reserves & Other Internal Sources	19,996	9,000	5,000	-	-	-	-	-	-	-	33,996
Contribution from Operating	73,784	47,226	36,791	46,481	72,871	78,996	82,656	89,186	90,106	100,696	718,797
External Debt	32,000	7,720	37,420	33,230	4,230	-	-	11,000	-	-	125,600
Total	169,020	82,005	106,565	93,275	175,923	175,418	179,428	101,050	90,770	101,560	1,275,014

**City of Hamilton
 Wastewater System
 2022 Capital Budget Project List
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Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Coordinated - Network Extension	5162180187	Garner Road Trunk Sanitary Sewer - Hwy 6 w/o Raymond - CASH FLOW	4,000,000			4,000,000			-		
	5162280280	Dewitt Road Sanitary Sewer - Barton to SSR	1,000,000		500,000				500,000	500,000	
	5162280281	Dickenson Road West Sanitary Sewer - Garth Street Extension to Upper James Street	2,670,000			2,670,000			-		
	5162280282	Fifty Road Trunk Sanitary Sewer	1,300,000			1,300,000			-		
	5162280284	Shaver Road Sanitary Sewer - Osprey to hydro corridor	600,000			600,000			-		
Coordinated - Network Extension Total			9,570,000		500,000	8,570,000			500,000	500,000	
Coordinated - Replacement	5162171015	Sewer Lateral Replacement for Co-ordinated Projects	600,000					100,000	500,000	500,000	
	5162171025	Dewitt - Highway 8 to Barton	1,040,000						1,040,000	1,040,000	
	5162271012	Strathearne - Main to Britannia - Sewer Laterals	170,000						170,000	170,000	
	5162271306	Kelvin - Old Orchard to south end	60,000						60,000	60,000	
	5162272205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	1,250,000					1,250,000	-		
	5162271308	Concession / Mountain Brow - Upper Gage to Oakcrest	150,000						150,000	150,000	
	5162271021	Westdale South Neighbourhood (Central)	30,000						30,000	30,000	
	5162271296	Governor's - Main to Ogilvie (Bridge 296)	380,000						380,000	380,000	
	5162271022	Burlington - James to Ferguson	440,000					240,000	200,000	200,000	
	5162271109	Scenic - Mohawk to Chateau	70,000						70,000	70,000	
	5162271214	Fairfield - Barton to Britannia	250,000						250,000	250,000	
	5162271303	Marion - Longwood to Dromore	180,000						180,000	180,000	
Coordinated - Replacement Total			4,620,000					1,590,000	3,030,000	3,030,000	
Demolition / Disposal	5162068851	Pier 25 Dredging - Windermere Basin	13,250,000						13,250,000	13,250,000	
Demolition / Disposal Total			13,250,000						13,250,000	13,250,000	
Enhancement	5162241350	Pilot solar power installation at a Class B Hamilton Water facility	150,000						150,000	150,000	-
	5162268757	Lower Chedoke Combined EA Study	280,000				280,000		-	-	
	5162268767	Chedoke Watershed Stormwater Retrofit EA Study	280,000				280,000		-	-	
Enhancement Total			710,000				560,000		150,000	150,000	-
Expansion / Extension	5161966102	Woodward WWTP - Expansion (CASH FLOWED)	4,500,000			4,500,000			-		
	5162280283	370 Garner Road Pumping Station (AEGD)	3,500,000		3,500,000				-		
Expansion / Extension Total			8,000,000		3,500,000	4,500,000			-		
Feasibility Plans / EA's/ Studies	5161555264	City-Wide Wastewater Master Plan	280,000			280,000			-		
	5161855777	Wastewater infrastructure Analysis - Growth and Economic Opportunities	550,000						550,000	550,000	
	5162055800	Sewer Outfall Monitoring Study	500,000						500,000	500,000	
	5162095800	Flooding & Drainage Master Plan Capital Improvements	450,000						450,000	450,000	
	5162149555	QA-QC Service Contract Program	150,000						150,000	150,000	
	5162155010	Wastewater Systems Planning Program	600,000						600,000	600,000	
	5162155022	Engineering Consultant Sewermain Projects	500,000						500,000	500,000	
	5162155556	Mapping Update Program	40,000						40,000	40,000	
	5162155878	Forcemain Condition Assessment Program	626,000					356,000	270,000	270,000	
	5162157545	Wastewater Computer Model Update & Maintenance	220,000						220,000	220,000	
	5162167752	Wastewater Outstation Inspections - Asset Management Program	1,020,000						1,020,000	1,020,000	
	5162168777	Chedoke Creek Water Quality Improvements (CASH FLOWED)	9,050,000				9,050,000		-	-	
	5162562543	CSO Characterization Program	170,000						170,000	170,000	
	5162255242	Combined Sewer Outfall Monitoring Study	600,000						600,000	600,000	
	5162255800	Inflow & Infiltration Study for New Subdivisions	550,000						550,000	550,000	
	5162262305	Iona Avenue Sewer Improvements	330,000						330,000	330,000	
	5162257800	Wastewater Facility Asset Management Implementation Plan	100,000						100,000	100,000	
Feasibility Plans / EA's/ Studies Total			15,736,000		-	280,000	9,050,000	356,000	6,050,000	6,050,000	
Licenses	5162162073	Field Data Systems Program	110,000						110,000	110,000	
Licenses Total			110,000						110,000	110,000	

**City of Hamilton
 Wastewater System
 2022 Capital Budget Project List
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Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources		
										From Operating	External Debt	
New	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	20,300,000			20,300,000			-			
	5162280285	Drop Structure Installation - Upper Centennial Trunk Sewer Manhole #10	500,000						500,000	500,000		
New Total			20,800,000			20,300,000			500,000	500,000		
Rehabilitation / Renovation	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	37,895,253	-		5,067,000	-		32,828,253	6,478,253	26,350,000	
	5160966910	Woodward WWTP - Biosolids Management Facility	2,770,000			523,530	-		2,246,470	2,246,470		
	5161966511	Woodward WWTP - Digester 3 & 5 (CASH FLOWED)	4,710,000						4,710,000	4,710,000		
	5162067425	Hillside SPS (DC006) Upgrades	280,000						280,000	280,000		
	5162366420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	1,100,000						1,100,000	1,100,000		
	5162111101	Road Cut Restoration Program	2,315,000					515,000	1,800,000	1,800,000		
	5162160302	Emergency Repairs - Cross Connections Program	1,470,000					1,170,000	300,000	300,000		
	5162160390	Wastewater System Lining Program	4,050,000					400,000	3,650,000	3,650,000		
	5162160522	Sewer Lateral Management Program (WWC)	4,000,000						4,000,000	4,000,000		
	5162160533	Trenchless Manhole Rehabilitation	250,000					70,000	180,000	180,000		
	5162160574	Capital Programming Sewer Inspection & Assessment	1,150,000					450,000	700,000	700,000		
	5162160575	Mainline Sewer Condition Assessment Program	2,030,000					890,000	1,140,000	1,140,000		
	5162160576	Sewer Lateral Condition Assessment Program	790,000					540,000	250,000	250,000		
	5162161444	Sewer Lateral Replace/Rehab Program	3,620,000					520,000	3,100,000	3,100,000		
	5162169075	City Environmental Lab Improvements Program	340,000						340,000	340,000		
	5162167501	Odour Control Program & Media Replacement	1,000,000						1,000,000	1,000,000		
	5162167420	DC007 McMaster Sewage Pumping Station Upgrades	330,000						330,000	330,000		
	5162261741	Resetting or Adjusting of Wastewater Utility Structures	250,000						250,000	250,000		
	5162262250	Eastern Sewer Interceptor (ESI) - South Service - Fruitland to Green	8,000,000					3,067,585	4,932,415	4,932,415		
	5162267375	Beach Boulevard (HC051) Wastewater Pump Station Upgrades	440,000						440,000	440,000		
	5162267376	Rockcliffe (DC015) Wastewater Pumping Station Upgrades	990,000						990,000	990,000		
	5162266911	Woodward WWTP - North Digester Complex Rehabilitation (CASH FLOW)	3,450,000						3,450,000	3,450,000		
5162267585	Diesel Fuel Storage Compliance Upgrades	1,100,000						1,100,000	1,100,000			
5162166810	Woodward WWTP - Maintenance Building (CASH FLOWED)	500,000						500,000	500,000			
5162266712	Wastewater Maintenance - Rebuild, Replacement and New Capital	600,000						600,000	600,000			
5165522888	Mill St Bridge - Sanitary Sewer Erosion Protection	350,000						350,000	350,000			
Rehabilitation / Renovation Total			83,780,253	-		5,590,530	3,067,585	4,555,000	70,567,138	44,217,138	26,350,000	
Relocation	5162255900	EA - McMaster Innovation Park (MIP) Storm Sewer Relocation	5,650,000						5,650,000		5,650,000	
Relocation Total			5,650,000						5,650,000		5,650,000	
Replacement	5161966151	SCADA Maintenance Program	150,000						150,000	150,000		
	5162160577	Mainline Sewer Condition Assessment for Compliance & Regulations	219,000					119,000	100,000	100,000		
	5162160711	PW Capital Water Consumption Program	250,000						250,000	250,000		
	5162160820	Open Cut Repairs for CIPP Program	620,000					120,000	500,000	500,000		
	5162161740	Unscheduled Manhole and Sewermain Replacement Program	750,000						750,000	750,000		
	5162171074	Contingency for Unscheduled Works Program	180,000						180,000	180,000		
Replacement Total			2,169,000					239,000	1,930,000	1,930,000		
Safety/ Security	5162266351	Woodward SCADA OT (Operating Technology) Security Program	125,000						125,000	125,000		
Safety/ Security Total			125,000						125,000	125,000		
Staffing Costs	5162101099	Engineering Services Staffing Costs - Wastewater	4,500,000					578,000	3,922,000	3,922,000		
Staffing Costs Total			4,500,000					578,000	3,922,000	3,922,000		
Grand Total			169,020,253	-		4,000,000	39,240,530	12,677,585	7,318,000	105,784,138	73,784,138	32,000,000

**CITY OF HAMILTON
 WASTEWATER SYSTEM
 2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net			
Coordinated - Network Extension	15162180187	Garner Road Trunk Sanitary Sewer - Hwy 6 w/o Raymond - CASH FLOW	4,000,000	4,000,000	4,000,000	-	-	-	-	-	-	-	-	-	-	8,000,000	4,000,000	2021	2022
	15162280280	Dewitt Road Sanitary Sewer - Barton to SSR	-	-	1,000,000	500,000	-	-	-	-	-	-	-	-	-	1,000,000	500,000	2022	2022
	15162280281	Dickenson Road West Sanitary Sewer - Garth Street Extension to Upper James Street	-	-	2,670,000	-	-	-	-	-	-	-	-	-	-	2,670,000	-	2022	2022
	15162280282	Fifty Road Trunk Sanitary Sewer	-	-	1,300,000	-	-	-	-	-	-	-	-	-	-	1,300,000	-	2022	2022
	15162280284	Shaver Road Sanitary Sewer - Osprey to hydro corridor	-	-	600,000	-	-	-	-	-	-	-	-	-	-	600,000	-	2022	2022
Coordinated - Network Extension Total			4,000,000	4,000,000	9,570,000	500,000	-	-	-	-	-	-	-	-	13,570,000	4,500,000			
Coordinated - Replacement	15162171015	Sewer Lateral Replacement for Co-ordinated Projects	354,000	354,000	600,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,454,000	5,354,000	2021	2046	
	15162171025	Dewitt - Highway 8 to Barton	600,000	600,000	1,040,000	1,040,000	-	-	-	-	-	-	-	-	1,640,000	1,640,000	2021	2022	
	15162271012	Strathearne - Main to Britannia - Sewer Laterals	-	-	170,000	170,000	-	-	-	-	-	-	-	-	170,000	170,000	2022	2022	
	15162271021	Westdale South Neighbourhood (Central)	-	-	30,000	30,000	-	-	-	-	-	-	-	-	30,000	30,000	2022	2022	
	15162271022	Burlington - James to Ferguson	-	-	440,000	200,000	-	-	-	-	-	-	-	-	440,000	200,000	2022	2022	
	15162271109	Scenic - Mohawk to Chateau	-	-	70,000	70,000	-	-	-	-	-	-	-	-	70,000	70,000	2022	2022	
	15162271214	Fairfield - Barton to Britannia	-	-	250,000	250,000	-	-	-	-	-	-	-	-	250,000	250,000	2022	2022	
	15162271296	Governor's - Main to Oglivie (Bridge 296)	-	-	380,000	380,000	-	-	-	-	-	-	-	-	380,000	380,000	2022	2022	
	15162271303	Marion - Longwood to Dromore	-	-	180,000	180,000	-	-	-	-	-	-	-	-	180,000	180,000	2022	2022	
	15162271306	Kelvin - Old Orchard to south end	-	-	60,000	60,000	-	-	-	-	-	-	-	-	60,000	60,000	2022	2022	
	15162271308	Concession / Mountain Brow - Upper Gage to Oakcrest	-	-	150,000	150,000	-	-	-	-	-	-	-	-	150,000	150,000	2022	2022	
	15162272205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	-	-	1,250,000	-	-	-	-	-	-	-	-	-	1,250,000	-	2022	2022	
	15162371307	Duke - Hess to west end & Robinson - Queen to west end	-	-	-	-	30,000	30,000	250,000	250,000	-	-	-	-	280,000	280,000	2023	2024	
	15162471202	Hughson - Simcoe to Brock & Wood - James to Hughson	-	-	-	-	-	-	400,000	400,000	-	-	-	-	400,000	400,000	2024	2024	
	15162471304	Ferguson/Foster/Walnut/Patrick	-	-	-	-	-	-	110,000	110,000	-	-	-	-	110,000	110,000	2024	2024	
	15162471308	Scenic - Chateau Crt to Upper Paradise	-	-	-	-	-	-	1,070,000	1,070,000	-	-	-	-	1,070,000	1,070,000	2024	2024	
	15162571201	Simcoe - James to Wellington & Hughson - Strachan to Simcoe	-	-	-	-	-	-	-	-	400,000	400,000	-	-	400,000	400,000	2025	2025	
	15162772214	Westdale North Neighbourhood Phase 1	-	-	-	-	-	-	-	-	-	-	1,590,000	1,590,000	1,590,000	1,590,000	2027	2027	
	15162871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	750,000	750,000	750,000	750,000	2028	2028	
	15162871118	Charlton - Walnut to Sherman Access	-	-	-	-	-	-	-	-	-	-	120,000	120,000	120,000	120,000	2028	2028	
	15162871208	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	760,000	760,000	760,000	760,000	2028	2028	
	15162871311	Oak/Emerald/East Ave - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	440,000	440,000	440,000	440,000	2028	2028	
	15162971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	20,000	20,000	20,000	20,000	2029	2029	
	15162971106	Wentworth - Barton to Burlington	-	-	-	-	-	-	-	-	-	-	250,000	250,000	250,000	250,000	2027	2027	
	15162971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	750,000	750,000	750,000	750,000	2029	2029	
	15162971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	75,000	75,000	75,000	75,000	2029	2029	
	15162971117	Green - Carla to Barton	-	-	-	-	-	-	-	-	-	-	100,000	100,000	100,000	100,000	2029	2029	
15162971311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2029	2029		
15163071308	Stipeley Neighbourhood (South) - Connaught / Balsam / Dunsmore	-	-	-	-	-	-	-	-	-	-	80,000	80,000	80,000	80,000	2030	2030		
Coordinated - Replacement Total			954,000	954,000	4,620,000	3,030,000	530,000	530,000	2,330,000	2,330,000	900,000	900,000	8,355,000	8,355,000	17,689,000	16,099,000			
Demolition / Disposal	15161767772	Decommissioning Aberdeen Sewage Pumping Station	10,000	10,000	-	-	-	-	-	-	110,000	110,000	1,190,000	1,190,000	1,310,000	1,310,000	2019	2026	
	15162068851	Pier 25 Dredging - Windermere Basin	50,000	50,000	13,250,000	13,250,000	-	-	-	-	-	-	-	-	13,300,000	13,300,000	2018	2022	
Demolition / Disposal Total			60,000	60,000	13,250,000	13,250,000	-	-	-	-	110,000	110,000	1,190,000	1,190,000	14,610,000	14,610,000			
Enhancement	15162241350	Pilot solar power installation at a Class B Hamilton Water facility	-	-	150,000	150,000	600,000	600,000	-	-	-	-	-	-	750,000	750,000	2022	2025	
	15162268757	Lower Chedoke Combined EA Study	-	-	280,000	-	1,650,000	-	1,100,000	-	2,100,000	2,100,000	2,100,000	2,100,000	7,230,000	4,200,000	2022	2026	
	15162268767	Chedoke Watershed Stormwater Retrofit EA Study	-	-	280,000	-	1,100,000	-	3,150,000	350,000	3,150,000	3,150,000	4,300,000	4,300,000	11,980,000	7,800,000	2022	2027	
Enhancement Total			-	-	710,000	150,000	3,350,000	600,000	4,250,000	350,000	5,250,000	5,250,000	6,400,000	6,400,000	19,960,000	12,750,000			
Expansion / Extension	15161966102	Woodward WWTP - Expansion (CASH FLOWED)	3,500,000	-	4,500,000	-	4,500,000	-	5,700,000	-	5,700,000	-	289,274,000	-	313,174,000	-	2019	2028	
	15162196011	Intensification Infrastructure Upgrades Program - Wastewater	-	-	-	-	400,000	200,000	-	-	400,000	200,000	1,200,000	600,000	2,000,000	1,000,000	2023	2039	
	15162280283	370 Garner Road Pumping Station (AEGD)	-	-	3,500,000	-	-	-	-	-	-	-	-	-	3,500,000	-	2022	2022	
	15162380380	Millen Road Sanitary Sewer QEW crossing	-	-	-	-	1,125,000	-	-	-	-	-	-	-	1,125,000	-	2023	2023	
	15162696475	Flooding & Drainage Master Plan Capital Forecast	-	-	-	-	-	-	-	-	-	-	22,500,000	22,500,000	22,500,000	22,500,000	2027	2029	
Expansion / Extension Total			3,500,000	-	8,000,000	-	6,025,000	200,000	5,700,000	-	6,100,000	200,000	312,974,000	23,100,000	342,299,000	23,500,000			
Feasibility Plans / EA's/ Studies	15161555264	City-Wide Wastewater Master Plan	950,000	680,000	280,000	-	-	-	-	-	-	-	550,000	-	1,780,000	680,000	2015	2028	
	15161695747	Battlefield Trunk Sewer Twinning (WW-33) (CASH FLOWED)	20,000,000	(2,650,000)	-	-	-	-	18,000,000	-	-	-	-	-	38,000,000	(2,650,000)	2016	2024	
	15161855777	Wastewater infrastructure Analysis - Growth and Economic Opportunities	920,000	920,000	550,000	550,000	-	-	-	-	-	-	-	-	1,470,000	1,470,000	2018	2022	
	15162055800	Sewer Outfall Monitoring Study	-	-	500,000	500,000	-	-	1,000,000	1,000,000	-	-	-	-	1,500,000	1,500,000	2020	2024	

**CITY OF HAMILTON
 WASTEWATER SYSTEM
 2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5162095800	Flooding & Drainage Master Plan Capital Improvements	380,000	380,000	450,000	450,000	550,000	550,000	440,000	440,000	170,000	170,000	-	-	1,990,000	1,990,000	2020	2025
	5162149555	QA-QC Service Contract Program	-	-	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,500,000	1,500,000	2021	2046
	5162155010	Wastewater Systems Planning Program	-	-	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	3,600,000	6,000,000	6,000,000	2022	2046
	5162155022	Engineering Consultant Sewermain Projects	300,000	300,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,300,000	5,300,000	2021	2046
	5162155556	Mapping Update Program	96,000	96,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	496,000	496,000	2021	2046
	5162155878	Forcemain Condition Assessment Program	270,000	270,000	626,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	1,620,000	1,620,000	3,326,000	2,970,000	2021	2046
	5162155880	Inflow & Infiltration Studies and Flow Monitoring Program	450,000	450,000	-	-	820,000	410,000	820,000	410,000	280,000	140,000	1,680,000	840,000	4,050,000	2,250,000	2021	2046
	5162157545	Wastewater Computer Model Update & Maintenance	150,000	150,000	220,000	220,000	440,000	440,000	440,000	440,000	280,000	280,000	1,020,000	1,020,000	2,550,000	2,550,000	2021	2046
	5162167752	Wastewater Outstation Inspections - Asset Management Program	200,000	200,000	1,020,000	1,020,000	920,000	920,000	920,000	920,000	920,000	920,000	5,520,000	5,520,000	9,500,000	9,500,000	2021	2046
	5162168777	Chedoke Creek Water Quality Improvements (CASH FLOWED)	800,000	800,000	9,050,000	-	1,250,000	-	1,100,000	-	-	-	-	-	12,200,000	800,000	2021	2024
	5162255242	Combined Sewer Outfall Monitoring Study	-	-	600,000	600,000	200,000	71,470	-	-	-	-	-	-	800,000	671,470	2022	2023
	5162255800	Inflow & Infiltration Study for New Subdivisions	-	-	550,000	550,000	-	-	-	-	-	-	-	-	550,000	550,000	2022	2022
	5162257800	Wastewater Facility Asset Management Implementation Plan	-	-	100,000	100,000	280,000	280,000	110,000	110,000	-	-	-	-	490,000	490,000	2022	2024
	5162262305	Iona Avenue Sewer Improvements	-	-	330,000	330,000	-	-	-	-	-	-	-	-	330,000	330,000	2022	2022
	5162562543	CSO Characterization Program	-	-	170,000	170,000	170,000	170,000	170,000	170,000	600,000	600,000	1,020,000	1,020,000	2,130,000	2,130,000	2022	2031
	5163066151	2030 SCADA Master Plan	-	-	-	-	-	-	-	-	-	-	5,125,000	5,125,000	5,125,000	5,125,000	2029	2034
Feasibility Plans / EA's/ Studies Total			24,516,000	1,596,000	15,736,000	6,050,000	6,190,000	4,401,470	24,560,000	5,050,000	3,810,000	3,670,000	24,275,000	22,885,000	99,087,000	43,652,470		
Licenses	5162162073	Field Data Systems Program	170,000	170,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,270,000	1,270,000	2021	2046
Licenses Total			170,000	170,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,270,000	1,270,000		
New	5161667421	New Haulage Receiving Station	190,000	190,000	-	-	170,000	170,000	5,150,000	5,150,000	5,150,000	5,150,000	-	-	10,660,000	10,660,000	2016	2025
	5161696452	Airport Lands Dickenson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	46,000,000	(5,500,000)	20,300,000	-	11,300,000	-	-	-	-	-	-	-	77,600,000	(5,500,000)	2016	2023
	5162280285	Drop Structure Installation - Upper Centennial Trunk Sewer Manhole #10	-	-	500,000	500,000	-	-	-	-	-	-	-	-	500,000	500,000	2022	2022
New Total			46,190,000	(5,310,000)	20,800,000	500,000	11,470,000	170,000	5,150,000	5,150,000	5,150,000	5,150,000	-	-	88,760,000	5,660,000		
Rehabilitation / Renovation	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	386,737,000	374,971,000	37,895,253	32,828,253	-	-	-	-	-	-	-	-	424,632,253	407,799,253	2008	2022
	5160966910	Woodward WWTP - Biosolids Management Facility	37,680,000	16,441,000	2,770,000	2,246,470	2,770,000	2,770,000	2,770,000	2,246,470	2,770,000	2,246,470	16,620,000	13,478,820	65,380,000	36,659,230	2009	2046
	5161266213	Dundas WWTP Improvements (CASH FLOWED)	2,770,000	2,770,000	-	-	1,650,000	1,650,000	-	-	9,150,000	9,150,000	14,700,000	14,700,000	28,270,000	28,270,000	2011	2027
	5161467756	Greenhill & Cochrane HCS01 Combined Sewer Overflow Tank Cleaning & Upgrades (CASH FLOWED)	2,470,000	2,470,000	-	-	2,150,000	2,150,000	-	-	-	-	-	-	4,620,000	4,620,000	2014	2023
	5161767420	Parkdale Avenue HC001 Wastewater Pumping Station Upgrades	560,000	560,000	-	-	2,860,000	2,860,000	-	-	-	-	-	-	3,420,000	3,420,000	2016	2023
	5161966511	Woodward WWTP - Digester 3 & 5 (CASH FLOWED)	8,650,000	8,650,000	4,710,000	4,710,000	-	-	-	-	-	-	-	-	13,360,000	13,360,000	2019	2022
	5162067425	Hillside SPS (DC006) Upgrades	1,130,000	1,130,000	280,000	280,000	550,000	550,000	-	-	-	-	-	-	1,960,000	1,960,000	2020	2023
	5162111101	Road Cut Restoration Program	1,800,000	1,800,000	2,315,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	10,800,000	10,800,000	20,315,000	19,800,000	2021	2046
	5162160302	Emergency Repairs - Cross Connections Program	500,000	500,000	1,470,000	300,000	400,000	400,000	400,000	400,000	400,000	400,000	350,000	350,000	3,520,000	2,350,000	2021	2026
	5162160390	Wastewater System Lining Program	4,050,000	4,050,000	4,050,000	3,650,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	24,300,000	24,300,000	44,550,000	44,150,000	2021	2046
	5162160522	Sewer Lateral Management Program (WWC)	4,250,000	4,250,000	4,000,000	4,000,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	21,000,000	21,000,000	39,750,000	39,750,000	2021	2046
	5162160533	Trenchless Manhole Rehabilitation	70,000	70,000	250,000	180,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,570,000	2,500,000	2021	2046
	5162160574	Capital Programming Sewer Inspection & Assessment	500,000	500,000	1,150,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	4,200,000	4,200,000	7,950,000	7,500,000	2021	2046
	5162160575	Mainline Sewer Condition Assessment Program	1,140,000	1,140,000	2,030,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	6,840,000	6,840,000	13,430,000	12,540,000	2021	2046
	5162160576	Sewer Lateral Condition Assessment Program	540,000	540,000	790,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,370,000	2,370,000	4,450,000	3,910,000	2021	2046
	5162161444	Sewer Lateral Replace/Rehab Program	3,600,000	3,600,000	3,620,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	20,100,000	20,100,000	36,620,000	36,100,000	2021	2046
	5162166713	Wastewater Maintenance Capital Program	1,500,000	1,500,000	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	19,500,000	19,500,000	2021	2046
	5162166810	Woodward WWTP - Maintenance Building (CASH FLOWED)	500,000	500,000	500,000	500,000	-	-	-	-	-	-	-	-	1,000,000	1,000,000	2018	2022
	5162167420	DC007 McMaster Sewage Pumping Station Upgrades	620,000	620,000	330,000	330,000	2,090,000	2,090,000	-	-	-	-	-	-	3,040,000	3,040,000	2021	2023
	5162167501	Odour Control Program & Media Replacement	150,000	150,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	1,150,000	1,150,000	2021	2022
	5162169075	City Environmental Lab Improvements Program	410,000	410,000	340,000	340,000	190,000	190,000	90,000	90,000	50,000	50,000	300,000	300,000	1,380,000	1,380,000	2021	2046
	5162261741	Resetting or Adjusting of Wastewater Utility Structures	-	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,500,000	2,500,000	2022	2046
	5162262250	Eastern Sewer Interceptor (ESI) - South Service - Fruitland to Green	-	-	8,000,000	4,932,415	-	-	-	-	-	-	-	-	8,000,000	4,932,415	2022	2022
	5162266011	Woodward WWTP - Secondary Digester	-	-	-	-	500,000	500,000	6,000,000	6,000,000	-	-	-	-	6,500,000	6,500,000	2022	2025
	5162266712	Wastewater Maintenance - Rebuild, Replacement and New Capital	1,500,000	1,500,000	600,000	600,000	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	1,800,000	4,800,000	4,800,000	2021	2046
	5162266911	Woodward WWTP - North Digester Complex Rehabilitation (CASH FLOW)	-	-	3,450,000	3,450,000	-	-	5,900,000	5,900,000	5,900,000	5,900,000	-	-	15,250,000	15,250,000	2022	2025
	5162267375	Beach Boulevard (HC051) Wastewater Pump Station Upgrades	-	-	440,000	440,000	1,150,000	1,150,000	-	-	-	-	-	-	1,590,000	1,590,000	2022	2023
	5162267376	Rockcliffe (DC015) Wastewater Pumping Station Upgrades	-	-	990,000	990,000	3,350,000	3,350,000	-	-	-	-	-	-	4,340,000	4,340,000	2022	2023
	5162267585	Diesel Fuel Storage Compliance Upgrades	-	-	1,100,000	1,100,000	1,400,000	1,400,000	-	-	-	-	-	-	2,500,000	2,500,000	2022	2023

