

DRAFT RATE SUPPORTED
**OPERATING BUDGET &
CAPITAL FORECAST**
WATER & WASTEWATER



2024



Haldimand
County



2024 Rate Supported Water & Wastewater Operating Budget and Capital Forecast

Table of Contents

Chief Financial Officer Report 6

Treasurer’s Report..... 8

Government Structure of Haldimand County 25

Mayor and Council of Haldimand County 26

Haldimand County Senior Management..... 26

Public Works Organizational Chart..... 27

Engineering and Capital Works Organizational Chart..... 28

2024 Rate Supported Operating Budget

Narrative 30

Operating Summary 1 – Average Customer Impacts..... 31

Operating Summary 2 – New Initiatives 32

Operating Budget – Water and Wastewater Summary..... 33

Operating Budget – Water Summary..... 34

Water Administration 35

Water Treatment General..... 36

Water Distribution General..... 37

Water Fees and Charges 38

Water User Rates Revenue 39

Operating Budget - Wastewater Summary..... 40

Wastewater Administration	41
Wastewater Treatment General	42
Wastewater Collection General	43
Wastewater Fees and Charges	44
Wastewater User Rates Revenue	45
Operating Appendix A – Rate Stabilization Reserves	46
Operating Appendix B – Consumer & Consumption Statistics	47
Operating Appendix C – 2024 Water & Wastewater User Fee Schedules	48

2024 Rate Supported Capital Forecast

Capital Summary 1 – Project Changes over \$100,000	58
Capital Summary 2 – 2024 Ten Year Forecast – Co-ordinated Projects	65
Capital Summary 3 – Net Capital Financing from Water & Wastewater Rates	68
Water & Wastewater Capital Forecast - Summary	70
Water Capital Forecast – Summary	71
Wastewater Capital Forecast – Summary	86
Capital Appendix A – Capital Financing Principles	101
Capital Appendix B – Debt History	102
Capital Appendix C – Capital Replacement Reserve Funds – Water & Wastewater	103
Capital Appendix D – Canada Community Building Fund	104
Capital Appendix E – Development Charges Reserve Funds – Water & Wastewater	105



Haldimand
County



Message from the Chief Financial Officer

Mayor and Members of the Council,

Haldimand County provides water and sewer services to over 10,000 citizens and businesses through the use of treatment, collection and distribution systems that carry a replacement cost of over \$1.4 Billion in infrastructure assets. Operating these systems is highly legislated and Haldimand requires combined net revenues required from the users of approximately \$16.0 million in 2024; which will equate to an impact of \$1.41 or 1.64% per month for the average residential user. (See Operating Summary 1 on page 31).

*User Rates fully fund the Water and Wastewater Systems
There is no contribution from Property Tax*

The Safe Drinking Water Act, 2002 legislates drinking water systems and drinking water testing in Ontario. Section 19 of this act is a Statutory Standard of Care that extends legal responsibility to Council requiring them to exercise the level of care, diligence and skill that a reasonably prudent person would be expected to exercise in a similar situation while acting honestly, competently and with integrity.

The 2024 Rate Supported Operating Budget and Capital Forecast is one of the most important strategic documents Council approves to ensure the protection and safety of the users of the municipal drinking water system. (Safe Drinking Water Act, 2002)

Despite Haldimand County’s complexity, water and wastewater rates have remained competitive over time through long range financial planning and good fiscal stewardship over the annual operations. Although Council is provided with a summarized version, County staff undertake a vigorous review and vetting process before budget deliberations begin. Haldimand County’s culture of Continuous Improvement allows the team to make incremental steps to improve efficiency while maintaining operational excellence.

The 2024 Draft Rate Supported Operating Budget and Capital Forecast has been developed on the following fundamental principles:

- Capital and operating costs associated with the provision of water and wastewater services have been allocated directly to the users of these systems (although the majority of customers use both systems, some users only have one system or the other);
- Full cost recovery of all allocated operating and capital costs are recovered directly from the users of the applicable systems;
- Aggregate net costs (i.e. revenues required from rates revenue) will be recovered 50% from fixed revenues (i.e. basic charges) and 50% from variable revenues (i.e. consumption revenues);
- Leachate costs to be allocated based on relative loading at the treatment plant and recovered 50% from fixed revenues and 50% from variable revenues;
- Annual indexing of all miscellaneous revenues based on the annual increase of underlying costs;

As such, there are three main factors that impact the rates annually: (i) increase/decreases in gross costs; (ii) increases/decreases in miscellaneous revenues (i.e. bulk services, industrial recoveries, etc.); and (iii) changes in annual consumptions/number of customers.

The 2024 Draft Rate Supported Operating Budget, as outlined in this document, the total net revenues required from the users is approximately \$16.0 million, representing an overall increase of approximately \$832,000 or 5.47% compared to the 2023 budgeted total rates revenue of \$15.2 million (the water system requires an increase of \$645,000 or 8.39% in rates revenue; while the wastewater system reflects an increase of approximately \$187,000 or 2.48% in rates revenue). The relative impact on each system varies: a 1% impact in the water system is equal to approximately \$77,000 in user rates revenue; while a 1% impact on the wastewater system is equal to \$75,000 (\$152,000 combined).

Key Financial Messages - 2024 Draft Rate Supported Operating Budget and Capital Forecast

- Full cost recovery of all capital and operating costs from users of the systems achieved (no revenues from property taxation);
- Use of growth (number of customers and increased consumption) to offset overall net revenue requirements/rates
- Targeted rate stabilization reserves maintained at a level of 25% of rates revenue to offset any unforeseen revenue shortfalls due to fluctuating consumption or cost increases
- All capital financing principles met:
 - Planned rehabilitation/replacement of underlying infrastructure;
 - Continued focus on comprehensive performance reviews, condition assessments and inflow/infiltration studies to maximize performance and capacity of existing infrastructure;
 - Providing capacity for anticipated growth;
 - Within projected/established debt limits and sufficient capital replacement reserves to meet forecasted replacements;
 - Starting in 2024, phase-out reliance on Canada Community Building Fund grant allocation
- An overall increase in net costs, driven primarily by:
 - An increase to the OCWA water operations contract based on the approved contract, including annual inflationary increases and chemical cost impacts;
 - Expenditure increase in the cost for Hamilton Water based on consumption increase and rate change;
 - Expenditure increases to the Veolia wastewater operations based on the approved contract, in addition to known increases to chemical costs;
 - Expenditure increases to the Veolia wastewater operations based on the addition of an Asset Management and Improvement Manager as identified in Closed Session Memorandum ENV-M02-2023;
 - An overall 1.0% contribution to the Capital Replacement Reserve Fund (allocated fully to CRRF – Water) - matching the financing principles set out in Capital Summary 3;

Overall impact is a **1.64%** increase (or **\$1.41**) per month for the average residential user.

Average Monthly Residential Customer Impact (15 m3)				
	2023	2024	\$	%
Total Water	\$41.12	\$43.76	\$2.64	
Total Wastewater	\$44.90	\$43.67	(\$1.23)	
Total	\$86.02	\$87.43	\$1.41	1.64%

It should be noted that other customer’s will have slightly varying impacts depending on individual circumstances, such as: service size, monthly consumption and type of service (i.e. water only or wastewater only).

All bulk services (i.e. water depot, septic holding treatment, etc.) have been increased by 3.0% based on increases to the overall underlying costs. This increase excludes any delivery charges.

The 2024 Draft Rate Supported Operating Budget and Capital Forecast is fiscally sustainable and based on sound financial principles. There are significant investments in rehabilitation/replacement of infrastructure and provisions for growth while maintaining the integrity of the water and wastewater systems. In addition, based on current projections and assumptions, water and wastewater rates should be relatively stable over the term of Council. However, it should be cautioned, that Provincial legislation can significantly impact municipal operations and senior staff will continue to monitor the political environment and lobby against changes that may impact the affordability of water rates in the Province of Ontario.

Respectfully Submitted,

Mark Merritt, CPA, CA
Chief Financial Officer and General Manager of Financial & Data Services



EXECUTIVE SUMMARY:

This report and supporting tables will provide Council with information required to deliberate the 2023 Draft Rate Supported Operating Budget and Capital Forecast and associated revisions to user rates and miscellaneous fees and charges. Haldimand County staff undertake a comprehensive budget review process to ensure operational requirements are being met in a fiscally responsible manner.

External Influences on the systems:

Safe Drinking Water Act, 2002 This act recognizes that the people of Ontario are entitled to expect their drinking water to be safe and provides for the protection of human health and the prevention of drinking-water health hazards through the control and regulation of drinking-water systems and drinking-water testing.

Statutory Standard of Care [Safe Drinking Water Act, 2002, Section 19.] extends legal responsibility to Council requiring them to exercise the level of care, diligence and skill that a reasonably prudent person would be expected to exercise in a similar situation while acting honestly, competently and with integrity.

Financial Plans [Safe Drinking Water Act, 2002, Section 30.] requires financial plans respecting the cost of water and waste water services be prepared in line with requirements set out in the Sustainable Water and Sewage Systems Act, 2002.

Asset Management Planning for Municipal Infrastructure, O.Reg 588/17 [Infrastructure for Jobs and Prosperity Act, 2015] this regulation prescribes information to be used when planning for municipal infrastructure. Water and Wastewater assets are considered “Core” in the Asset Management Plan.

The goal of this report is to explain the complex financial model used to calculate the rates and provide Council with confidence that staff have completed the requisite due diligence. In the spirit of continuous improvement, the report contents and format will evolve to ensure transparency and accountability.

2024 Rate Supported Operating Budget

Notable drivers in the 2024 Rate Supported Operating Budget include:

Water Operations:

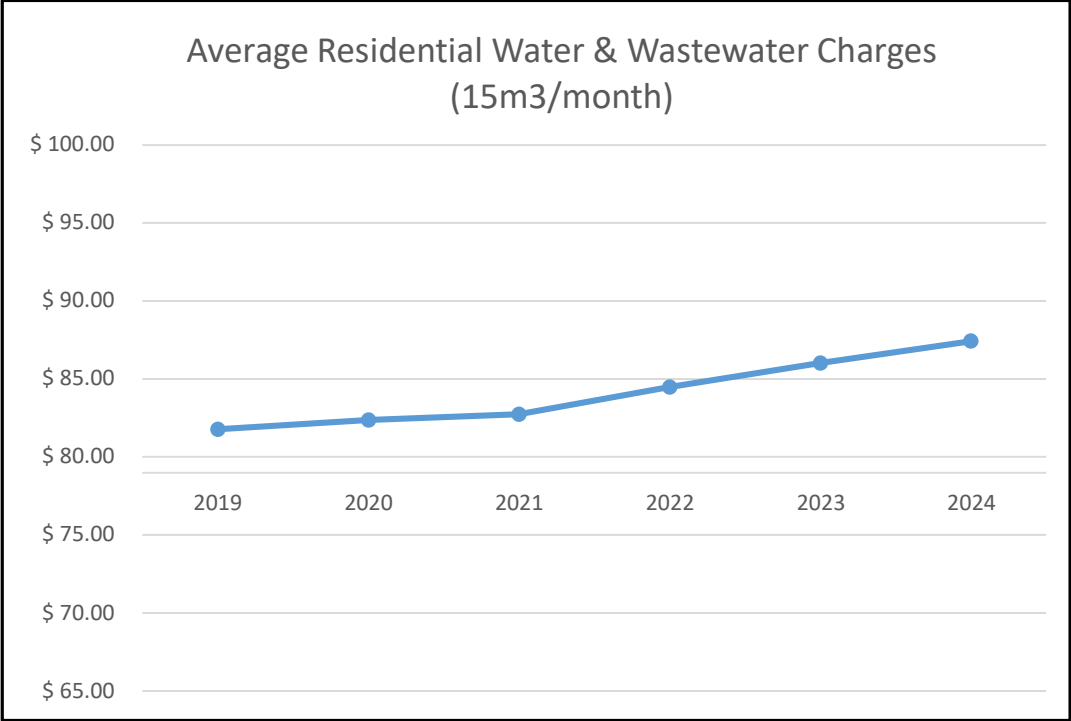
- Revenue increases in the annual fire protection charge;
- An increase to the OCWA operations contract based on the approved contract;
- Expenditure increase in the cost for Hamilton Water based on consumption increase and rate change;
- A contribution to the Capital Replacement Reserve Fund – Water (CRRF – Water) matching the financing principles set out in Capital Summary 3.

Wastewater Operations:

- Expenditure increases to the Veolia operations based on:
 - the approved contract, in addition to known increases to chemical and fuel costs;
 - the addition of an Asset Maintenance and Improvement Manager as identified in Closed Session Memorandum ENV-M02-2023.

As water and wastewater operations are recovered 100% from the applicable users, changes in consumption patterns can shift the burden to different users. Although setting the fixed component of the bill at 50% will assist in offsetting future shifts in consumption, approximately 25% of the County’s total water consumption is derived from 2 major industrial users (includes 4 separate locations). As a result, any fluctuations in their operations can cause large revenue shifts on the volumetric portion of the billing. The County’s user group is relatively small so the additional customers from recent growth, primarily related to the development in Caledonia, is beginning to impact rates by spreading costs over more users. It should be noted that growth may also result in additional costs to provide the services.

As a result of the proposed changes, the effective monthly impact on selected standard services is as follows:



Average Monthly Residential Charges (15m3/month)	2020	2021	2022	2023	2024	\$ Change	% Change
Water Basic	\$ 20.24	\$20.38	\$ 22.35	\$ 24.72	\$ 25.78	\$ 1.07	4.31%
Water Consumption	\$ 14.61	\$14.62	\$ 15.21	\$ 16.40	\$ 17.98	\$ 1.58	9.60%
Total Water Charges	\$ 34.85	\$35.00	\$ 37.56	\$ 41.12	\$ 43.76	\$ 2.64	6.42%
Wastewater Basic	\$ 24.86	\$24.60	\$ 24.71	\$ 23.98	\$ 23.69	\$ (0.29)	-1.21%
Wastewater Consumption	\$ 22.66	\$23.14	\$ 22.20	\$ 20.91	\$ 19.98	\$ (0.94)	-4.48%
Total Wastewater Charges	\$ 47.52	\$47.74	\$ 46.91	\$ 44.90	\$ 43.67	\$ (1.23)	-2.73%
Total Water & Wastewater Charges	\$ 82.37	\$82.74	\$ 84.47	\$ 86.02	\$ 87.43	\$ 1.41	1.64%

The majority of the County’s customers have both water and wastewater services and, for residential users, will see a slight increase in their overall monthly costs as a result of the proposed 2024 rates. Bulk water users, holding/septic tank customers, and other miscellaneous user rates will experience overall increases close to the inflationary increase of 3.0% on costs for 2024.

2024 Rate Supported Capital Forecast

The County’s Capital Budget process is focused on **strategic objectives** and **long term financial plans**.

The 2024 Draft Rate Supported Capital Budget focuses on the following key principles:

- Focus on Replacement/Rehabilitation
- Studies/Reviews/Evaluations
- Provide Service Capacity for Anticipated Growth

A comparison of the gross capital expenditures included in the 2024 Draft Rate Supported Capital Forecast are summarized below:

Gross Expenditures	2023 Budget Average Annual Gross Expenditures	2024 Draft Budget Average Annual Gross Expenditures
Water System	\$13.8 Million	*\$67.5 Million
Wastewater System	\$9.0 Million	\$3.9 Million
Total	\$22.8 Million	\$71.4 Million

**Of this \$67.5 Million in expenses, \$52.0 Million is for the Nanticoke Water Treatment Plant Capacity Expansion project, which is fully recoverable from Norfolk County.*

As the County’s Asset Management Plan is an evolving tool, it is anticipated that staff will be better able to predict the capital requirements as they relate to the water and wastewater infrastructure, particularly in the latter years of the

forecast. Details of the significant changes over the 2024-2033 Rate Supported Capital Forecast can be found in Capital Summary 1.

As the water and wastewater systems are 100% funded from the users, there are limited financing sources and limited customers to spread the burden of expensive project expenditures (approximately 10,815 users in total). As the individual systems are funded specifically from the users of the relative systems (i.e. water users pay 100% of infrastructure costs related to the water system and wastewater users pay 100% of infrastructure costs related to wastewater systems), the funding sources are different for the two systems. Typically, replacements and rehabilitations, as well as enhancements to existing services and processes that are not growth related, are funded from the applicable capital replacement reserve funds.

In prior years, a significant portion of the Canada Community Building Fund (Federal Gas Tax) allocation was applied to water capital projects. This funding is still needed in the short term, as the water capital replacement reserve fund is experiencing a significant decline in the first three years of the forecast (reaching a low of approximately \$750,000 in 2024). In the long-term, contributions to this reserve fund will outpace spending. Staff took a detailed look at the use of the CCBF Funds while preparing the 2024-2033 Capital Forecast. In an attempt to alleviate pressures in tax-supported capital replacement reserve balances, CCBF funding allocations were shifted from the rate capital projects to tax capital projects – starting from the end of the 10 year forecast and working backwards. As a result, CCBF Funding for rate projects has been phased out entirely by 2030. Moving forward, staff will continue to monitor the use of this grant, and may recommend further changes to the allocations, depending on the capital needs.

All growth related projects are funded from development charges. If insufficient funds are available from DC receipts, debt will be issued, resulting in the annual debt payments funded from future development charges. Other than growth related debt, this capital forecast does not have any new proposed debt financed projects for water or wastewater projects.

INTRODUCTION/BACKGROUND:

Prudent management, as well as section 290 (1) of the Municipal Act, requires local municipalities to prepare and adopt annual estimates required for the purposes of the municipality, including amounts sufficient to pay all debts of the municipality falling due within the year, amounts required to be raised for sinking funds, and amounts required for any board, commission or other body. A budget is a guide to ensure Corporate Strategic priorities and departmental business plans are achieved. Annual budget estimates ultimately determine the County’s revenue requirements and the impact on taxation/user rates to County residents.

Legislative Framework and Budget Process:

Haldimand County is responsible for the purification and distribution of potable water to its users and the collection and treatment of the resulting wastewater. This system is fully funded by the users, with no financial support from property taxes. Capital infrastructure is funded from user rates with offsetting funding from Development Charges and financial assistance from other levels of Government when available.

During 2013, the County completed a comprehensive Water and Wastewater Rate study to review cost allocation methodologies and recovery principles for all water and wastewater customers. This review included a series of public consultations as well as review by Council of the principles and the associated impacts on specific users of the water/wastewater systems.