**CITY OF HAMILTON
 WASTEWATER SYSTEM
 2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5162360372	Large Sewer Lining - Blanshard St: Locke St to Poulette St	-	-	-	-	2,300,000	2,300,000	-	-	-	-	-	-	2,300,000	2,300,000	2023	2023
	5162366420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	-	-	1,100,000	1,100,000	930,000	930,000	12,955,000	12,955,000	12,955,000	12,955,000	-	-	27,940,000	27,940,000	2022	2026
	5162441226	Centralized Water and Wastewater Operations Centre (CASH FLOWED)	-	-	-	-	2,625,000	-	5,125,000	5,125,000	-	-	-	-	7,750,000	5,125,000	2023	2024
	5162461420	West 31st 400mm Forcemain Replacement & Rehabilitation	-	-	-	-	-	-	1,600,000	1,600,000	-	-	-	-	1,600,000	1,600,000	2024	2024
	5162466301	Woodward WWTP North Plant Rehabilitation (CASH FLOWED)	-	-	-	-	2,200,000	2,200,000	2,200,000	2,200,000	1,200,000	1,200,000	70,600,000	70,600,000	76,200,000	76,200,000	2023	2028
	5162560572	Large Sewer Lining: Upper James - Inverness to James St S	-	-	-	-	-	-	-	-	3,000,000	3,000,000	-	-	3,000,000	3,000,000	2025	2025
	5162560592	Strathearne - Barton to Brampton	-	-	-	-	-	-	-	-	7,280,000	7,280,000	-	-	7,280,000	7,280,000	2024	2025
	5162567751	Wastewater Outstation Upgrades - Asset Management Program	-	-	-	-	-	-	-	-	4,500,000	4,500,000	27,000,000	27,000,000	31,500,000	31,500,000	2024	2046
	5165522888	Mill St Bridge - Sanitary Sewer Erosion Protection	-	-	350,000	350,000	-	-	-	-	-	-	-	-	350,000	350,000	2022	2022
Rehabilitation / Renovation Total			461,127,000	428,122,000	83,780,253	70,567,138	46,955,000	41,560,000	54,380,000	53,856,470	64,545,000	64,021,470	235,980,000	232,838,820	946,767,253	890,965,898		
Relocation	5162255900	EA - McMaster Innovation Park (MIP) Storm Sewer Relocation	-	-	5,650,000	5,650,000	-	-	-	-	-	-	-	-	5,650,000	5,650,000	2022	2022
Relocation Total			-	-	5,650,000	5,650,000	-	-	-	-	-	-	-	-	5,650,000	5,650,000		
Replacement	5161966151	SCADA Maintenance Program	1,650,000	1,650,000	150,000	150,000	275,000	275,000	275,000	275,000	900,000	900,000	2,275,000	2,275,000	5,525,000	5,525,000	2019	2046
	5161968920	Fennell/Greenhill Drop Shaft	-	-	-	-	-	-	-	-	-	-	14,850,000	14,850,000	14,850,000	14,850,000	2019	2030
	5162160577	Mainline Sewer Condition Assessment for Compliance & Regulations	100,000	100,000	219,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	600,000	600,000	1,219,000	1,100,000	2021	2046
	5162160711	PW Capital Water Consumption Program	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,750,000	2,750,000	2021	2046
	5162160820	Open Cut Repairs for CIPP Program	560,000	500,000	620,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,680,000	5,500,000	2021	2046
	5162161740	Unscheduled Manhole and Sewermain Replacement Program	610,000	610,000	750,000	750,000	650,000	650,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	6,010,000	6,010,000	2021	2046
	5162171074	Contingency for Unscheduled Works Program	-	-	180,000	180,000	-	-	180,000	180,000	-	-	540,000	540,000	900,000	900,000	2022	2046
	5162367065	Replacement of the Eastport Sanitary Pumping Station	-	-	-	-	1,100,000	1,100,000	280,000	280,000	550,000	550,000	550,000	550,000	2,480,000	2,480,000	2023	2026
	5162418420	Grindstone Creek Utility Bridge	-	-	-	-	-	-	3,500,000	3,500,000	-	-	-	-	3,500,000	3,500,000	2024	2028
Replacement Total			3,170,000	3,110,000	2,169,000	1,930,000	2,875,000	2,875,000	5,585,000	5,585,000	2,800,000	2,800,000	26,315,000	26,315,000	42,914,000	42,615,000		
Safety/ Security	5162266351	Woodward SCADA OT (Operating Technology) Security Program	-	-	125,000	125,000	-	-	-	-	-	-	-	-	125,000	125,000	2022	2022
Safety/ Security Total			-	-	125,000	125,000	-	-	-	-	-	-	-	-	125,000	125,000		
Staffing Costs	5162101099	Engineering Services Staffing Costs - Wastewater	4,700,000	4,700,000	4,500,000	3,922,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	49,700,000	49,122,000	2021	2046
Staffing Costs Total			4,700,000	4,700,000	4,500,000	3,922,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	49,700,000	49,122,000		
Grand Total			548,387,000	437,402,000	169,020,253	105,784,138	82,005,000	54,946,470	106,565,000	76,931,470	93,275,000	86,711,470	643,149,000	348,743,820	1,642,401,253	1,110,519,368		

Appendix "P" to Report FCS21088 Page 1 of 1

SOURCE OF CAPITAL FINANCING
2022 to 2031 RATE PROGRAM CAPITAL BUDGET
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	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2022 to 2031
STORM SEWERS											
Capital Program	36,145	29,890	36,475	23,530	20,280	44,680	45,190	44,310	36,290	38,090	354,880
<u>Source of Funding</u>											
Subsidy/Other Revenue	75	75	2,075	5,275	6,015	75	75	75	75	75	13,890
Development Charges	19,160	10,175	10,055	4,000	4,000	4,000	4,000	4,880	4,000	4,660	68,930
Reserves & Other Internal Sources	5,145	-	-	-	-	-	-	-	-	-	5,145
Contribution from Operating	11,765	19,640	24,345	14,255	10,265	32,055	34,265	33,855	32,215	33,355	246,015
External Debt	-	-	-	-	-	8,550	6,850	5,500	-	-	20,900
Total	36,145	29,890	36,475	23,530	20,280	44,680	45,190	44,310	36,290	38,090	354,880

**City of Hamilton
Storm Water Management
2022 Capital Budget Project List
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Project Type	Project ID	Project Title	Gross Costs	Grants and Subsidies	Other External Revenue	Development Charge	Reserves	WIP	Net Cost	Financing Sources	
										From Operating	External Debt
Coordinated - Network Extension	5182271328	Southcote - Garner to Highway 403 Bridge	1,500,000						-	1,500,000	
Coordinated - Network Extension Total			1,500,000						-	1,500,000	
Coordinated - Replacement	5182172205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	1,880,000				1,880,000		-	-	
	5182271226	Mud St (Phase 02) - Isaac Brock Dr to Upper Centennial Pkwy	180,000						-	180,000	
	5182271312	Streathearne - Main to Britannia	1,000,000						-	1,000,000	
Coordinated - Replacement Total			3,060,000				1,880,000		-	1,180,000	
Enhancement	5181823155	South St E and East St S in Dundas Drainage Improvement - SERG	110,000						-	110,000	
	5181872295	SERG - Winona Area Drainage Improvements	440,000						-	440,000	
	5181967500	DMAF- CSO Backflow Preventors	390,000						-	390,000	
	5182255688	EA for Rosedale Stormwater Management Facility - Outlet to Red Hill Creek	450,000						-	450,000	
Enhancement Total			1,390,000						-	1,390,000	
Expansion / Extension	5182280290	SWMP SL12 Block 3 (1090 Barton Street)	10,330,000			10,330,000			-		
	5182280291	SWMP SM21 Nash 2/3 Development	4,745,000			4,745,000			-		
	5182280292	SWMP SM17 198 Highland Road West	4,085,000			4,085,000			-		
Expansion / Extension Total			19,160,000			19,160,000			-		
Feasibility Plans / EA's/ Studies	5182095800	Flooding & Drainage Master Plan Capital Improvements	450,000						-	450,000	
	5182117550	Concrete Box Culvert Rehab/Repair - Engineering Services	250,000						-	250,000	
	5182149555	QA-QC Service Contract Program	150,000						-	150,000	
	5182155421	Stormwater System Planning Program	380,000						-	380,000	
	5182155556	Mapping Update Program	40,000						-	40,000	
	5182174951	Shoreline Protection Program	150,000						-	150,000	
	5182174680	Storm Sewer Network Planning - Transportation Program	260,000						-	260,000	
	5182255210	Storm Water Outfall Investigations	300,000						-	300,000	
Feasibility Plans / EA's/ Studies Total			1,980,000						-	1,980,000	
Licenses	5182162073	Field Data Systems Program	110,000						-	110,000	
Licenses Total			110,000						-	110,000	
Rehabilitation / Renovation	5181767723	Grafton and Centennial Stormwater Pumping Stations - Standby Power	450,000						-	450,000	
	5182117152	Right of Way Drainage Program	1,500,000				1,500,000		-	-	
	5182117549	Concrete Box Culvert Rehab/Repair - T.O.M.	500,000					500,000	-	-	
	5182160533	Trenchless Manhole Rehabilitation	70,000						-	70,000	
	5182160622	SWM Facility Maintenance Program	1,500,000					220,000	-	1,280,000	
	5182160722	Municipal Drain Program	100,000		75,000				-	25,000	
5182274950	Watercourse and Drainage Channel Maintenance	1,445,000					545,000	-	900,000		
Rehabilitation / Renovation Total			5,565,000		75,000		1,720,000	1,045,000	-	2,725,000	
Replacement	5182017040	Highway 97 - Culvert Improvement Project	300,000						-	300,000	
	5182117458	Catch Basin Replacement/Rehabilitation Program	1,000,000					500,000	-	500,000	
	5182161740	Unscheduled Manhole and Sewermain Replacement Program	50,000						-	50,000	
	5182172074	Contingency for Unscheduled Works Program	180,000						-	180,000	
	5182260220	Culvert FLA-3008 - Old Brock Rd 100m w/o Brock	150,000						-	150,000	
Replacement Total			1,680,000					500,000	-	1,180,000	
Staffing Costs	5182101099	Engineering Services Staffing Costs - Storm	1,700,000						-	1,700,000	
Staffing Costs Total			1,700,000						-	1,700,000	
Grand Total			36,145,000		75,000	19,160,000	3,600,000	1,545,000	-	11,765,000	

CITY OF HAMILTON
STORM WATER MANAGEMENT
2022 - 2031 CAPITAL BUDGET LIST (\$)

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start	End
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Year	Year
Coordinated - Network Extension	5182271328	Southcote - Garner to Highway 403 Bridge	-	-	1,500,000	1,500,000	-	-	-	-	-	-	-	-	1,500,000	1,500,000	2022	2022
	5182372021	Highland Rd W - First Rd W to Upper Centennial	-	-	-	-	1,600,000	1,600,000	-	-	-	-	-	-	1,600,000	1,600,000	2023	2023
	5182871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	2,500,000	2,500,000	2,500,000	2,500,000	2028	2028
	5182971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	1,250,000	1,250,000	1,250,000	1,250,000	2029	2029
	5182971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	650,000	650,000	650,000	650,000	2029	2029
	5183180086	Parkside Dr Urbanization - Phase 2 - Storm Sewer	-	-	-	-	-	-	-	-	-	-	1,100,000	440,000	1,100,000	440,000	2022	2031
Coordinated - Network Extension Total			-	-	1,500,000	1,500,000	1,600,000	1,600,000	-	-	-	-	5,500,000	4,840,000	8,600,000	7,940,000		
Coordinated - Replacement	5182172205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	-	-	1,880,000	-	-	-	-	-	-	-	-	-	1,880,000	-	2021	2022
	5182271226	Mud St (Phase 02) - Isaac Brock Dr to Upper Centennial Pkwy	-	-	180,000	180,000	-	-	-	-	-	-	-	-	180,000	180,000	2022	2022
	5182271312	Streathearne - Main to Britannia	-	-	1,000,000	1,000,000	-	-	-	-	-	-	-	-	1,000,000	1,000,000	2022	2022
	5182372304	Hatt & Bond - King to Market	-	-	-	-	2,100,000	2,100,000	-	-	-	-	-	-	2,100,000	2,100,000	2023	2023
	5182772021	Industrial - Ottawa to Gage / Gage / Depew	-	-	-	-	-	-	-	-	-	-	400,000	400,000	400,000	400,000	2027	2027
	5182772214	Westdale North Neighbourhood Phase 1	-	-	-	-	-	-	-	-	-	-	3,190,000	3,190,000	3,190,000	3,190,000	2027	2027
	5182872208	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	700,000	700,000	700,000	700,000	2028	2028
	5182971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	1,200,000	1,200,000	1,200,000	1,200,000	2029	2029
	5182972311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	130,000	130,000	130,000	130,000	2029	2029
	5183072298	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	-	-	-	-	-	-	-	-	-	-	850,000	850,000	850,000	850,000	2030	2030
Coordinated - Replacement Total			-	-	3,060,000	1,180,000	2,100,000	2,100,000	-	-	-	-	6,470,000	6,470,000	11,630,000	9,750,000		
Coordinated - Upgrade	5183072293	Hughson - Wilson to Barton	-	-	-	-	-	-	-	-	-	-	280,000	280,000	280,000	280,000	2030	2030
Coordinated - Upgrade Total			-	-	-	-	-	-	-	-	-	-	280,000	280,000	280,000	280,000		
Enhancement	5181562590	SWMP Retrofits	460,000	460,000	-	-	660,000	660,000	-	-	-	-	-	-	1,120,000	1,120,000	2015	2023
	5181823155	South St E and East St S in Dundas Drainage Improvement - SERG	30,000	30,000	110,000	110,000	-	-	1,100,000	1,100,000	-	-	-	-	1,240,000	1,240,000	2018	2024
	5181872295	SERG - Winona Area Drainage Improvements	470,000	470,000	440,000	440,000	-	-	-	-	-	-	1,270,000	1,270,000	2,180,000	2,180,000	2018	2028
	5181967500	DMAF- CSO Backflow Preventors	1,050,000	1,050,000	390,000	390,000	2,250,000	2,250,000	-	-	-	-	-	-	3,690,000	3,690,000	2019	2023
	5182255688	EA for Rosedale Stormwater Management Facility - Outlet to Red Hill Creek	-	-	450,000	450,000	-	-	-	-	-	-	-	-	450,000	450,000	2022	2022
	5182696475	Flooding & Drainage Master Plan Capital Forecast	-	-	-	-	-	-	-	-	-	-	-	-	67,500,000	67,500,000	2021	2029
Enhancement Total			2,010,000	2,010,000	1,390,000	1,390,000	2,910,000	2,910,000	1,100,000	1,100,000	-	-	68,770,000	68,770,000	76,180,000	76,180,000		
Expansion / Extension	5182280290	SWMP SL12 Block 3 (1090 Barton Street)	-	-	10,330,000	-	-	-	-	-	-	-	-	-	10,330,000	-	2022	2022
	5182280291	SWMP SM21 Nash 2/3 Development	-	-	-	-	-	-	-	-	-	-	-	-	4,745,000	-	2022	2022
	5182280292	SWMP SM17 198 Highland Road West	-	-	4,085,000	-	-	-	-	-	-	-	-	-	4,085,000	-	2022	2022
Expansion / Extension Total			-	-	19,160,000	-	-	-	-	-	-	-	-	-	19,160,000	-		
Feasibility Plans / EA's / Studies	5182095800	Flooding & Drainage Master Plan Capital Improvements	380,000	380,000	450,000	450,000	550,000	550,000	440,000	440,000	170,000	170,000	-	-	1,990,000	1,990,000	2020	2025
	5182117550	Concrete Box Culvert Rehab/Repair - Engineering Services	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,750,000	2,750,000	2021	2046
	5182149555	QA-QC Service Contract Program	-	-	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,500,000	1,500,000	2021	2046
	5182155347	Watercourse Erosion Sites Rehabilitation and Mitigation	280,000	280,000	-	-	280,000	280,000	280,000	280,000	3,000,000	3,000,000	6,720,000	6,720,000	10,560,000	10,560,000	2021	2035
	5182155421	Stormwater System Planning Program	-	-	380,000	380,000	380,000	380,000	380,000	380,000	380,000	380,000	2,280,000	2,280,000	3,800,000	3,800,000	2022	2046
	5182155556	Mapping Update Program	97,000	97,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	497,000	497,000	2021	2046
	5182157545	Stormwater Computer Model	-	-	-	-	1,080,000	1,080,000	1,080,000	1,080,000	60,000	60,000	1,680,000	1,680,000	3,900,000	3,900,000	2023	2046
	5182167751	Stormwater Infrastructure Criticality Assessment	280,000	280,000	-	-	280,000	280,000	280,000	280,000	280,000	280,000	1,680,000	1,680,000	2,800,000	2,800,000	2021	2046
	5182174680	Storm Sewer Network Planning - Transportation Program	660,000	660,000	260,000	260,000	660,000	660,000	660,000	660,000	660,000	660,000	3,960,000	3,960,000	6,860,000	6,860,000	2021	2046
	5182174840	Stormwater Analysis for Bridge, Culvert and Ditch Replacement Projects	500,000	500,000	-	-	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,000,000	5,000,000	2021	2046
	5182174951	Shoreline Protection Program	1,320,000	1,320,000	150,000	150,000	400,000	400,000	750,000	750,000	150,000	150,000	2,600,000	2,600,000	5,370,000	5,370,000	2021	2046
	5182255210	Storm Water Outfall Investigations	-	-	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	1,800,000	3,000,000	3,000,000	2022	2046
	5182355075	Watershed Project Coordination and Stewardship Action Plans	-	-	-	-	-	-	170,000	170,000	170,000	170,000	1,020,000	1,020,000	1,360,000	1,360,000	2024	2046
	5182455422	Stormwater Master Plan	-	-	-	-	-	-	1,100,000	220,000	-	-	1,100,000	220,000	2,200,000	440,000	2024	2029
Feasibility Plans / EA's / Studies Total			3,767,000	3,767,000	1,980,000	1,980,000	4,870,000	4,870,000	6,380,000	5,500,000	6,110,000	6,110,000	28,480,000	27,600,000	51,587,000	49,827,000		
Licenses	5182162073	Field Data Systems Program	164,000	164,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,264,000	1,264,000	2021	2046
Licenses Total			164,000	164,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,264,000	1,264,000		
New	5182067875	Beach Strip Stormwater Pumping Stations (CASH FLOWED)	30,000	30,000	-	-	1,795,000	1,795,000	7,100,000	7,100,000	7,080,000	7,080,000	-	-	16,005,000	16,005,000	2020	2025
	5182180090	Storm Water Management Program	4,000,000	-	-	-	4,000,000	-	4,000,000	-	4,000,000	-	24,000,000	-	40,000,000	-	2021	2046

CITY OF HAMILTON
STORM WATER MANAGEMENT
2022 - 2031 CAPITAL BUDGET LIST (\$)

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5182323875	Beach Strip Stormwater Collection System Improvements	-	-	-	-	150,000	150,000	500,000	500,000	-	-	2,350,000	2,350,000	3,000,000	3,000,000	2022	2032
	5182380390	SWMP A14 Springbrook Corners	-	-	-	-	1,290,000	-	-	-	-	-	-	-	1,290,000	-	2023	2023
	5182380391	SWMP SL3 Block 2 (844 Barton Street)	-	-	-	-	3,320,000	-	-	-	-	-	-	-	3,320,000	-	2023	2023
	5182380864	SWMP W6 Waterdown Bay (Saleem Property)	-	-	-	-	1,565,000	-	-	-	-	-	-	-	1,565,000	-	2023	2023
	5182460214	SERG - Parkside & Kipling Stormwater Facility - CASH FLOW	-	-	-	-	-	-	6,100,000	6,100,000	-	-	6,510,000	6,510,000	12,610,000	12,610,000	2023	2038
	5182480490	SWMP H28 305 Stone Church Road West	-	-	-	-	-	-	5,175,000	-	-	-	-	-	5,175,000	-	2024	2024
New Total			4,030,000	30,000	-	-	12,120,000	1,945,000	22,875,000	13,700,000	11,080,000	7,080,000	32,860,000	8,860,000	82,965,000	31,615,000		
Rehabilitation / Renovation	5181767723	Grafton and Centennial Stormwater Pumping Stations - Standby Power	1,700,000	1,700,000	450,000	450,000	-	-	-	-	-	-	50,000	50,000	2,200,000	2,200,000	2017	2026
	5182117152	Right of Way Drainage Program	1,500,000	1,500,000	1,500,000	-	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	9,000,000	9,000,000	16,500,000	15,000,000	2021	2046
	5182117549	Concrete Box Culvert Rehab/Repair - T.O.M.	250,000	250,000	500,000	-	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	3,000,000	2,500,000	2021	2046
	5182160533	Trenchless Manhole Rehabilitation	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	420,000	420,000	770,000	770,000	2021	2046
	5182160622	SWM Facility Maintenance Program	2,000,000	345,680	1,500,000	1,280,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	7,200,000	7,200,000	14,300,000	12,425,680	2021	2046
	5182160722	Municipal Drain Program	700,000	227,000	100,000	25,000	100,000	25,000	100,000	25,000	100,000	25,000	600,000	150,000	1,700,000	477,000	2021	2046
	5182274950	Watercourse and Drainage Channel Maintenance	-	-	1,445,000	900,000	460,000	460,000	460,000	860,000	860,000	860,000	3,300,000	3,300,000	6,525,000	5,980,000	2022	2046
	5182761073	Large Sewermain Lining - Stanley Ave	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2027	2027
Rehabilitation / Renovation Total			6,220,000	4,092,680	5,565,000	2,725,000	3,580,000	3,505,000	3,580,000	3,505,000	3,980,000	3,905,000	24,070,000	23,620,000	46,995,000	41,352,680		
Replacement	5182017040	Highway 97 - Culvert Improvement Project	500,000	500,000	300,000	300,000	-	-	-	-	-	-	-	-	800,000	800,000	2020	2022
	5182117458	Catch Basin Replacement/Rehabilitation Program	500,000	500,000	1,000,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	6,000,000	5,500,000	2021	2046
	5182161740	Unscheduled Manhole and Sewermain Replacement Program	118,373	118,373	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	300,000	300,000	618,373	618,373	2021	2046
	5182172074	Contingency for Unscheduled Works Program	-	-	180,000	180,000	-	-	180,000	180,000	-	-	540,000	540,000	900,000	900,000	2022	2046
	5182260220	Culvert FLA-3008 - Old Brock Rd 100m w/o Brock	-	-	150,000	150,000	350,000	350,000	-	-	-	-	-	-	500,000	500,000	2022	2023
	5182872295	Main - Prospect to Gage - SERG B-3	-	-	-	-	-	-	-	-	-	-	1,710,000	1,710,000	1,710,000	1,710,000	2028	2028
Replacement Total			1,118,373	1,118,373	1,680,000	1,180,000	900,000	900,000	730,000	730,000	550,000	550,000	5,550,000	5,550,000	10,528,373	10,028,373		
Staffing Costs	5182101099	Engineering Services Staffing Costs - Storm	1,100,000	1,100,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	10,200,000	10,200,000	18,100,000	18,100,000	2021	2046
Staffing Costs Total			1,100,000	1,100,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	1,700,000	10,200,000	10,200,000	18,100,000	18,100,000		
Grand Total			18,409,373	12,282,053	36,145,000	11,765,000	29,890,000	19,640,000	36,475,000	26,345,000	23,530,000	19,455,000	182,840,000	156,850,000	327,289,373	246,337,053		

Appendix "S" to Report FCS21088 Page 1 of 1

CITY OF HAMILTON
2022 Rate Program Capital Budget Summary
(\$000'S)

							Financing Source	
Gross Costs	Subsidy/ Other Revenues	Development Charges	WIP / Other Internal Sources	Reserves	Net Cost	Contribution From Operating	External Borrowings (Debentures)	
2022 Coordinated - Network Extension	15,450	998	10,932	-	-	3,520	2,000	1,520
Coordinated - Other	3,320	-	-	-	-	3,320	3,320	-
Coordinated - Replacement	14,820	-	-	1,990	1,880	10,950	5,150	5,800
Coordinated Replacement (50/50)	4,130	-	-	-	-	4,130	4,130	-
Demolition / Disposal	13,690	-	-	-	-	13,690	13,690	-
Enhancement	2,210	-	-	-	560	1,650	1,650	-
Expansion / Extension	30,190	3,500	26,190	-	-	500	-	500
Feasibility Plans / EA's/ Studies	35,711	-	14,810	356	9,050	11,495	11,495	-
Licenses	430	-	-	100	-	330	330	-
New	35,982	-	25,800	1,162	640	8,380	4,130	4,250
Rehabilitation / Renovation	118,419	75	6,630	8,296	15,488	87,931	56,551	31,380
Relocation	5,650	-	-	-	-	5,650	-	5,650
Replacement	18,454	-	165	2,284	1,300	14,705	14,705	-
Safety/ Security	1,280	-	-	-	-	1,280	1,280	-
Staffing Costs	10,700	-	-	1,042	-	9,658	9,658	-
Total	310,436	4,573	84,527	15,230	28,918	177,189	128,089	49,100

City of Hamilton Treasurer's Updated 2021 Annual Repayment Limit

Annual Repayment Limit - <i>effective January 1, 2021, as prepared by the Ministry of Municipal Affairs and Housing on January 29, 2021, based on 2019 Financial Information Return</i>	\$291,914,218
Annual debt service charges on City Municipal debt approved to-date 2021 and prior years but not yet issued (\$584.2 M @ 3% for 15-year term)	-\$48,933,337
Annual debt service charges on City Municipal debt in respect of ICIP Transit debt approved but not yet issued (\$172.8 M @ 3% for 15-year term)	-\$14,478,635
Annual debt service charges on City Municipal debt in respect of West Harbour debt approved but not yet issued (\$2.9 M @ 3% for 15-year term)	-\$245,436
Annual debt service charges on City Housing Hamilton debt approved but not yet issued and guaranteed by City of Hamilton (\$135.9 M @ 5% for 30-year term)	-\$8,840,490
Annual debt service charges on Municipal and Tax Supported Development Charges debt approved but not yet issued - Police Station 40 (\$8 M @ 3% for 15-year term)	-\$670,133
Annual debt service charges in 2021 for debenture issue of \$51.705 M;	-\$4,110,548
Annual debt service charges on debentures discharged in 2019 and 2020	\$4,973,669
Adjustment for annual debt service charges on outstanding City Housing Hamilton mortgages and City of Hamilton Tangible Capital Leases	<u>\$357,797</u>
Updated 2021 Annual Repayment Limit - <i>a calculation by the Treasurer representing an estimate of the maximum amount available to commit to annual debt service charges</i>	\$219,967,107
Debenture amount at 3% interest rate for 15-year term (amortizer) corresponding to the annual debt service charges of \$219,967,107	\$2,625,953,039

Authority: Item ,
Report (XXX)
CM:
Ward: City Wide

Bill No.

**CITY OF HAMILTON
BY-LAW NO. 21-**

**To Amend City of Hamilton By-law No. 03-272,
being a By-law to Impose Fees and Charges Respecting the Use of the City of
Hamilton Sanitary Sewage System and to Implement a Wastewater Abatement
Program**

WHEREAS Council enacted a by-law to impose fees and charges respecting the use of the City of Hamilton Sanitary Sewage system and to implement a wastewater abatement program for the City of Hamilton, being City of Hamilton By-law No.03-272;

AND WHEREAS Council wishes to amend By-law No. 03-272;

NOW THEREFORE the Council of the City of Hamilton hereby enacts as follows:

1. The amendments in this By-law include any necessary grammatical, numbering and lettering changes.
2. Section 1 of By-law 03-272 is amended to add "s" in the definitions as follows:

(s) "Water and Wastewater/Storm Fees and Charges By-law" means the City of Hamilton's Water and Wastewater/Storm Fees and Charges By-law as may be amended, restated or replaced from time to time;
3. Sections 3, 4 and 5 of By-law 03-272 are amended by replacing "Schedule "A" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law" in all instances where they appear.
4. Section 9 of By-law 03-272 is amended by replacing "Schedule "A" attached to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".