The principles, as approved during the 2013 water/wastewater rate study, and as amended, continue to be utilized for preparation of the 2024 Draft Rate Supported (Water and Wastewater) Operating and Capital Budget, including:

- Full cost recovery of all operating and capital costs – recovered directly from the users of the applicable systems;
- Net costs (i.e. revenues required from rates revenue) will be recovered 50% from fixed revenues (i.e. basic charges) and 50% from variable revenues (i.e. consumption revenues);
- Leachate costs to be allocated based on relative loading at the treatment plant and recovered 50% from fixed revenues and 50% from variable revenues;
- Annual indexing of all miscellaneous revenues based on annual increase of underlying costs.

The Rate Supported Budget is scheduled to be reviewed by Council on December 7th, 2023. It is recommended that the required rate increases take effect January 1st, 2024, upon approval of the draft budget by Council.

A. 2024 DRAFT RATE SUPPORTED OPERATING BUDGET

Rate Supported Operating Process and Budgetary Constraints

The environment for water and wastewater operations is very highly regulated and monitored. The County’s treatment facilities are governed by contracts with independent operators who are qualified to meet the stringent legislative requirements. As a result, several financial pressures influence the 2024 Draft Rate Supported Operating Budget that are, to some degree, beyond Council’s control.

In addition to these external factors, there are several budgetary constraints that are unique to Haldimand County. The County operates a number of independent water and wastewater systems servicing relatively few users. With only approximately 10,944 users, the County operates four wastewater treatment facilities, four wastewater lagoons, two water treatment facilities, seven water distribution systems and eight wastewater collection systems. Though the County’s user group is relatively small, growth is beginning to impact the end cost to the user, as discussed further within this report. Additional customers will help spread the costs over more users, however, other factors will impact operations: increased costs for servicing more users, potential loss/reduced consumption by large scale industrial customers; and change in consumption patterns for all users.

2023 Forecasted Operating Variance

Annual rates are impacted by the net costs to be recovered by rates revenues (i.e. increases/decreases in costs or miscellaneous revenue sources). In addition, fluctuations in annual consumption can significantly impact the annual water/wastewater revenues. As a result, to mitigate these fluctuations, the fixed component of the water and wastewater billings was increased to 50% of the total estimated annual revenues starting in 2013. The emphasis on fixed revenues (“basic/base charges”) can help alleviate budget variances due to fluctuations in consumption. In addition to this, the County maintains a rate stabilization reserve for both water and wastewater to offset any unanticipated operating variances. As outlined in the draft 2024 operating budget document, the combined water/wastewater forecasted year end 2023 operating **deficit** is approximately \$408,595.

The following chart outlines the forecasted 2023 surplus/(deficit) for water operations:

2023 Projected Water Operating Surplus/(Deficit)	
	Surplus/(Deficit)
Revenues:	
User Rates Revenue - Regular Residential Consumption	(\$53,716)
User Rates Revenues - Regular Commercial Consumption	(\$140,597)
User Rates Revenues - Large Industrial Consumption	(\$11,846)
Bulk Water Consumption and Related Administration Fees	(\$153,427)
Miscellaneous items	\$1,328
<i>Sub-total Revenues</i>	<u>(\$358,258)</u>
Expenditures:	
Hamilton Water Supply Contract	(\$114,600)
Veolia Contract - Anticipated chemical overages	(\$30,000)
Haldimand chemical overages	(\$45,000)
Nanticoke WTP Taxation – Supplementary billings	(\$53,472)
Miscellaneous Items	(\$14,826)
<i>Sub-total Expenditures</i>	<u>(\$257,898)</u>
Net Projected Surplus/(Deficit)	<u>(\$616,156)</u>

The following chart outlines the forecasted 2023 surplus/(deficit) for wastewater operations:

2023 Project Wastewater Operating Surplus/(Deficit)	
	Surplus/(Deficit)
Revenues:	
User Rates Revenue - Residential Consumption	(\$65,415)
User Rates Revenues - Regular Commercial Consumption	(\$15,397)
User Rates Revenue - Regular Commercial Base Charges	(\$42,130)
Leachate	\$131,160
Septic/Holding - increased volume due to temporary agreement for receipt of leachate from private company	\$97,905
Miscellaneous items	(\$620)
<i>Sub-total Revenues</i>	<u>\$105,503</u>
Expenditures:	
Veolia Contract – Estimated chemical overages	(\$30,000)
Hydro Savings – surpluses at WWTPs	\$127,440
Miscellaneous items	\$4,618
<i>Sub-total Expenditures</i>	<u>\$102,058</u>
Net Projected Surplus/(Deficit)	<u>\$207,561</u>

There were several items with significant 2023 variances that impact the 2024 operations as follows:

- Fluctuating annual consumption (including increases in residential consumption)
 - Action: historical averages have been used in calculating consumption predictions, including an estimate of anticipated increases in consumption due to residential growth;
 - Action: consumption trends have resulted in a decrease in commercial consumption in 2024.
- Anticipated deficit in bulk water
 - Action: prior to 2023, there had been a steady increase in bulk water consumption. The 2024 budget keeps consumption flat compared to 2023 and staff will continue to monitor trends. Future budgets may be impacted if a future bulk water consumption continues to trend downward. There are a number of factors that impact bulk water consumption (i.e. weather conditions).
- Leachate treatment levels
 - Action: Leachate budgeted volumes remains the same, but will form part of the next Rate Study currently scheduled for 2025.
- Hamilton Water Supply costs impacted by fluctuating volumes and increasing rates;
 - Action: The 2024 budget has been adjusted to reflect the anticipated consumption related to the Hamilton Water Supply contract, including increases based on residential growth, as well as rate changes (8.5%).

2024 Draft Rate Supported Operating Budget Overview

The 2024 Draft Rate Supported Operating Budget, as outlined in this document, represents an overall net **increase** in total rate revenue requirements of \$831,980 or 5.47% compared to the 2023 budgeted total rates revenue of \$15.2 million: the water system requires a increase of \$645,460 or 8.39% in rates revenue; the wastewater system reflects an increase of \$186,520 or 2.48% in rates revenue. The relative impact on each system varies: a 1% impact in the water system is equal to approximately \$77,000 in user rates revenue; while a 1% impact on the wastewater system is equal to \$75,000.

The budget summary by major function is outlined below. The 2024 Draft Rate Supported Budget includes a number of impacts as discussed below, resulting in a monthly increase of approximately \$1.41 or 1.64% for the typical residential user (based on a residential service of 1” or less and average consumption of 15 m³ per month – as outlined in Operating Summary 1).

2024 Budget Drivers – Water Operations

WATER OPERATIONS				
	2023 Budget	2024 Budget	increase/(decrease)	
	\$	\$	\$	%
Expenditures				
Salaries, Wages & Benefits	2,139,040	2,208,890	69,850	3.27%
Materials	2,523,680	2,511,860	(11,820)	-0.47%
Hamilton Water Supply	4,058,200	4,469,600	411,400	10.14%
Contracted Services	626,410	600,910	(25,500)	-4.07%
Rents & Financial Expenses	13,380	13,380	-	0.00%
OCWA Operating Services Charges	2,426,910	2,735,620	308,710	12.72%
Interfunctional Adjustments	427,630	440,480	12,850	3.00%
Long Term Debt Charges	1,273,960	1,193,080	(80,880)	-6.35%
Transfers to Reserves/Reserve Funds	1,690,290	1,913,900	223,610	13.23%
Total Expenditures	15,179,500	16,087,720	908,220	5.98%
Revenues				
Bulk Service Charges	2,040,880	2,046,780	5,900	0.29%
General Fees	4,856,220	5,131,240	275,020	5.66%
Transfers from Reserve/Reserve Funds	90,000	71,800	(18,200)	-20.22%
Development Charges Reserve Funds	502,050	502,090	40	0.01%
Total Revenues	7,489,150	7,751,910	262,760	3.51%
Net Revenues Required from User Rates	7,690,350	8,335,810	645,460	8.39%

As noted above, the overall 2024 rates revenue requirement from water users has increased by \$645,460 or 8.39%.

Driver	Net Rate Revenues Impact	% Impact
A. Base Budget (net)	\$482,750	6.28%
B. Water Additional Capital Contribution	\$142,710	1.86%
C. Contribution from Rate Stabilization Reserve (phase-in - \$300K in 2022, \$20K in 2023)	\$20,000	0.26%
Total	\$645,460	8.39%

Details of the water operations budget drivers are outlined below.

A. Base Budget Drivers (net)

As indicated above, the total base budget net operating expenditures **increased** by approximately \$483,000, or 6.28%. This net change is driven primarily by an increase that is required for the Hamilton Water Contract due to an increase to both the rates (8.5%), as well as an increase to the consumption utilized by the County. This increase is offset slightly by an increase in the annual fire hydrant fee rental, as well as an increase to the predicted bulk water consumption.

The major detailed net operational impacts are outlined below:

2024 Draft Water Operating Budget	
Summary of Impact of Base Budget Drivers on Rate Revenue Requirements	
Base Budget:	Increase/ (Decrease)
Revenues (excludes rate revenues):	
Fire Hydrant Fees - 3.0% increase	\$73,740
Miscellaneous Fees & Recoveries	\$13,240
Sub-total Revenues	\$86,980
Expenditures:	
Salaries, Wages and Benefits	\$69,850
OCWA Operations - County share - 3.2% CPI increase & Chemical/Fuel cost increases	\$57,940
Hamilton Water Contract - Consumption - based on 2023 consumption and 2% growth	\$66,410
Hamilton Water Contract - Rate Increase - estimated at 8.5% per City of Hamilton	\$344,990
County Chemical Costs	\$25,000
Hydro - Mainly County's share of Port Maitland savings	(\$42,770)
Miscellaneous Supplies & Services	\$48,310
Sub-total Expenditures	\$569,730
Total Base Budget Impact on Rate Revenue Requirements	\$482,750

B. Council Approved Initiatives

There are no Council Approved Initiatives in 2024. In 2022 it was proposed to use the Water Rate Stabilization Reserve in order to offset increases in costs, and smooth out rate increases. It was projected in 2022 that \$300,000 would be needed in 2022; \$200,000 in 2023, and \$100,000 in 2024. As a result of higher than anticipated growth in 2023, it was proposed that \$20,000 be utilized from this stabilization reserve in order to mitigate increasing costs with no further use of the stabilization reserve anticipated after 2023. The net impact on the reduction in use of the stabilization reserve from 2023 is a increase on the rate requirements in the amount of \$20,000.

C. Infrastructure Capital Financing Requirements

Overall, water annual capital financing related impacts on the user rates are **1.86%** in 2024. Capital related impacts include the combination of annual capital replacement reserve fund contributions and debt repayments, as outlined in Capital Summary 3. Essentially, the combined water reserve fund contributions and changes to debt repayments for 2024 increased by approximately \$143,000. As indicated previously, it is recommended to maintain an annual **combined** water and wastewater rate increase of 1.0% dedicated for capital related impacts over the forecasted period, with an annual shift in additional contributions to water from wastewater phased in over 10 years. For 2024, the 1% capital contribution was directed completely to water. Previously it was projected that this additional contribution would end in 2024. With the recent focus on improvements to the County’s asset management planning, the need for this annual contribution still remains and therefore has been incorporated in to the long term financial planning through to 2032, as outlined in Capital Summary 3.

2024 Budget Drivers – Wastewater Operations

WASTEWATER OPERATIONS				
	2023	2024	increase/(decrease)	
	\$	\$	\$	%
Expenditures				
Salaries, Wages & Benefits	1,125,190	1,142,010	16,820	1.49%
Supplies & Materials	1,462,680	1,350,290	(112,390)	-7.68%
Services	375,240	397,340	22,100	5.89%
Rents & Financial Expenses	3,300	3,300	-	0.00%
Veolia Operating Services Charges	3,060,690	3,495,320	434,630	14.20%
Interfunctional Adjustments	331,080	341,020	9,940	3.00%
Long Term Debt Charges	3,103,210	2,686,920	(416,290)	-13.41%
Transfers to Reserves/Reserve Funds	2,060,120	2,234,750	174,630	8.48%
Total Expenditures	11,521,510	11,650,950	129,440	1.12%
Revenues				
Bulk Service Charges	1,691,540	1,859,160	167,620	9.91%
Municipal Recoveries	56,800	71,200	14,400	25.35%
General Fees	255,020	249,730	(5,290)	-2.07%
Transfers from Reserves/Reserve Funds	1,999,840	1,766,030	(233,810)	-11.69%
Total Revenues	4,003,200	3,946,120	(57,080)	-1.43%
Net Revenues Required from User Rates	7,518,310	7,704,830	186,520	2.48%

As noted above, the overall 2024 rates revenue requirement from wastewater users has increased by \$186,520 or 2.48%. Detailed budget drivers are outlined below.

Driver	Net Rate Revenues Impact	% Impact
A. Base Budget (net)	\$1,020	0.01%
B. Council Approved Initiatives	\$178,000	2.37%
C. New Initiatives	\$7,500	0.10%
D. Wastewater Additional Capital Contribution	-	0.00%
Total	\$186,520	2.48%

A. Base Budget Drivers (net)

As indicated above, total net base expenditures increased by approximately \$1,020 or 0.01%. Expenditure related impacts include Veolia operating impacts and insurance changes. The major detailed net operational impacts are outlined below:

2022 Draft Wastewater Operating Budget	
Summary of Impact of Base Budget Drivers on Rate Revenue Requirements	
Base Budget:	Increase/ (Decrease)
Other Revenues (excludes rate revenues):	
Leachate Revenues (increase in revenues tied to increase in Veolia contract)	\$ 157,320
Miscellaneous items	\$ 21,190
Sub-total Revenues	\$ 178,510
Expenditures:	
Salaries, Wages and Benefits	\$ 16,820
Veolia Annual Fixed Fee - CPI Index of 2.6%	42,410
Veolia Annual Cost Plus - Increases due to chemical and fuel costs	214,220
Hydro Reduction based on 5 year average historical surpluses at WWTPs	- 98,330
Miscellaneous items	4,410
Sub-total Expenditures	179,530
Total Base Budget Impact on Rate Revenue Requirements	\$ 1,020

B. Council Approved Initiatives

In September 2023, Council approved the addition of an Asset Maintenance and Improvement Manager to the Veolia staff complement. The impact, as noted below, is above the standard contract increases noted above.

Description	Rate Revenue Increase/ (Decrease)
Council Approved Initiatives	
2024 Veolia contract increase based on ENV-05-2023	\$178,000
Total	\$178,000

C. New Initiatives

There is one New Initiative for 2024 for \$7,500 (or 0.01% increase on rate revenue requirements), as outlined below. Further details on this initiative can be found in Operating Summary 2.

Description	Rate Revenue Increase/ (Decrease)
New Initiatives	
Townsend Lagoon Monitoring	\$7,500
Total	\$7,500

D. Infrastructure Capital Financing Requirements

Overall, wastewater annual capital financing related impacts on the user rates were 0.0% in 2024, as the entire 1% contribution was allocated to water in 2024. Capital related impacts include the combination of annual capital replacement reserve fund contributions and debt repayments, as outlined in Capital Summary 3. As indicated previously, it is recommended to maintain an annual combined water and wastewater rate increase of 1.0% dedicated for capital related impacts over the forecasted period. Previously it was projected that this additional contribution would end in 2024. With the recent focus on improvements to the County’s asset management planning, the need for this annual contribution still remains and therefore has been incorporated into the long term financial planning through to 2033, as outlined in Capital Summary 3.

Impacts on Miscellaneous Rates

A comprehensive list of all fees and charges is included in Operating Appendix C – Schedules B through D, inclusive. The intent is to pass a comprehensive water and wastewater by-law that includes all water and wastewater fees, with an effective date of January 1, 2024.

The majority of the revenues derived from miscellaneous charges are the bulk processing fees (i.e. bulk water charges and bulk wastewater treatment charges – leachate, holding/septic tanks and portable toilets) and Fire Protection Charges. These fees and recovery methodologies were covered in detail in the 2013 rate study. The principles adopted as part of the rate study were based on cost allocation methodologies to ensure the users of the systems pay for the full costs of these systems. There are no planned changes to the underlying recovery methodologies in 2024.

Water Miscellaneous Revenues

Miscellaneous revenues represent approximately \$7.8 million in annual revenues for the water system, reducing the user rates revenue by a corresponding amount. These fees are broken down as follows:

- approximately \$2.3 million relates to the recovery of costs associated with the provision of non-potable water to industries in Nanticoke - it should be noted that this budget has been developed with no changes to the cost allocations under the Lake Erie industrial agreement;
- bulk water recoveries represent total revenues of approximately \$2.0 million, with the impacts on the end user outlined below in (i) Bulk Water Charges;
- \$502,000 relates to development charges funding to offset related development related debt payments;
- fire protection charges represent approximately \$2.5 million which includes an increase of \$73,740 or 3.0%;
- the remaining miscellaneous fees total approximately \$484,420 and include:
 - property tax recoveries from industry of approximately \$101,680;
 - miscellaneous charges of approximately \$259,390.

These miscellaneous revenues (excluding the New Credit charge as it is covered by a specific agreement) are all proposed to reflect an annual inflationary increase of 3.0% (rounded where applicable), based on the underlying increase in the associated costs to provide these services (subject to the annual budget review).

Ultimately, if the proposed miscellaneous charges are not adopted, the rates to other users of the systems will have to be increased to offset the resulting reduction in revenue.

The following summarizes the proposed changes for bulk processing fees:

(i) Bulk Water Charges

Historically Bulk Water charges were based on the methodology outlined in the County’s 2013 rate study as approved by Council. The methodology included both a “fixed” component and a variable component. Due to the fluctuations in consumption within this user group, the related rate had been fluctuating in recent years. In order to maintain a level of predictability to these rates, Council adopted a change as part of the 2018 budget to provide for the indexing of the bulk water cubic meter rate based on the underlying cost increases (3.0% for 2024), which is the same approach taken with respect to the septic and holding tank customers a few years ago in order to achieve rate consistency. The proposed 2024 monthly fee is \$19.64 which represents a 3.0% **increase**. The monthly administration fee will continue to be billed to all customers with consumption in the applicable month. The majority of the revenues generated from these charges relate to commercial water haulers.

For reference purposes, a history of the bulk water rate is included below:

	2013	2014	2015	2016	2017	2018	2019	2020	2020	2021	2022	2023	2024
Bulk Water Rate (per m3)	\$3.02	\$2.96	\$2.93	\$2.96	\$2.89	\$2.94	\$3.00	\$3.08	\$3.14	\$3.23	\$3.23	\$3.33	\$3.43

The proposed “per load” impact on a “typical end user”, based on the assumptions noted, are shown next:

Bulk Water Rate	2023 Rate	2024 Rate	Change	
(per cubic metre)			(\$)	(%)
Controlled by Haldimand County				
Bulk Water Rate (charged to hauler)	\$3.33	\$3.43	\$0.10	3.0%
Monthly Administration Fee (charged to hauler)	\$19.07	\$19.64	\$0.57	3.0%
Per Load Impact on "Typical End User" (13.6 m3 or 3,000 gallon load)				
Water Commodity (determined by Haldimand County)	\$45.38	\$46.74	\$1.36	3.0%
Estimated hauler delivery charge (determined by hauler)	\$85.45	\$85.45	\$0.00	0.0%
Total "End User" estimated cost	\$130.83	\$132.19	\$1.36	1.0%

**assumes 3,000 gallons (approximately 13.6 cubic metres), an equivalent increase to the delivery charge, and excludes any administration fees*

Wastewater Miscellaneous Revenues

Miscellaneous revenues represent approximately \$3.9 million in annual income for the wastewater system which helps reduce the impact on user rates revenue. These fees are broken down as follows:

- approximately \$1.6 million relates to the leachate treatment cost recovery. As the majority of the costs are allocated based on loading, it is anticipated as leachate strength and volumes decline after the closure of Tom Howe, that these revenues will decline. The volumetric rate for 2024 is seeing a significant increase as the result of related increases in the Veolia operating contract costs. The associated loading and allocation of costs will be monitored in future years to ensure appropriate costs allocations;
- the holding/septic tank treatment charges total approximately \$225,200;
- \$1,694,230 relates to development charges funding to offset related development related debt payments;
- the remaining miscellaneous fees total approximately \$393,830 and include:
 - “overstrength” charges established under the Sewer Use By-law of \$156,900;
 - sludge storage charges to Norfolk County of approximately \$71,200;
 - miscellaneous charges of approximately \$165,730;

The miscellaneous fees reflect an inflationary increase of 3.0% (rounded as required), based on the underlying increase in the associated cost to provide these services (subject to the annual budget review).

(i) Holding/Septic/Portable Toilet Tank Treatment Charges

As approved by Council during the 2013 rate supported budget review, the recovery methodology for holding and septic tank treatment cost allocation is to allocate the full operating costs associated with these services to the applicable users. Similar to other fixed/miscellaneous fees, it is recommended to increase the “fixed” monthly charge to \$16.39 or 3.0%. The volumetric rates apply equally to all septic, holding tank and portable toilet waste treated at the County’s facilities.

When the rate study was approved, Council amended the proposed recovery methodology to exclude specific capital costs associated with this service. As a result, there were no funds to replace any capital failures/repairs/maintenance which will impact the County’s ability to provide this service in the future. During the 2015 budget review, Council evaluated options to continue to provide this service and recover the full costs associated therein (i.e. recovery of capital replacement costs) to ensure the sustainability of this service. From this review, Council approved the closure of the Caledonia septage receiving station and recovery of capital costs at the Dunnville receiving plant to provide the necessary capital funding to sustain this service into the future. In addition, all future rates will be indexed similar to other miscellaneous fees.

Based on Council’s recommendation, the 2024 holding/septic tank rates have been increased by 3.0% similar to other miscellaneous fees. The proposed administration and treatment fees are paid by all customers that discharge holding tank/septic/portable toilet waste to County treatment facilities.

The impact on the holding/septic tank rates for 2024 is as follows:

<u>Holding/Septic/Portable Toilet Tank Treatment Charge</u>	<u>2023</u>	<u>2024</u>	<u>Change</u>	
<i>(per cubic metre)</i>			<i>(\$)</i>	<i>(%)</i>
<u>Controlled by Haldimand County:</u>				
Proposed Rate (charged to hauler)	<u>\$15.60</u>	<u>\$16.07</u>	<u>\$0.47</u>	<u>3.0%</u>
Monthly Administration Fee (charged to hauler)	<u>\$18.69</u>	<u>\$19.25</u>	<u>\$0.56</u>	<u>3.0%</u>
<u>Per Load Impact on "Typical End User" (9.1 m3 or 2,000 gallon load)</u>				
Treatment Cost (determined by Haldimand)	\$141.85	\$146.10	<u>\$4.26</u>	<u>3.0%</u>
Estimated hauler delivery charge (determined by Hauler)	<u>\$91.57</u>	<u>\$91.57</u>	<u>\$0.00</u>	<u>0.0%</u>
Total "End User" cost	<u>\$233.42</u>	<u>\$237.67</u>	<u>\$4.26</u>	<u>1.8%</u>

**based on 2,000 gallon load (approximately 9.1 cubic meters, an equivalent increase to the delivery charge and excludes any administration fees*

Impacts on Rates

Water and wastewater rates are impacted by the net revenue requirements, as well as the anticipated consumption by the affected users. As a result, although additional revenues may not be required, anticipated consumption can increase/decrease the relative rates correspondingly (i.e. increased consumption will decrease rates; decreased consumption will increase rates). Given there are different users of each system (i.e. there are approximately 98 water only customers and approximately 89 wastewater only customers), the funding of these two systems must remain autonomous.

For 2024, the water users are required to generate approximately \$8.3 million, which represents an increase in water rate revenue requirements of 8.39%. These revenues are collected by a combination of base water fixed fees and volumetric consumption charges per cubic metre consumed. The required rate revenue for the wastewater users is approximately \$7.7 million in 2024, representing an increased requirement of 2.48%, and it collected using the same methodology as the water system.

As water and wastewater operations are recovered 100% from the applicable users, changes in consumption patterns can shift the burden to different users. Although setting the fixed component of the bill at 50% will assist in offsetting future shifts in consumption, approximately 25% of the County’s total water consumption is derived from 2 major industrial users (includes 4 separate locations). As a result, any fluctuations in their operations can cause large revenue shifts on the volumetric portion of the billing.

The number of customers for budgeting purposes reflects the totals from an in-year review, with an incremental increase related to the known development coming on in 2024. Similar consumption projections were utilized for wastewater customers with corresponding reductions for large industrial customers (one of the large industrial customers has water only and operates its own wastewater lagoon). A summary of these statistics can be found in Operating Appendix B.

The resulting 2024 water and wastewater user rates are included in Operating Appendix C in this budget document. The proposed rates would be effective on all billings for consumption **effective January 1, 2023**. The intent is to implement rate changes as early in the year as possible to provide the users with a more predictable increase (i.e. one rate increase at the beginning of each year). Additionally, this would provide the flexibility to change the rates during the year to offset anticipated in-year shortfalls as the case may be.

B. 2024 DRAFT RATE SUPPORTED CAPITAL BUDGET AND FORECAST TO 2033

Capital Budget Process/Principles

The County’s Capital Budget process has been focused on strategic objectives and long term financial plans. This process provides direction to management when identifying infrastructure needs and implementing a long range financial plan that is sustainable. The County completed a comprehensive Asset Management Plan (AMP) in early 2014 for the following asset categories: roads, bridges/culverts, storm sewer, water and wastewater. The plan included the required annual reserve contributions based on the anticipated cost and timing of replacement of the assets in these categories. This plan identified some funding shortfalls, in particular, water and wastewater had an annual deficit of approximately \$700,000 (primarily in water). Although this plan was approved in early 2014, it is anticipated to change/evolve over time. The results of both the rate study and AMP will help refine the current long range plan which continues to provide the fundamental basis for the ten year capital forecast.

The 2024 Draft Rate Supported Capital Budget focuses on the following key principles:

- Focus on Replacement/Rehabilitation
- Studies/Reviews/Evaluations
- Provide Service Capacity for Anticipated Growth

Gross Capital Costs Overview

Based on the aforementioned guidelines and principles, the total gross capital expenditures (for the combined water and wastewater systems) are approximately \$228 million for the period 2024 to 2033. Although the current annual capital requirements are realistic and manageable, given the current customer base, there are replacements, not currently within the current 10 year forecast, that require a long range plan to address the associated financial impacts. A long range financial plan to address the replacement of current water and wastewater infrastructure was included as part of the 2013 rate study (the principles from which form the basis for the 2024 Capital Budget and Forecast).

Gross Expenditures	2023 Budget Average Annual Gross Expenditures	2024 Draft Budget Average Annual Gross Expenditures
Water System	\$13.8 Million	\$67.5 Million
Wastewater System	\$9.0 Million	\$3.9 Million
Total	\$22.8 Million	\$71.4 Million

Water Gross Capital Costs:

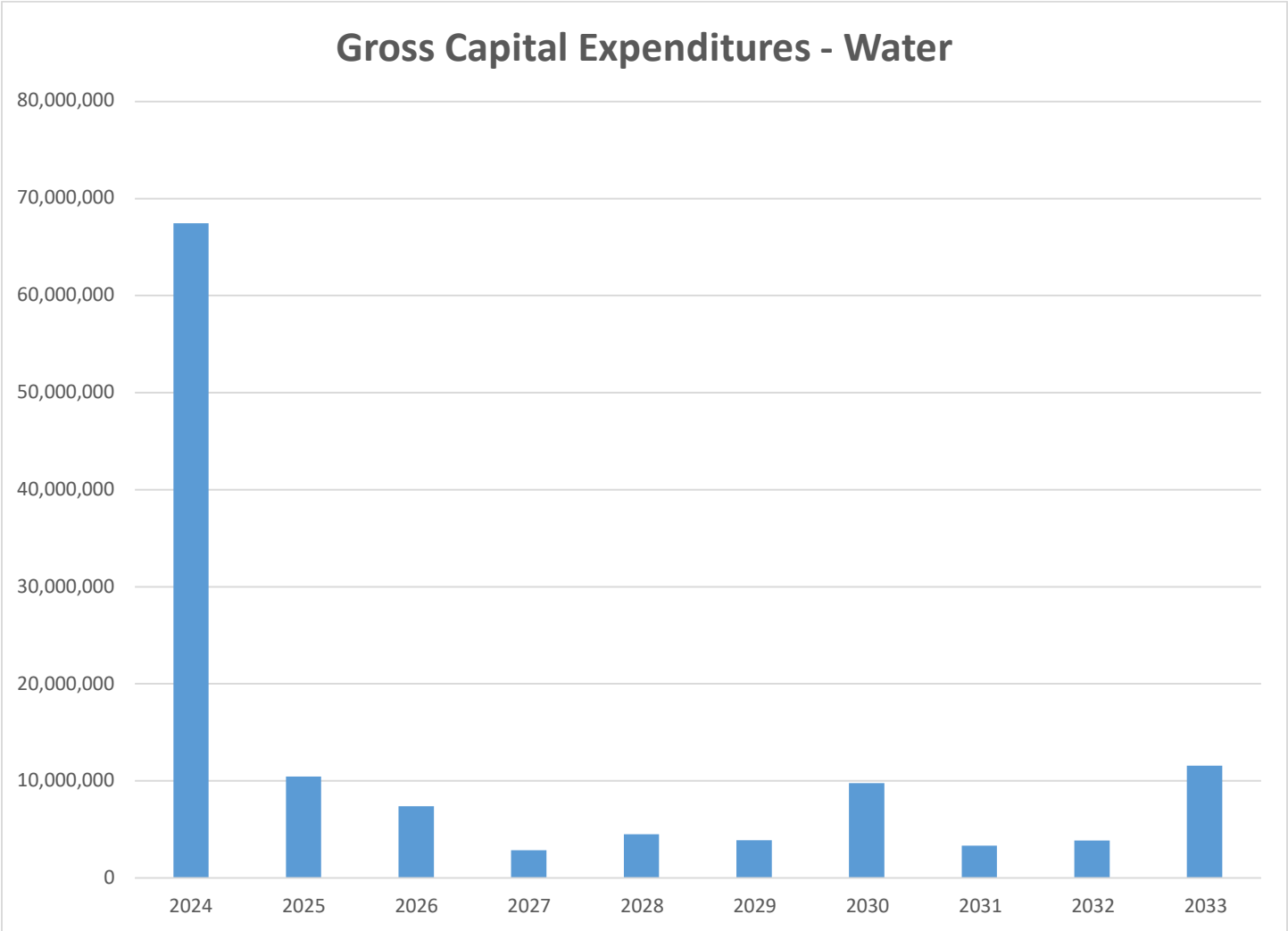
A summary of the planned gross capital costs for Water services is presented in the chart below. One major project in the 2024 Capital forecast is the inclusion of construction of infrastructure in order to supply water to Norfolk. The forecasted capital expenditures related to supplying water to Norfolk currently total \$71.4 million (including some aspects initiated in prior years) and include the following projects with costs recoverable from Norfolk County:

- Nanticoke Water Treatment Plan Capacity Expansion - \$8 million in 2023 related to engineering, with construction beginning in 2024 with a budget of \$52 million (fully recoverable);
- Nanticoke Transmission Main Services Extension – Lake Erie Industrial Park - \$3.5 million in construction identified in 2022 (fully recoverable);
- Nanticoke Transmission Main Service Extension – Townsend - \$4 million in construction identified in 2022 (fully recoverable);
- Townsend Distribution Transmission Watermain Upsizing - \$2.7 million in construction, to be completed in 2 Phases between 2026-2030 (50% recoverable)
- Nanticoke Reservoir Baffling and Transfer System projects – \$1.2 million in construction identified for 2026 (50% recoverable)

Furthermore, as a result of revised growth forecasts for the community of Caledonia, water modelling now supports making the expansion of the north reservoir project a priority over constructing a new elevated tank in south Caledonia. To facilitate shifting the elevated tank construction project out to years 2032-2033 in the forecast, a new project for the Caledonia Standpipe Interior Relining has been added in 2024, with a budget of \$780,000.

During the implementation of the last rate study back in 2013, the Council at that time decided to cease allocating capital replacement funds towards the Dunnville wastewater septage receiving station. As a result of this decision, capital works on this facility have not occurred. This facility is now at a point where it requires refurbishment in order to continue functioning. At this time staff are proposing that any further capital spending related to this facility be considered during the next rate study, which is currently scheduled for 2024. Any projects arising from the study will either be considered as part of a report to council, or in future years’ Rate-Supported Capital Budgets.

As it is more difficult to predict long term needs, fewer specifically identified projects are scheduled in the final 6 years of the forecast. More detailed inventory and continued studies will better identify the timing of these related projects.

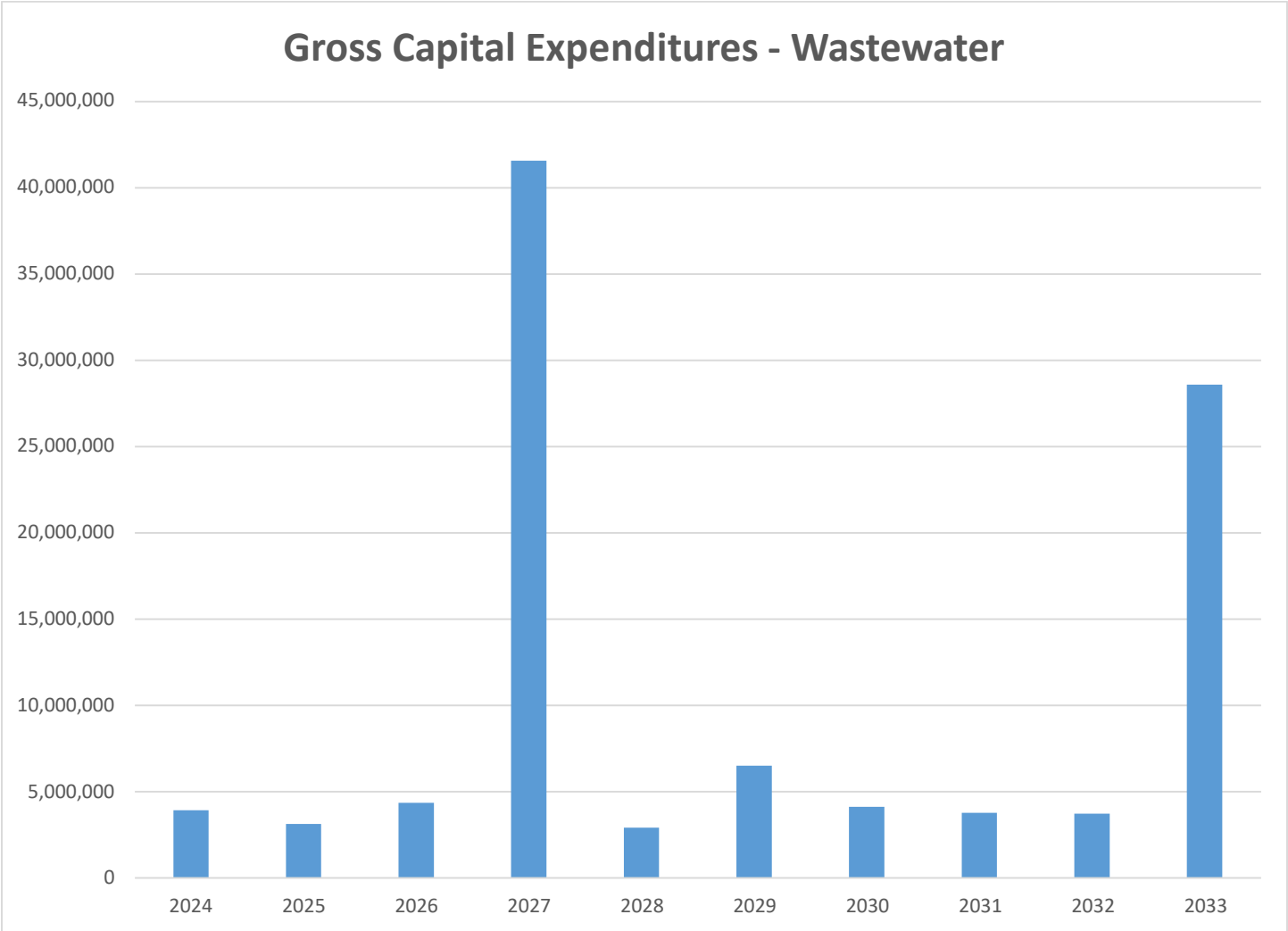


Wastewater Gross Capital Costs

A summary of the planned gross capital costs for Wastewater services is presented in the chart below. Significant expenditures include:

- Construction of a new Wastewater Treatment Plant in Caledonia to be completed in multiple phases - total project costs of \$68.7 million (\$8.7 million approved in prior years, \$35 million in 2027, \$25 million in 2033)
- McClung Road and Nairne Street Sewage Pumping Station Forcemain Extension projects – total of \$4.35 million , identified for 2027
- Hagersville WWTP Grit Removal System project – total of \$4.0 million budgeted in years 2028-2029

The three projects outlined above, as well as several others, are to be funded from Development Charges (DC) Debt. Additionally, there are other shifts in timing/scope changes for projects that will affect the long range financing plan. As it is more difficult to predict long term needs, fewer specifically identified projects are scheduled in the final 6 years of the forecast. More detailed inventory and continued studies will better identify the timing of these related projects.