5. Section 10 of By-law 03-272 is amended by adding “and the Water and Wastewater/Storm Fees and Charges By-law” after “to this By-law”.
6. Schedule “A” to By-law 03-272 is deleted in its entirety.
7. Section 1 of Schedule “B” to By-law 03-272 is deleted in its entirety.
8. Section 29 of By-law 03-272 is amended by replacing “Schedules “A” and “B”” with “Schedule “A””.
9. This By-law shall come into effect on the day it is passed.
10. In all other respects, By-law 03-272 is confirmed.

PASSED this _____ day of _____ , 2021.

F. Eisenberger
Mayor

A. Holland
City Clerk

Authority: Item ,
Report (XXX)
CM:
Ward: City Wide

Bill No.

**CITY OF HAMILTON
BY-LAW NO. 21-**

**To Amend City of Hamilton By-law No. 06-026,
being a By-law to Regulate the Installation, Connection and Use of Sewers and
Drains in the City of Hamilton**

WHEREAS Council enacted a by-law to impose fees and charges respecting the use of the City of Hamilton Sanitary Sewage system and to implement a wastewater abatement program for the City of Hamilton, being City of Hamilton By-law No.06-026;

AND WHEREAS Council wishes to amend By-law No. 06-026;

NOW THEREFORE the Council of the City of Hamilton hereby enacts as follows:

1. The amendments in this By-law include any necessary grammatical, numbering and lettering changes.
2. Section 1. of By-law 06-026 is amended to add as "uu" in the definitions section, the following:

"Water and Wastewater/Storm Fees and Charges By-law" means the City of Hamilton's Water and Wastewater/Storm Fees and Charges By-law, as may be amended, restated or replaced from time to time".
3. Section 6(7)(d) of By-law 06-026 is amended by replacing "Schedule "A"" with "the Water and Wastewater/Storm Fees and Charges By-law".
4. Sections 10(3) and 10(5) of By-law 06-026 is amended by replacing "section 12 of Schedule "A" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law" in all instances.

5. References to "Schedule "B"" in By-law 06-026 shall be replaced, in all instances to "Schedule "A"".
6. Sections 10(3) and 10(5)15 of By-law 06-026 is amended by replacing "Schedules "A" and "B" form" to "Schedule "A" forms" in all instances.
7. This By-law shall come into effect on the day it is passed.
8. In all other respects, By-law 06-026 is confirmed.

PASSED this _____ day of _____, 2021.

F. Eisenberger
Mayor

A. Holland
City Clerk

Authority: Item ,
Report (XXX)
CM:
Ward: City Wide

Bill No.

**CITY OF HAMILTON
BY-LAW NO. 21-**

**To Amend City of Hamilton By-law No. R84-026,
being a By-law Respecting the Management and Maintenance of the Water Works
Systems of the Regional Municipality of Hamilton-Wentworth and the
Establishment of Water Rates and Charges**

WHEREAS Council enacted a by-law to impose fees and charges respecting the use of the City of Hamilton Sanitary Sewage system and to implement a wastewater abatement program for the City of Hamilton, being City of Hamilton By-law No. R84-026;

AND WHEREAS Council wishes to amend By-law No. R84-026;

NOW THEREFORE the Council of the City of Hamilton hereby enacts as follows:

1. The amendments in this By-law include any necessary grammatical, numbering and lettering changes.
2. Section 1 of By-law R84-026 is amended to add as "v" in the definitions the following:

"Water and Wastewater/Storm Fees and Charges By-law" means the City of Hamilton's Water and Wastewater/Storm Fees and Charges By-law" as may be amended, restated or replaced from time to time.
3. Sections 4(b), 4(16), 4(17) and 9 of By-law R84-026 is amended by replacing "Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law" in all instances.
4. Section 4(15)(a) of By-law R84-026 is amended by replacing "Section 2 of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".


5. Section 4(15)(d) of By-law R84-026 is amended by replacing "section 6 of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
6. Section 8(6) of By-law R84-026 is amended by replacing "section 1(b) of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
7. Section 12(1) of By-law R84-026 is amended by adding ", as well as the Water and Wastewater/Storm Fees and Charges By-law" after "it's Schedules".
8. Sections 12(5)(a)(ii) and 12(5)(b) of By-law R84-026 is amended by replacing "Schedule "A" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law" in all instances.
9. Sections 12(5)(a)(ii) and 12(5)(b) of By-law R84-026 is amended by replacing "Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law" in all instances.
10. Section 12(5)(c) of By-law R84-026 is amended by replacing "Section 8 of Schedule "E"" with "the Water and Wastewater/Storm Fees and Charges By-law".
11. Section 12(6) of By-law R84-026 is amended by replacing "section 1 of Schedule "C" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
12. Section 12(6) of By-law R84-026 is amended by replacing "said Schedule "C"" with "aforementioned Water and Wastewater/Storm Fees and Charges By-law,".
13. Section 12(7) of By-law R84-026 is amended by replacing "section 2 of Schedule "C" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
14. Section 12(8) of By-law R84-026 is amended by replacing "Section 3 of Schedule "C" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".

15. Section 12(9) of By-law R84-026 is amended by replacing "section 4 of Schedule "C" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
16. Section 13(6)(a) of By-law R-84-026 is amended by replacing "section 5, of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
17. Section 18(4) of By-law R84-026 is amended by replacing "section 3 of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
18. Section 18(4) of By-law R84-026 is amended by replacing "section 4 of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
19. Section 18(8) of By-law R-84-026 is amending by replacing "section 7 of Schedule "E" to this By-law" with "the Water and Wastewater/Storm Fees and Charges By-law".
20. Section 18. (11) of By-law R-84-026 is amended by replacing "Schedule "E" to this By-law for service calls not otherwise specified in Schedule "E"" with "the Water and Wastewater/Storm Fees and Charges By-law for service calls not otherwise specified in the aforementioned Water and Wastewater/Storm Fees and Charges By-Law".
21. All references to "Schedule "B"" in this By-law shall be replaced with "Schedule "A"" in all instances.
22. All references to "Schedule "D"" in this By-law shall be replaced with "Schedule "B"" in all instances.
23. All references to "Schedule "F"" in this By-law shall be replaced with "Schedule "C"" in all instances.
24. Section 19. of By-law R84-026 is amended by replacing "Schedules "A" to "F"" with "Schedules "A" to "C"".
25. This By-law shall come into effect on the day it is passed.
26. In all other respects, By-law R084-026 is confirmed.

PASSED this _____ day of _____, 2021.

F. Eisenberger
Mayor

A. Holland
City Clerk



2022 RECOMMENDED WATER, WASTEWATER AND STORMWATER RATE SUPPORTED BUDGET

November 22, 2021

2022 RATE BUDGET AGENDA

2022 Rate Budget Overview

2022 Rate Budget Themes

Performance Metrics / Statistics

2021 Highlights

Business Benefits

Opportunities and Challenges

Future Outlook

Continuous Improvement

State of the Infrastructure

2022 Operating/Capital 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



2022 RATE BUDGET OVERVIEW

- Presenting a needs-based budget as opposed to a rates-based budget
- Recommending 4.98% combined increase in 2022
- Recommending a complement increase of 10 FTEs for 2022



2022 RATE BUDGET THEMES

“Right-sizing” of Operating Budget

Increasing Capital Program Costs

Lack of Dedicated Stream of Stormwater Program Funding

Impacts of Changing Legislation

Impacts of Climate Change

Supporting Growth and Development

PERFORMANCE METRICS / STATISTICS



4
WELL SYSTEMS
CARLISLE
FRELTON
GREENSVILLE
LYNDEN



2,127
KILOMETRES OF WATERMAINS



SUPPORT
21
AGENCIES WITH RESEARCH

250
WATERMAIN
BREAKS
REPAIRED



7 ACTIVE CONSTRUCTION
PROJECTS INCLUDING
4 SUBSTANTIALLY
COMPLETED
PROJECTS



DAY-TO- DAY OPERATIONS
AND MAINTENANCE OF
13,705
FIRE HYDRANTS



13
WATER
RESEVOIRS



790
SUBSTANDARD
WATER SERVICE LINE REPLACEMENTS

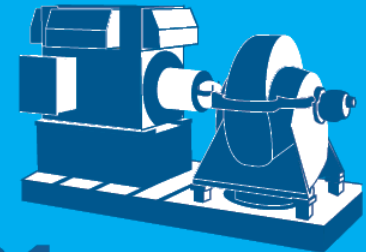


7
WATER
TOWERS



23,778
WATER TREATMENT
PLANT SAMPLES
TESTED
32,150
WATER DISTRIBUTION
SAMPLES TESTED

155,969
TOTAL NUMBER OF
WATER METERS
(OCT.YTD)



21 WATER
PUMPING STATIONS

75.87 BILLION LITRES OF
WATER TREATED



1 WATER
TREATMENT PLANT

TOTAL WATER ASSETS - \$3.12 BILLION

9
COMBINED
SEWER
OVERFLOW
TANKS

21
BYPASS
EVENTS
(OCT.YTD)

ENVIRONMENTAL MONITORING AND ENFORCEMENT
DISCHARGE PERMIT COST RECOVERY
\$6.77M
LABORATORY COST RECOVERY
\$186,255

49,106 TESTS ON
WASTEWATER SAMPLES
18,614 TESTS ON
ENVIRONMENTAL SAMPLES

287
BACKWATER
VALVES
INSTALLED (OCT.YTD)

47,807
MAINTENANCE
HOLES

8 ACTIVE CONSTRUCTION
PROJECTS INCLUDING
8 SUBSTANTIALLY
COMPLETED
PROJECTS

7,918
MEGA WATT HOURS OF
ELECTRICITY
PRODUCED

1,212
KILOMETRES OF SANITARY SEWER
571 KILOMETRES OF COMBINED SEWER

40,802
TONNES
OF BIOSOLIDS
PROCESSED ON SITE

2 WASTEWATER
TREATMENT PLANTS
108,475
MEGA LITRES
TREATED

\$1,546,000
COST AVOIDANCE
YTD GLOBAL ADJUSTMENT

\$5.28M
ADDITIONAL
SERVICES REVENUE
75
ACTIVE
PERMITS

347
DEVELOPMENT
APPLICATIONS

70 WASTEWATER
PUMPING STATIONS

TOTAL WASTEWATER ASSETS - \$4.42 BILLION

68

WET PONDS
(AUG.YTD)



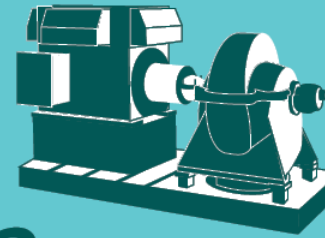
61

DRY PONDS
(AUG.YTD)



191

KILOMETRES OF
WATERCOURSES



2

STORMWATER
PUMPING STATIONS

7

WETLANDS



57



KILOMETRES
OF MUNICIPAL DRAINS



STORMWATER STORAGE CAPACITY

630

METRES OF
SHORELINE
ASSETS AT



29

LOCATIONS



2,249

RAIN BARRELS
SOLD ONLINE

425

EMERGENCY
SPIILLS
ACTIVATIONS
(NOV.YTD)



82

OIL &
GRIT
SEPARATORS



KILOMETRES OF STORM SEWERS

TOTAL STORMWATER ASSETS - \$2.54 BILLION

DUNDAS WWTP



4,017ML
wastewater
treatment
forecast



continuous
compliance with
wastewater
effluent limits

WOODWARD WTP



75,867ML
water treatment
forecast



7 unconfirmed
18 confirmed

AWQI

Adverse Water Quality Issue
(Aug.YTD)



\$1.55M
cost avoidance
global adjustment
forecast

WOODWARD WWTP



104,458ML
wastewater
treatment forecast



80.3%
capacity utilization
(5yr Average)

40,802 TONNES
biosolids processed on site
forecast



5,519
mega watt hours
generated by Cogen unit
(Sept.YTD)



continuous
compliance with
wastewater
effluent limits



38,110
gigajoules
generated by Bio-gas
Purification Unit (Aug.YTD)



Plant bypasses (Oct.YTD)



15
odour
complaints
(Sept.YTD)

DRINKING WATER QUALITY MANAGEMENT SYSTEM POLICY

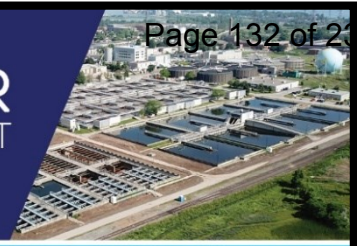


The City of Hamilton owns, maintains and operates various drinking water systems. The City is committed to:

- S** Safe, high quality, consistent supply of drinking water
- A** Always improving the Drinking Water Quality Management System
- F** Following and complying with applicable legislation
- E** Effective and open communication with the community concerning matters of drinking water quality



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



2021 HIGHLIGHTS

COMMUNITY ENGAGEMENT & PARTICIPATION

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 & INFRASTRUCTURE

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.



2021 HIGHLIGHTS – PANDEMIC



■ Hamilton Water Services

- Size and Type, SLMP, HW Permits (from in person to virtual service)

■ Day to Day Operations

- Increased PPE, cleaning procedures to maintain safety protocol
- Staggering start times, Lab/office rotation
- Online training, virtual meetings
- Projects on hold, in person events cancelled
- Redeployment

■ Regulatory

- Relief for lead sampling

■ Remote SCADA Interfaces

- To ensure continuity of service in case of office outbreak

Citizen Facing Programs



- Protective plumbing program (backwater valves)
 - Rostered contractor model continues to be a success
 - New contractor roster issued in 2021 with enhanced grant for downspout disconnection
 - 11,020 valves installed since 2009 - \$24.9M spent towards program
- Sewer lateral management program
 - Upgrade of aged residential sewer service lines
 - 713 inspections (YTD) – spot repairs, replacement or lining
 - Approximately \$4.31M invested in 2021
- Substandard water service replacement program (lead services)
 - 720 services replaced (YTD)
 - 1201 size & type inspections (YTD)
 - Approximately \$2.36M invested in 2021
- 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

Clean & Green

- Water Distribution System Leak Detection
- CSO Outfall Monitoring Feasibility Study
- WWQMS Implementation

Healthy & Safe Communities

- Partnerships and Contributions to SARS-CoV-2 Testing in Wastewater
- Binbrook H₂S Removal Project (Odour control)
- Backflow Prevention Program Compliance (City-owned Assets)
- Below Grounds Inspections for Municipal Wells
- Post Hydrant Installations and Dead End Watermain Flushing Program





LYNDEN DRINKING WATER ADVISORY
HAS BEEN LIFTED

2021 HIGHLIGHTS - LYNDEN



Healthy & Safe Communities

- New Municipal Well and Water Treatment Facility
 - Substantial Performance – July 24, 2020
 - Total Cost – \$7.93M
- Lynden Unidirectional Flushing Program
- Operations System Flushing Consultant Assignment
- Installation of 42 valves and 25 post hydrants
- **Drinking Water Advisory lifted!! (Aug 5, 2021)**





Economic Prosperity & Growth

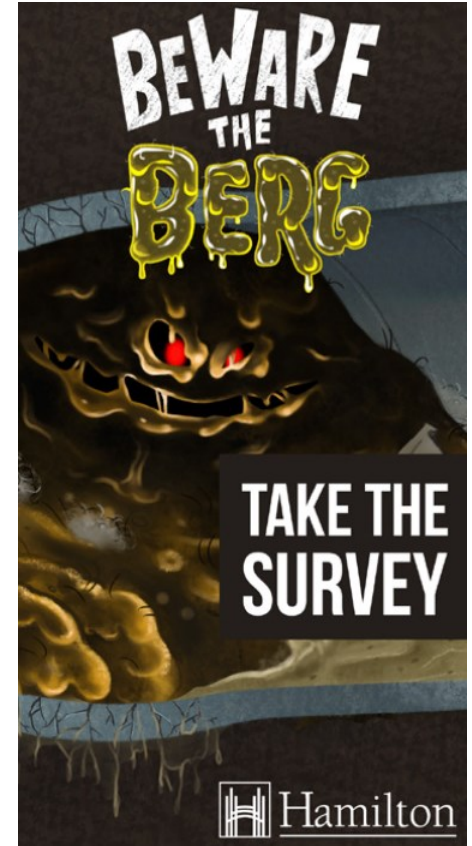
- Generated over \$6.96M in revenue (Q1-Q3)
 - Discharge Permits - \$6.77M and Lab \$189,000
- Large Meter Maintenance Program
 - Replacement of under-registering large meters for an increase of revenue \$767,000 annually

Our People & Performance

- Surface Water Quality Program Map
- Our People Survey (OPS) 2021
- OPS Action Item Success Stories
- Semi-Annual HW Director's Video Update

Community Engagement & Participation

- FOG Campaign – Over 3000 results!
- Virtual World Toilet Day - **\$6,610 raised and 800+ student participants**
- Virtual Youth Outreach and Education



2021 HIGHLIGHTS



Built Environment & Infrastructure

- Environmental Assessments
 - Carlisle Water Storage Facility
 - Greenville Municipal Well
- Disaster Mitigation Adaptation Fund – Phase 1
- From GIMS to WIMS – Asset Migration
- EAM
 - EAM Business Prioritization/Overview Project
 - EAM Foundations
 - EAM Asset Hierarchy
- Eastport Station
 - Construction complete
 - Wastewater hauler training and station utilization launch targeted for Q1 2022
- Digester #4 Cleanout and Refurbishment (\$5.9M)
- Stormwater and Drainage Program
 - 5,5095 cubic metres of sediment removed

2021 MAJOR INITIATIVES

AEGD: HC019 English Church



AEGD: HC027 Homestead



AEGD: HC018 Twenty Road



■ Design/Study

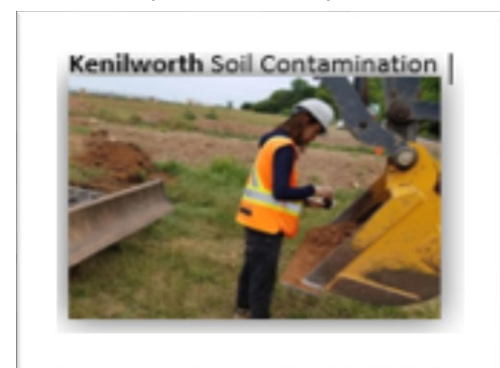
- Kenilworth Soil Removal (RFT)
- RTC Phase 2
- PD7 Tower Glanbrook
- Calvin Street SPS
- Greenhill Water PS (Study)
- Dundas WWTP Operational Reliability

■ Construction

- AEGD SPS Twenty Rd
- First Street SPS

■ Substantial Completion

- AEGD SPS Homestead (Mar 2021)
- AEGD SPS English Church (Mar 2021)





■ Water, Wastewater and Stormwater Master Plans

- MPs Policy Paper endorsed by Council
- City Water System Risk and Reliability Technical Memorandum
- Master Plans Project Newsletter

■ Automated Meter Infrastructure & Reading

- For large meters and well-based communities
- Increased focus to include seasonal meters
- RFP for consultant for AMI RFP to be awarded Q4 2021

■ Protective Plumbing Program

- Set pricing for Mainline Fullport and Adapt-a-valve backwater valve installations
- Promotion of downspout disconnections
- Residential Protective Plumbing Loan Program

■ Surface Water Quality Monitoring Program

- Monthly samples at 33 locations
- Database of surface water quality conditions
- Investigate water quality anomalies that arise
- Website and data sharing map





ECHO Program

- Multidisciplinary Team (Operations and Maintenance)
- What's Being Done?
 - Level 1 Condition Assessment Data
 - Collecting asset data
 - Updating CMMS
 - Compliance issues
 - Creating annual PMs
 - Follow up corrective WOs
- Target of 1 Inspection per Year at all Facilities





Hamilton
CLEAN HARBOUR
P R O G R A M

For more information, please visit our website at:

- 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>



- **Divisional Restructure to create Watershed Management Office**
- **Leading the City's response to the MECP Director's Order for Chedoke Creek/Cootes Remediation**
- **Development of City of Hamilton Watershed Action Plan (CHWAP)**
- **Source Protection Planning**
 - Risk Management Official duties
 - Source Protection Plan Revisions
 - Small Municipal DW System EAs
 - Development Application Reviews
 - Maintenance of our rural DW monitoring wells and data stations

2021 MAJOR INITIATIVES - CHEDOKE CREEK

MECP Order

- Chedoke Creek Dredge Plan approved June 11, 2021
 - Currently at 90% design
 - RFPQ for dredging contractors complete
- Cootes Paradise Work Plan approved August 13, 2021
 - Lower Chedoke Creek EA
 - Expanding dredge footprint plan, sediment inactivation
 - Chedoke Watershed Stormwater EA
 - Ainsley Woods sewer separation EA
- Short-Term Direct Measures
 - Small Scale Aeration
 - Floating Treatment Wetlands
- Financial
 - Chedoke dredging – Estimated \$6M
 - Cootes offsetting – Estimated \$5 – 10M
 - Timeline: Dec 31, 2022 extension request for the dredge work has been approved by the MECP



2021 MAJOR INITIATIVES - CHEDOKE CREEK

Council Motion

- Communication strategy with RBG and HCA
- Recommit to the HHRAP water quality objectives
- Governance for collection and reporting of samples
- Reconciliation with Indigenous Water Walkers
- PH report back on health impacts

Additional Related Assignments

- Watershed Action Plan
- Chedoke Water Quality Framework Study
- CSO Outfall Monitoring Feasibility Study - Scope included 16 sewer outfalls and Dundas WWTP tertiary bypass.



② SMALL-SCALE SEDIMENT REMOVAL SYSTEM DREDGE EQUIPMENT
NOT TO SCALE



2021 MAJOR INITIATIVES – RANDLE REEF

■ Randle Reef Highlights

- Project Management Institute ranked Randle Reef work as the third most influential project in Canada
- No compliance issues reported for air or water

■ Stage 1: Double Celled Sheet Pile Wall Containment Facility

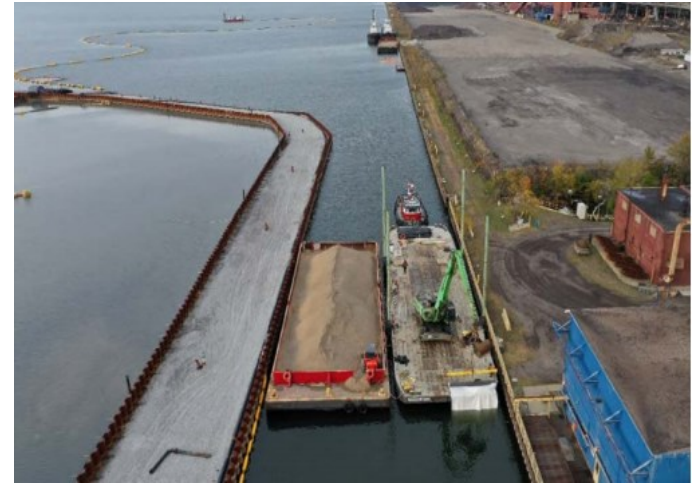
- Completed

■ Stage 2: Dredging of Contaminated Sediment

- Completed
- 564,200 m³ of contaminated sediment removed

■ Stage 3: Dewatering and Capping of Contaminated Material, Install Surface Cap, Prep for use as Port Land

- COVID-19 delayed tendering to 2021
- Expected to be complete in Q4 2023



2021 MAJOR INITIATIVES – WOODWARD UPGRADES



Contract 1 - MPS

Contract Value: \$87.6 Million
Construction Start: May 2017
Substantial Completion: April 2022
Work Performed to July 2021: \$79 Million (91%)



Contract 2 - ELU

Contract Value: \$60.9 Million
Construction Start: October 2017
Substantial Completion: January 2022
Work Performed to Aug 2021: \$58 Million (96%)



Contract 3 - TTU

Contract Value: \$165.3 Million
Construction Start: May 2019
Substantial Completion: June 2022
Work Performed to Sept 2021: \$141 Million (85%)

2021 MAJOR INITIATIVES – WOODWARD UPGRADES

CONTRACT 1
Main Pumping Station



CONTRACT 2
Electrical Power Centre



CONTRACT 3
Tertiary Treatment Upgrades



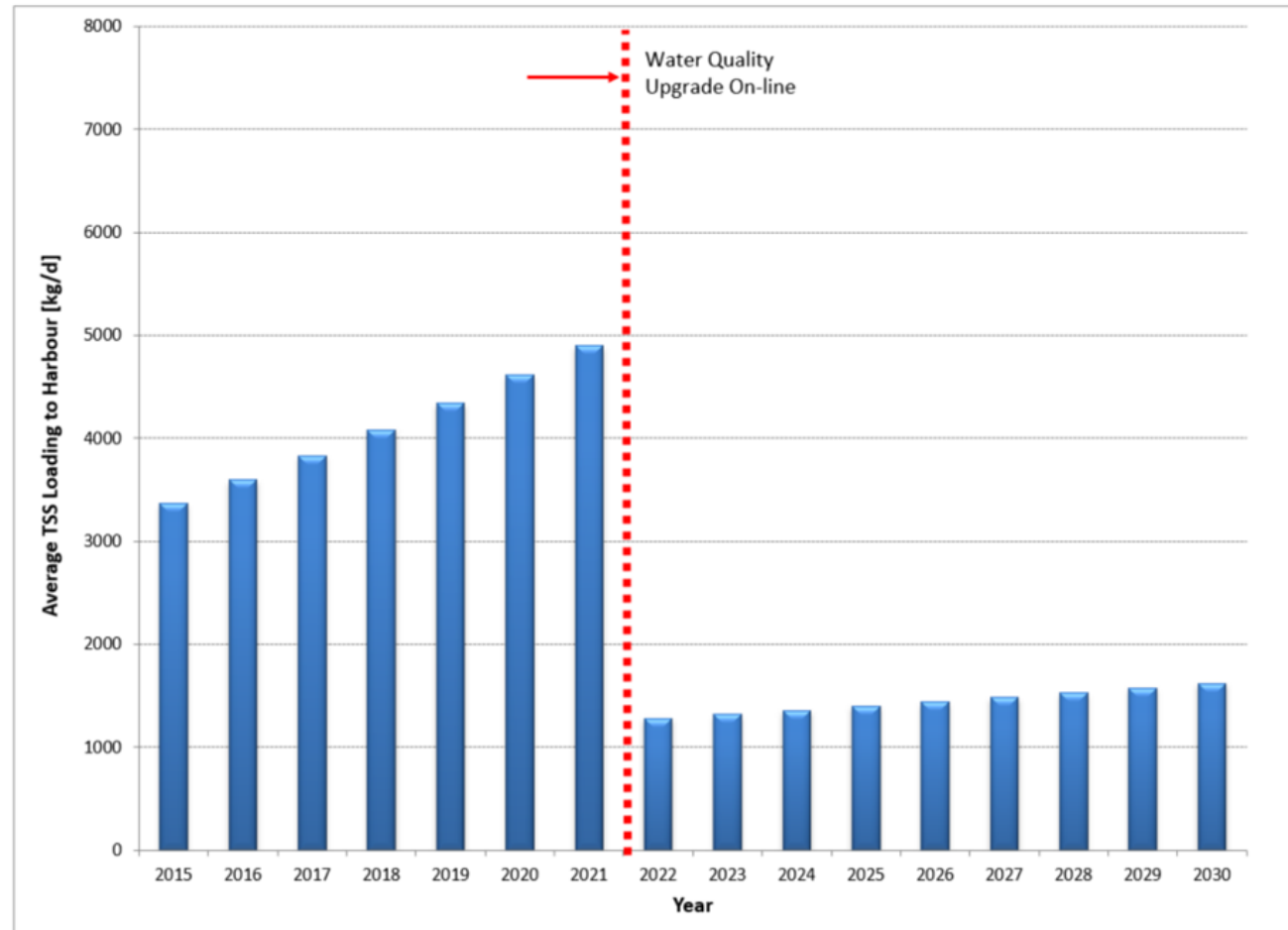
2021 MAJOR INITIATIVES – WOODWARD UPGRADES

Estimated Reductions over 10 Years:

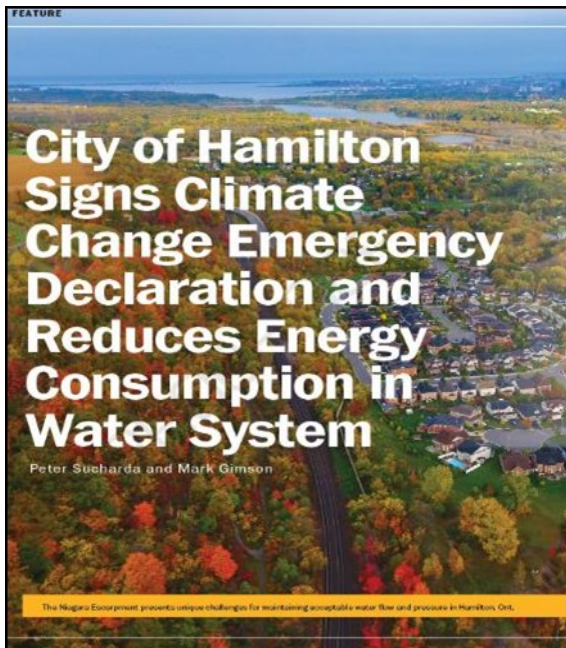
- ✓ 500 Tonnes of Phosphorus
- ✓ 6100 Tonnes of Ammonia
- ✓ 14,900 Tonnes of Total Suspended Solids

Benefits:

- ✓ Improved Effluent Discharge Quality.
- ✓ Supports HHRAP to De-List Harbour as an Area of Concern.