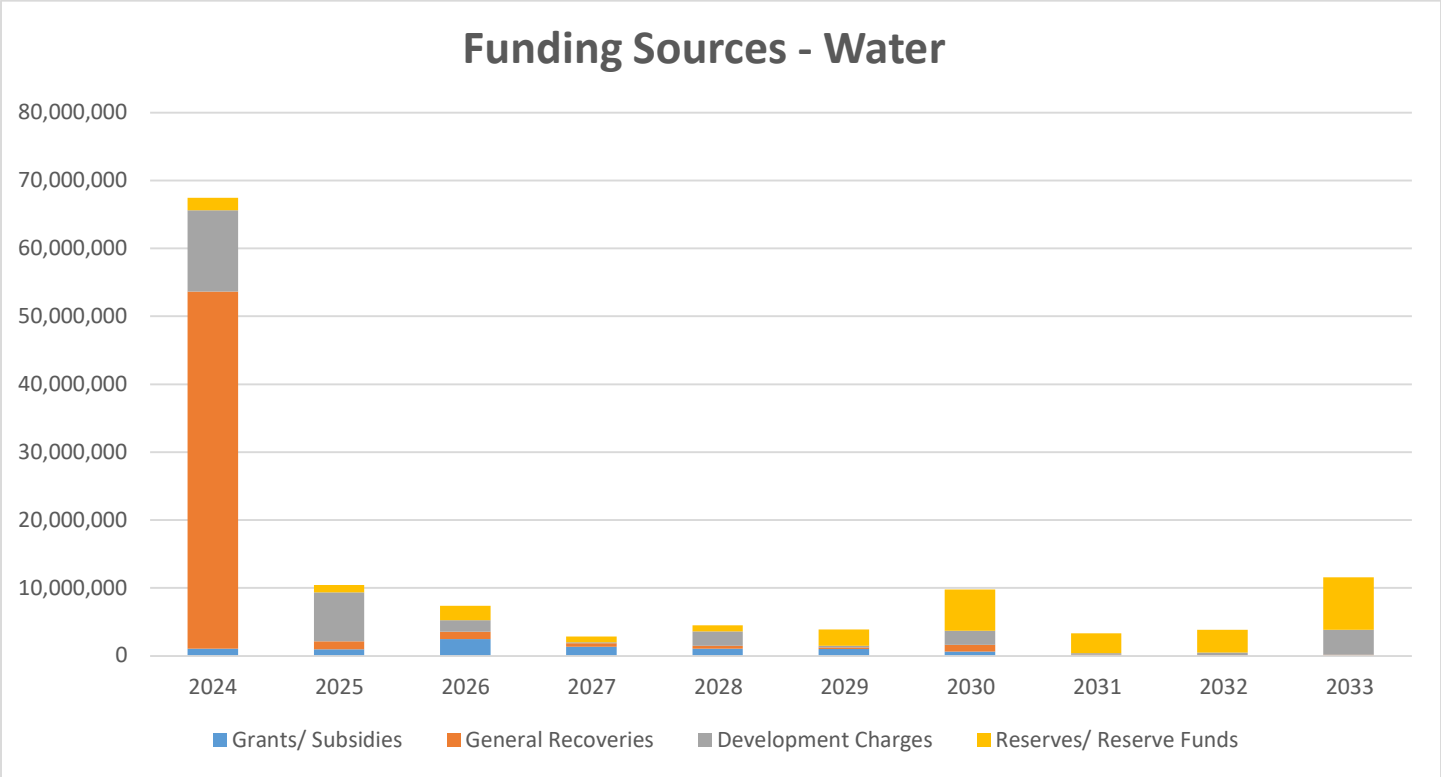


Financing Methodology

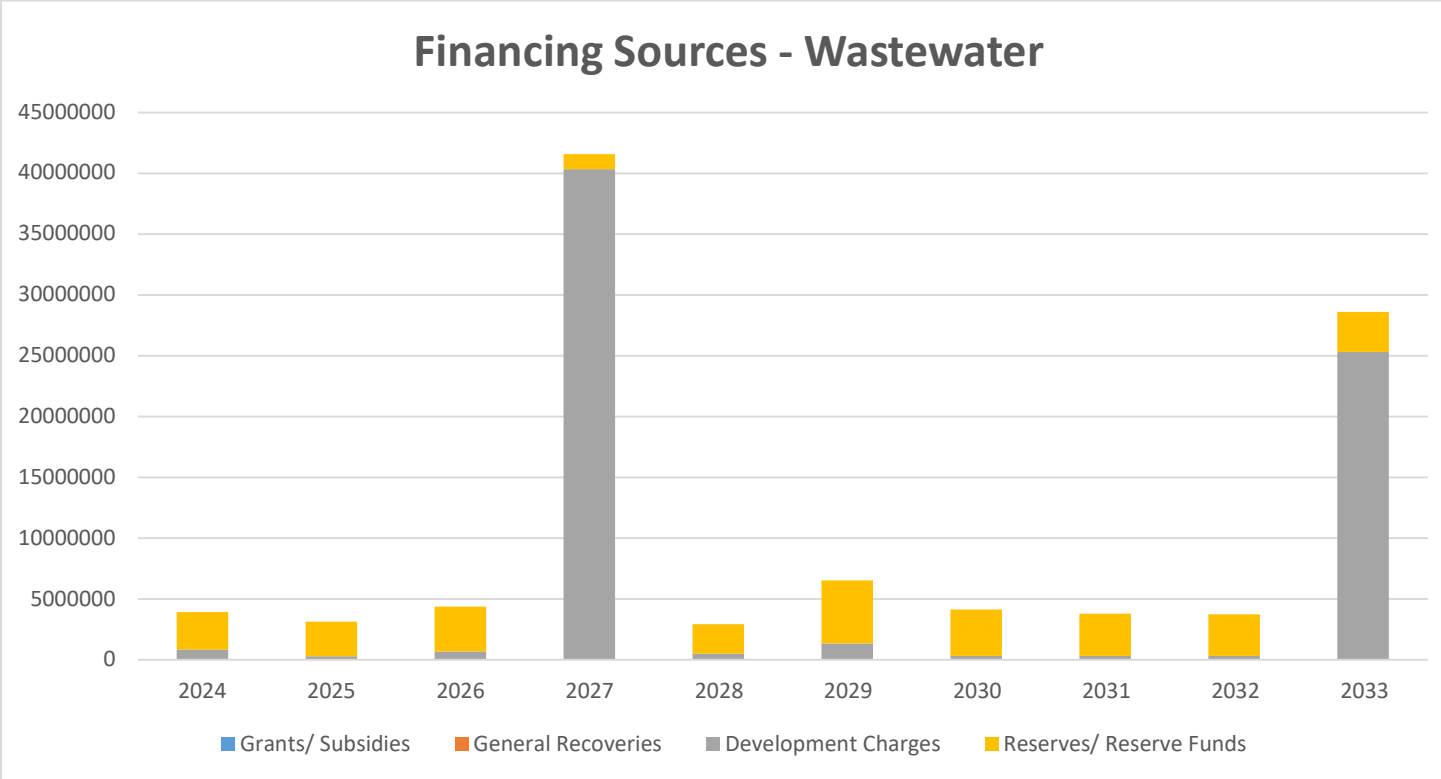
There are limited financing sources available to the County to fund the necessary infrastructure replacements. As the water and wastewater systems are 100% self-funded from the users, there are limited customers to spread the burden of expensive project expenditures across (approximately 10,815 users in total). As the individual systems are funded specifically from the users of the relative systems (i.e. water users pay 100% of infrastructure costs related to the water system and wastewater users pay 100% of infrastructure costs related to wastewater systems), the funding sources are different for the two systems. The sources of financing for specific projects depend on the availability of funds and the nature of the capital projects. A long range plan was developed independently for water and wastewater infrastructure needs based on the 10 year forecasted costs. As a result, the focus of the 2024 Draft Rate Supported Capital Budget and Forecast is **financing**, meaning there are **no** capital projects financed directly from rates. These principles are a major step towards sustainability and lifecycle costing of infrastructure needs – it is the first step in moving from a “cash basis” to an “accrual basis” of funding.

Funding Sources

Funding Sources – Water Projects: As depicted below, much of the financing in the forecast is funded from recoveries (46%) – this is mainly to the expansion of the water infrastructure in Nanticoke in order to provide water services to Norfolk County. The other general recoveries are related to contributions for capital works undertaken on behalf of industries supplied with raw water from Nanticoke or Port Maitland. These projects are primarily funded 100% from the applicable industries utilizing this infrastructure. Staff took a detailed look at the use of the CCBF Funds while preparing the 2024-2033 Capital Forecast. In an attempt to alleviate pressures in tax-supported capital replacement reserve balances, CCBF funding allocations were shifted from the rate capital projects to tax capital projects – starting from the end of the 10 year forecast and working backwards. As a result, CCBF Funding for rate projects has been phased out entirely by 2030. There have been no announcements regarding grant funding on a go forward basis, therefore no future funding is included within this forecast.



Funding Sources – Wastewater: As depicted below, the funding for replacement wastewater capital projects is split between the wastewater capital replacement reserve fund (in aggregate, approximately 32% of total funding over the forecasted period), and the substantial use of Development Charges (approximately 68%). As mentioned, the main driver of the significant development charges financing for wastewater projects is as a result of the inclusion of a second wastewater treatment plant in Caledonia in the amount of \$52 million (which is fully financed by Development Charges over the ten year forecast period).

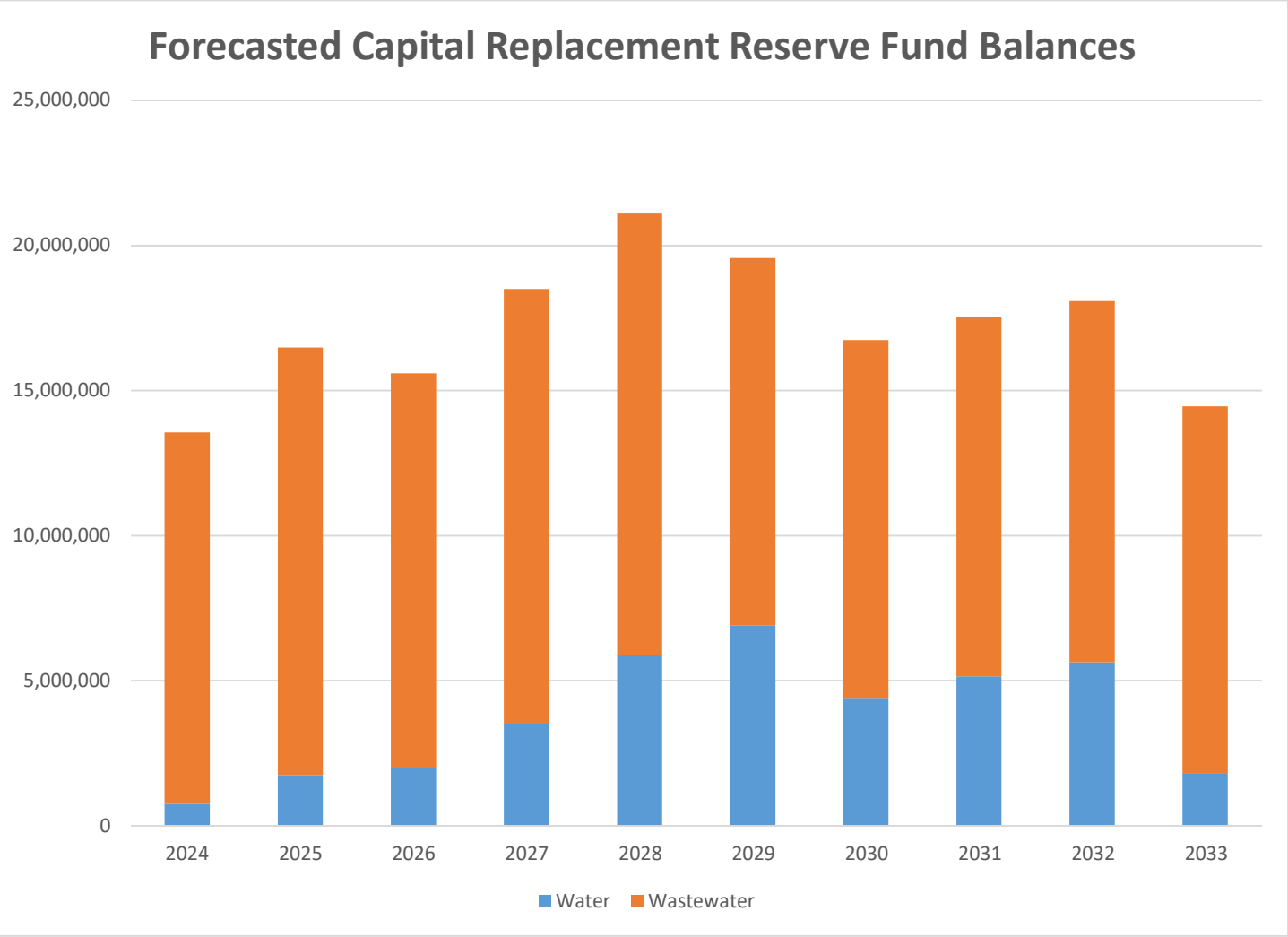


Grant Funding

As indicated above, the only predictable grant funding is the County’s annual Canada Community Building Fund Allocation (formerly known as the Federal Gas Tax Allocation), which is expected to be approximately \$3.0 million per year. Prior to 2024, the funding allocation was being split 50/50 between Rate capital and Tax Capital projects. Communities select how best to direct these funds across 19 project categories. Staff took a detailed look at the use of the CCBF Funds while preparing the 2024-2033 Capital Forecast and are proposing to shift allocations from rate capital projects to tax capital projects in an attempt to alleviate pressures in tax-supported capital replacement reserve balances. As a result, CCBF Funding for rate projects has been phased out entirely by 2030. Moving forward, staff will continue to monitor the use of this grant, and may recommend further changes to the allocations, depending on the capital needs. Currently there is no other grant funding included in the rate supported capital forecast.

Impacts on Reserves and Reserve Funds

As noted above, reserves and reserve funds are a critical component of a municipality’s long-term financing plan and represent the major financing source for projected future capital projects. Included in the appendices is a summary of the water and wastewater capital replacement reserve funds. Income for these funds is derived from the County’s rate supported operating budget and is used to fund the proposed capital projects included in the 2024 Draft Rate Supported Capital Budget and Forecast to 2033. The following chart outlines the projected balance of the water and wastewater capital replacement reserve funds (impacts on the development charges reserve funds are described in more detail later in this report).



The capital financing principles, included in Capital Appendix A, require the respective reserve funds to remain positive over the forecasted period. In addition, any particular year’s deficit cannot exceed 25% of the annual contributions to the respective reserve. As outlined in the graph above, the projected balances in the water and wastewater capital replacement reserve funds meet the financial principles outlined above. Although the water capital replacement reserve fund reaches a low balance in 2024, it does rebound in subsequent years, even with the phasing out of CCBF Funding for water capital projects. A more comprehensive asset replacement program is required in future years to identify specific financing needs so that the impacts on the capital replacement reserve can be re-evaluated at that time.

Capital related impacts include the combination of annual capital replacement reserve fund contributions and debt repayments. As outlined in Capital Summary 3, It is recommended that increases to these capital replacement reserve funds continue throughout the 10 year forecast, subject to annual review, to offset the anticipated future disbursements, particularly for water. The annual shift in additional contributions to water from wastewater has been phased in over a number of years but limited to a cumulative annual rate increase of 1.0%. Similar to the allocation of the Canada Community Building Funding, if future predictable grants are available for water/wastewater infrastructure projects, this reallocation will need to be re-evaluated.

Development Charges (DC)

During the comprehensive update to the Development Charges By-law in 2018/2019, detailed capital projects and the relative growth related proportions were identified. Incorporated in this analysis is the financing of these requirements over the next 10 and 20 years (10 years for parking, leisure, library, general government, cemeteries and ambulance services; 20 years for roads/bridges, fleet, fire services, water/water and storm sewer). As a result, the projects included in the 2024 Rate Supported Capital Budget and Forecast include the projects outlined in the Haldimand County Development Charge Background Study, dated March 5, 2019 with the exception of a few newly identified projects that will be included in the next DC Background Study.

During the setting of the development charges rates in 2018/2019, the anticipated timing of receipts in relation to infrastructure needs was evaluated. As a result, it was anticipated that certain development charges reserve funds would be “negative” over the period covered by the current rates. These shortfalls would be offset by growth related borrowing, Development Charge Debt (DC Debt), which would ultimately be collected from future development charges as these costs are fully self financed. A summary of the water and wastewater development charges reserve funds over the forecasted period is included in Capital Appendix E (which includes the impacts of any required DC debt).

Impact on Long Term Debt

As outlined in the Capital Financing Principles (Capital Appendix A), debt financing for rate supported projects is utilized in limited circumstances when insufficient alternative funds are not available.

Proposed New Debt: Over the ten year forecast, there is **NO** new proposed debt financed projects for water or wastewater projects. New debt to be issued over the forecast term includes existing projects where construction is to be completed and debt financed in 2024 or beyond.

Development Charge Debt (DC Debt): As outlined above, it is anticipated that new growth related debt to be recovered from future Development Charges will need to be issued over the forecast period to offset negative cash flows due to timing of Development Charges receipts (i.e. commonly referred to as DC or growth related debt). Over the ten year forecast, there is approximately \$95 million of new debt issuances required to fund specifically identified projects (approximately \$43 million when excluding the new/upgraded Caledonia WWTP).

FUTURE IMPACTS/BUDGET CONSTRAINTS

Although the County has consistently established the Rate Supported Budget as full cost recovery from the users of these systems (i.e. no property tax revenues support the water or wastewater operations or capital infrastructure), there are some areas that still require assumptions and projections that could impact future rates. In addition, as a result of changing legislative environments, operating costs can fluctuate year to year. These will have varying effects on future budgets; and it is anticipated that, through future reviews and closely monitoring actual results, impacts can be minimized. These future issues include:

- Impacts of additional customers and/or consumption patterns related to residential growth.
- Impacts of Reduced Consumption at Large Industrial Users – As indicated above, reduced consumption at the 4 large industrial operations (2 separate owners) could have significant impacts on future rates.
- Tangible Capital Asset Reporting and Long Range Asset Management – A comprehensive inventory of water and wastewater assets will identify the infrastructure needs for long range infrastructure planning.
- Ongoing Performance Evaluations of Facilities - Facility reviews and needs studies may impact future timing of required infrastructure replacements.
- Leachate Treatment Revenues – With the transition from landfill operations to a transfer station, the treatment of leachate from these closed landfills will decline over time and affect the revenues generated from the applicable treatment. Further review of leachate management will be completed in the upcoming years.
- Available Balances in Rate Stabilization Reserves – The availability of balances in rate stabilization reserves will be a major factor in the ability to offset/mitigate any of the above factors in a given year or over a planned timeframe. These balances need to be managed and monitored to ensure sufficient reserves are available.

All of these items could have substantial financial impacts on future County budgets and/or user rates.

CONCLUSION/RECOMMENDATIONS

In light of the current economic times and from a financial perspective, the 2024 Draft Rate Supported Operating Budget and Capital Forecast is fiscally responsible and based on sound financial principles. There are significant investments in rehabilitation/replacement of infrastructure while maintaining the integrity of the water and wastewater system.

Continual revisions to the operating budget process will help the County better allocate resources to manage its operations and develop a long range financial plan with predictable water and wastewater rates.

It is, therefore, recommended that Council adopt the 2024 Draft Rate Supported Operating Budget and Capital Forecast and associated revisions to user rates and miscellaneous fees and charges.

Prepared by: Heather Love, CPA, CGA, Supervisor, Budgets & Financial Planning

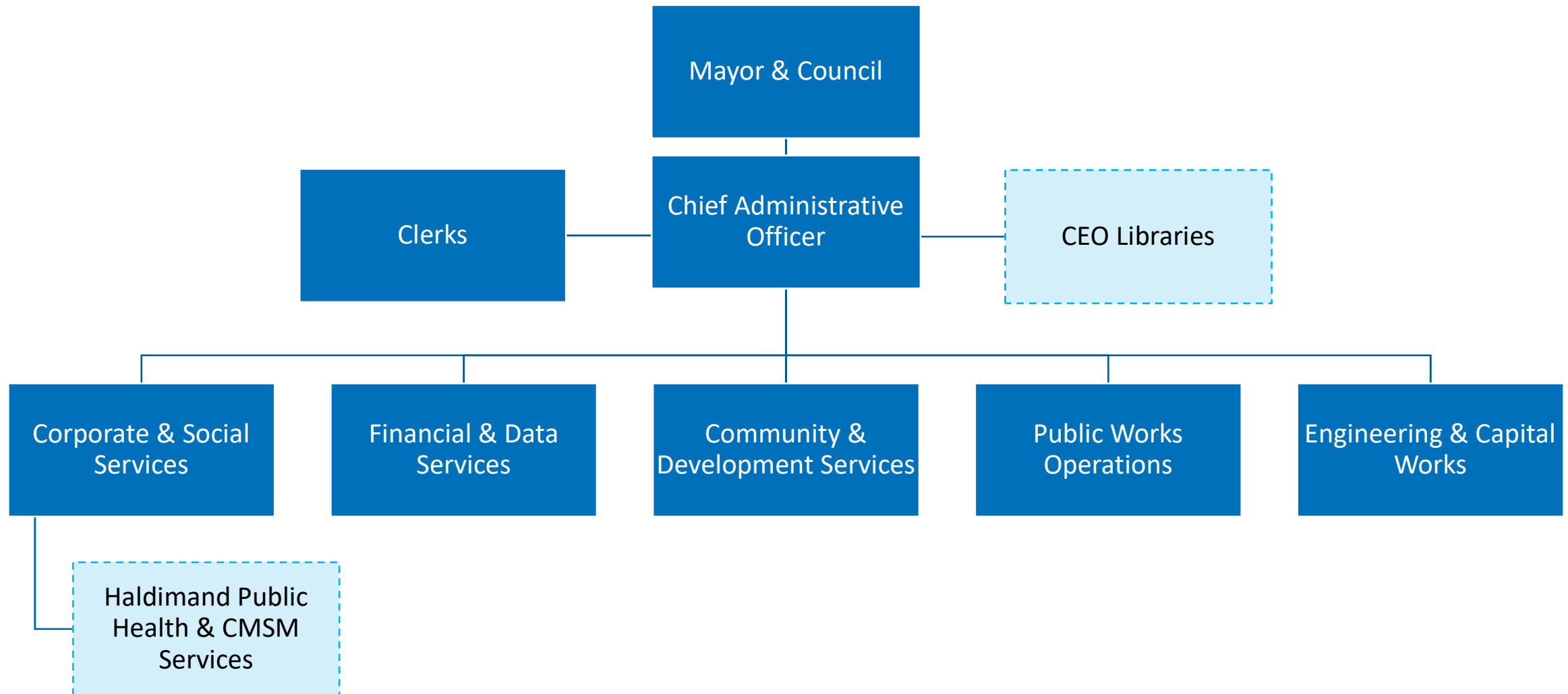
Reviewed by: Teri Trewolla, CPA, Treasurer

Respectfully submitted: Mark Merritt, CPA, CA, Chief Financial Officer and General Manager of Financial & Data Services



Haldimand
County

Governance



Haldimand County Council 2022-2026

Mayor

Shelley Ann Bentley

Ward 1 Stewart Patterson

Ward 4 Marie Trainer

Ward 2 John Metcalfe

Ward 5 Rob Shirton

Ward 3 Dan Lawrence

Ward 6 Patrick O'Neill

Haldimand County Senior Management

Cathy Case Chief Administrative Officer

Mike Evers General Manager,
Community & Development Services

Megan Jamieson General Manager,
Corporate & Social Services

Dan McKinnon General Manager,
Public Works Operations

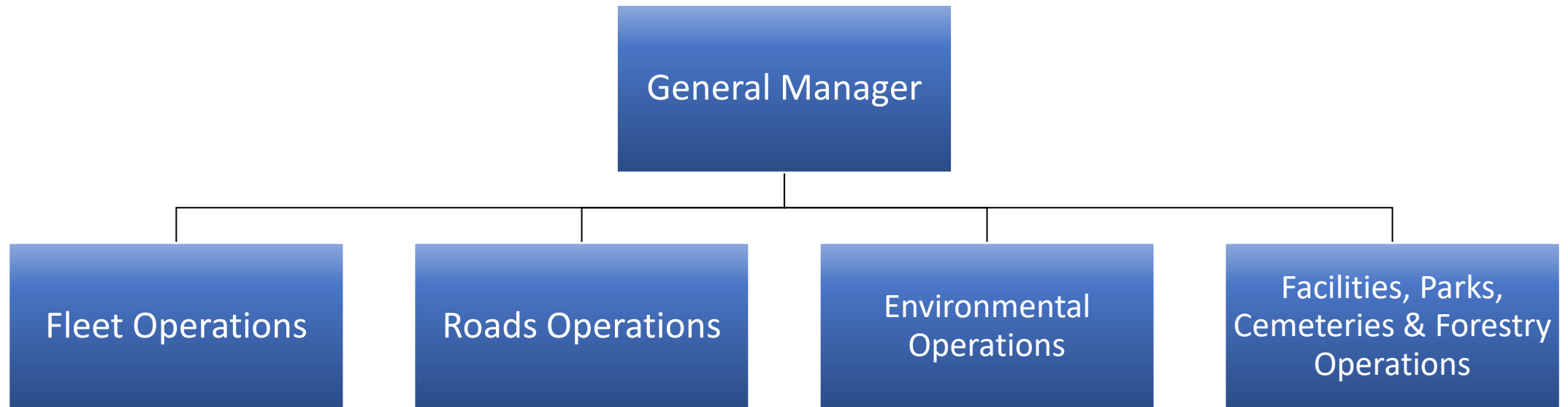
Mark Merritt General Manager,
Financial & Data Services

Tyson Haedrich General Manager,
Engineering & Capital Works



Haldimand
County

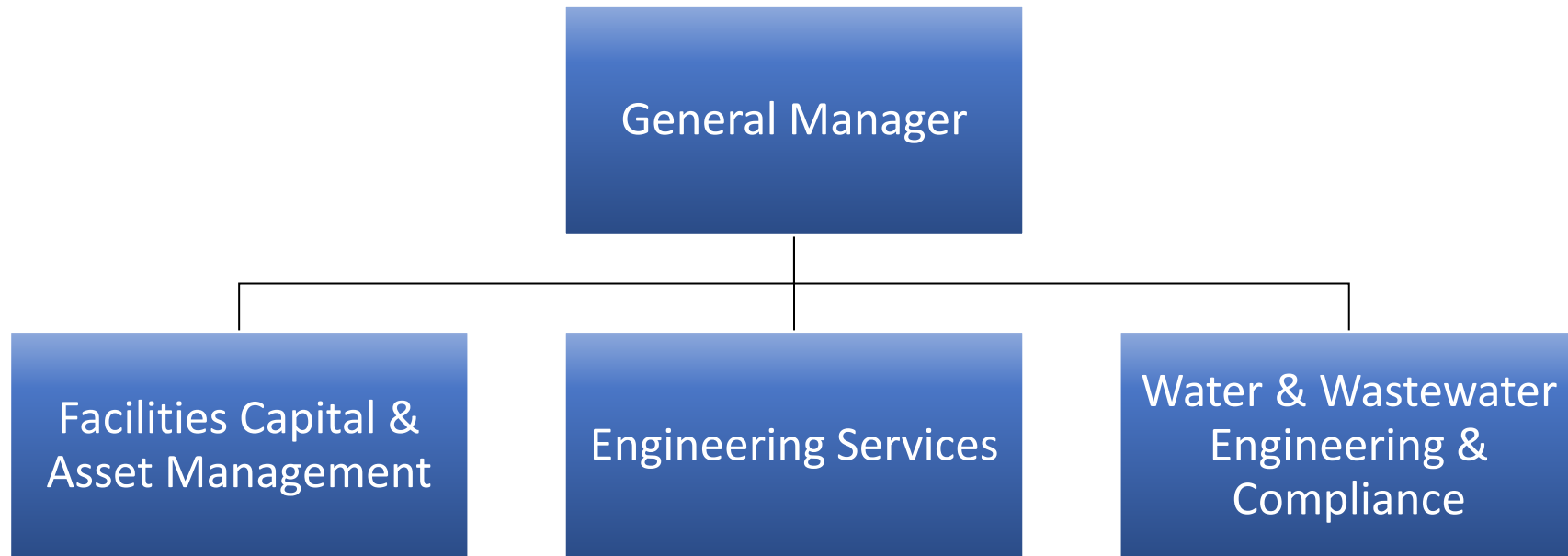
Public Works Operations





Haldimand
County

Engineering & Capital Works



DRAFT RATE SUPPORTED
OPERATING BUDGET
WATER & WASTEWATER



2024

Haldimand County 2024 Draft Rate Supported Operating Budget

Water and Wastewater Summary

Function:

To manage the County’s water supply, water and wastewater treatment systems as well as operate and maintain the County’s water distribution and wastewater collection systems.

Services:

The Water & Wastewater Operations Division and the Water & Wastewater Engineering Division are committed to providing safe, reliable drinking water and good economical effluent through the efficient, effective and environmentally responsible operation of the County’s Water and Wastewater systems.

Services include:

- Contract administration for the Nanticoke and Dunnville water treatment facilities and supply systems
- Operation of the Caledonia and Cayuga water supply systems
- Operation and maintenance of the County’s three water distribution systems, including fire hydrants, watermains and water meters
- Contract administration for the eight wastewater treatment facilities within the County
- Operation and maintenance of the County’s eight wastewater collection systems
- Ensuring legislative compliance for all aspects of the operation of the water and wastewater facilities
- Assessment and prioritization of short term and long term capital requirements for the water and wastewater systems through activities and initiatives designed to enhance understanding of system needs.

Service Issues:

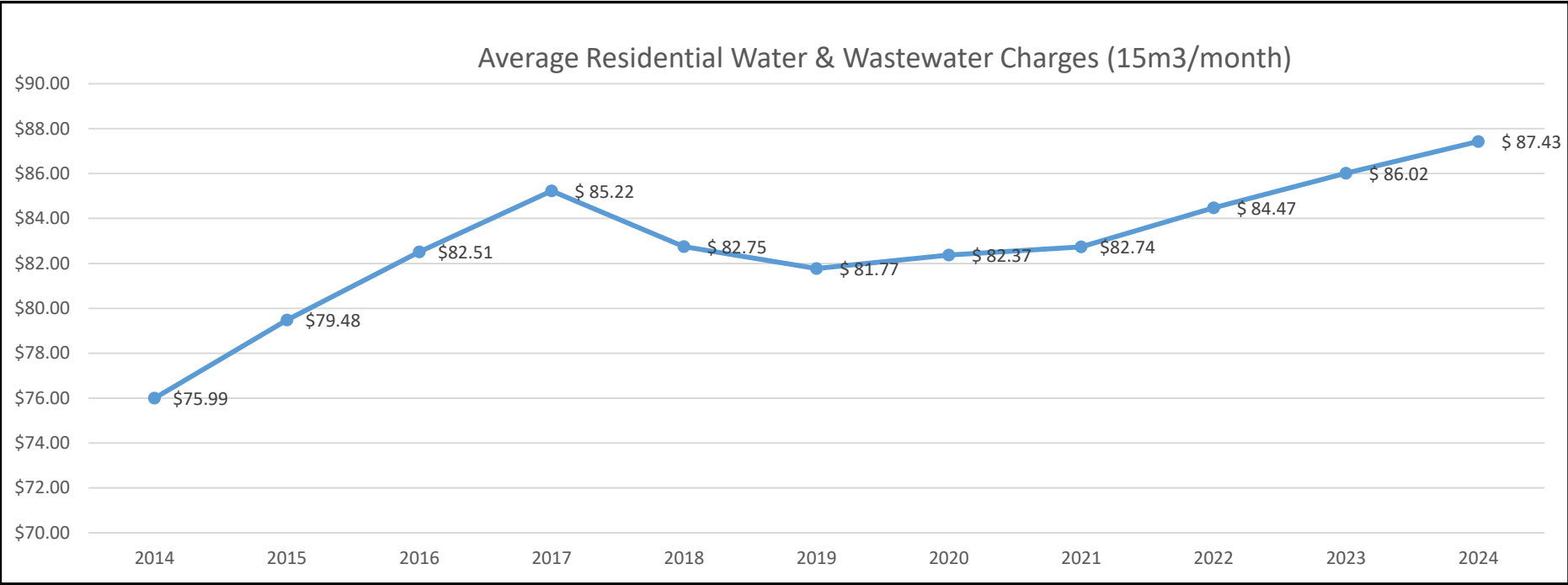
Ensure legislative compliance for all aspects of the operation of the water and wastewater facilities. Continued communication and involvement with Industries to ensure compliance with the Sewer use By-Law. Ongoing review and update of the Drinking Water Quality Management System for all water facilities and systems to meet the requirements of the Safe Drinking Water Act. Ensure effluent compliance through continuing optimization at all wastewater treatment facilities. Identification and prioritization of replacement and upgrade projects in water and wastewater treatment facilities throughout the County to ensure capable plants are in place. Promotion of optimization tools with a focus on data based decision making to enhance process control for all water treatment facilities to ensure the production of safe reliable water in sufficient quantity to meet system requirements.

Service Outcomes:

The establishment of a water and wastewater program that fosters a team-based approach to ensure the protection of public health and the environment. Resolution of servicing and environmental issues; building trust and positive relationships through strict adherence to legislative requirements and forged partnerships with local industries, the Mississaugas of the Credit First Nation and the City of Hamilton.



Average Customer Impacts



Average Monthly Residential Charges (15m3/month)	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	\$ Change	% Change
Water Basic	\$21.86	\$22.08	\$21.47	\$ 21.78	\$ 21.10	\$ 19.80	\$ 20.24	\$20.38	\$ 22.35	\$ 24.72	\$ 25.78	\$ 1.07	4.31%
Water Consumption	\$15.33	\$16.01	\$15.82	\$ 15.49	\$ 15.45	\$ 14.85	\$ 14.61	\$14.62	\$ 15.21	\$ 16.40	\$ 17.98	\$ 1.58	9.60%
Total Water Charges	\$37.19	\$38.09	\$37.29	\$ 37.27	\$ 36.55	\$ 34.65	\$ 34.85	\$35.00	\$ 37.56	\$ 41.12	\$ 43.76	\$ 2.64	6.42%
Wastewater Basic	\$20.99	\$22.54	\$23.73	\$ 25.45	\$ 24.14	\$ 24.03	\$ 24.86	\$24.60	\$ 24.71	\$ 23.98	\$ 23.69	\$ (0.29)	-1.21%
Wastewater Consumption	\$17.82	\$18.85	\$21.49	\$ 22.50	\$ 22.05	\$ 23.09	\$ 22.66	\$23.14	\$ 22.20	\$ 20.91	\$ 19.98	\$ (0.94)	-4.48%
Total Wastewater Charges	\$38.81	\$41.39	\$45.22	\$ 47.95	\$ 46.20	\$ 47.12	\$ 47.52	\$47.74	\$ 46.91	\$ 44.90	\$ 43.67	\$ (1.23)	-2.73%
Total Water & Wastewater Charges	\$75.99	\$79.48	\$82.51	\$ 85.22	\$ 82.75	\$ 81.77	\$ 82.37	\$82.74	\$ 84.47	\$ 86.02	\$ 87.43	\$ 1.41	1.64%

Change Request

Change Request: AUTO - 2109 - 2024 Townsend Lagoon Monitoring

Budget Year: 2024

Budget Program: Wastewater
Change Request Category: New Initiative
Justification: Provincially/Federally Mandated

Budget Category: Wastewater Collection General
Type: New Service/Program
Frequency: Ongoing

Description:

Annual monitoring and triennial report as required by the Ministry of the Environment, Conservation and Parks per Environmental Compliance Approval (ECA) 1799-ARBJGR.

Business Case:

Monitoring of Townsend Lagoon site and related reporting is a requirement of the MECP approvals to operate the site.