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
- Green Fleet Strategy

Examples of projects benefiting climate change:

- 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

2021 BUSINESS BENEFITS

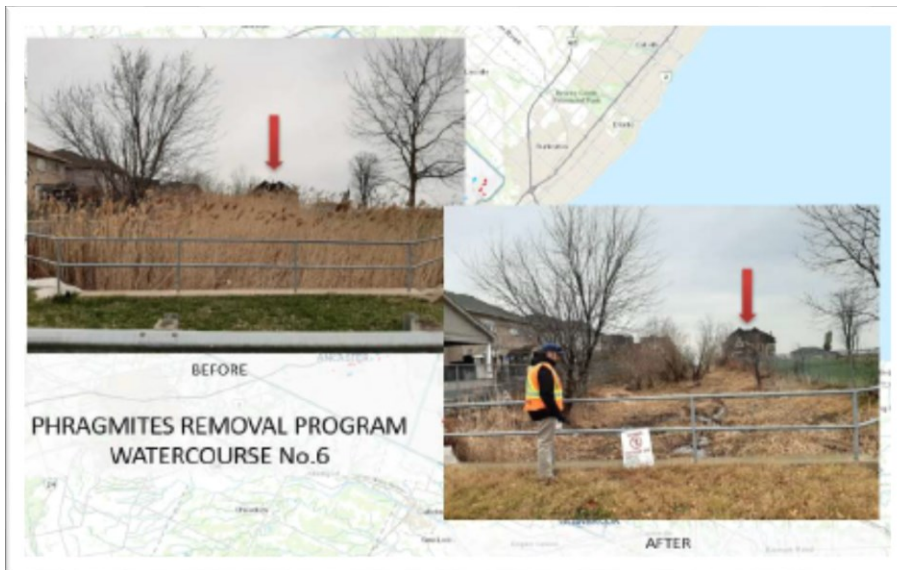
■ Construction Dewatering Program

- Program framework completed in 2021
- Sewer Use Bylaw updates
- Open for Business - Integration with PED processes
- PIC closed Oct 15th
- Presentation to Development Industry Liaison Group Oct 18th
- Environmental Enforcement Officer approved through 2021 Rate Budget
 - Responsible for permits/approvals
 - Projected 2021 revenue ~ \$200K



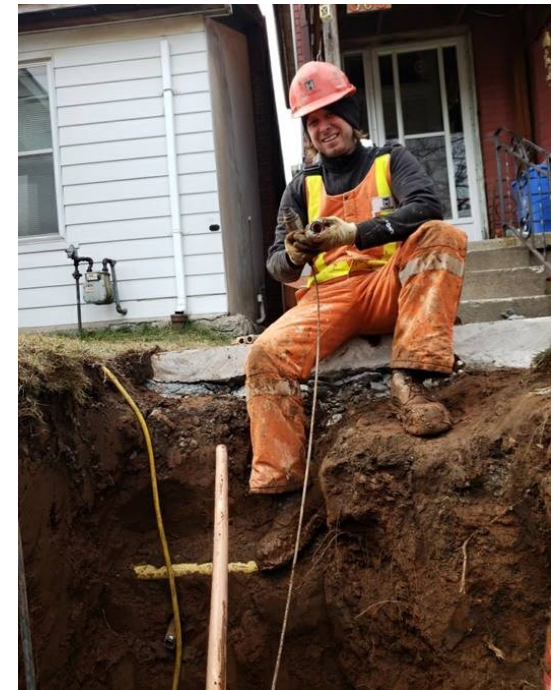
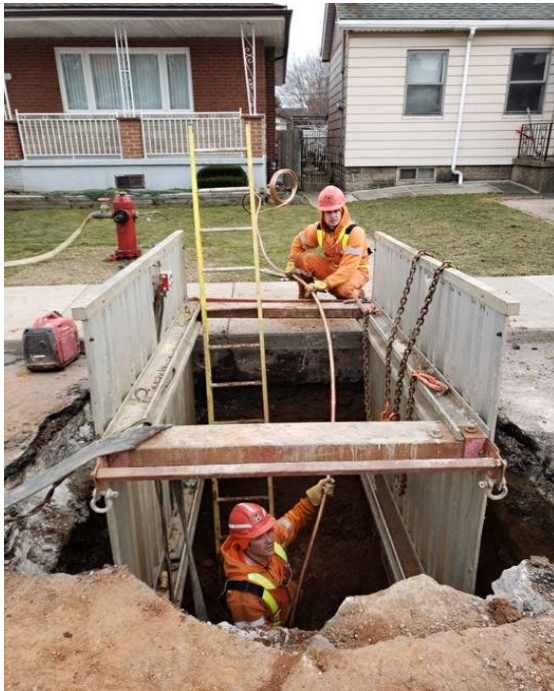
■ Stormwater Management Technologist Program

- 2 FTEs approved as part of the 2021 Rate Budget
- As a result, the SW Management Facility Monitoring Program and the Phragmites Control Program were brought back in house vs. roster assignment
- Projected annual capital savings \$225,000 bringing the work back in house



■ Substandard Water Replacement Program

- 4 WDWWC FTEs acquired as a result of the 2021 Rate Budget Process to complete in-house substandard water service line replacement
- Average Cost Per Service Line Replacement – Contractor - \$4,052.28
- Average Cost Per Service Line Replacement – In-house - \$2,300.85
- **Average 44% savings when completed in-house**
- 790 substandard water service line replacements in 2021 (forecast)



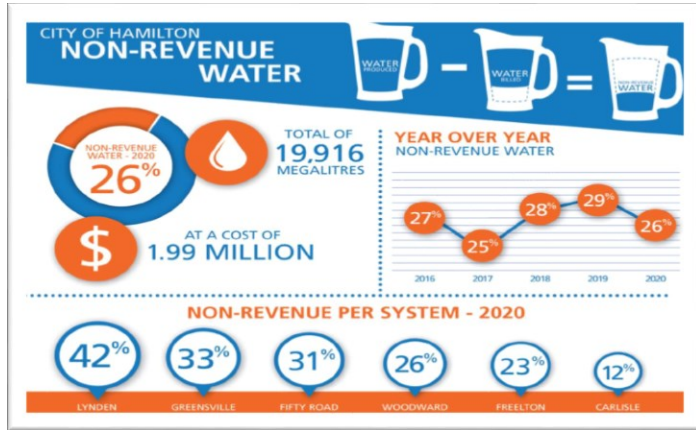
OPPORTUNITIES AND CHALLENGES

2021 OPPORTUNITIES AND CHALLENGES

Regulatory Challenges

- Watermain Disinfection Procedure
- Stormwater Source Control Enforcement
- Excess Soil Management O. Reg 406/19
- MECP Consolidated Linear ECAs :
 - Stormwater and Wastewater Design Guide
 - Consolidated Linear Infrastructure Stormwater and Wastewater ECAs
- Pending Changes to Drinking Water Regulatory Limits (ex. lead)





Our People & Performance

- Increased Staff Workload
 - Increased Community Inquiries
 - High Percentage of Unplanned Work
 - Virtual Size & Type Inspections
 - MECP Inspection & Approvals Processes
- Alectra Utilities
 - Discontinuation of HW billing services (2024)

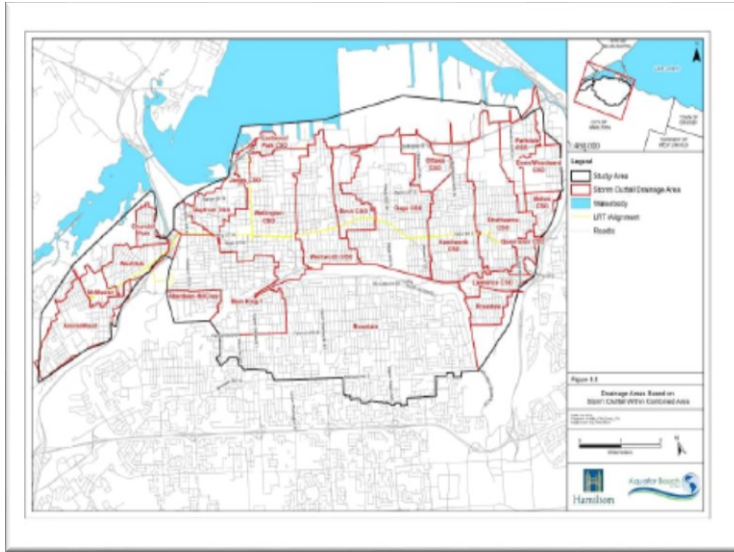
Clean & Green

- Backflow Prevention Bylaw Enforcement
- Community Concerns Regarding CSO debris
- Outfall Boom Inspection Program/Creek Clean-up
- Above Average Non-Revenue Water Ratio
- Dedicated Stormwater Funding Stream
- Low Impact Development Governance (Public, Private and Enforcement)
- Construction Dewatering Program

Healthy & Safe Communities

- 30 Year operating, maintenance and rehabilitation contract with Harbour City Solutions
- Produces a fertilizer product registered under the Canadian Food Inspection Agency or can be used as a fuel source
- Operations issues experienced since facility commissioning
- Unexpected and frequent odour complaints related to the facility
- MECP has requested action to mitigate odour complaints
- Significant challenges with resources for contract administration





Built Environment & Infrastructure

■ Proactive Meter Replacement Program

- Behind approx. 6200 meter replacements
- 33187 meters older than 20yrs

■ Flooding and Drainage Master Servicing Study

- Alternate options for study completion

■ Aging Infrastructure

■ Dundas WWTP Upgrades - Funding

■ Drinking Water System Disinfection

■ Climate Change

- High intensity precipitation
- Elevated lake levels
- Frozen services
- Algae blooms

2022-2026 OPPORTUNITIES AND CHALLENGES

Built Environment & Infrastructure

■ Stormwater and Drainage Challenges

- Encroachments and prohibited activities at SW facilities and easements
- Wildlife management and endangered species
- Backlog of SW management facilities that require dredging
- Missing asset management fundamentals – inventory, assessment and programming
- Level of Service Review – SWD Program not meeting min. industry standard in many areas



2022-2026 OPPORTUNITIES AND CHALLENGES

Built Environment & Infrastructure

■ Light Rail Transit

- Challenge to operate and maintain the system during LRT construction
- Opportunity to build new infrastructure



■ O. Reg 588/17

- COH Asset Management Plan
- Asset inventories
- Existing Levels of Service vs Desired Levels of Service
- Opportunity for better communication about infrastructure and financial needs

O. Reg. 588/17:
Asset Management
Planning for
Municipal
Infrastructure

2022-2026 OPPORTUNITIES AND CHALLENGES

Community Engagement & Participation

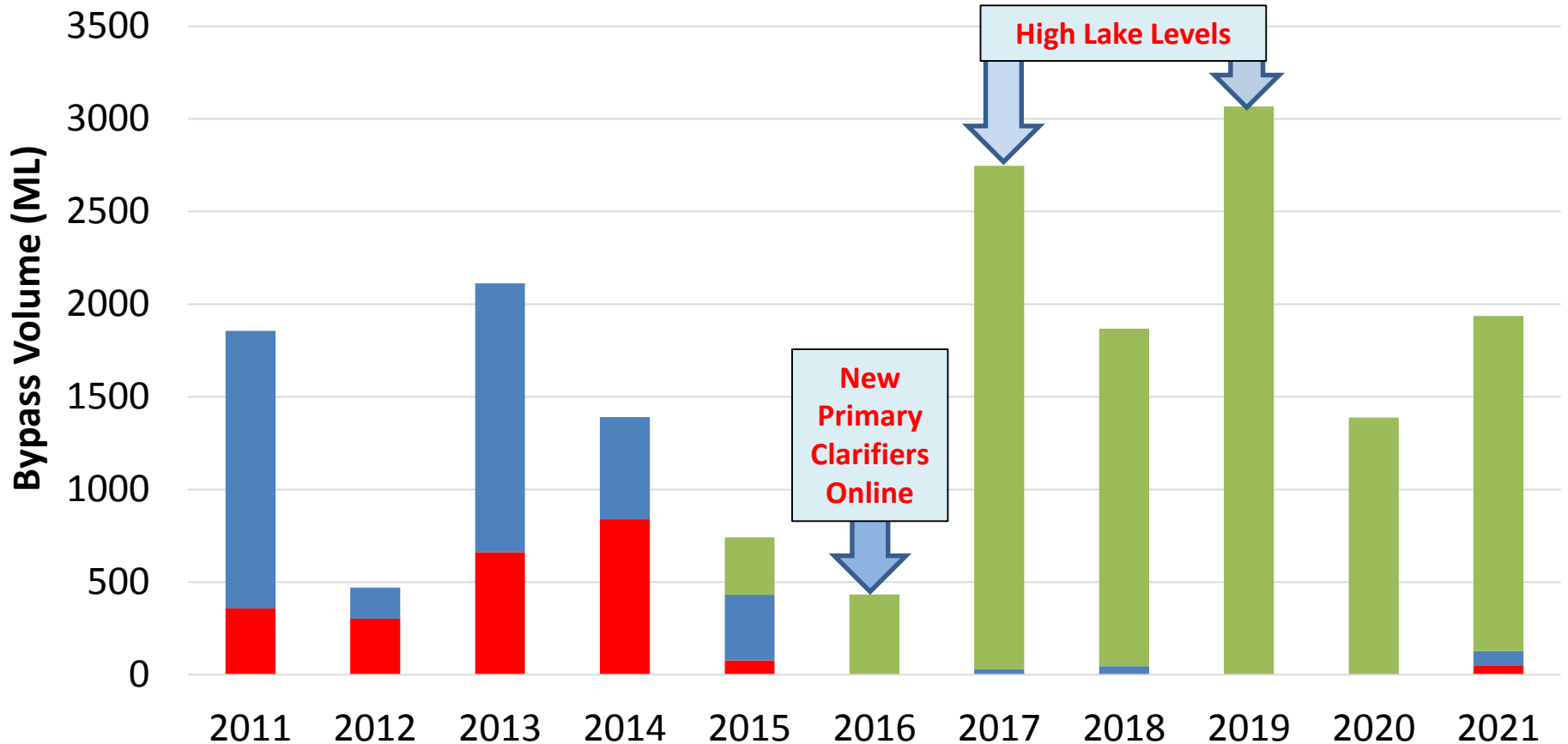
- Challenge: Public Perception of the City’s Combined Sewer System
- Opportunity: Strengthened Relationships with Community Partners



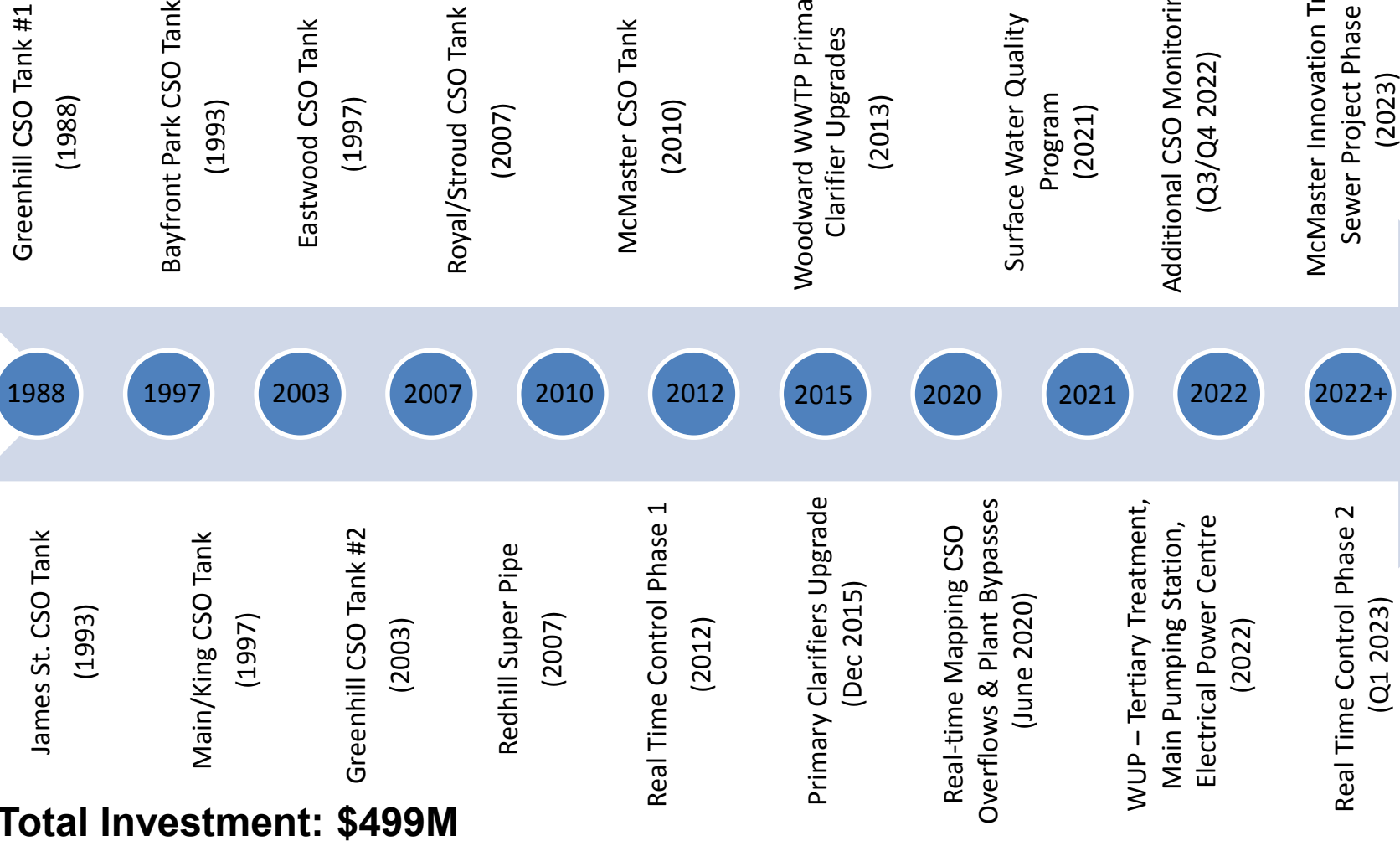
2022-2026 OPPORTUNITIES AND CHALLENGES

Woodward WWTP Bypass Volumes

■ Plant Bypass ■ Primary Bypass ■ Secondary Bypass



2022-2026 OPPORTUNITIES AND CHALLENGES



Total Investment: \$499M

“Environmental remediation takes commitment and patience. Thank you to the City of Hamilton for your unwavering support to continue to focus on the work still needed to guide us towards a healthy Hamilton Harbour.”

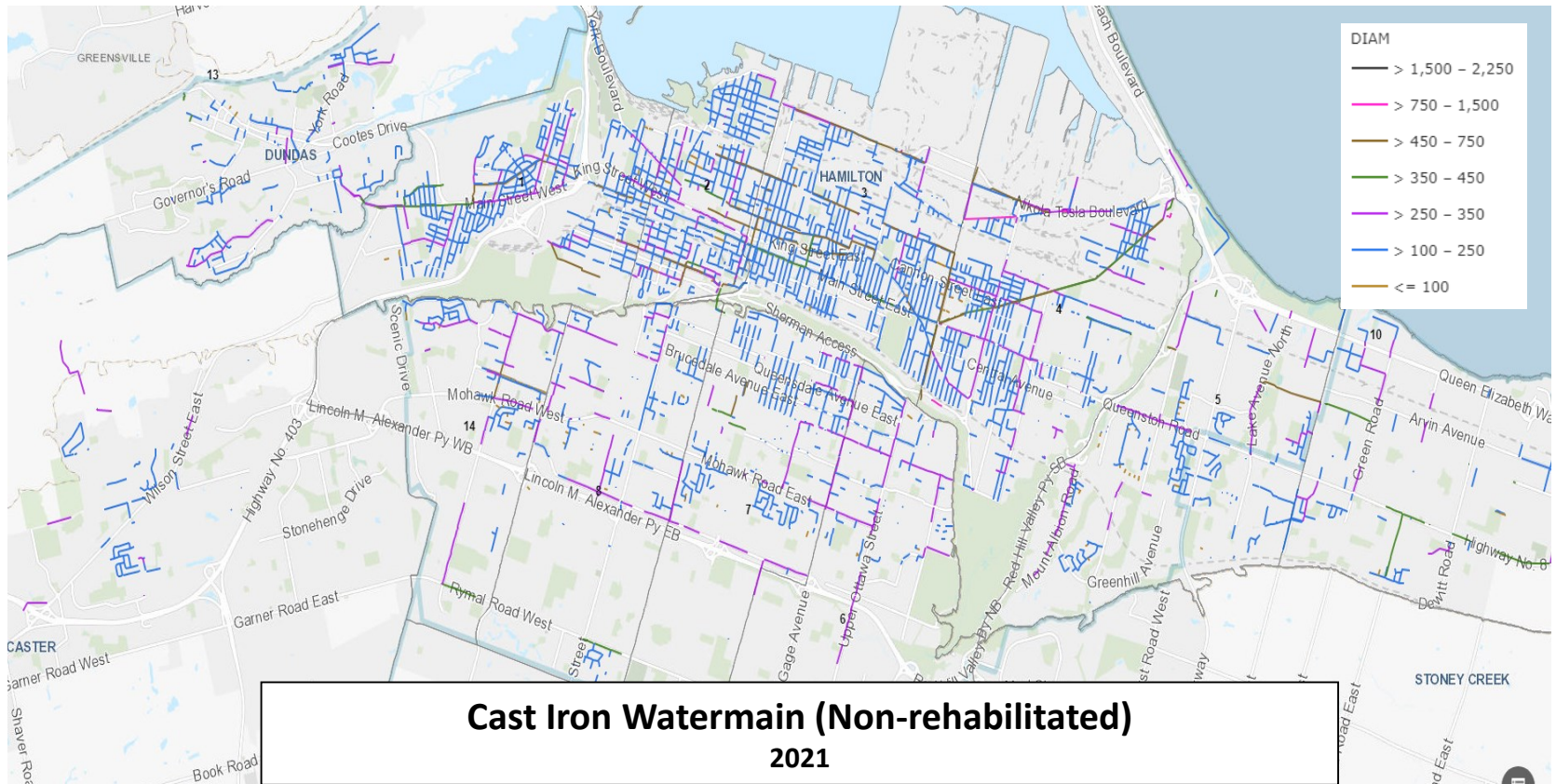
Kristin O'Connor, HHRAP Coordinator



**HAMILTON
HARBOUR**
REMEDIAL ACTION PLAN

Economic Prosperity & Growth

- Aging Infrastructure in Downtown and Lower City
- Combined Sewer Capacity & Allocation for Development



FUTURE OUTLOOK

MAJOR INITIATIVES 2022

Organizational

- Facility Plan - Woodward Wastewater Treatment Plant
- By-law updates
 - Sewer Use By-law
 - Waterworks By-law
 - Sewer & Drain By-law

Operations

- Advanced Metering Infrastructure
- Non-Revenue Water Initiatives
- WUP Infrastructure Transfer
- Water Age and Water Disinfection Study
- Seasonal Coagulation Study
- Asset Inventory for Vertical Infrastructure
- Cyber Security Program



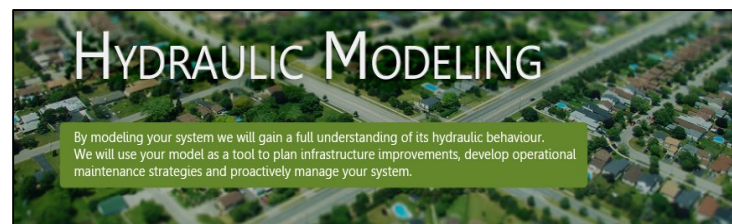
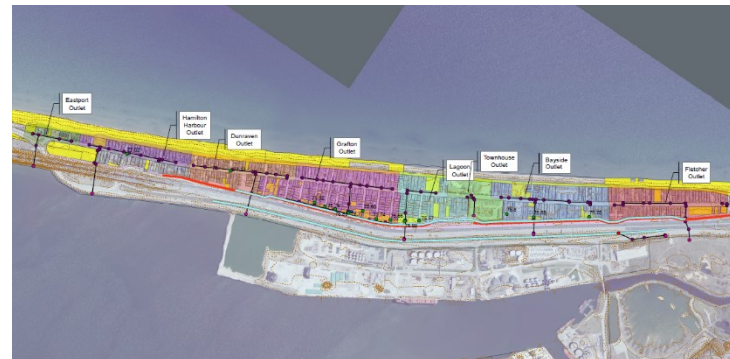
SEWER USE BY-LAW

UPDATE

MAJOR INITIATIVES 2022

Planning & Capital Initiatives

- Water, Wastewater and Stormwater Master Plan
- Water/Wastewater/Stormwater/Groundwater Modelling
- Asset Management Plan – O. Reg 588/17
- Environmental Assessments
 - Carlisle Water Storage
 - Waterdown Trunk Watermain Twinning
 - Ancaster Water Servicing
 - Beach Neighborhood Drainage
 - Chedoke Creek
- Design and Construction Projects
 - Pressure District 7 Water Tower (Ward 11)
 - Real time Control - Phase 2
 - Greenhill Combined Sewer Overflow Facility



MAJOR INITIATIVES 2023 TO 2026

Planning & Capital Initiatives

- Woodward Wastewater Treatment Plant Capacity Expansion
- Water Treatment Plant Process Upgrades
- Mountain Waste Hauler Station Design
- Dundas Wastewater Treatment Plant Upgrades
- DMAF Intake 1 and 2
- Asset Management Plan – O. Reg 588/17

Organizational

- Water/Wastewater/Stormwater/Groundwater Modelling
 - Establishment of master model procedures
 - Assessing integration of growth information
 - Development of capacity allocation tool for WD and WWC systems



MAJOR INITIATIVES 2023 TO 2026

Operations

- Stormwater Monitoring & Enforcement Programming
- Lab Instrument Upgrades
- Surface Water Quality Program – Technology Implementation
- Implementation of Vertical Infrastructure Maintenance Strategic Plan
- Municipal Drain Maintenance Strategy
- Advanced Metering Infrastructure Installation & Operation
- Implementation of Water Billing Strategy (Replacing Alectra Utilities)
- Cyber Security Program Implementation



CONTINUOUS IMPROVEMENT



■ HCE Communications Project (\$262,000)

- 31 of 35 sites upgraded - faster Fiber Optic System
- Supports enhanced infrastructure security at HW facilities
- Cost avoidance of \$2.5M - \$5M

■ Compound Meter & Meter Multiplier Verification/Standardization

- Ongoing review of all replacements from Jan 2018 – present to verify correct multiplier
- 150mm Meter Standardization to be completed by Q4 2021
- Procedural update, including creation of quick reference guide