New Initiative Details	2024 Base Budget	2024 One-Time New Initiative Impacts	2024 Ongoing New Initiative Impacts	2024 Revised Total Budget
Expenses				
Contracted Services				
Contracted Services			7,500	7,500
Subtotal			7,500	7,500
Net Levy Impact			7,500	7,500



Haldimand County 2024 Rate Supported Operating Budget Summary

Corporate Summary By Type

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Expenses:						
Salaries, Wages & Benefits	3,264,230	3,264,230	-	3,350,900	86,670	2.66%
Long Term Debt Charges	4,377,170	4,377,170	-	3,880,000	(497,170)	-11.36%
Materials	5,561,605	5,284,710	(276,895)	5,720,400	435,690	8.24%
Utilities	2,595,640	2,759,850	164,210	2,611,350	(148,500)	-5.38%
Contracted Services	6,554,130	6,489,150	(64,980)	7,229,090	739,940	11.40%
Rents and Financial Expenses	7,726	16,780	9,054	16,780	-	0.00%
Transfers to Reserves/Reserve Funds	3,737,639	3,750,410	12,771	4,148,650	398,240	10.62%
Interfunctional Adjustments	758,710	758,710	-	781,500	22,790	3.00%
Total Expenses:	26,856,850	26,701,010	(155,840)	27,738,670	1,037,660	3.89%
Revenues:						
General Recoveries	(23,856,365)	(24,109,120)	(252,755)	(25,398,750)	(1,289,630)	5.35%
Development Charges Reserve Funds	(2,431,890)	(2,431,890)	-	(2,196,320)	235,570	-9.69%
Transfers from Reserves/Reserve Funds	(160,000)	(160,000)	-	(143,600)	16,400	-10.25%
Total Revenues:	(26,448,255)	(26,701,010)	(252,755)	(27,738,670)	(1,037,660)	3.89%
Projected Surplus/(Deficit)	408,595	-	(408,595)	-	-	0.00%



Haldimand County 2024 Rate Supported Operating Budget Summary

Water

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Expenses:						
Salaries, Wages & Benefits	2,139,040	2,139,040	-	2,208,890	69,850	3.27%
Long Term Debt Charges	1,273,960	1,273,960	-	1,193,080	(80,880)	-6.35%
Materials	5,050,555	4,773,630	(276,925)	5,223,380	449,750	9.42%
Contracted Services	3,080,090	3,053,320	(26,770)	3,336,530	283,210	9.28%
Rents and Financial Expenses	4,353	13,380	9,027	13,380	-	0.00%
Transfers to Reserves/Reserve Funds	1,690,290	1,690,290	-	1,913,900	223,610	13.23%
Interfunctional Adjustments	427,630	427,630	-	440,480	12,850	3.00%
Utilities	1,771,480	1,808,250	36,770	1,758,080	(50,170)	-2.77%
Total Expenses:	15,437,398	15,179,500	(257,898)	16,087,720	908,220	5.98%
Revenues:						
General Recoveries	(14,229,192)	(14,587,450)	(358,258)	(15,513,830)	(926,380)	6.35%
Development Charges Reserve Funds	(502,050)	(502,050)	-	(502,090)	(40)	0.01%
Transfers from Reserves/Reserve Funds	(90,000)	(90,000)	-	(71,800)	18,200	-20.22%
Total Revenues:	(14,821,242)	(15,179,500)	(358,258)	(16,087,720)	(908,220)	5.98%
Projected Surplus/(Deficit)	616,156	-	(616,156)	-	-	0.00%



Haldimand County 2024 Rate Supported Operating Budget

Water Administration

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Expenses:						
Salaries, Wages & Benefits	1,020,220	1,020,220	-	1,030,950	10,730	1.05%
Long Term Debt Charges	1,273,960	1,273,960	-	1,193,080	(80,880)	-6.35%
Materials	333,860	352,380	18,520	327,580	(24,800)	-7.04%
Utilities	-	9,000	9,000	-	(9,000)	-100.00%
Contracted Services	292,370	295,590	3,220	305,390	9,800	3.32%
Rents and Financial Expenses	3,273	3,300	27	3,300	-	0.00%
Transfers to Reserves/Reserve Funds	1,690,290	1,690,290	-	1,913,900	223,610	13.23%
Interfunctional Adjustments	266,960	266,960	-	274,990	8,030	3.01%
Total Expenses:	4,880,933	4,911,700	30,767	5,049,190	137,490	2.80%
Revenues:						
General Recoveries	(27,337)	(24,840)	2,497	(28,040)	(3,200)	12.88%
Transfers from Reserves/Reserve Funds	(90,000)	(90,000)	-	(71,800)	18,200	-20.22%
Total Revenues:	(117,337)	(114,840)	2,497	(99,840)	15,000	-13.06%
Revenue Required from User Rates	4,763,596	4,796,860	33,264	4,949,350	152,490	3.18%



Haldimand County 2024 Rate Supported Operating Budget

Water Treatment General

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Expenses:						
Materials	214,136	161,050	(53,086)	182,120	21,070	13.08%
Utilities	1,657,790	1,685,560	27,770	1,632,790	(52,770)	-3.13%
Contracted Services	2,498,200	2,468,210	(29,990)	2,735,620	267,410	10.83%
Interfunctional Adjustments	70	70	-	70	-	0.00%
Total Expenses:	4,370,196	4,314,890	(55,306)	4,550,600	235,710	5.46%
Revenues:						
General Recoveries	(2,141,960)	(2,141,960)	-	(2,339,000)	(197,040)	9.20%
Total Revenues:	(2,141,960)	(2,141,960)	-	(2,339,000)	(197,040)	9.20%
Revenue Required from User Rates	2,228,236	2,172,930	(55,306)	2,211,600	38,670	1.78%



Haldimand County 2024 Rate Supported Operating Budget

Water Distribution General

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Expenses:						
Salaries, Wages & Benefits	1,118,820	1,118,820	-	1,177,940	59,120	5.28%
Materials	4,502,559	4,260,200	(242,359)	4,713,680	453,480	10.64%
Utilities	113,690	113,690	-	125,290	11,600	10.20%
Contracted Services	289,520	289,520	-	295,520	6,000	2.07%
Rents and Financial Expenses	1,080	10,080	9,000	10,080	-	0.00%
Interfunctional Adjustments	160,600	160,600	-	165,420	4,820	3.00%
Total Expenses:	6,186,269	5,952,910	(233,359)	6,487,930	535,020	8.99%
Revenue Required from User Rates	6,186,269	5,952,910	(233,359)	6,487,930	535,020	8.99%



Haldimand County 2024 Rate Supported Operating Budget

Water Fees and Charges

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Revenues:						
General Recoveries	(4,581,810)	(4,730,300)	(148,490)	(4,810,980)	(80,680)	1.71%
Development Charges Reserve Funds	(502,050)	(502,050)	-	(502,090)	(40)	0.01%
Total Revenues:	(5,083,860)	(5,232,350)	(148,490)	(5,313,070)	(80,720)	1.54%
Revenue Required from User Rates	(5,083,860)	(5,232,350)	(148,490)	(5,313,070)	(80,720)	1.54%



Haldimand County 2024 Rate Supported Operating Budget

Water User Rates Revenues

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Revenues:						
General Recoveries	(7,478,085)	(7,690,350)	(212,265)	(8,335,810)	(645,460)	8.39%
Total Revenues:	(7,478,085)	(7,690,350)	(212,265)	(8,335,810)	(645,460)	8.39%
Revenue Required from User Rates	(7,478,085)	(7,690,350)	(212,265)	(8,335,810)	(645,460)	8.39%



Haldimand County 2024 Rate Supported Operating Budget

Summary

Wastewater

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Expenses:						
Salaries, Wages & Benefits	1,125,190	1,125,190	-	1,142,010	16,820	1.49%
Long Term Debt Charges	3,103,210	3,103,210	-	2,686,920	(416,290)	-13.41%
Materials	511,050	511,080	30	497,020	(14,060)	-2.75%
Contracted Services	3,474,040	3,435,830	(38,210)	3,892,560	456,730	13.29%
Rents and Financial Expenses	3,373	3,400	27	3,400	-	0.00%
Transfers to Reserves/Reserve Funds	2,047,349	2,060,120	12,771	2,234,750	174,630	8.48%
Interfunctional Adjustments	331,080	331,080	-	341,020	9,940	3.00%
Utilities	824,160	951,600	127,440	853,270	(98,330)	-10.33%
Total Expenses:	11,419,452	11,521,510	102,058	11,650,950	129,440	1.12%
Revenues:						
General Recoveries	(9,627,173)	(9,521,670)	105,503	(9,884,920)	(363,250)	3.81%
Development Charges Reserve Funds	(1,929,840)	(1,929,840)	-	(1,694,230)	235,610	-12.21%
Transfers from Reserves/Reserve Funds	(70,000)	(70,000)	-	(71,800)	(1,800)	2.57%
Total Revenues:	(11,627,013)	(11,521,510)	105,503	(11,650,950)	(129,440)	1.12%
Projected Surplus/(Deficit)	(207,561)	-	207,561	-	-	0.00%



Haldimand County 2024 Rate Supported Operating Budget

Wastewater Administration

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Expenses:						
Salaries, Wages & Benefits	853,590	853,590	-	855,560	1,970	0.23%
Long Term Debt Charges	3,103,210	3,103,210	-	2,686,920	(416,290)	-13.41%
Materials	255,420	255,450	30	233,980	(21,470)	-8.40%
Utilities	-	9,000	9,000	-	(9,000)	-100.00%
Contracted Services	298,810	297,360	(1,450)	307,160	9,800	3.30%
Rents and Financial Expenses	3,273	3,300	27	3,300	-	0.00%
Transfers to Reserves/Reserve Funds	2,047,349	2,060,120	12,771	2,234,750	174,630	8.48%
Interfunctional Adjustments	235,180	235,180	-	242,240	7,060	3.00%
Total Expenses:	6,796,832	6,817,210	20,378	6,563,910	(253,300)	-3.72%
Revenues:						
General Recoveries	(27,097)	(25,400)	1,697	(27,800)	(2,400)	9.45%
Transfers from Reserves/Reserve Funds	(70,000)	(70,000)	-	(71,800)	(1,800)	2.57%
Total Revenues:	(97,097)	(95,400)	1,697	(99,600)	(4,200)	4.40%
Revenue Required from User Rates	6,699,735	6,721,810	22,075	6,464,310	(257,500)	-3.83%



Haldimand County 2024 Rate Supported Operating Budget

Wastewater Treatment General

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Expenses:						
Materials	212,870	212,870	-	219,670	6,800	3.19%
Utilities	750,000	868,440	118,440	768,410	(100,030)	-11.52%
Contracted Services	3,129,490	3,092,730	(36,760)	3,534,860	442,130	14.30%
Total Expenses:	4,092,360	4,174,040	81,680	4,522,940	348,900	8.36%
Revenue Required from User Rates	4,092,360	4,174,040	81,680	4,522,940	348,900	8.36%



Haldimand County 2024 Rate Supported Operating Budget

Wastewater Collection General

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Expenses:						
Salaries, Wages & Benefits	271,600	271,600	-	286,450	14,850	5.47%
Materials	42,760	42,760	-	43,370	610	1.43%
Utilities	74,160	74,160	-	84,860	10,700	14.43%
Contracted Services	45,740	45,740	-	50,540	4,800	10.49%
Rents and Financial Expenses	100	100	-	100	-	0.00%
Interfunctional Adjustments	95,900	95,900	-	98,780	2,880	3.00%
Total Expenses:	530,260	530,260	-	564,100	33,840	6.38%
Revenue Required from User Rates	530,260	530,260	-	564,100	33,840	6.38%



Haldimand County 2024 Rate Supported Operating Budget

Wastewater Fees and Charges

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Revenues:						
General Recoveries	(2,229,749)	(1,977,960)	251,789	(2,152,290)	(174,330)	8.81%
Development Charges Reserve Funds	(1,929,840)	(1,929,840)	-	(1,694,230)	235,610	-12.21%
Total Revenues:	(4,159,589)	(3,907,800)	251,789	(3,846,520)	61,280	-1.57%
Revenue Required from User Rates	(4,159,589)	(3,907,800)	251,789	(3,846,520)	61,280	-1.57%



Haldimand County 2024 Rate Supported Operating Budget

Wastewater User Rates Revenues

	2023 Current Forecast	2023 Revised Budget	2023 Surplus/ (Deficit)	2024 Proposed Budget	2024 Budget \$ Incr/(Decr)	2024 Budget % Incr/(Decr)
Revenues:						
General Recoveries	(7,370,327)	(7,518,310)	(147,983)	(7,704,830)	(186,520)	2.48%
Total Revenues:	(7,370,327)	(7,518,310)	(147,983)	(7,704,830)	(186,520)	2.48%
Revenue Required from User Rates	(7,370,327)	(7,518,310)	(147,983)	(7,704,830)	(186,520)	2.48%

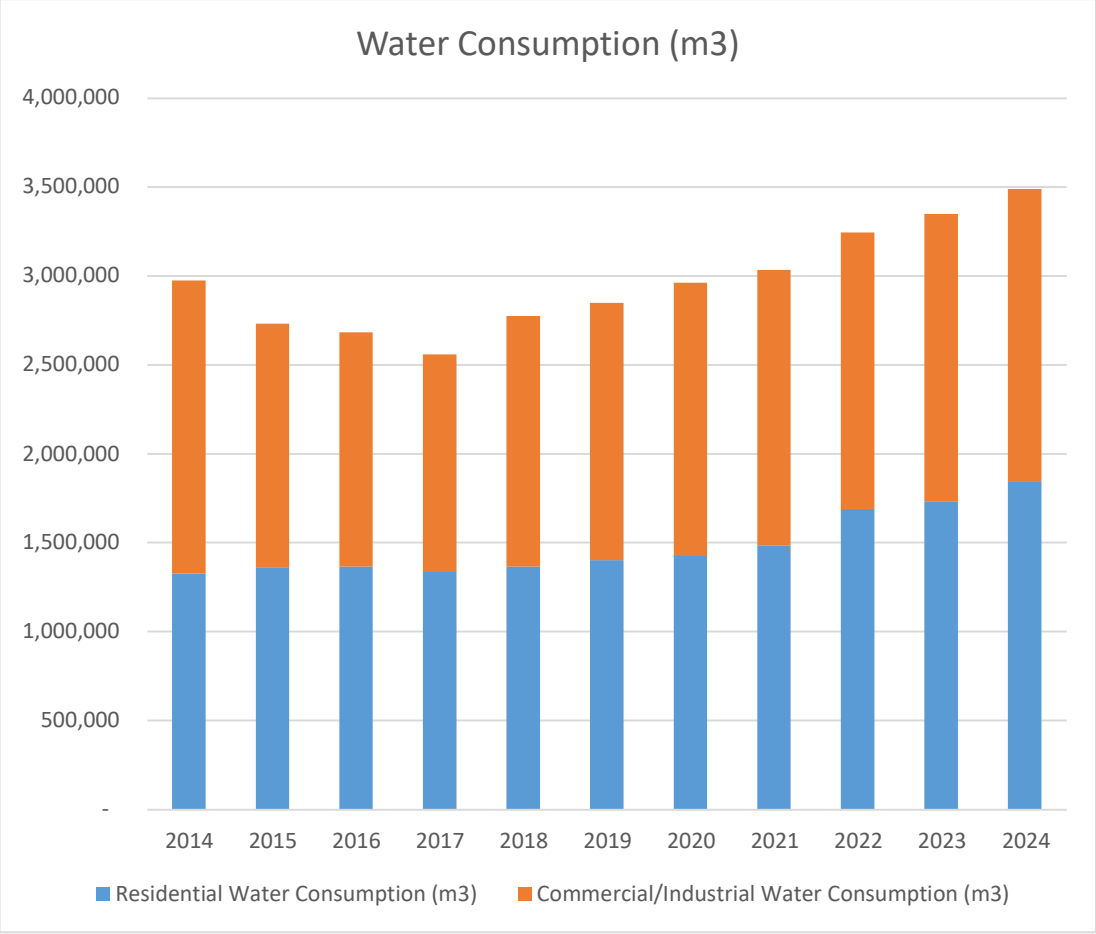
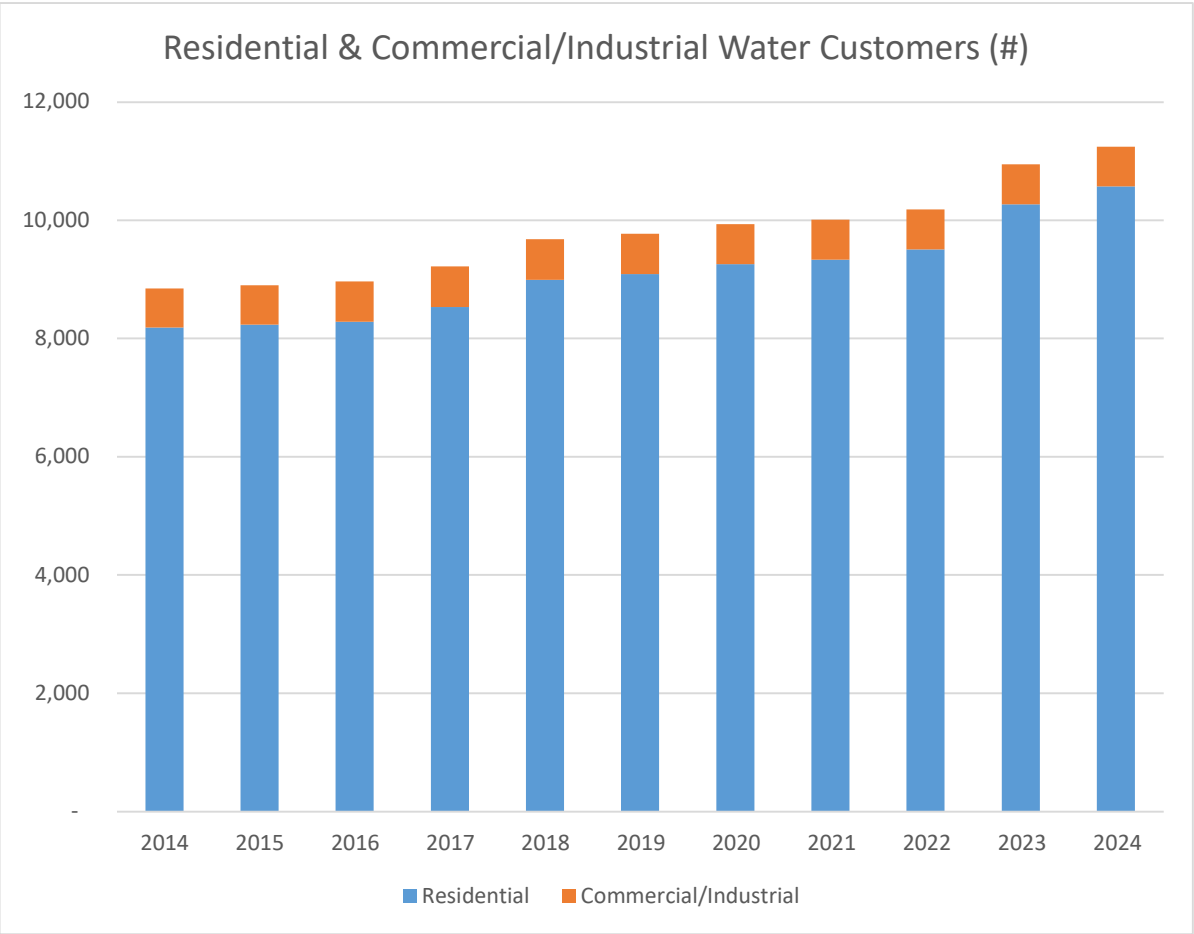


Rate Stabilization Reserves

FORECAST OF RATE STABILIZATION RESERVE - WATER							
FOR THE YEARS 2021 TO 2027							
	2021	2022	2023	2024	2025	2026	2027
	ACTUALS	Actuals	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST
	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	2,850,905	3,131,053	3,016,081	1,698,552	1,746,111	1,795,003	1,845,263
Source of Funds:							
Budgeted Annual Contribution							
Surplus/(Deficit) from Operations	193,435		(616,156)				
Interest Earned	86,713	71,180	68,627	47,559	48,891	50,260	51,667
Total Source of Funds	280,148	71,180	(547,529)	47,559	48,891	50,260	51,667
Use of Funds:							
Commitment for Active Projects							
Contribution to Operations		186,151	20,000				
Potential Contribution to CRRF - Water			750,000				
Total Use of Funds	-	186,151	770,000	-	-	-	-
Closing Balance December 31st	3,131,053	3,016,081	1,698,552	1,746,111	1,795,003	1,845,263	1,896,930
Balance in Reserve as a Percentage of Rates Revenue	52.93%	45.83%	22.09%	20.95%	21.53%	22.14%	22.76%
Rates Revenue	5,915,590	6,581,020	7,690,350	8,335,810	8,335,810	8,335,810	8,335,810
Budgeted Annual Contribution as a % of Rates Revenue	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
FORECAST OF RATE STABILIZATION RESERVE - WASTEWATER							
FOR THE YEARS 2021 TO 2027							
	2021	2022	2023	2024	2025	2026	2027
	ACTUALS	Actuals	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST
	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	1,728,245	2,909,916	3,598,348	3,906,663	4,016,049	1,832,261	1,883,564
Source of Funds:							
Budgeted Annual Contribution							
Leachate/Overstrength contributions	146,331	162,687					
Surplus/(Deficit) from Operations	982,775	457,894	207,561				
Interest Earned	52,566	67,850	100,754	109,387	66,212	51,303	52,740
Total Source of Funds	1,181,672	688,431	308,315	109,387	66,212	51,303	52,740
Use of Funds:							
Commitment for Active Projects							
Potential Contribution to CRRF - Wastewater					2,250,000		
Total Use of Funds	-	-	-	-	2,250,000	-	-
Closing Balance December 31st	2,909,916	3,598,348	3,906,663	4,016,049	1,832,261	1,883,564	1,936,304
Balance in Reserve as a Percentage of Rates Revenue	41.27%	49.69%	51.96%	52.12%	23.78%	24.45%	25.13%
Rates Revenue	7,050,310	7,242,070	7,518,310	7,704,830	7,704,830	7,704,830	7,704,830
Budgeted Annual Contribution as a % of Rates Revenue	2.08%	2.25%	0.00%	0.00%	0.00%	0.00%	0.00%
Notes:							
Utilizing historical deficits data, it is prudent to ensure a reserve balance of 25% of rates revenue; this was a four year plan to ensure the annual contribution is approximately 3% of rates revenue starting in 2014. As both the water and wastewater rate stabilization reserves contain healthy balances, contributions ceased in 2018.							
Staff will continue to monitor the reserve balances for the potential requirement of additional contributions.							
If the balance within the reserve is greater than 25% of rates revenue for four years in a row, the additional amount will be contributed to CRRF to assist in offsetting potential increases required for the capital program and implementation of asset management.							
Due to budget pressures in the water operations budget, the rate stabilization reserve was utilized over the period of 2022 to 2023 to help reduce the impact on the end users.							



Consumer and Consumption Statistics



Includes all water customers, including standby regardless of consumption usage.
Validation of customer data has been completed since 2014. Previous years are based on estimates.
2024 Consumers based on validation of current users and anticipated growth.

2024 average monthly residential consumption is forecasted to be approximately 15 m3



WATER AND WASTEWATER FEES AND SERVICE CHARGES BY-LAW
INDEX OF SCHEDULES

Schedule	Division
A	Water and Wastewater Metered Charges
B	Water and Wastewater Bulk Service Charges
C	Water and Wastewater General Fees
D	Water and Wastewater Access Refusal and Tampering Charges
E	Fees and Charges Cost Calculation Template
Note: Housekeeping changes, if any, will be highlighted on the related schedule.	



Schedule A - Metered Charges

Schedules should be read in conjunction with the By-Law for all applicable terms and conditions.

Water and Wastewater Metered Charges		Description		2023 Charge	2024 Charge	% Increase
Water						
Consumption Charges		\$/m3		\$1.0936	\$1.1986	9.60%
Basic Charges:		\$/month based on domestic service size		see below	see below	n/a
		Service Size:				
		mm	inches			
R1/C1	16 & 19	5/8 & 3/4		\$24.72	\$25.78	4.31%
R2/C2	25	1		\$24.72	\$25.78	4.31%
R3/C3	37	1.5		\$139.64	\$145.66	4.31%
R4/C4	50	2		\$303.51	\$316.59	4.31%
C5	75	3		\$534.11	\$557.13	4.31%
C6	100	4		\$1,062.29	\$1,108.07	4.31%
C7	150	6		\$1,976.03	\$2,061.19	4.31%
C8	200	8		\$3,375.19	\$3,520.65	4.31%
Flat Rate		Consumption charge: 15 m3/month (20 m3/month in 2020)		\$16.40	\$17.98	9.60%
		R1/C1 Basic Charge		\$24.72	\$25.78	4.31%
		Total Flat Rate		\$41.12	\$43.76	6.42%
Standby Charge		When a property temporarily discontinues the supply of water or when a property is being developed or re-developed, a standby charge is billed based on the basic rate for the applicable service size until connection is in place. The standby charge represents the Basic Water charge.				
Wastewater						
Consumption Charges		\$/m3		\$1.3943	\$1.3319	-4.48%
Basic Charges:		\$/month based on domestic service size		see below	see below	n/a
		Service Size:				
		mm	inches			
R1/C1	16 & 19	5/8 & 3/4		\$23.98	\$23.69	-1.21%
R2/C2	25	1		\$23.98	\$23.69	-1.21%
R3/C3	37	1.5		\$135.50	\$133.86	-1.21%
R4/C4	50	2		\$294.51	\$290.94	-1.21%
C5	75	3		\$518.27	\$512.00	-1.21%
C6	100	4		\$1,030.78	\$1,018.31	-1.21%
C7	150	6		\$1,917.42	\$1,894.22	-1.21%
C8	200	8		\$3,275.09	\$3,235.46	-1.21%
Flat Rate		Consumption charge: 15 m3/month (20 m3/month in 2020)		\$20.91	\$19.98	-4.48%
		R1/C1 Basic Charge		\$23.98	\$23.69	-1.21%
		Total Flat Rate		\$44.90	\$43.67	-2.73%
Standby Charge		When a property temporarily discontinues the use of the wastewater system or when a property is being developed or re-developed and discontinues the use of the wastewater system, a standby charge is billed based on the basic rate for the applicable service size until connection is in place. The standby charge represents the Basic Wastewater charge.				
Water and Wastewater Arrears						
Transfer to Taxes		Non-payment will result in the outstanding amounts due being transferred to the current property owners tax account within 60 days.				
Transfer to Taxes - Tenants		Non-payment by a tenant will result in the outstanding amount due being transferred to the property owner's tax account within 60 days.				



Schedule B - Bulk Service Charges

Schedules should be read in conjunction with the By-Law for all applicable terms and conditions.

Water and Wastewater Bulk Service Charges	Description	2023 Charge	2024 Charge	% Increase
Water				
Bulk Water Consumption Rate	\$/m3	\$3.33	\$3.43	3.00%
Bulk Water Administration Fee	for months with billable consumption	\$19.07	\$19.64	3.00%
Bulk Water	Account Activation Fee (note: accounts will be deactivated if there is no consumption in the prior twelve month calendar year)	\$31.27	\$32.21	3.00%
Bulk Water	Re-Activation Fee	\$31.27	\$32.21	3.00%
New Credit Wholesale Rate	\$/m3 (12% reduction of metered water charge based on agreement)	\$0.96	\$1.05	9.60%
Wastewater				
Bulk Wastewater Disposal	Leachate - Local Volumetric Charge (\$/m3)	\$19.90	\$24.34	22.28%
Bulk Wastewater Disposal	Leachate - Base Charge	\$724,200	\$724,200	0.00%
Bulk Wastewater Disposal	Leachate - Haldimand Leachate Capital Charge (annual)	\$27,137	\$27,137	0.00%
Effluents exceeding the wastewater use by-law limits		cost recovery plus Admin Fee	cost recovery plus Admin Fee	n/a
Bulk Wastewater Disposal Consumption Rate	Blended Septic/Holding Toilet Waste (per m3)	\$15.92	\$16.39	3.00%
Bulk Wastewater Disposal Administration Fee	Septic/Holding Tank/Portable Toilet Hauler Administration Fee (per month) for months with billable disposable volumes	\$19.06	\$19.64	3.00%

Fees effective January 1st, 2024 unless otherwise stated.



Schedule C - General Fees

Schedules should be read in conjunction with the By-Law for all applicable terms and conditions.

Water and Wastewater General Fees	Description	2023 Charge	2024 Charge	% Increase
Connection Permits and Fees				
Charges payable to the Corporation of Haldimand County for permits, inspections, material and labour. Charges vary depending on type and size of connection.				
Missed Appointment Fee		\$103	\$106	2.91%
Water Connection	Main to Street Line: Includes Inspection and Main Tap (contractor to supply all materials)	\$393	\$405	3.05%
Water Meter	Water Meter for new construction	Meter Cost	Meter Cost	n/a
	5/8" or 3/4" Meter	\$317	\$317	0.00%
	1' Meter	\$374	\$374	0.00%
	1.5" Meter	\$723	\$730	0.97%
	2" Meter	\$939	\$993	5.75%
Water Main Service Connection 100mm (4") Diameter and Larger	Inspection includes: operating valves to isolate main, installation inspection, pressure test verification, meter and backflow installation, hi range chlorine sampling, flushing (contractor to tap main and supply all materials)	\$102 per hour	\$ 105 per hour	2.94%
Bacteriological Testing for New 100mm (4") Diameter & Larger	Water Mains or Services - includes sampling and transport to accredited laboratory per sampling site	\$213	\$219	2.82%
Water Disconnection Inspection	Inspection Only (contractor to supply all materials)	\$103	\$106	2.91%
Sanitary Sewer Service Connection 100mm (4") Diameter	Main to Street Line - Includes Inspection and Main Tap (contractor to supply all materials)	\$393	\$405	3.05%
Other Sanitary Sewer Service Connection Diameters	Main to Street Line: 150mm (6") or Greater Diameter: Inspection Only	\$186	\$192	3.23%
Sanitary Sewer Disconnection Inspection	Inspection Only (contractor to supply all materials)	\$103	\$106	2.91%
Connection Fees	Existing house to connect to the water system - per Development Charges By-law for Singles and Semis	per Development Charges By-law	per Development Charges By-law	n/a
Connection Fees	Existing house to connect to the sewer system - per Development Charges By-law for Singles and Semis	per Development Charges By-law	per Development Charges By-law	n/a
Connection Fees	Monthly Fee for new construction prior to the meter installation. Based on Flat Rate of 20 m3 volume for Water and Wastewater. Monthly fee will be charged until a water meter is installed.	Flat Rate Water and Wastewater	Flat Rate Water and Wastewater	n/a
Testing of Water Meters				
Testing Requests	Customers may request that their water meter be tested. If the meter is found to be accurate, the customer must pay carrying charges and cost of testing, in addition to payment in full of the bill(s) in question. The following is an excerpt from Haldimand County's Water Use By-Law describing how the charge for testing of meters works.			
	"No person shall test any meter except the Water Purveyor. The Water Purveyor shall remove and test any meter by an owner or agent of the owner. If the meter is found to be inaccurate, Haldimand shall adjust the water bill accordingly. A new or rebuilt displacement meter from 17mm (5/8) to 50mm (2") in size will be deemed to be inaccurate if it records outside of the accuracy limits of 98.5 to 101.5 percent on high and intermediate flows and 95.0 to 101.0 percent on low flows. New and rebuilt compound meters, turbine meters, multi-jet meters and propeller meters from 50mm (2") to 250mm (10") in size will be deemed to be inaccurate if they record 2 percent higher or lower than the manufacturers' recommended accuracy limits. Repaired meters of all sizes will be deemed to be inaccurate if they record outside of the accuracy limit of 90 percent minimum. A rebuilt meter is defined as one that has had the measuring element replaced with a factory-made new unit. A repaired meter is defined as one that has had the old measuring element cleaned and refurbished."			
External Testing	Testing done at customer's request - includes meter removal, shipment and cost of test	100% cost recovery	100% cost recovery	n/a
Water Turn On/Off				
A customer may request their water be turned on or off due to an internal plumbing problem or for seasonal protection of the plumbing. Haldimand County Finance may initiate a turn off due to non-payment of a bill. The following is an excerpt of Haldimand County's Water Use By-Law.				



Schedule C - General Fees

Schedules should be read in conjunction with the By-Law for all applicable terms and conditions.

Water and Wastewater General Fees	Description	2023 Charge	2024 Charge	% Increase
"No person shall turn off or turn on a water service except the Water Purveyor. If the Water Purveyor is requested to turn off or turn on a water service, a service charge as detailed in Miscellaneous Charges is to be paid, it being understood that no water service will be turned off or turned on unless the consumer or another person authorized in writing to act on his behalf, is present on the premises."				
During Normal Working Hours	Water Turn On	\$103	\$106	2.91%
During Normal Working Hours	Water Turn Off	\$103	\$106	2.91%
During Normal Working Hours	Water Turn On/Off Same Day for Fix and Repair	\$115	\$118	2.61%
During Normal Working Hours	Water Turn On and Meter Reconnection	\$115	\$118	2.61%
During Normal Working Hours	Water Turn Off and Meter Disconnection	\$115	\$118	2.61%
During Normal Working Hours	Water Meter Removal or Install	\$22	\$23	4.55%
Outside of Normal Working Hours	Water Turn On	\$226	\$233	3.10%
Outside of Normal Working Hours	Water Turn Off	\$226	\$233	3.10%
Outside of Normal Working Hours	Water Turn On and Meter Reconnection	\$272	\$280	2.94%
Outside of Normal Working Hours	Water Turn Off and Meter Disconnection	\$272	\$280	2.94%
Outside of Normal Working Hours	Water Meter Removal or Install	\$45	\$46	2.22%
Winter Control Service Calls				
Customers may call the County to perform certain services caused by cold weather conditions.				
Thawing Frozen Water Service Lines	During Normal Working Hours (per hour) (min. 1 hr)	\$153	\$158	3.27%
Thawing Frozen Water Service Lines	Outside of Normal Working Hours (per hour) (min. 2 hrs)	\$271	\$279	2.95%
Replacement of Water Meter due to Frost Plate damage	During Normal Working Hours	Meter Cost plus \$102	Meter Cost plus \$105	2.94%
Replacement of Water Meter due to Frost Plate damage	Outside of Normal Working Hours	Meter Cost plus \$267	Meter Cost plus \$275	3.00%
	5/8" or 3/4" Meter	\$317	\$327	3.15%
	1" Meter	\$374	\$385	2.94%
	1.5" Meter	\$723	\$745	3.04%
	2" Meter	\$939	\$967	2.98%
Sanitary Sewer Rodding/Teley Video				
If County staff determine that a sewer line blockage is the property owner's responsibility, the charges below will be billed. Services provided outside of normal working hours will be charged a minimum 2 hours.				
Sanitary Sewer Rodding	During Normal Working Hours - each full or additional hours (min. 1 hr)	\$302	\$311	2.98%
Sanitary Sewer Rodding	Outside of Normal Working Hours - each full or additional hours (min. 2 hrs)	\$529	\$545	3.02%
Sewer Video	Sewers will be videoed during normal working hours only. Rate is per hour with a minimum of a one (1) hour charge	\$255	\$263	3.14%
Dye Testing	During normal working hours (min. 1 hr)	\$150	\$155	3.33%
Dye Testing	Outside of normal working hours (min. 2 hrs)	\$266	\$274	3.01%
Vactor Charge	During normal working hours (min. 1 hr)	\$314	\$323	2.87%
Vactor Charge	Outside of normal working hours (min. 2 hrs)	\$575	\$592	2.96%
Wastewater Charges				
Sewer Sludge Storage Costs	Sludge Storage - Townsend Lagoon per Cubic Meter (m3)	\$5.141	\$5.296	3.00%
Sanitary Discharge Agreement	Over-strength discharge fee formula "R" value ("R" means the rate for sewage treatment in\$/m3 of sewage flow as set out from time to time by the County)	\$1.13	\$1.164	3.00%
Sanitary Discharge Agreement	New discharger information report administrative fee	\$274	\$282	2.92%



Schedule C - General Fees

Schedules should be read in conjunction with the By-Law for all applicable terms and conditions.

Water and Wastewater General Fees	Description	2023 Charge	2024 Charge	% Increase
Sanitary Discharge Agreement	Existing discharger information report administration fee	\$274	\$282	2.92%
Sanitary Discharge Agreement	Sanitary discharge agreement annual administration fee	\$1,641	\$1,690	2.99%
Sanitary Discharge Agreement	Sanitary discharge agreement amendment request application processing fee	\$274	\$282	2.92%
Sanitary Discharge Agreement	Application for a hauled sewage discharge permit processing fee	\$274	\$282	2.92%
Sanitary Discharge Agreement	Annual hauled sewage discharge permit processing fee	\$274	\$282	2.92%
Sanitary Discharge Agreement	Haldimand County assistance with all other additional requests	100% Cost Recovery	100% Cost Recovery	n/a
Wastewater Discharge Program	Application fee	\$274	\$282	2.92%
Wastewater Discharge Program	Engineering Compliance Report	100% Cost Recovery	100% Cost Recovery	n/a
Wastewater Discharge Program	Meter Testing, Meter Calibration, Meter Installation, Other administrative costs	100% Cost Recovery	100% Cost Recovery	n/a
Other Services				
Inspection of external services		100% Cost Recovery	100% Cost Recovery	n/a
Installation of Communication Antennae System on County Facilities	Other Agencies or Departments of the County	No Charge	No Charge	n/a
Installation of Communication Antennae System on County Facilities	Local Emergency Services, Provincial and Federal Agencies or Ministries per year, per mounting	\$2,993	\$3,083	3.01%
Installation of Communication Antennae System on County Facilities	Private Enterprises	Per Contract	Per Contract	n/a
Administration Fees and Late Payment Interest Charges				
Note: the following charges may be administered by a 3rd party on behalf of the County				
Arrears Certificate		\$18.00	\$19.00	5.56%
Non-sufficient Funds Charge (NSF)		\$39.00	\$40.00	2.56%
Credit Reference/Credit Check		\$18.00	\$19.00	5.56%
Account Setup Charge		\$36.00	\$37.00	2.78%
Late Payment Interest Charges:				
	Per Month	1.25%	1.25%	n/a
	Per Year	15.00%	15.00%	n/a
Transfer to Property Tax Account for Collection	adding water and wastewater charges that remain unpaid after the due date, to the property tax owners account	\$36.00	\$37.00	2.78%



Schedule D - Refusal & Tampering

Schedules should be read in conjunction with the By-Law for all applicable terms and conditions.