CONTINUOUS IMPROVEMENT

Capital Delivery Program Dashboard

- Phase 1 – City staff access
- Phase 2 Management Dashboard

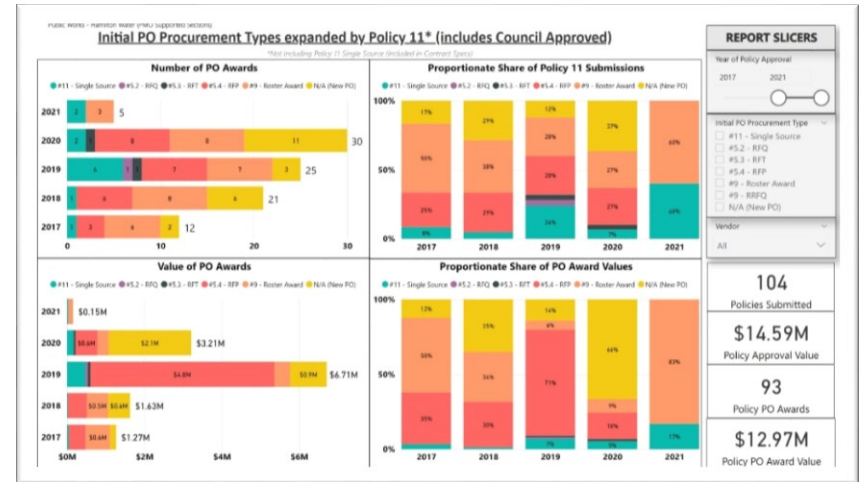
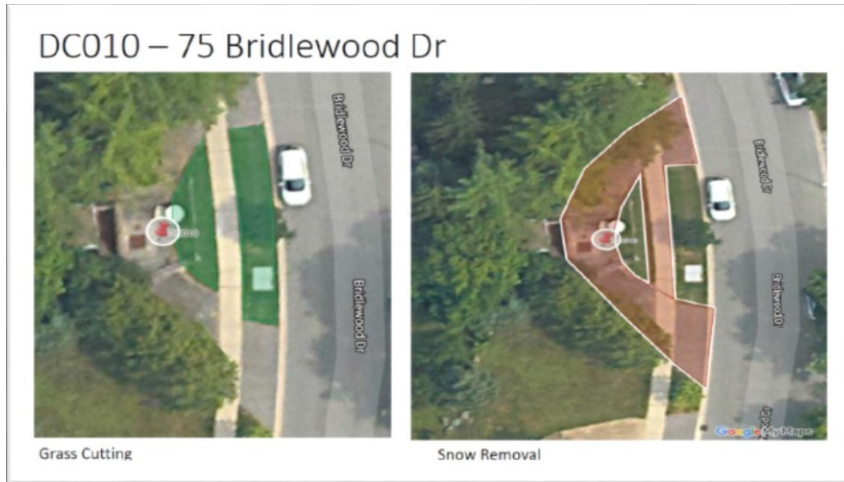
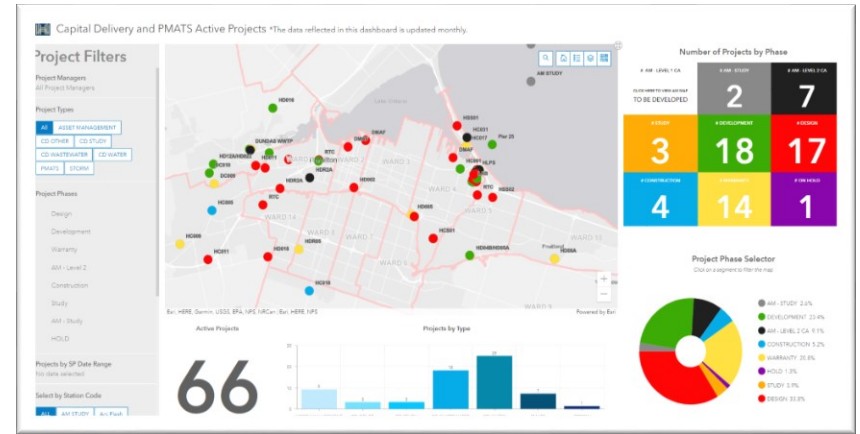
Jira Service Desk

- Over 700 users of multiple systems

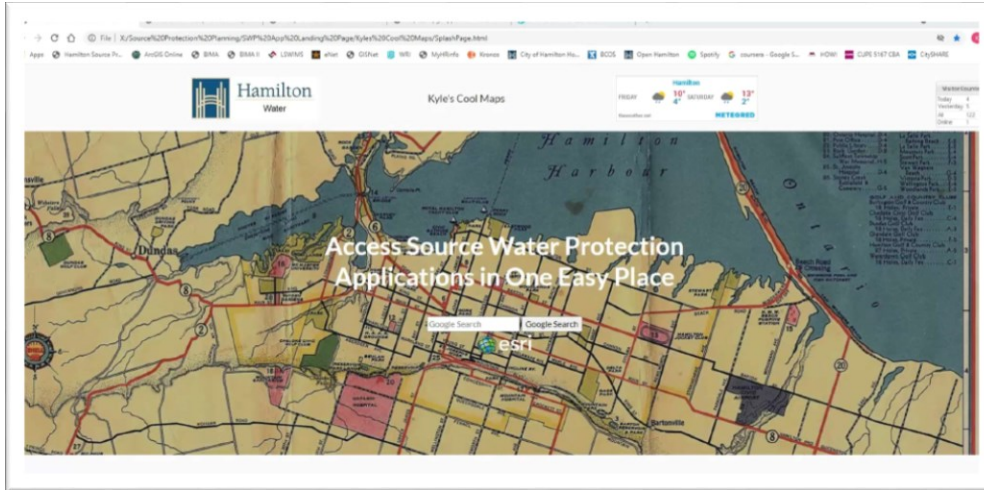
Facilities Snow Removal and Grass Cutting Contract (Aerial maps)

Power BI

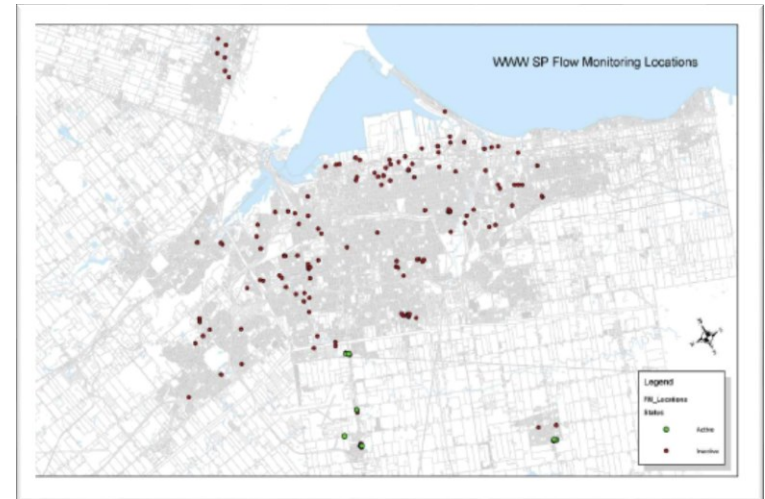
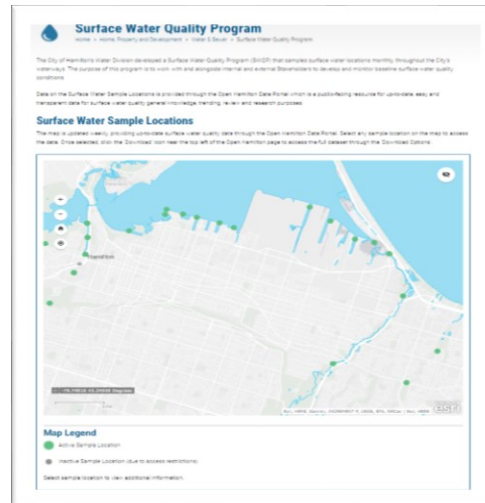
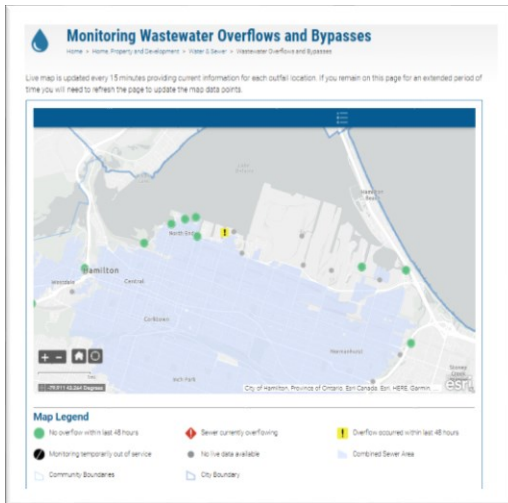
- Interactive visualization reports



CONTINUOUS IMPROVEMENT



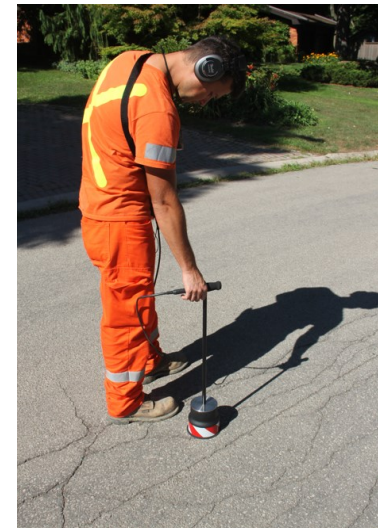
- Flow Monitoring and Rainfall Database
- Source Water Protection Internal App Page
- Surface Water Quality Program
- Monitoring Wastewater Overflows and Bypasses



CONTINUOUS IMPROVEMENT

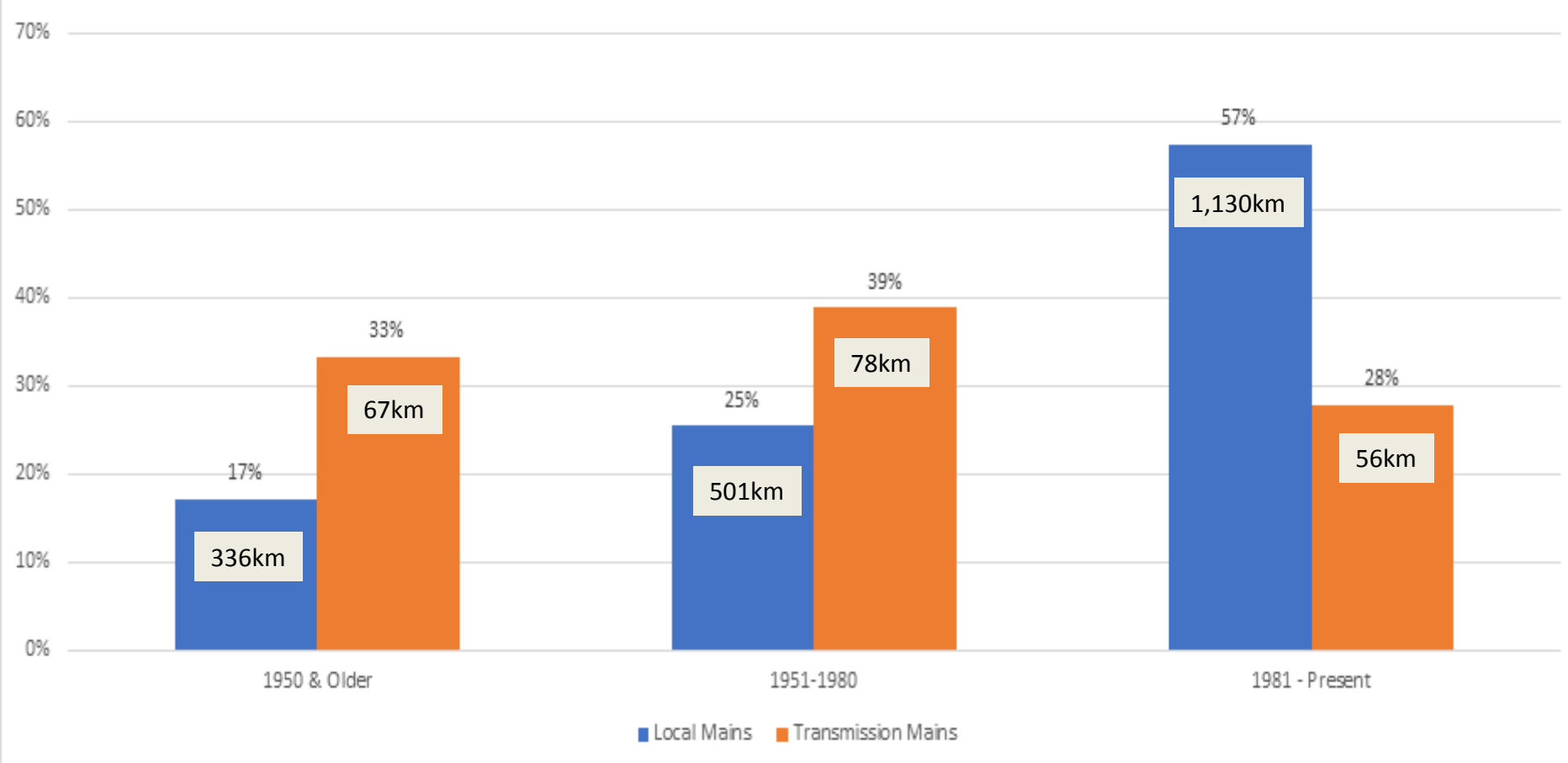
■ Proactive Leak Detection Program

- Decline of emergency water main breaks
- To date, 215 public leaks repaired and 37 private leaks repaired
- Estimated non-revenue water loss saved 3,403,500 m³ = \$340,350 (YTD Sept)
- Total program cost:
 - Equipment (1 time cost) \$123,000
 - Staff resource (annual cost) \$165,000



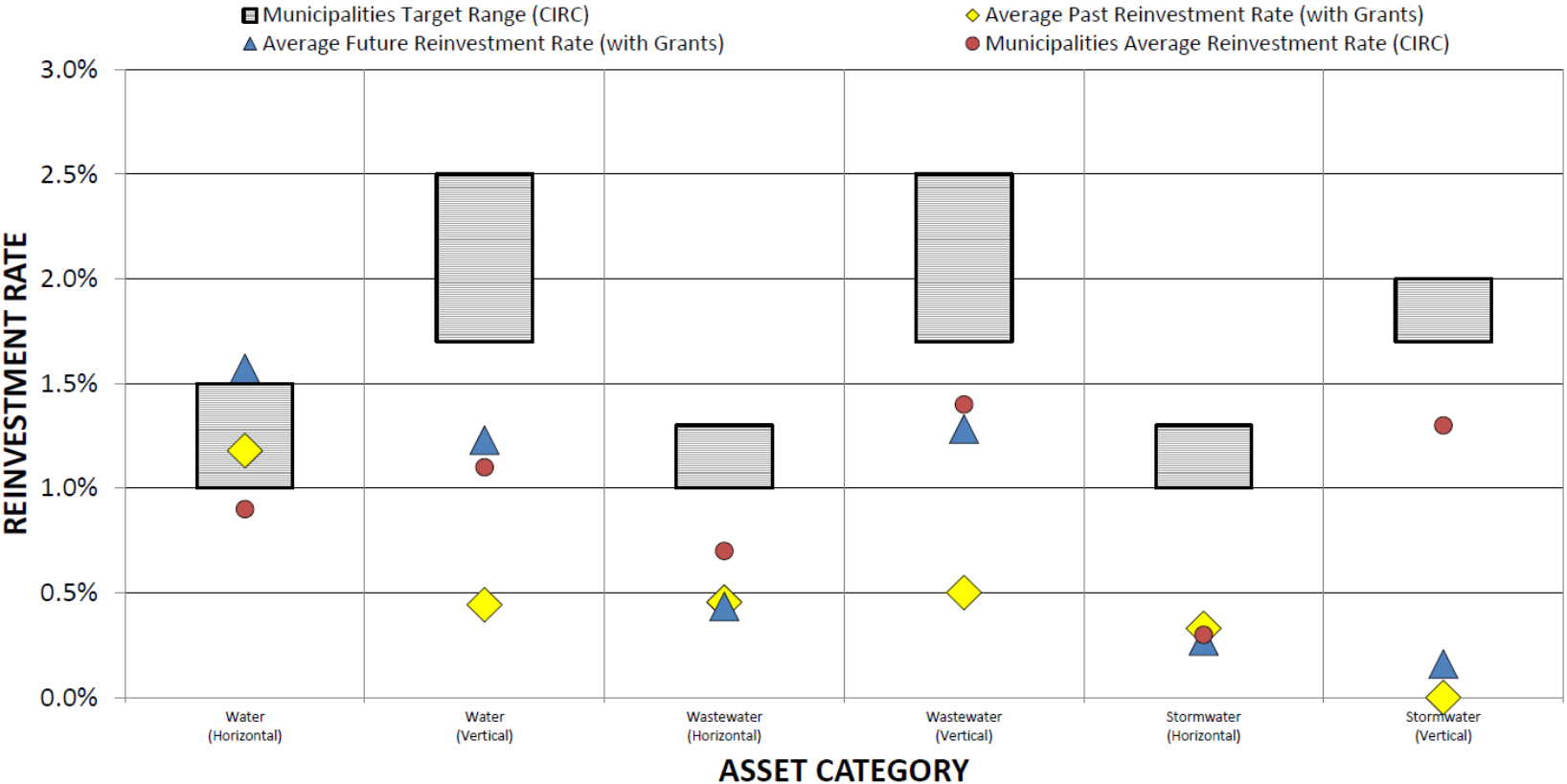
STATE OF THE INFRASTRUCTURE

Age Profile (Percentage of Local vs Transmission Mains)



9.7% of the distribution network is transmission watermain (450mm and larger)

INFRASTRUCTURE REINVESTMENT RATE COMPARISON

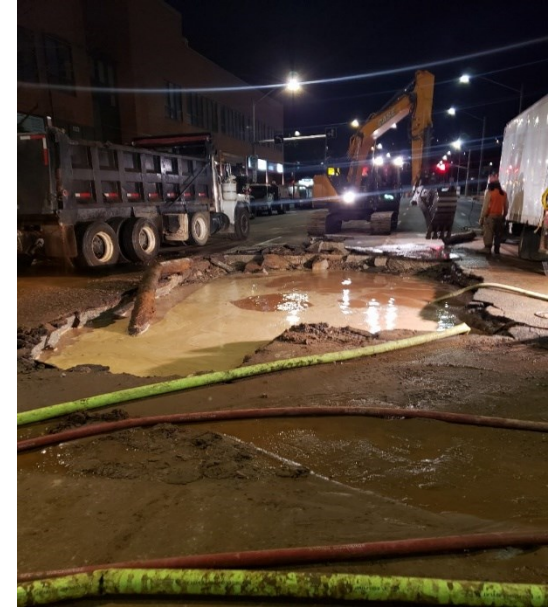


Past 5-year Capital Approved Budget Average (2017-2021) and Future 10-year Capital Rates Budget Average (2022-2031) includes Grants. Approved Budget includes investment to existing infrastructure (excludes Maintenance, System Enhancement and Growth).

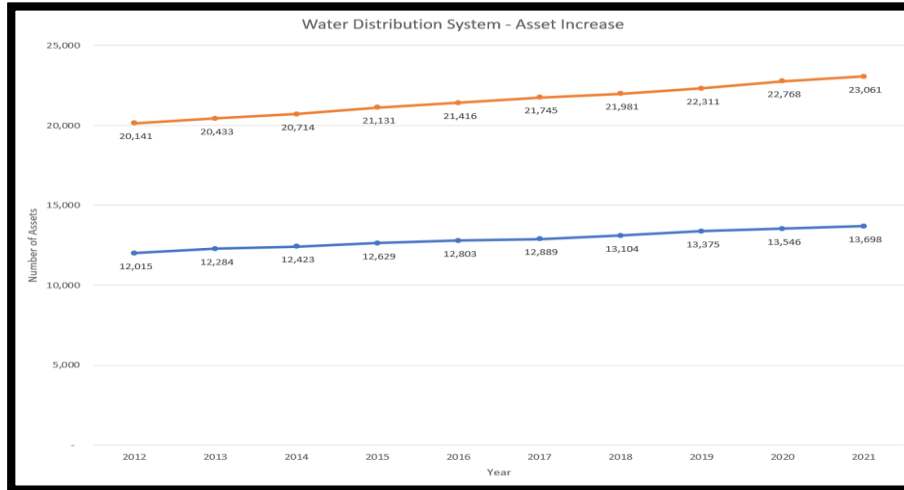
VERTICAL SYSTEM CONDITION


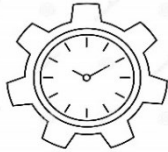








LINEAR SYSTEM CONDITION







 <p>3,000 New Valves</p>	 <p>TIME EFFICIENCY</p> <p>15 – 18 Valves Per Day</p>
 <p>Exercised Every 3 Years</p>	 <p>65 New Days of Work</p>

 <p>1,700 New Hydrants</p>	 <p>\$30 per Hydrant</p>
 <p>\$70 per Hydrant</p>	 <p>\$75K in New Work</p>

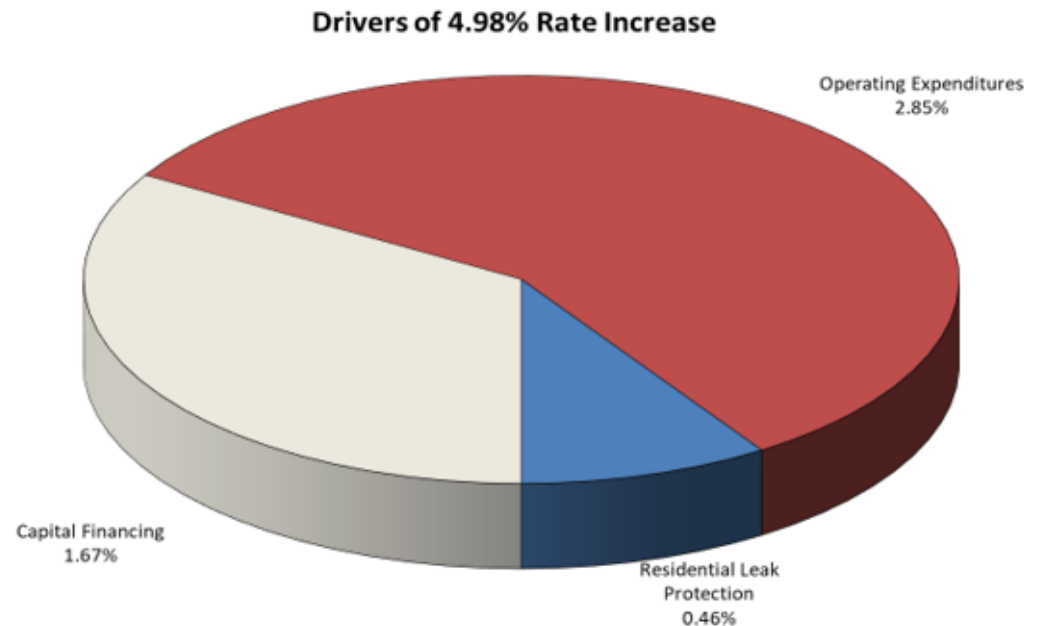
2022 RATE BUDGET

HAMILTON WATER

2022 PROPOSED RATE INCREASE

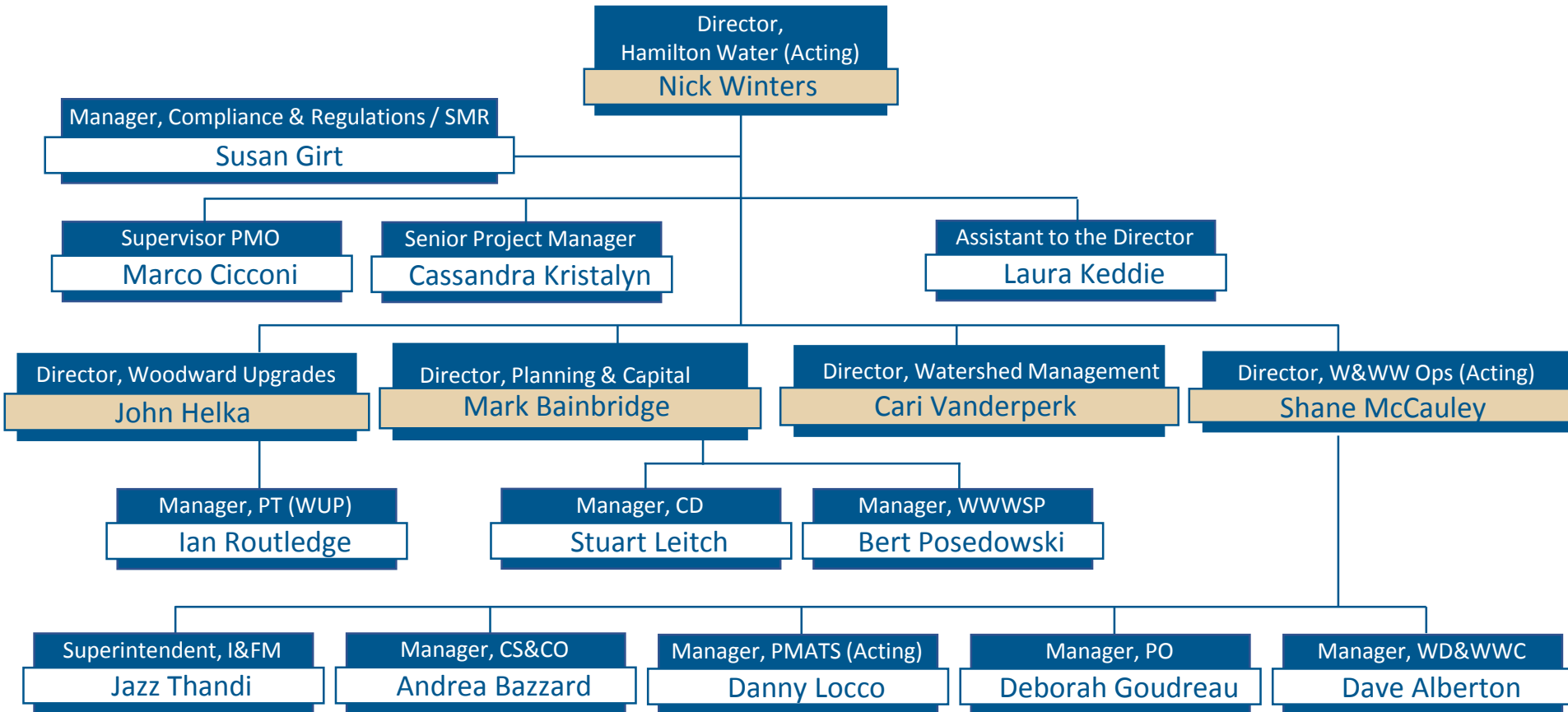
Proposed rate increase - 4.98%

- Operating expenditures have been aligned with historical actuals
- 2022 operating budget increase of 8.6% (\$7.8M)
- Approximately 90% of operating expenditures are fixed in nature
- 2022 rate budget capital and operating expenses
 - Capital expenses - \$159.4M
 - Operating expenses - \$98.4M



2022 OPERATING BUDGET

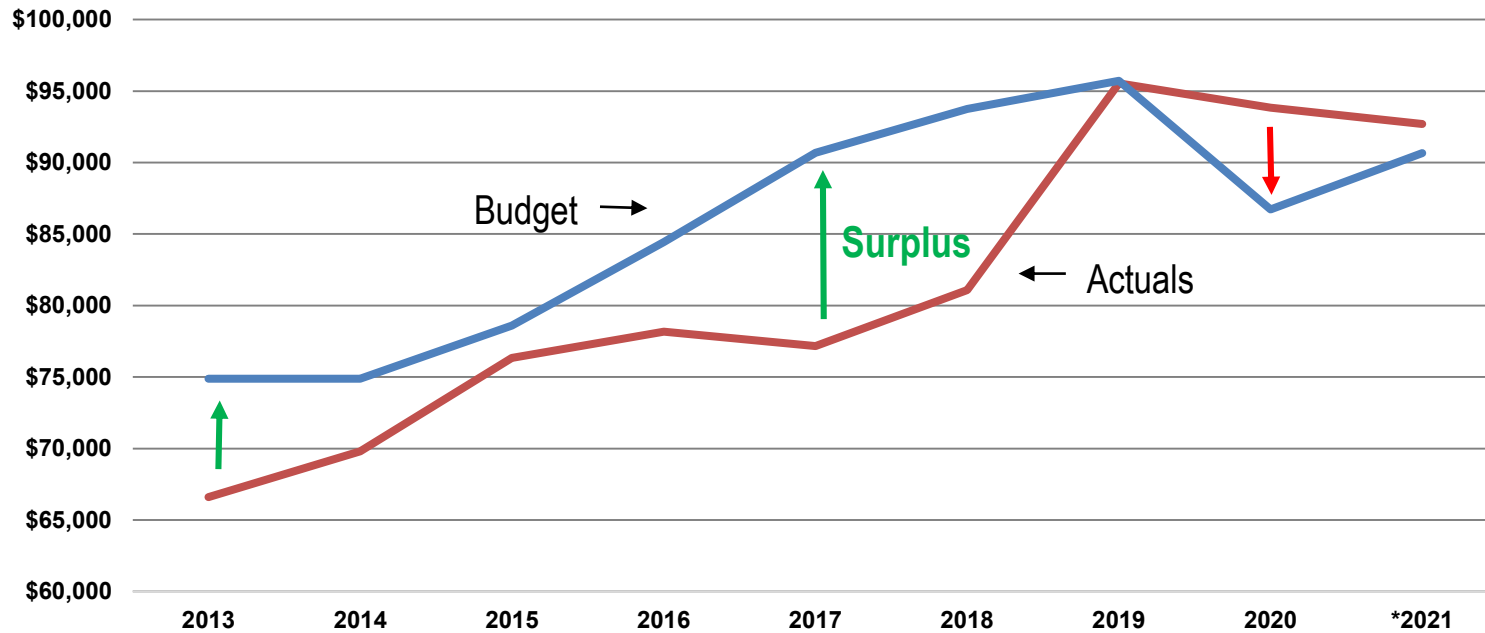
ORGANIZATIONAL CHART



Complement (FTE)	Management	Other	Total	Staff to Mgt Ratio
2021 (Restated)	12.00	325.65	337.65	27.14
2022 (Request)	12.00	335.65	347.65	27.97
Change: 2021 - 2022	-	+ 10	+ 10	

HISTORICAL OPERATIONS VARIANCE

(\$000)



(\$000)	2013	2014	2015	2016	2017	2018	2019	2020	2021
Budget	\$ 74,890	\$ 74,879	\$ 78,602	\$ 84,433	\$ 90,687	\$ 93,738	\$ 95,724	\$ 86,720	\$ 90,652
Actuals	\$ 66,595	\$ 69,799	\$ 76,343	\$ 78,162	\$ 77,162	\$ 81,076	\$ 95,539	\$ 93,842	\$ 92,696
Variance \$	\$ 8,295	\$ 5,080	\$ 2,259	\$ 6,271	\$ 13,525	\$ 12,662	\$ 185	\$ (7,122)	\$ (2,044)
Variance %	11.1%	6.8%	2.9%	7.4%	14.9%	13.5%	0.2%	(8.2%)	(2.3%)

() Denotes unfavourable variance
 * 2021 Actuals are forecasted

2022 OPERATING BUDGET PRESSURES



- Right-Sizing Operational Stormwater Budgets
- Cost Increased due to O. Reg 406/19 (Excess Soils Management)
- 2022 FTE Request (Regulatory Changes + Critical Program Enhancements + Business/Financial Benefits)
- Operating Impacts from Capital (WUP Commissioning)
- Consumable Costs Rising Faster Than Inflation (e.g. Water & Wastewater Treatment Chemicals, Parts & Equipment for Repairs)

2022 RESOURCE REQUEST

SECTION		Last Year's 2022 Request	Current 2022 Request
Director Office		0	0
WUP Office		0	0
Watershed Office		0	0
C&R		1*/3	2
PMO		1	0
P&C	CD	0	0
	WWSP	1	0
Operations	PMATS	2	2
	PO	1	4
	CS&CO	0	0
	WDWWC	4(2)	2
	IFM	0	0
TOTALS		1*/12(10)	10

1 Wastewater Compliance Technologist
1 Environmental Enforcement Officer

1 Project Manager – SCADA
1 Project Manager – Facility Compliance

1 Superintendent/ORO
1 Project Manager – Plant Operations
1 Process Technologist
1 Quality Assurance Analyst

2 Water Distribution Technologists

2022 FTE Savings

FTE Request	Net Impact to Budget
<ul style="list-style-type: none"> ■ Environmental monitoring and enforcement <ul style="list-style-type: none"> • Program has been expanded to provide better control of ICI and construction sewer discharges • Additional revenue generated through sewer discharge permits to offset operational costs • Recommendation – 1 Environmental Enforcement Officer 	<p style="text-align: center;">Full annual cost recovery + environmental protection</p>
<ul style="list-style-type: none"> ■ Plant Operations <ul style="list-style-type: none"> • Operating impact from capital • External consultant used to manage 30 year project agreement • Recommendation – 1 Project Manager 	<p style="text-align: center;">\$75,000/year Reduction + additional benefits</p>
<ul style="list-style-type: none"> ■ Water Distribution leak detection program <ul style="list-style-type: none"> • Pilot program has demonstrated excellent results • Continue to eliminate non-revenue water • Recommendation – 2 Water Distribution Technologists 	<p style="text-align: center;">Full annual cost recovery + additional benefits</p>

2022 TO 2026 RESOURCE REQUEST

SECTION		Last Year's 2022 Request	Current 2022 Request	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast
Director Office		0	0	0	0	0	0
WUP Office		0	0	0	0	0	0
Watershed Office		0	0	1	1	0	0
C&R		1*/3	2	4	1	2	3
PMO		1	0	1	1	0	0
P&C	CD	0	0	1	1	0	0
	WWSP	1	0	1	2	2	0
Operations	PMATS	2	2	0	2	0	2
	PO	1	4	1	1	1	0
	CS&CO	0	0	0	0	0	0
	WDWWC	4(2)	2	0	0	1	2
	IFM	0	0	0	1	1	1
TOTALS		1*/12(10)	10	9	10	7	8

(1) Wastewater Compliance Technologist

- Application Process for Consolidated ECAs + Ongoing Compliance Monitoring
- Responsible for Annual Reporting Requirements for Wastewater & Storm Water Systems
- Supports Wastewater Quality Management System

(1) Environmental Enforcement Officer

- Ongoing Responsibility for Construction Dewatering Program (Additional Resources are Required Based on Increasing Permit Applications)

(1) Project Manager – SCADA

- Implement Cyber Security Program for SCADA System to Satisfy Management Action Plan
- Ongoing Responsibility for the Program Once Implemented

(1) Project Manager – Facilities Compliance

- Contracted Maintenance of Odour Control Equipment
- Designated Substance Program (Asbestos, Lead, etc.)
- TSSA Compliance (Boilers, Diesel Storage Tanks, etc.)
- H&S Compliance (Arc Flash, Crane Certification, Ladder Safety, etc.)

(1) Superintendent/Overall Responsible Operator – Wastewater Collection System

- Responsibilities Embedded in Legislation (Critical Oversight Role)
- Ensure Appropriate Operation/Control of Wastewater Collection Facilities
- Ensure Compliance with Monitoring/Reporting Requirements of Wastewater Collection Facilities

(1) Project Manager – Plant Operations

- Administration of 30-Year Operating Agreement with Harbour City Solutions (Biosolids Facility)
- Oversee Additional Operational Projects & Studies

(1) Process Technologist

- Data Collection, Analysis & Reporting for Wastewater & Storm Water Facilities
- Supports Annual Reporting Requirements
- Responsible for Monthly & Event Based Reporting Requirements
- Supports Regulator Inspections

(1) Quality Assurance Analyst

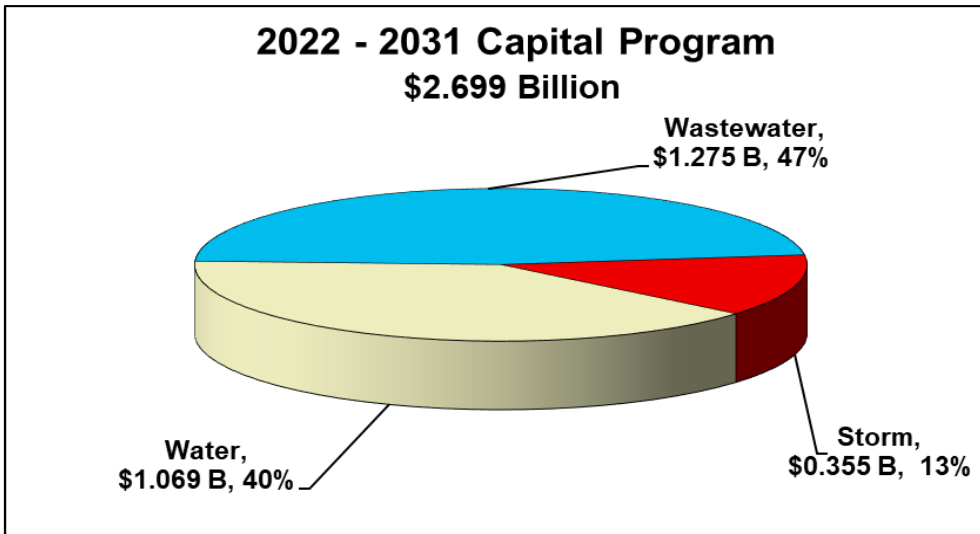
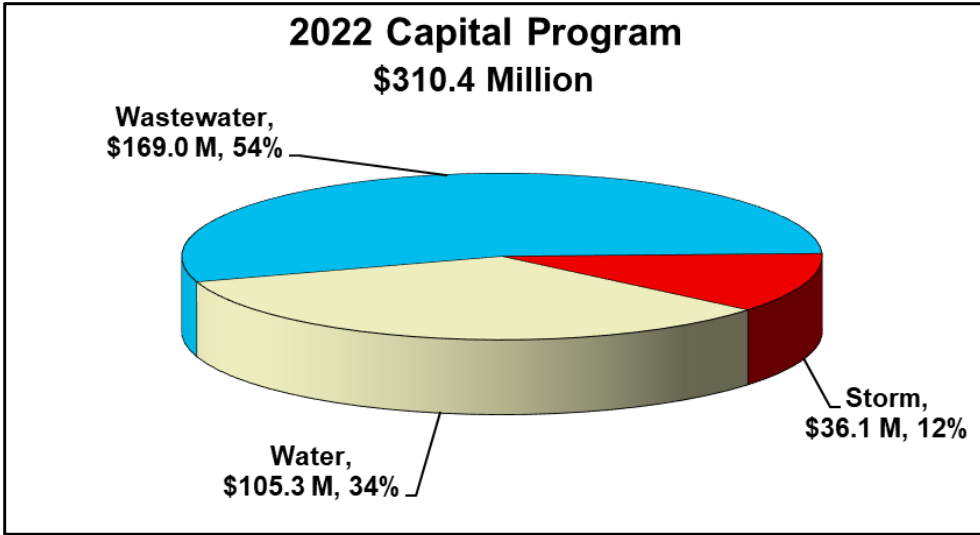
- Supports Wastewater Quality Management System
- Responsible for Control of Compliance Records Related to Operation of Wastewater & Storm Water Facilities

(2) Water Distribution Technologists

- Ongoing Responsibility for Water Distribution System Leak Detection Program
- Support Development Programs (Water Quality Flushing, Hydrant Adapters, etc.)

2022 CAPITAL BUDGET

2022 RATE CAPITAL PROGRAM

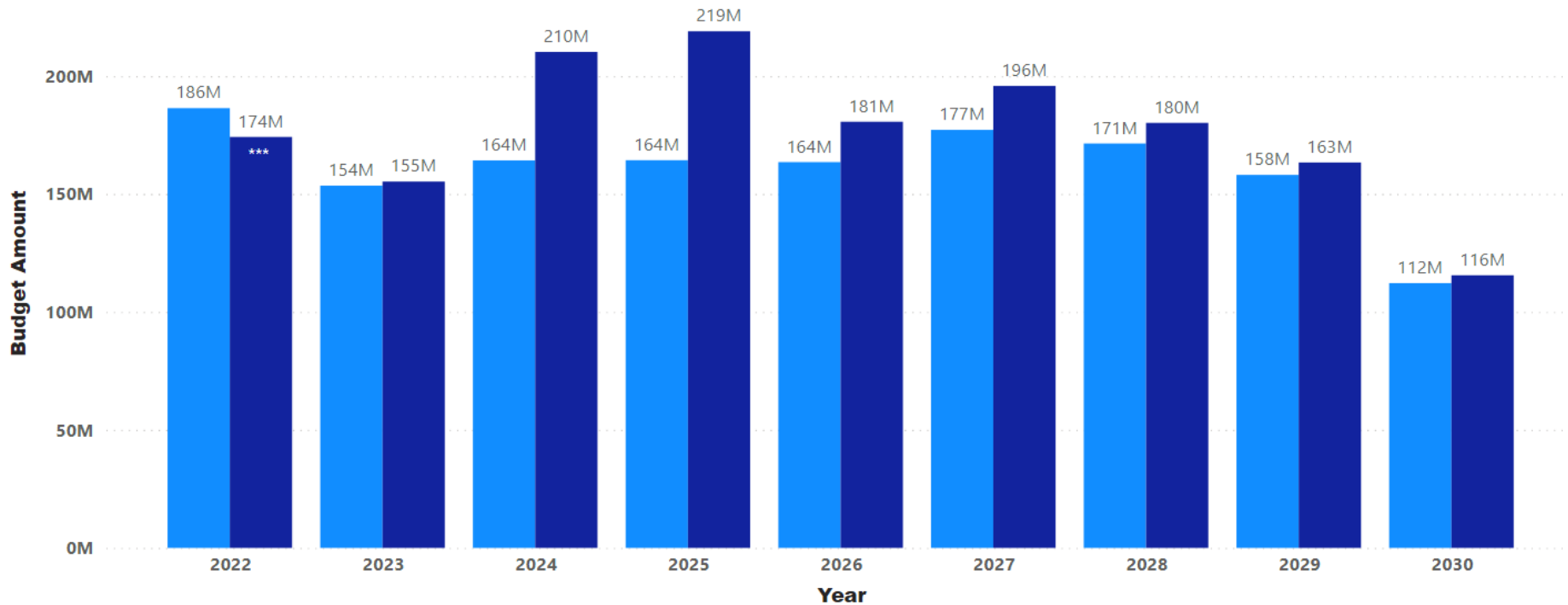


- Gross Capital Program is Shown for 2022 and also for the 10-year Projection
- 2022 Net Capital Increase of \$4.5M from 2021
- \$28M in Reserves Applied to 2022 Request (mostly for Chedoke Order & Watershed Action Plan)
- Stormwater Capital Program Needs Continues to Grow
- Capital Project Estimates are Increasing

2022 – 2031 RATE CAPITAL PROGRAM

Budget Amount by Year and Budget Version

Budget Version ● 2021 Final ● 2022 Recommended

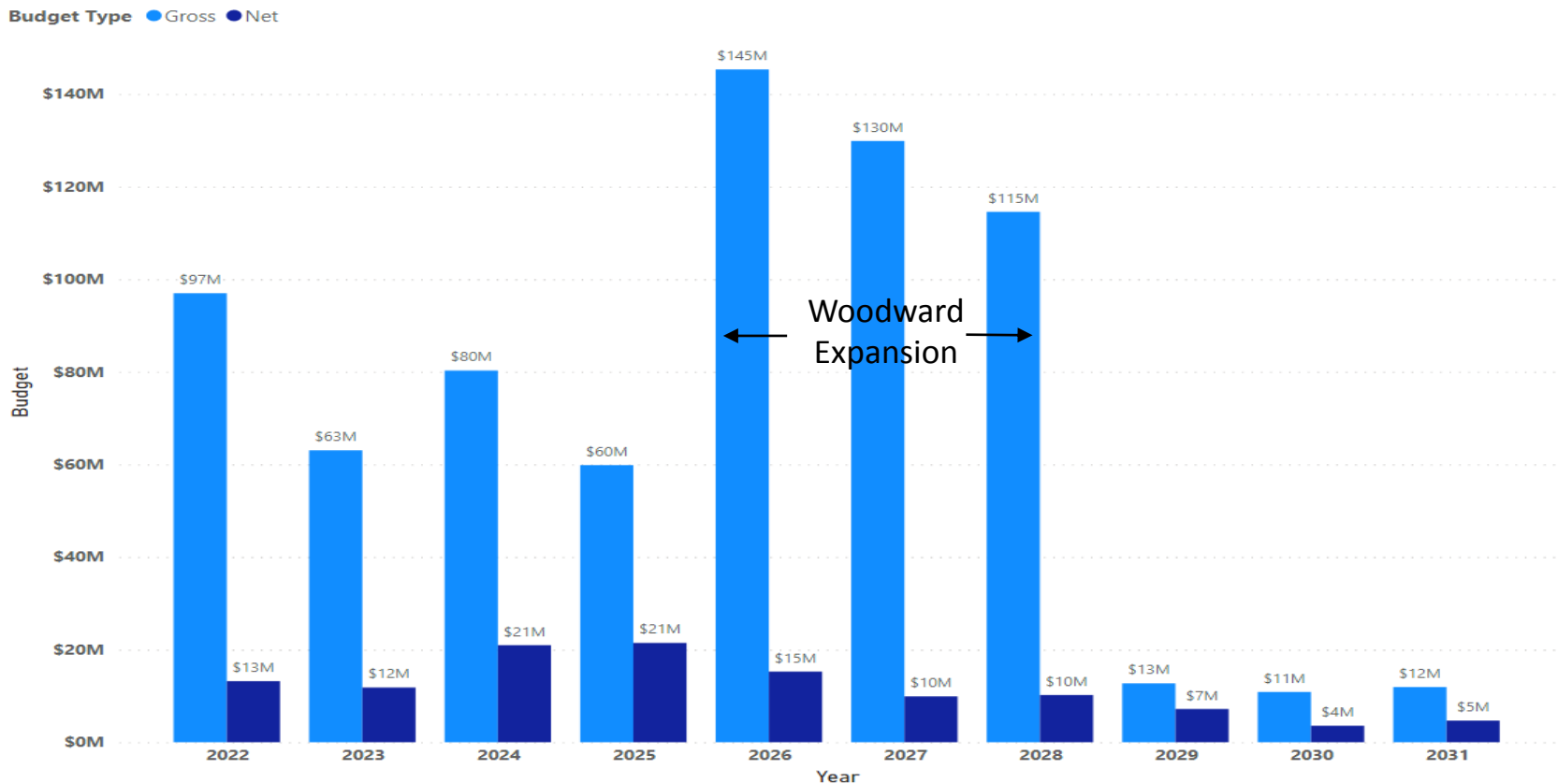


***28M of Rates Reserves applied to 2022 which reduced the Net City Cost

\$150M Net Capital Expenditure increase across the 9 years

- \$97M of Growth Related Capital in 2022 (\$13M Rate Supported & \$84M Development Charge Supported)
- \$726M of Growth Related Capital from 2022 to 2031 (\$118M Rate Supported)

2022 10-Year Rates Gross & Net Capital Budget Request by Growth Related Projects



2022 – 2031 CAPITAL BUDGET PRESSURES

New 2022 Pressures:

- \$11M – Clean Harbour Program – Woodward Upgrades Contract 3
- \$8M – Eastern Sanitary Interceptor – South Service Road
- \$6M – Water Treatment Plant Clearwells – Concrete Restoration

New Multi-Year Pressures:

- \$40M – Coordinated Road & Subsurface Replacement Program (2022 – 2031)
 - Cost Increased due to O. Reg 406/19 (Excess Soils Management)
- \$26M – Woodward WWTP North Plant Rehab (2023 – 2028)
- \$15M – North Digester Ancillary Works (2022 – 2025)
- \$15M – Operating to Capital Transfers (TCAs)
- \$14M – Stormwater Level of Service Enhancements (2022 – 2031)
- \$4.5M – Hamilton Water Capital Security Plan (2022 – 2031)
- \$30.6M – Chedoke Creek Order and Watershed Action Plan Projects



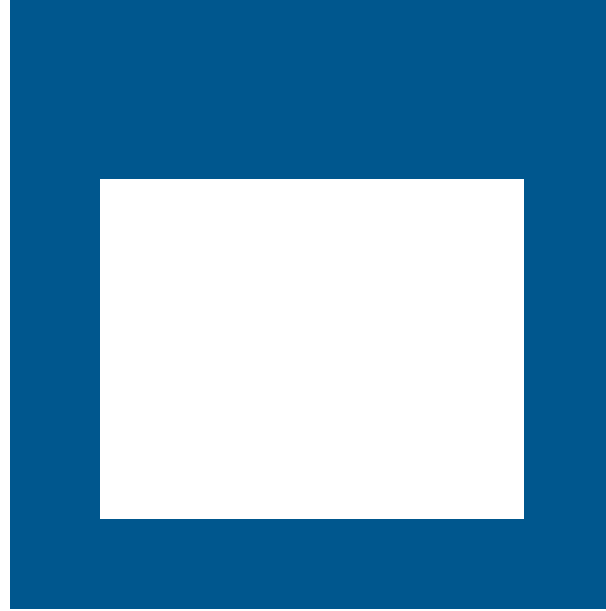
PRESSURES/RISKS NOT IN THE BUDGET

- Climate Change & Other Emergencies
- O. Reg 588/17 – Level of Service Enhancements
- WTP Chlorine Supply and Disinfection Strategy
- Flooding and Drainage Master Servicing Study
- Dundas WWTP Upgrades
- Outcome of Chedoke Creek & Watershed EAs
- Watershed Action Plan - HHRAP Objectives



- Recommending a 4.98% Rate Increase for 2022
- Recommending the Approval of 10 New FTEs in Response to Regulatory Changes, Capital Impacts, and to Realize Business/Financial Benefits
- Operating Pressures Include Right-Sizing of the Budget, Operating Impacts from Capital, Responding to Changing Regulations, and Higher than Predicted Cost Increases for Chemicals and other Equipment/Materials
- The Water Leak Adjustment Program requires a 0.46% Rate Increase to Achieve 'Cost Neutrality' for the City
- The Capital Program has Increased Costs both in 2022 and Across the 10-year Projection





THANK YOU

6.1



Hamilton

2022 Water, Wastewater and Stormwater Budget

2022 RATE BUDGET

Snap Shot

Operating

- **\$257.9 M** Total Program Expenditures
- **\$254.9 M** Rate Revenue
- **\$3.0 M** Non-Rate Revenue

Recommended Combined Rate
Increase 4.98%

Capital

- **\$310.4 M** Rate Capital Program
 - 54% Wastewater
 - 34% Water
 - 12% Storm
- **\$2.70 B** capital investment forecast (2022 to 2031)
- **\$0.17 B** increase from last year's 10-year forecast

2022 RATE BUDGET

2022 RATE OPERATING BUDGET

By the Numbers

Summary of the 2022 Operating Budget				
(\$ millions)	2021 Restated Budget	2022 Requested Budget	2022 Requested / 2021 Restated Change	
			\$	%
Expenditures				
Program Expenditures	\$ 90.7	\$ 98.4	\$ 7.8	8.6%
Capital/Debt / Reserve Financing	\$ 154.9	\$ 159.4	\$ 4.5	2.9%
Total Expenditures	\$ 245.6	\$ 257.9	\$ 12.3	5.0%
Revenues				
Rate Revenue	\$ 242.7	\$ 254.9	\$ 12.2	5.0%
Non-Rate Revenue	\$ 2.9	\$ 3.0	\$ 0.1	3.0%
Total Revenue	\$ 245.6	\$ 257.9	\$ 12.3	5.0%
Average Residential Water / Wastewater / Storm Bill	\$ 784.80	\$ 823.85	\$ 39.05	4.98%

Note: Anomalies due to rounding

2022 RATE CAPITAL BUDGET

Sources of Funding

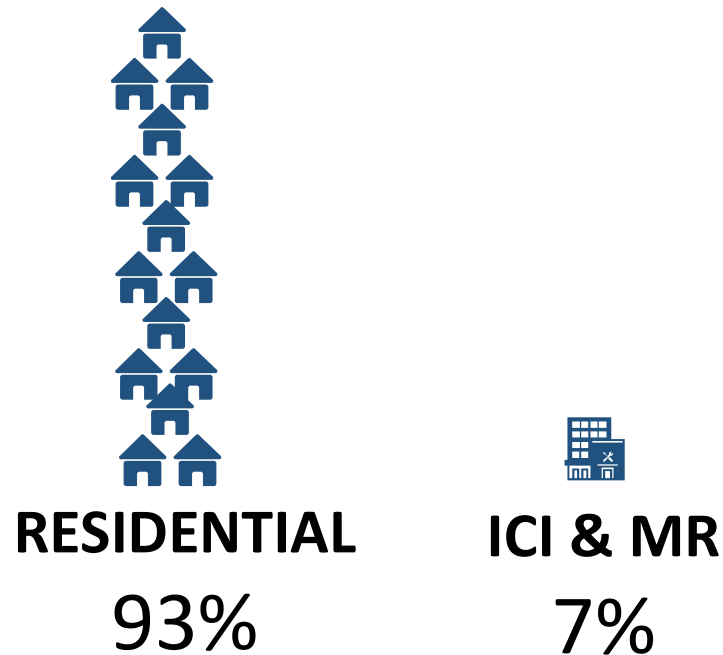
\$ 7.6 M Grants, Subsidies & Other Revenues +
\$ 84.5 M Development Charges +
\$125.1 M from Operating +
\$ 28.9 M Reserves +
\$ 15.2 M Work-in-progress (WIP) +
\$ 49.1 M Debt

= \$310.4 M Gross Capital Funding

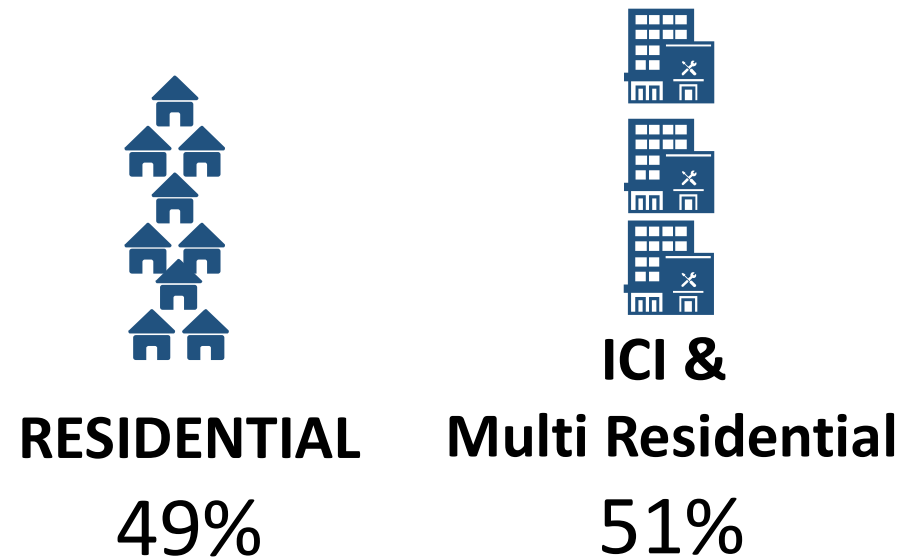
2022 METERED ACCOUNTS & REVENUE BY SECTOR

Where the \$ come from

Metered Accounts by Sector



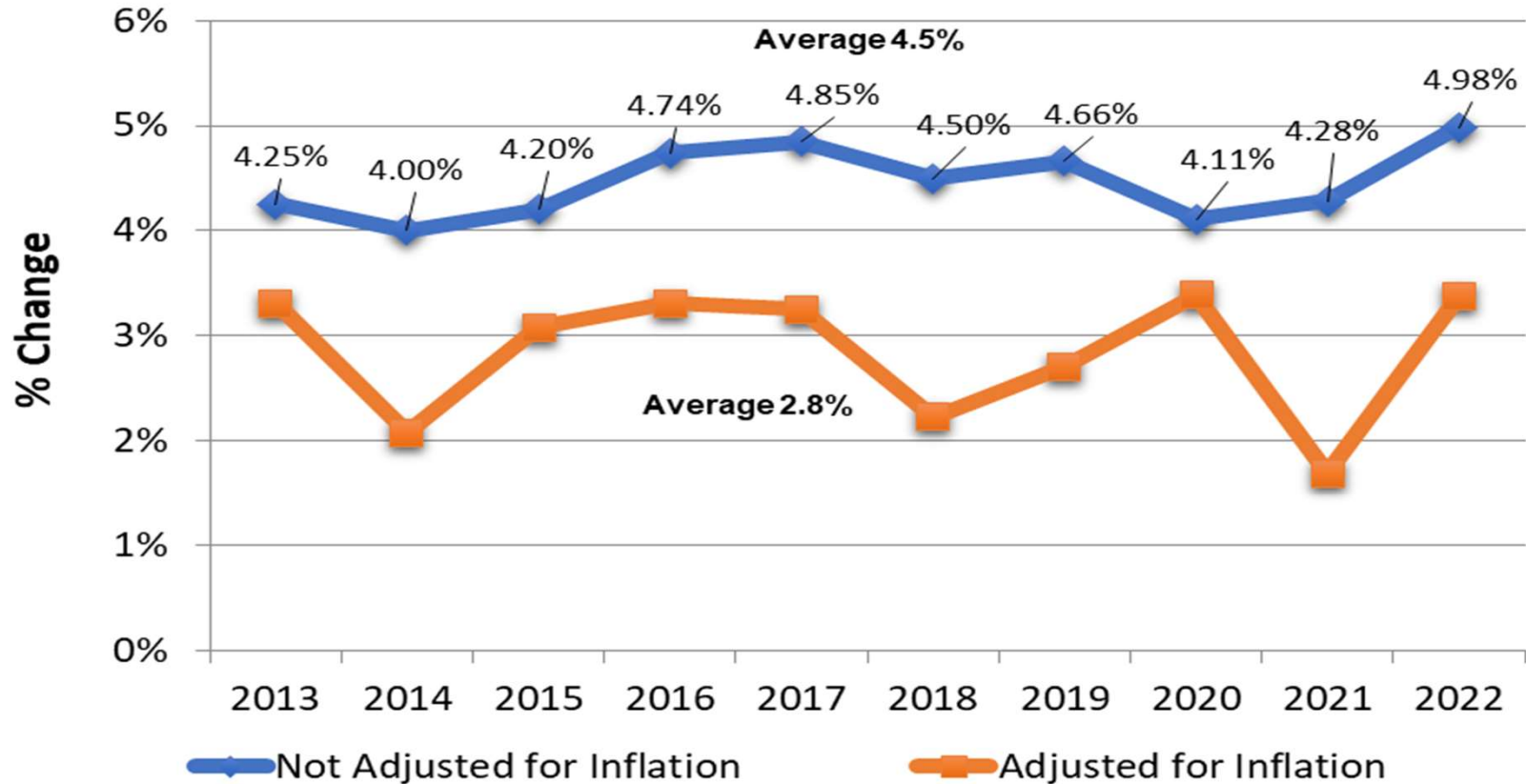
Consumption by Sector



FINANCING STRATEGY

10 YEAR RATE INCREASE TREND

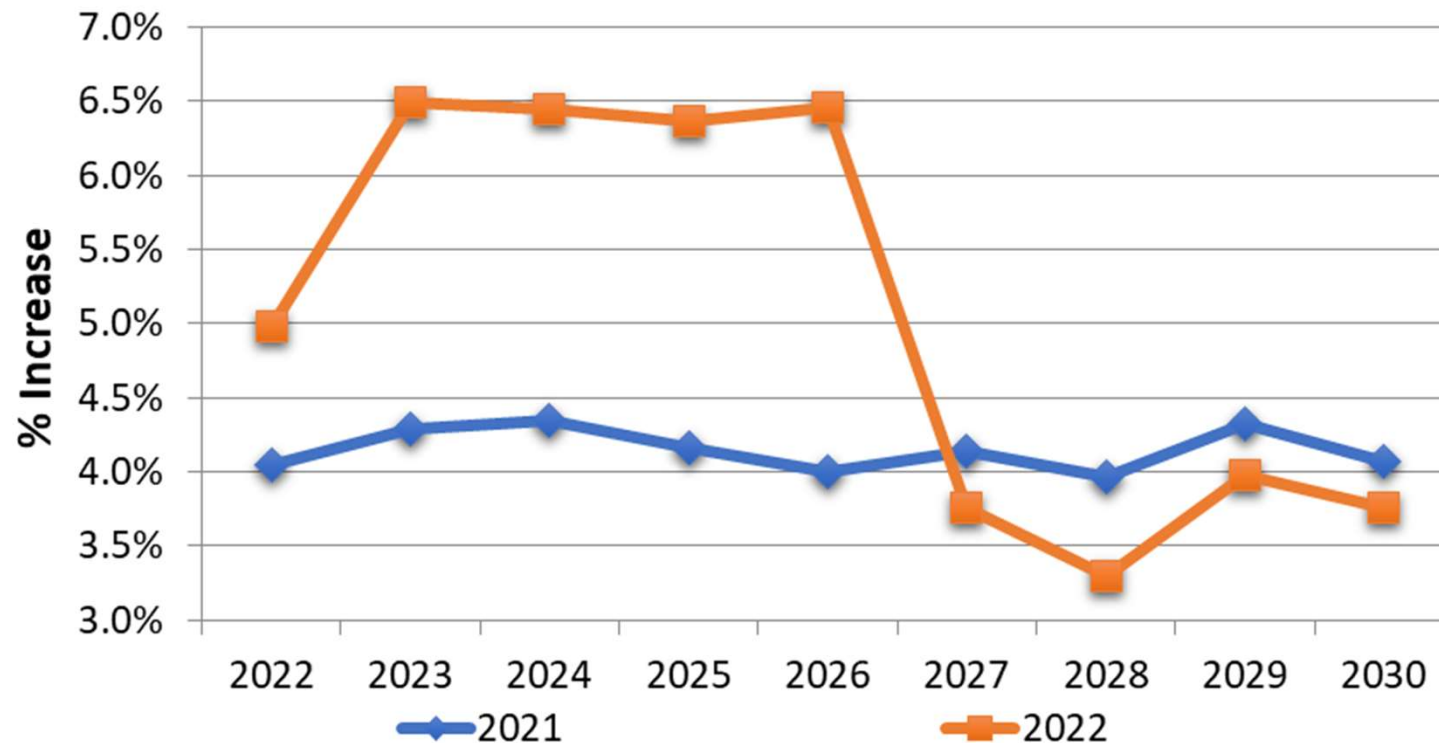
Water & Wastewater/Storm Rate Changes 2013 to 2022



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Average Res. Increase	\$ 24.00	\$ 23.22	\$ 24.10	\$ 28.55	\$ 30.60	\$ 29.75	\$ 32.20	\$ 29.70	\$ 32.20	\$ 39.05

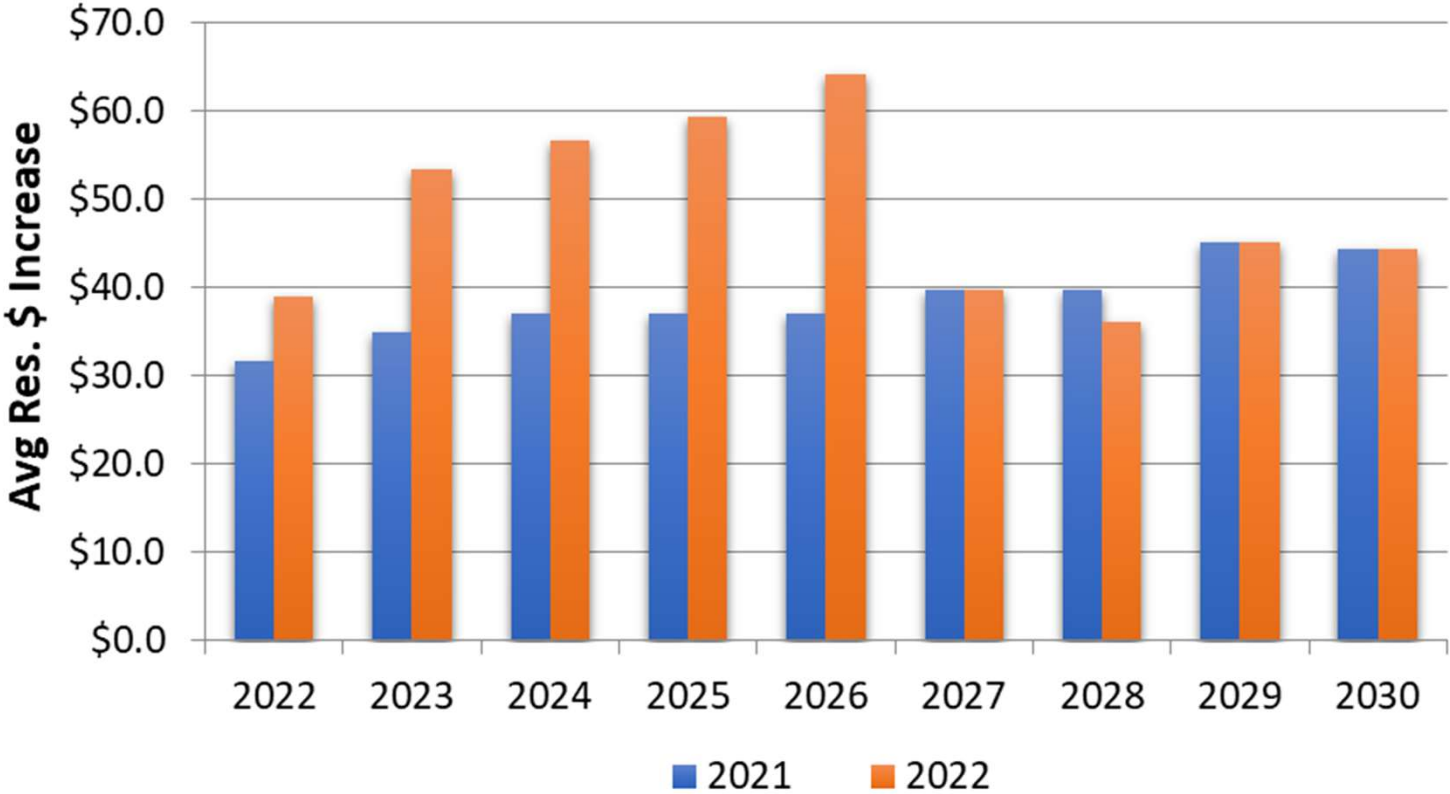
2022 RATE SUPPORTED FINANCING STRATEGY

2021 vs 2022 Financing Strategy

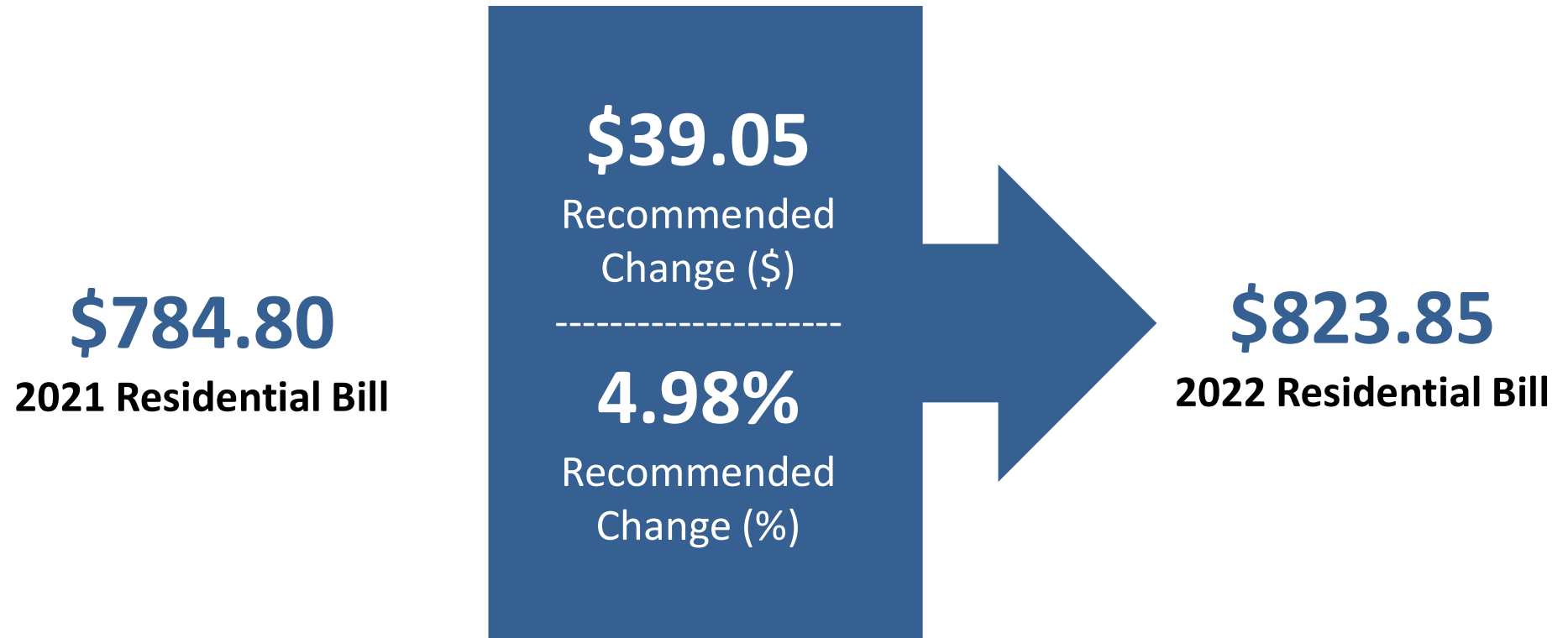


2022 RATE SUPPORTED FINANCING STRATEGY

2021 vs 2022 Financing Strategy



2022 RESIDENTIAL AVERAGE BILL

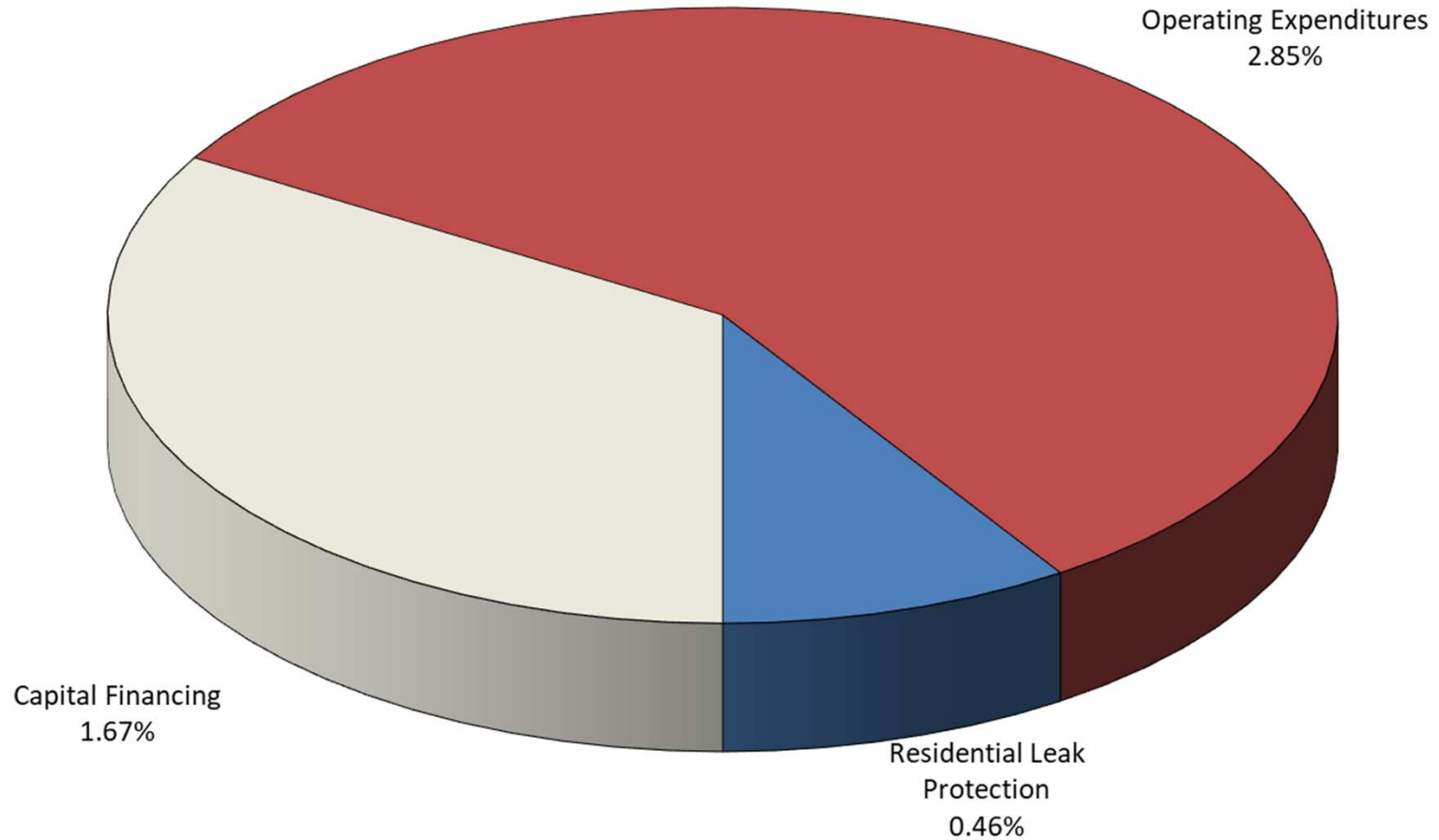


Impact of Recommended 2022 Water and Wastewater/Storm Rate Increases on a Typical Residential Bill: 4.98%

Based on annual water consumption of 200m³

2022 RATE INCREASE SUPPORTS

Drivers of 4.98% Rate Increase



CONSUMPTION TRENDS AT A GLANCE

RESIDENTIAL WATER CONSUMPTION



2013

2021

+ 11,100 accounts
8.3% increase



2013

2021

+ 4.9% increase
in consumption

4 YEAR WATER CONSUMPTION FORECAST (M³)



2022 → 2025
SLIGHT GROWTH
Residential



2022 → 2025
CONSISTENT
ICI/ Multi Res



(Aldershot
Water Only)

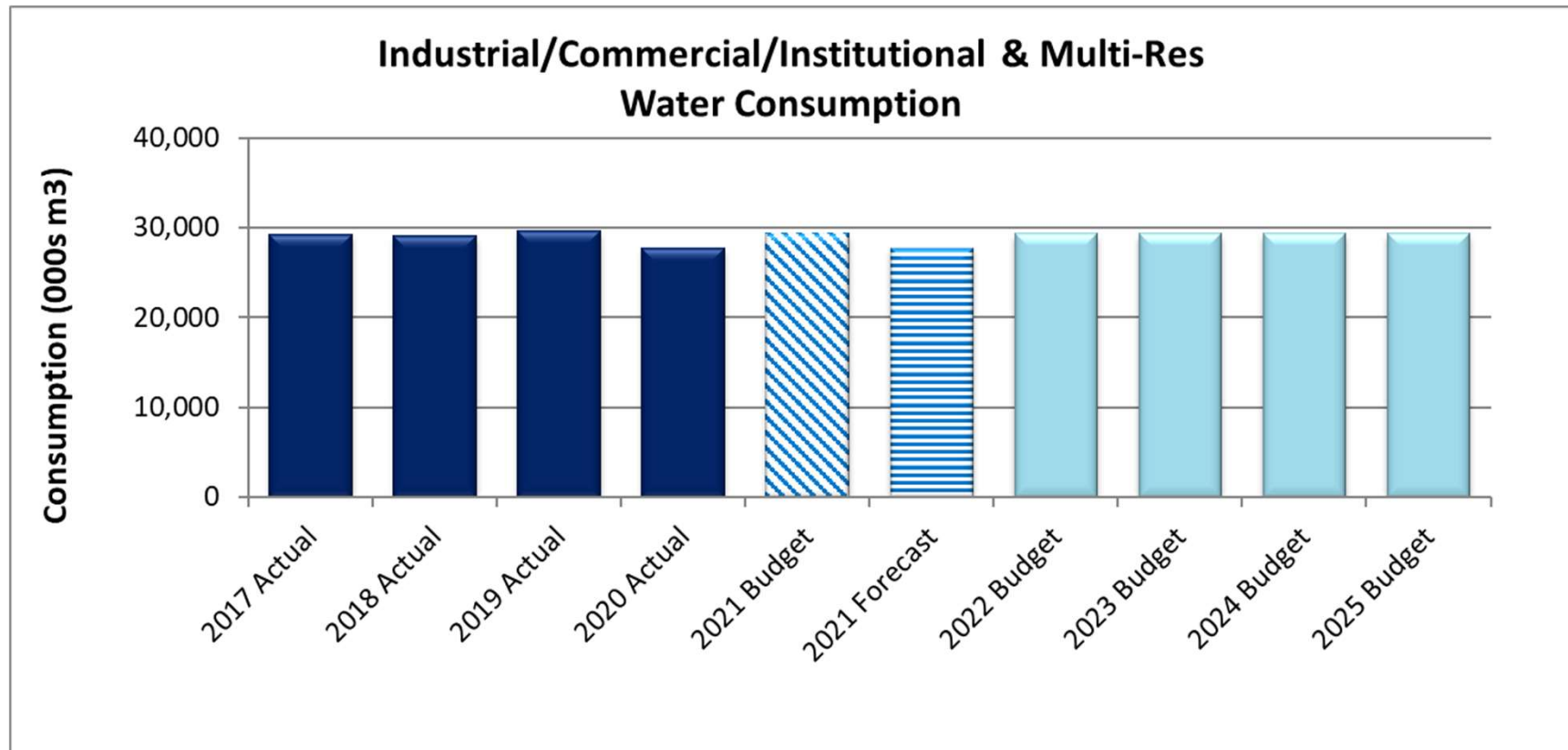
2022 → 2025
CONSISTENT



(Caledonia & Cayuga
Water Only)

2022 → 2025
CONSISTENT

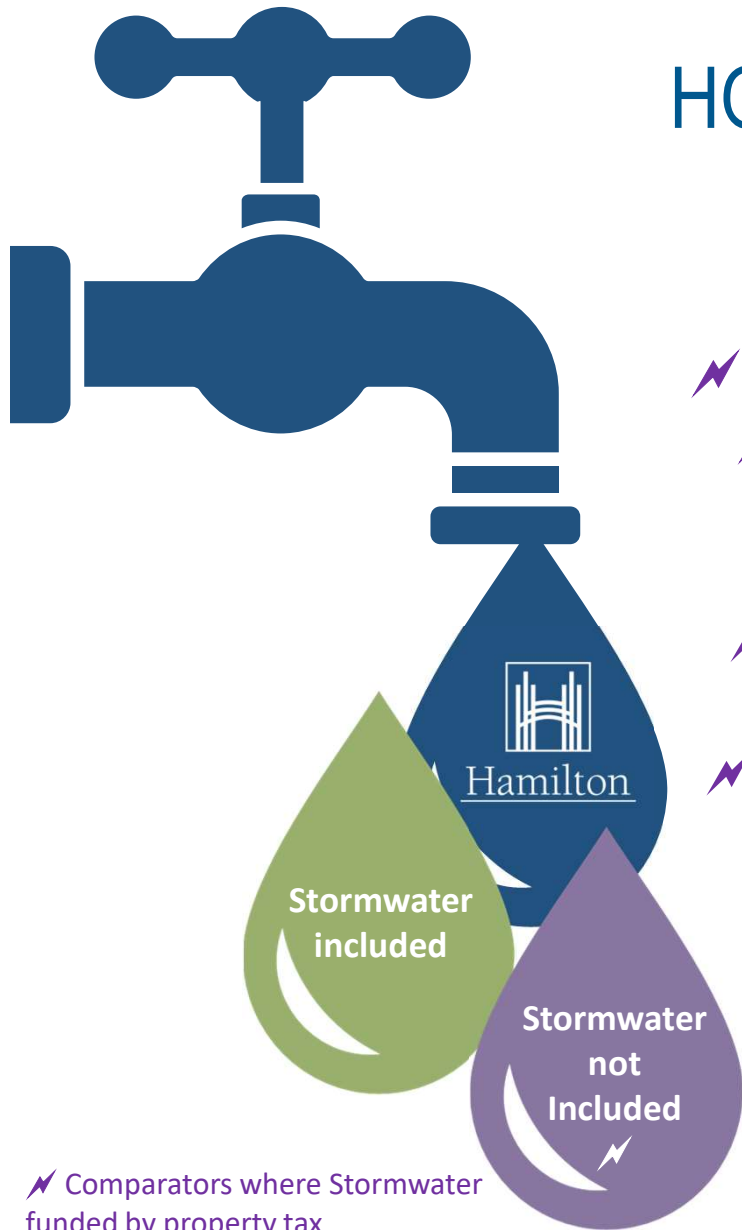
ICI & MR CONSUMPTION FORECAST



Consumption remains very consistent at just under 30M m³

MUNICIPAL COMPARATORS AFFORDABILITY

HOW DOES HAMILTON COMPARE?



- Kitchener: \$1,525**
- ⚡ **Norfolk: \$1,452**
- ⚡ **West-Lincoln: \$1,216**
- ⚡ **Cambridge: \$1,171**
- London: \$1,155**
- Waterloo: \$1,048**
- ⚡ **Haldimand: \$1,043**
- Guelph: \$1,041**
- ⚡ **St. Catharines: \$992**
- ⚡ **Brantford: \$961**
- ⚡ **Halton: \$925**
- ⚡ **Durham: \$920**
- Toronto: \$827**
- Hamilton: \$785**
- Peel: \$662**

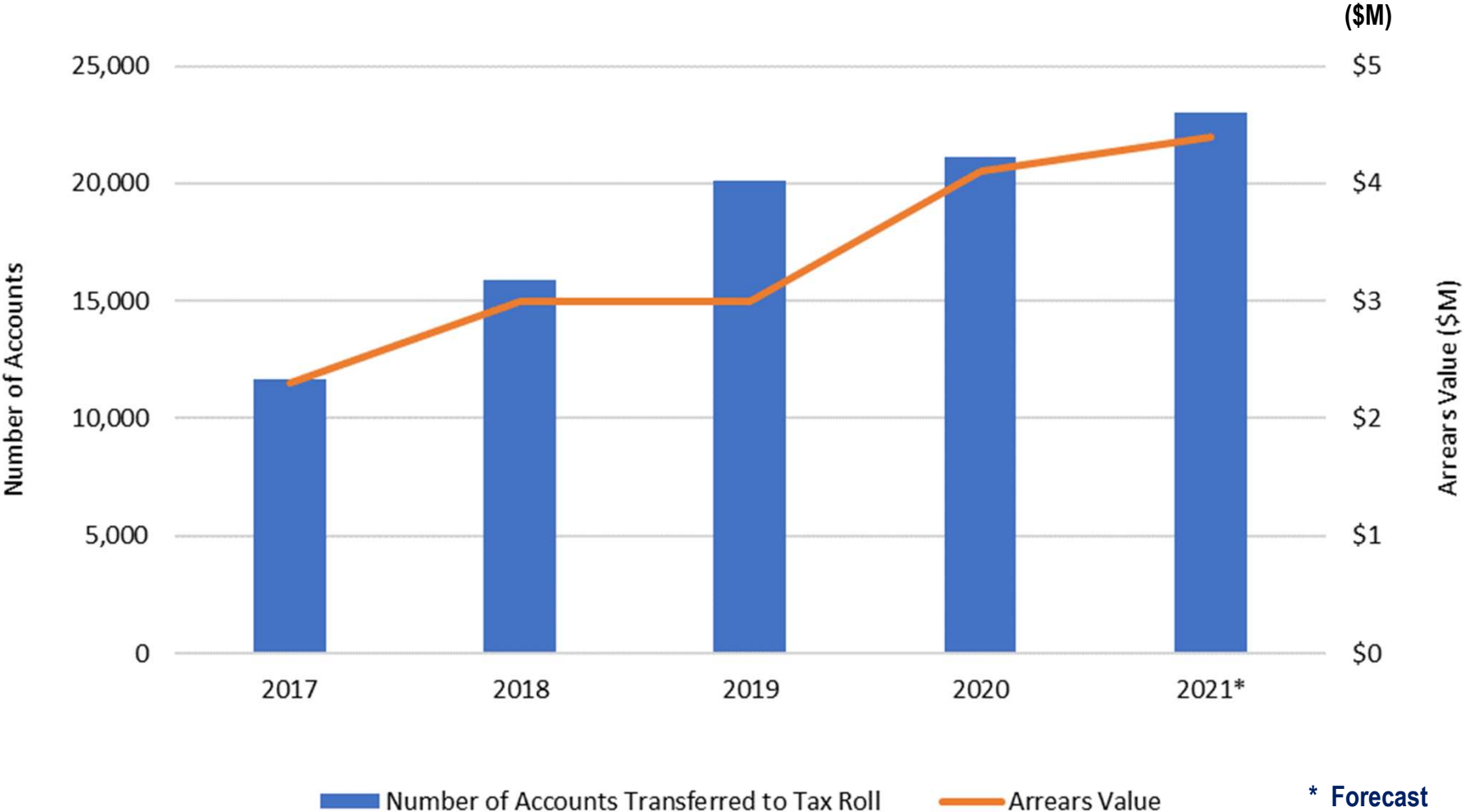
2021 Water Bill Residential
200m³/ (year)

Survey Average
\$1,048

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

⚡ Comparators where Stormwater funded by property tax

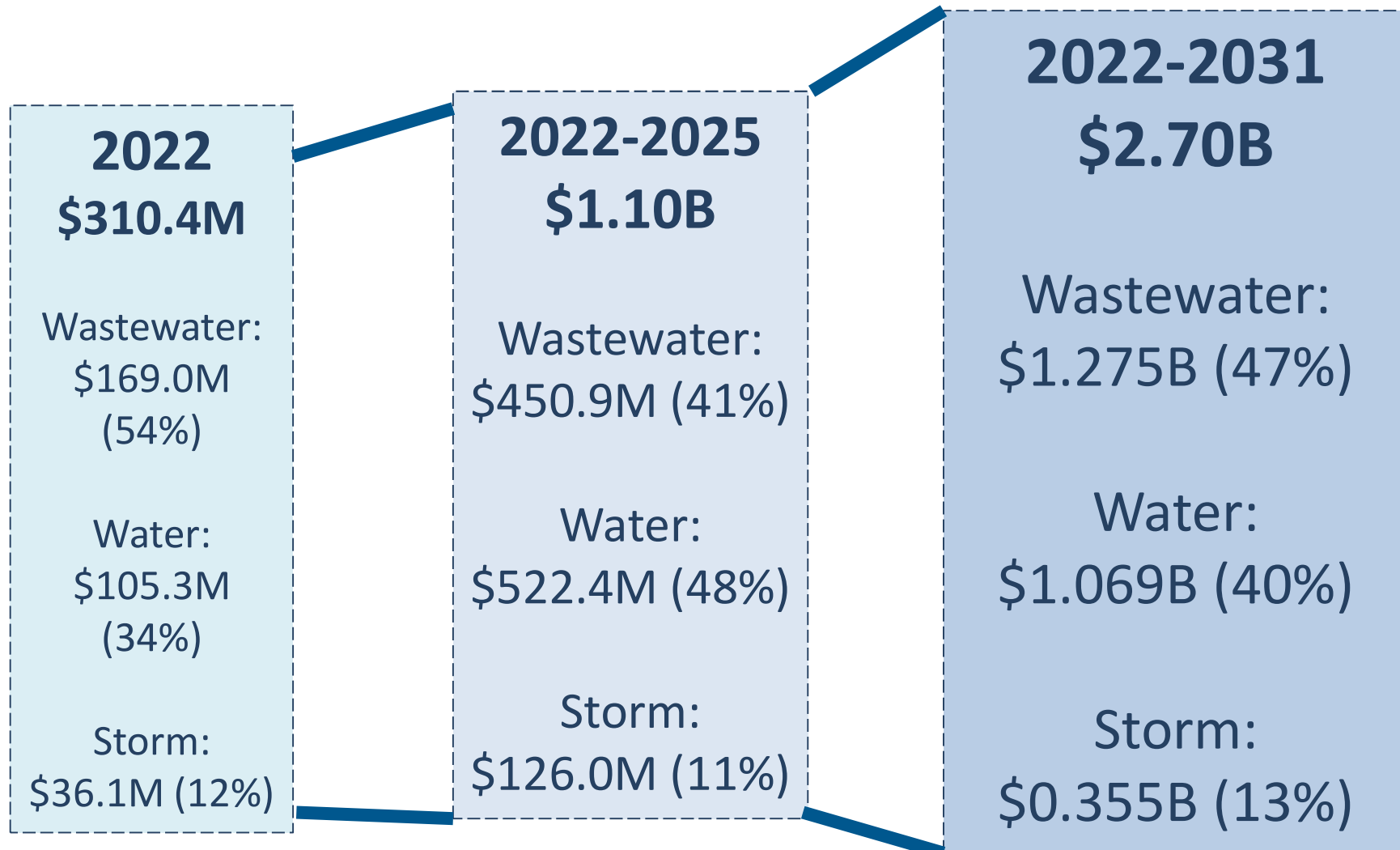
ARREARS TAX ROLL TRANSFERS



CAPITAL INVESTMENT AT A GLANCE

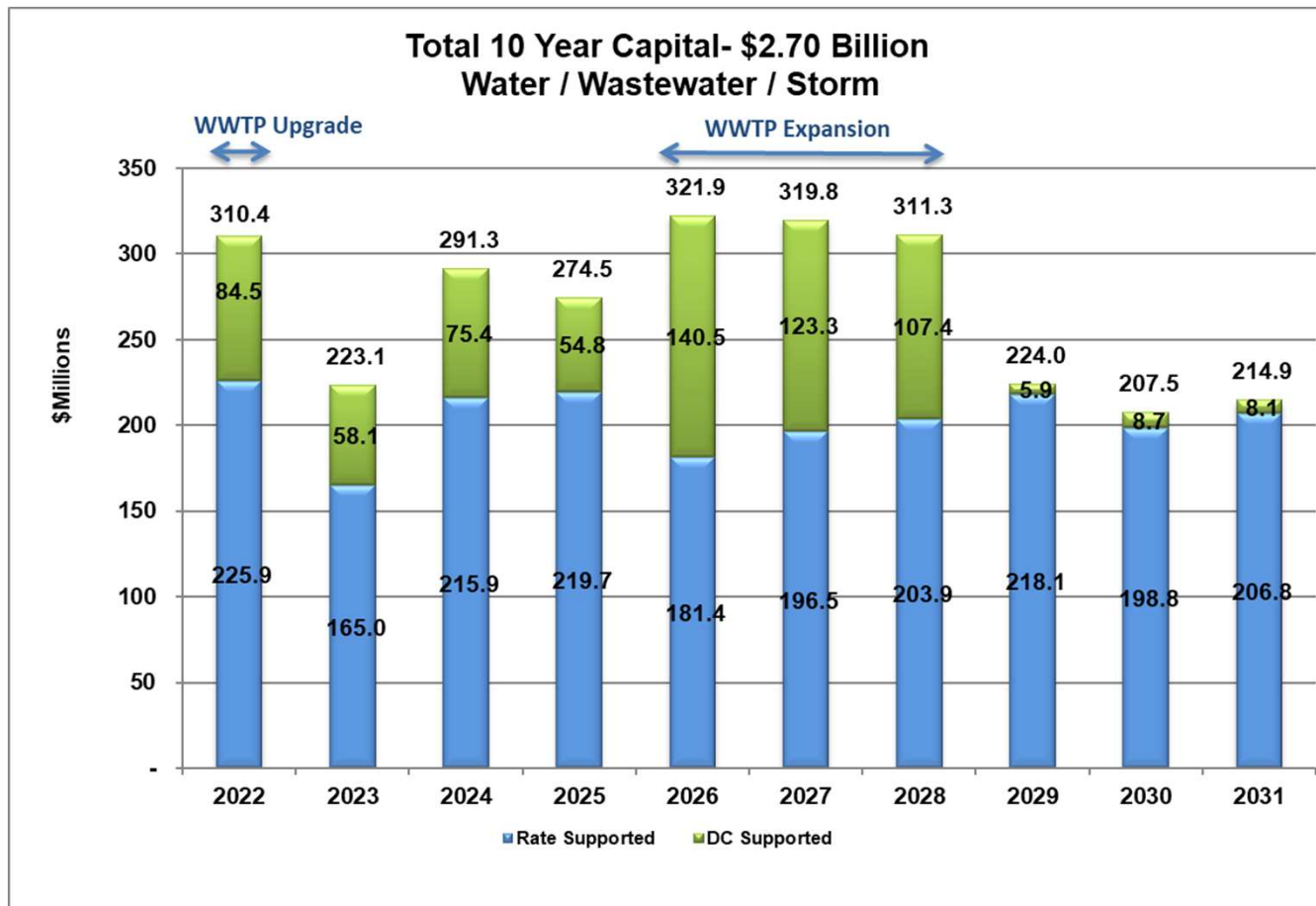
LONG TERM CAPITAL PROGRAM

At a Glance



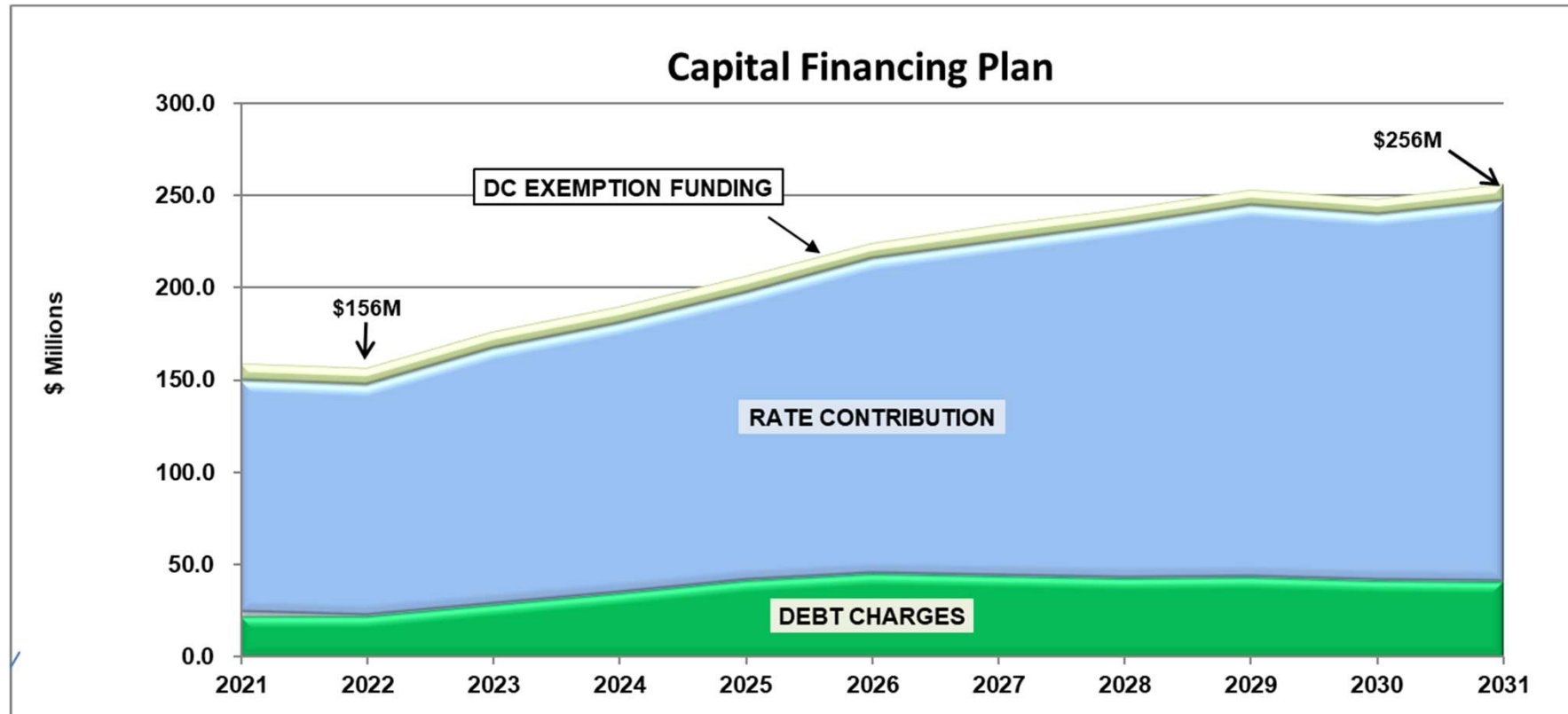
10 YEAR CAPITAL PROGRAM

How much we plan to spend



10 YEAR CAPITAL STRATEGY

How will we pay for it

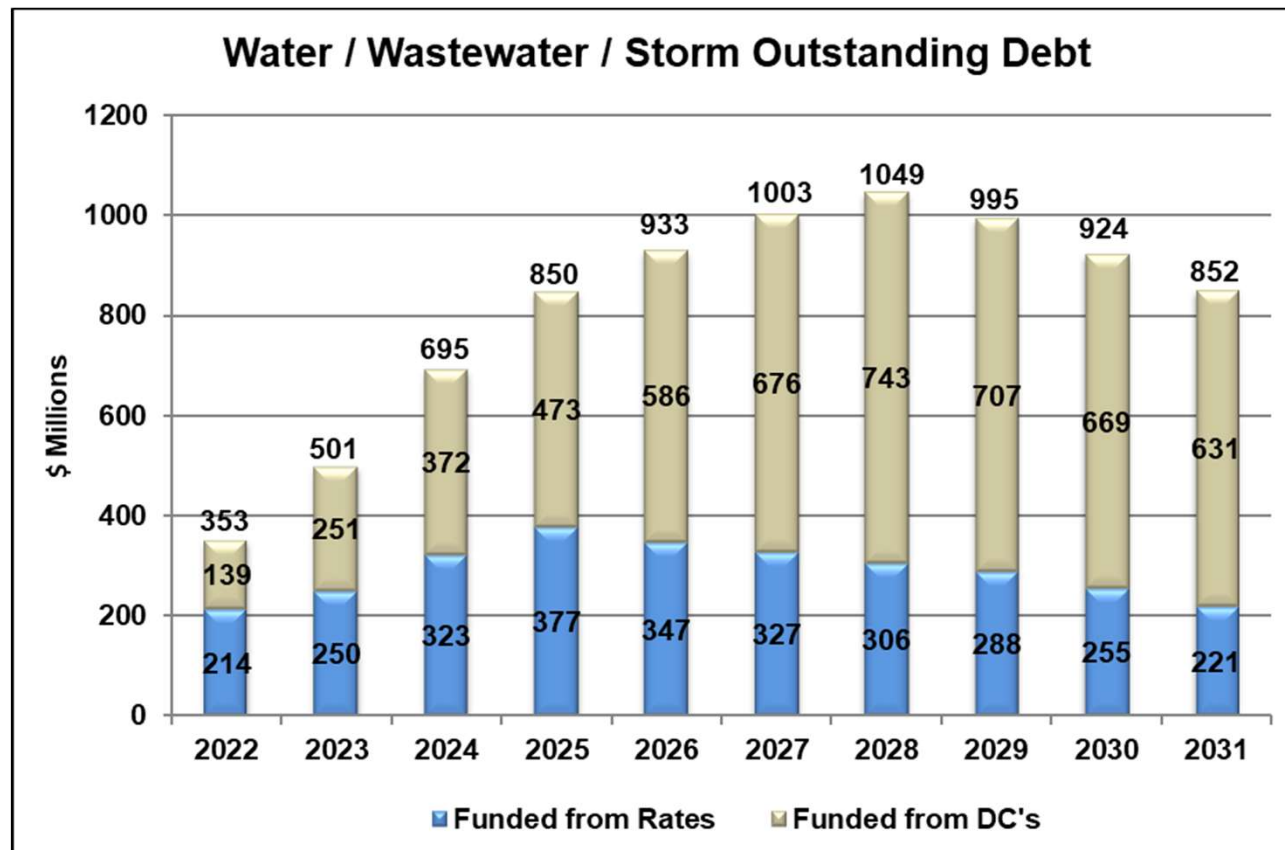


Contribution to capital increasing from \$156M in 2022 to \$256M in 2031
Largely due to increase in capital construction

DEBT FUNDING AT A GLANCE

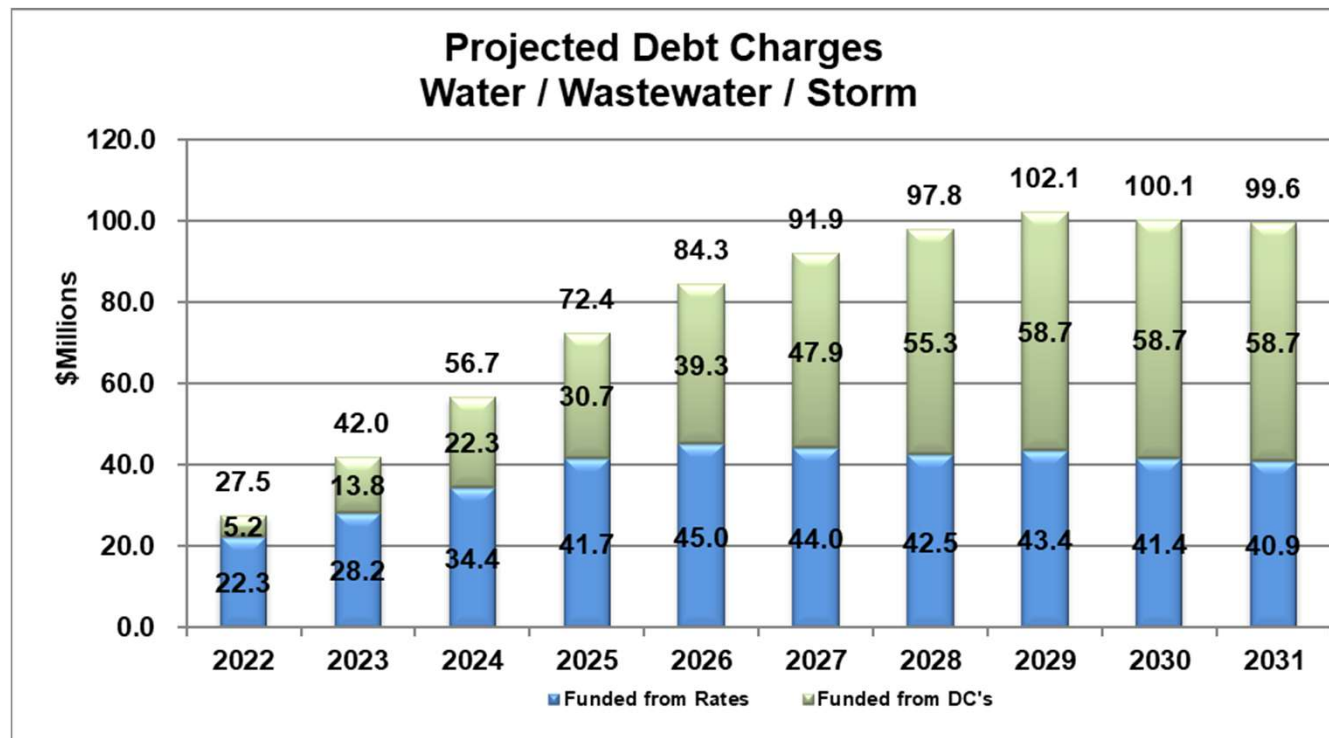
10 YEAR CAPITAL STRATEGY

What does our debt look like?



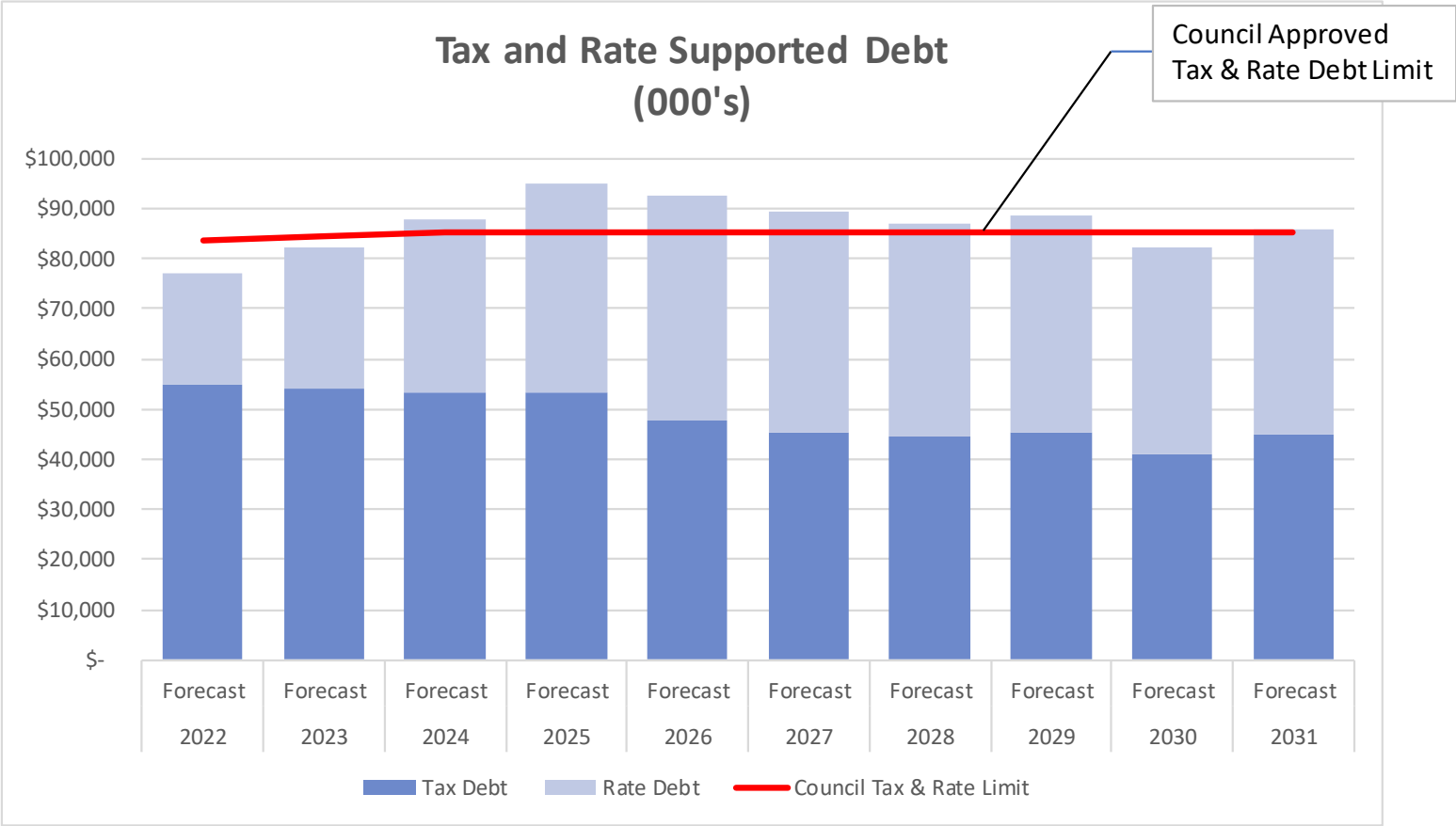
10 YEAR CAPITAL STRATEGY

How much does our debt cost?



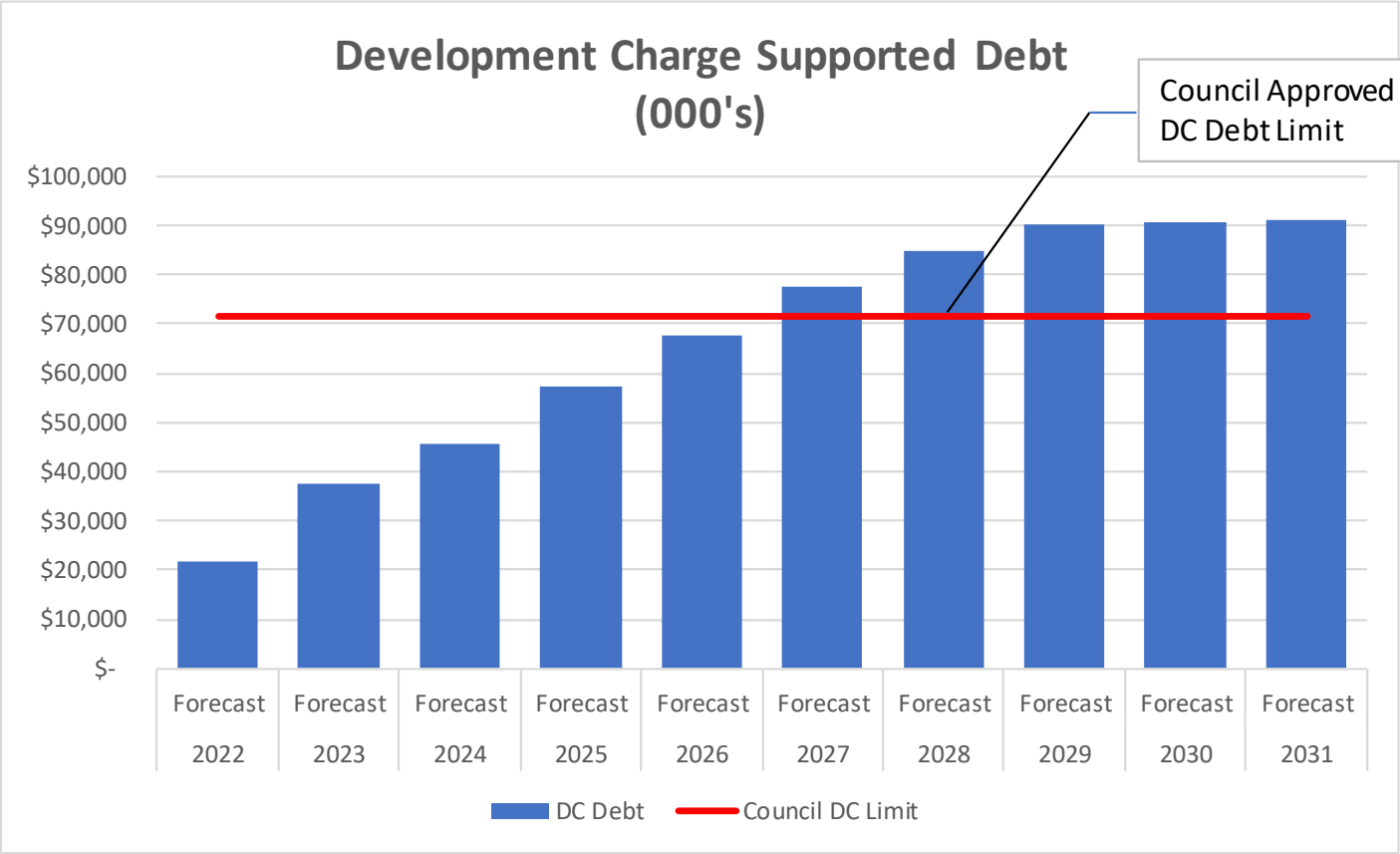
10 YEAR CAPITAL STRATEGY

How much does our debt cost?



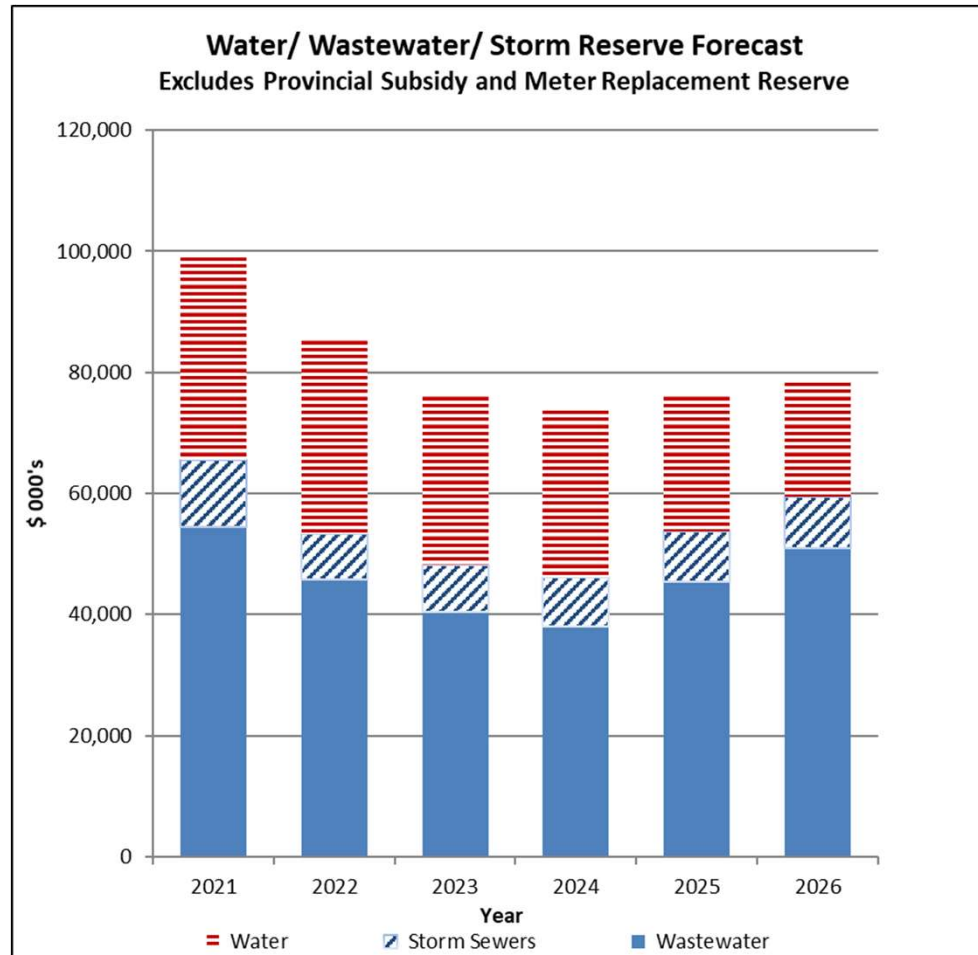
10 YEAR CAPITAL STRATEGY

How much does our debt cost?



10 YEAR CAPITAL STRATEGY

How much reserves will we use?



PROPOSED NEXT STEPS

Nov 24, 2021	Council Approval of 2022 Rate Budget
Nov 30, 2021	GIC Rate Budget Meeting (note 1)
Dec 15, 2021	Council Approval of 2022 Rate Budget (note 2)

Note:

1. If needed
2. Council approval of the 2022 Rate Budget on Dec 15, 2021, if it is not approved at GIC on Nov 22, 2021



THANK YOU