Water and Wastewater Access Refusal and Tampering Charges	Description	2023 Charge	2024 Charge	% Increase
Refusal of Entry for Inspection, Installation, Repair or Replacement of Meters/Equipment, Water Service Leaks				
These fees outline the applicable charges to residents who refuse access required for maintenance, inspection, installation, repair or replacement of meters/equipment.				
Disconnect from the System	Applicable to non-paying derelict properties. Costs to be recovered by the owner. Disconnect at property line or main is at the discretion of the County. Charges unpaid will be added to tax account following proper process	100% Cost Recovery	100% Cost Recovery	n/a
Refuse Access	Shut off - this is only an option if owner is refusing access and not paying their bill	100% Cost Recovery + continuation of monthly basic charge fee	100% Cost Recovery + continuation of monthly basic charge fee	n/a
Refuse Access	Monthly meter read estimate	\$66.00	\$68.00	3.03%
Refuse Access	Police attendance for enforcement	100% Cost Recovery	100% Cost Recovery	n/a
Refuse Access	Court costs to gain entry	100% Cost Recovery	100% Cost Recovery	n/a
Meter Pit Installation	Applicable cost for owners who refuse access to property	100% Cost Recovery	100% Cost Recovery	n/a
Tampering	Charge for tampering with Water Meter and/or Water Service. All costs of repairs to services and equipment will be recovered 100% in addition to the Tampering Charge and estimated consumption charges.	\$574.00	\$591.00	2.96%
When it is determined that a meter fails to register accurately the quantity of water consumed, during the period of such failure the quantity shall be estimated by the County.				

SCHEDULE E					
FEES AND CHARGES COST CALCULATION TEMPLATE					
Service/Activity to be calculated:					
Description of Service/Activity:					
Input required in yellow cells only. The only items requiring input on this tab are those highlighted in yellow. This sheet is a summary tab of all of the input completed on the subsequent tabs and is used to calculate the final costs for the fee to be charged. There are hyperlinks in the title of each section below which will bring you directly to the tab where the input is required. Please insert the name of the user fee under Service/Activity to be calculated along with a description of the fee under Description of Service/Activity . If the fee is to be offset by a revenue source (i.e. Subsidized by levy, grant funding, etc), enter the percentage or the dollar value of the reduction under Ancillary Revenues on this tab. Once all information has been input, the total fee will be calculated in cell G59 . If you plan on adjusting the fee (i.e. Rounding, or changing for any other purpose), please input the adjust amount, or duplicate the amount in cell G59 in cell G60 . Ensure you document why the value is different in the Comment section. Finally, please select from the drop down beside Applicable Taxes . If you are unsure what applies here, please contact your financial analyst for assistance.					
COSTS:		DESCRIPTION OF COSTS/SERVICES:		HOURS/UNITS:	ESTIMATED COSTS:
DIRECT COSTS:					
WAGES & BENEFITS: Staffing Costs: Staffing Benefit Costs: Supervisor Costs: Supervisor Benefit Costs:	Hours x Hourly Rate		0.00	\$0.00	
	County Average Benefit Percentage		48%	\$0.00	
	Hours x Hourly Rate		0.00	\$0.00	
	County Average Benefit Percentage		48%	\$0.00	
VEHICLE COSTS:	Vehicles Used:	# of Vehicles Used:	Operating Hours:		
		0		\$0.00	
				\$0.00	
				\$0.00	
ADMINSITRATIVE COSTS: Inspection Costs: Benefits: Photocopying Mailing Filing OTHER COSTS:	Number of Staff x Hours x Hourly Rate		0.00	\$0.00	
	County Average Benefit Percentage		48%	\$0.00	
	Cost of Photocopying & Paper			\$0.00	
	Cost for Regular Mail			\$0.00	
	Copying & Filing Internal Copies			\$0.00	
	Description:	Cost Per Unit:	Units:		
		\$0.00	0	\$0.00	
		\$0.00	0	\$0.00	
		\$0.00	0	\$0.00	
TOTAL DIRECT COSTS:				\$0.00	
INDIRECT COSTS: Department Overhead Allocation County General Admin Overhead	Allocation to Department of Allocation (%) Council, CAO, Finance, Clerk's & General Overhead (%)			\$0.00 \$0.00	
	TOTAL INDIRECT COSTS:				
TOTAL COSTS:				\$0.00	
Less: Ancillary Revenues:	Grants & Offsetting Revenues		Percentage:		
			\$ Amount:	\$0.00	
CALCULATED USER FEE				\$0.00	
ADJUSTED USER FEE APPROVED BY COUNCIL					
		Applicable Taxes		1	
		Final User Fee Including		\$0.00	
Comments:					



Haldimand
County

DRAFT RATE SUPPORTED
CAPITAL FORECAST
WATER & WASTEWATER



2024



2024 - 2033 Rate Supported Capital Forecast
Project Changes Over \$100,000

Budget Program	Budget Category	Project #	Project Title	State of Good Repair/New	Explanation	Change Type	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water	Caledonia Water Distribution	472005	Elevated Storage Tank Replacement	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Increases are a result of indexing.	Project Shifted/Increase					(435,400)		(7,590,100)		480,600	8,174,000	629,100
		472029	Cal - Caithness St - Cameron St to Argyle St N [CIW] [R] [SS]	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Co-ordinated project with road reconstruction and storm sewer components.	Project Shifted						1,023,300	(1,023,300)				
		472036	Cal - Shetland St - Caithness St W to Sutherland St W [CIW] [R]	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Co-ordinated project with road reconstruction component.	Project Shifted						208,500	(208,500)				
		472037	Cal - Nairne St - Sutherland St E to Orkney St E [CIW] [R]	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Co-ordinated project with road reconstruction component.	Project Shifted						280,300	(280,300)				
		472041	Cal - Forfar St W - Argyle St S to Peebles St [R] [W]	Replacement/State of Good Repair	Project added during 2024 budget cycle. Co-ordinated project with road reconstruction component.	Project Added										590,000	590,000
		472042	Cal - Selkirk St - Renfrew St W to Forfar St W [R] [W]	Replacement/State of Good Repair	Project added during 2024 budget cycle. Co-ordinated project with road reconstruction component.	Project Added										230,000	230,000
		472043	Cal - Fife St W - Argyle St S to Wigton St [R] [W]	Replacement/State of Good Repair	Project added during 2024 budget cycle. Co-ordinated project with road reconstruction component.	Project Added										230,000	230,000
		472044	Caledonia Standpipe Interior Re-Lining	Replacement/State of Good Repair	Project added during 2024 budget cycle. Existing coating system of inside of standpipe is degrading. Applying a new coating system (re-lining) interior of standpipe will extend it's service life and help to maintain water quality. This immediate repair is required to ensure it will last until the planned replacement at the end of the 10-year Capital Forecast.	Project Added	780,000										780,000
		Total					780,000				(435,400)	1,512,100	(9,102,200)		480,600	9,224,000	2,459,100
	Cayuga Water Distribution	475030	Cay - Ottawa St N - Talbot St W to Kerr St W [CIW] [R]	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year outside of the 10- Year Forecast.	Project Deleted					(117,900)						(117,900)
		475031	Cay - Ottawa St N - Kerr St W to Mohawk St W [CIW] [R]	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year outside of the 10- Year Forecast.	Project Deleted					(142,800)						(142,800)
		475035	Cay - Winnett St N - Kerr St E to Echo St E [R] [CIW]	Replacement/State of Good Repair	Project added during 2024 budget cycle. Co-ordinated project with road reconstruction component.	Project Added					400,000						400,000
		Total									139,300						139,300



2024 - 2033 Rate Supported Capital Forecast
Project Changes Over \$100,000

Budget Program	Budget Category	Project #	Project Title	State of Good Repair/New	Explanation	Change Type	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water (cont'd.)	Dunnville Water Treatment Plant	476090	Dunnville Port Maitland Raw Water Supply Line Relining	Replacement/State of Good Repair	Project added during 2024 budget cycle. Following a phased approach, reline the raw water supply line from Port Maitland to Dunnville WTP over a period of time. The raw water supply line is a critical component of the water treatment plant, is approaching its expected service life and currently has no redundancy.	Project Added					179,400	183,900	188,500	193,200	198,000	203000	1,146,000
	Total										179,400	183,900	188,500	193,200	198,000	203,000	1,146,000
	Hagersville Water Distribution	473019	Hwy #6 Transmission Main Twinning	New/Enhanced Service	Project reassessed during 2024 budget cycle. Updated budget reflects the cost of multiple water and road intersection crossings that require directional drilling at a premium cost, as well as additional valve chambers (identified through design activities initiated in 2023) and more recent construction costs for linear pipe. Updated costs have been compared to costing Norfolk is using for transmission main construction from Townsend to Simcoe and appears to be consistent.	Scope Change	6,500,000										6,500,000
		473012	Hag - Fairfield Dr - Elm Ave to Hunter St [CIW] [R]	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Co-ordinated project with road reconstruction component.	Project Shifted						(381,500)	381,500				
		473013	Hag - Hunter St - Church St E to Fairfield Dr [CIW] [R]	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Co-ordinated project with road reconstruction component.	Project Shifted						(254,400)	254,400				
		473015	Hag - Hunter St - Fairfield Dr to King St E [CIW] [R]	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Co-ordinated project with road reconstruction component.	Project Shifted						(127,200)	127,200				
		473016	Hag - Elm Ave - Sherring St S to Fairfield Dr [CIW] [R]	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Co-ordinated project with road reconstruction component.	Project Shifted						(152,600)	152,600				
		473017	Hag - Elm Ave - Fairfield Dr to Hunter St [CIW] [R]	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Co-ordinated project with road reconstruction component.	Project Shifted						(292,600)	292,600				
		473030	Hag - Parkview Rd - Main St S to King St E [R] [CIW]	Replacement/State of Good Repair	Project added during 2024 budget cycle. Co-ordinated project with road reconstruction component.	Project Added									390,000		390,000
		473032	Hagersville Standpipe Coating Maintenance	Replacement/State of Good Repair	Project added during 2024 budget cycle. Based on condition assessment, the interior coating of the Hagersville standpipe requires spot repairs and recoating in order to prolong asset life and safeguard water quality.	Project Added			400,000								400,000
	Total						6,500,000		400,000			(1,208,300)	1,208,300		390,000		7,290,000



2024 - 2033 Rate Supported Capital Forecast
Project Changes Over \$100,000

Budget Program	Budget Category	Project #	Project Title	State of Good Repair/New	Explanation	Change Type	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water (cont'd.)	Nanticoke Water Treatment Plant	479070	Nanticoke WTP Intake Source Protection Measurers	New/Enhanced Service	This project was previously identified when it was believed that the County would be taking over ownership of a portion of the OPG forebay and intake. This is no longer the case, instead the County is entering into an easement agreement for it's use.	Project Deleted	(100,000)										(100,000)
		479135	Nanticoke Reservoir Baffling Phase 2	New/Enhanced Service	Project added during 2024 budget cycle. Project is believed to be necessary in order to effectively treat anticipated flows from Norfolk. Project will benefit both municipalities and will be cost shared based on Water Servicing Agreement with Norfolk.	Project Added			825,000								825,000
		479136	Nanticoke Reservoir Transfer System	New/Enhanced Service	Project added during 2024 budget cycle. Design and install a transfer system to transfer water from one reservoir to another in order to maximize water storage availability between the two reservoirs. Water transfer between the two reservoirs is limited based on piping configuration. Adding pumping capability will significantly increase the volume of water able to be transferred. Project will benefit Norfolk as well, and will be cost shared based on Water Servicing Agreement with Norfolk.	Project Added			345,000							345,000	
		479075	Reservoir Valvehouse AHU	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Increases are a result of indexing.	Project Shifted/Increase	(136,600)		143,500								6,900
		479121	Nanticoke WTP Reservoir Exterior Wall Repairs	Replacement/State of Good Repair	Project added during 2024 budget cycle. Exposed concrete is showing signs of deterioration and safety railing is heavily corroded. Based on asset condition, concrete restoration work and railing replacement is required. Project is NOT believed to be eligible for cost sharing with Norfolk.	Project Added			250,000								250,000
		479129	Nanticoke IPS Chlorine Disinfection system Refurbishment	Replacement/State of Good Repair	Project added during 2024 budget cycle. Refurbish and replace the existing chlorine disinfection system including; chemical feed pumps, piping, tanks and spill containment area.	Project Added	130,000										130,000
		479131	Nanticoke IPS MCC1 and MCC2 Refurbishments	Replacement/State of Good Repair	Project added during 2024 budget cycle. Refurbish MCC1 in 2027 and MCC2 in 2028. Differences in budget year costs are a result of indexing.	Project Added				175,000	179,400						354,400
		479132	Nanticoke IPS Laneway Access Hatch Concrete Repairs	Replacement/State of Good Repair	Project added during 2024 budget cycle. Access hatch to pipe gallery located in laneway to IPS requires restoration. Structural repair is necessary so that deliveries can be made to the IPS using the laneway that the access hatch is located in.	Project Added	215,000										215,000
		Total							108,400		1,563,500	175,000	179,400				



2024 - 2033 Rate Supported Capital Forecast
Project Changes Over \$100,000

Budget Program	Budget Category	Project #	Project Title	State of Good Repair/New	Explanation	Change Type	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water (cont'd.)	Townsend Water Distribution	479117	Townsend Distribution Transmission Watermain Upsizing - Nanticoke Creek Pkwy to Stone Quarry Rd	New/Enhanced Service	Project added during 2024 budget cycle. Existing 500mm diameter watermain is not capable of meeting the demand needs for Norfolk County as it pertains to the Water Servicing Agreement.	Project Added			95,000	575,000							670,000
		479118	Townsend Distribution Transmission Watermain Upsizing - Stone Quarry Rd to Townsend Elevated Tank	New/Enhanced Service	Project added during 2024 budget cycle. Existing 500mm diameter watermain is not capable of meeting the demand needs for Norfolk County as it pertains to the Water Servicing Agreement.	Project Added						250,000	1,800,000			2,050,000	
	Total								95,000	575,000		250,000	1,800,000			2,720,000	
	Total for Water							7,388,400		2,058,500	750,000	62,700	737,700	(5,905,400)	193,200	1,068,600	9,427,000



2024 - 2033 Rate Supported Capital Forecast
Project Changes Over \$100,000

Budget Program	Budget Category	Project #	Project Title	State of Good Repair/New	Explanation	Change Type	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Wastewater	Caledonia Wastewater Collection	452044	McClung SPS Forcemain Extension	New/Enhanced Service	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Project deferral aligns with revised timing of new Caledonia WWTP, and anticipated cost increases resulted from collection system cost review.	Project Shifted/Increase			(1,330,100)	2,175,000							844,900
		452045	Nairne St. SPS Forcemain Extension	New/Enhanced Service	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Project deferral aligns with revised timing of new Caledonia WWTP, and anticipated cost increases resulted from collection system cost review.	Project Shifted/Increase			(1,330,100)	2,175,000						844,900	
		452046	McClung SPS Upgrades	New/Enhanced Service	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Project deferral aligns with revised timing of new Caledonia WWTP, and anticipated cost increases resulted from collection system cost review.	Project Shifted/Increase			(333,300)	800,000						466,700	
		452071	Caledonia Paisley Street Pump Station Backup Generator Replacement	Replacement/State of Good Repair	Project added during 2024 budget cycle. Existing backup generator has met its life expectancy.	Project Added			120,000								120,000
		452077	Cal - Sutherland St E - E Edinburgh to Haller Cres [R] [STR] [SS] [WWW]	Replacement/State of Good Repair	Project added during 2024 budget cycle. Co-ordinated project with road reconstruction, storm sewer and retaining wall components.	Project Added	300,000										300,000
	Total						300,000		(2,873,500)	5,150,000							2,576,500
	Caledonia Wastewater Treatment Plant	452025	Caledonia Wastewater Treatment Plant	New/Enhanced Service	Project reassessed during 2024 budget cycle and resulted in updated cost estimates and shift in project years. Change in project timelines reflects the approach to phase capacity building in alignment with forecasted growth, and to ensure all costs are eligible to be factored into development charges.	Project Shifted/Increase		(45,000,000)		35,000,000					25,000,000		15,000,000
452027		Cal WWTP Sludge Storage Tank Retrofit and Building Decommissioning	New/Enhanced Service	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Increases are a result of indexing.	Price Increase	(179,400)		225,000								45,600	
Total						(179,400)	(45,000,000)	225,000	35,000,000						25,000,000		15,045,600
Cayuga Wastewater Collection	455004	Ouse St PS Replacements	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Slight increase as a result of indexing.	Project Shifted		(1,600,000)	1,640,000									40,000
	455006	McKay St. Pump Station Upgrades and Pump Replacements	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in an increase in estimated costs based on meeting final design specifications.	Price Increase					625,000						625,000	
	Total							(1,600,000)	1,640,000		625,000						665,000



2024 - 2033 Rate Supported Capital Forecast
Project Changes Over \$100,000

Budget Program	Budget Category	Project #	Project Title	State of Good Repair/New	Explanation	Change Type	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Wastewater (cont'd.)	Cayuga Wastewater Treatment Plant	455025	Cayuga WWTP UV Disinfection Bulb Replacement	Replacement/State of Good Repair	Project added during 2024 budget cycle. Annual replacement of UV Bulbs, Quartz Covers and UV Sensors as needed. Scheduled replacement based on manufacturer's frequency is required to maintain an effective disinfection system for regulatory compliance.	Project Added	10,000	10,300	10,500	10,800	11,100	11,300	11,600	11,900	12,200	12,500	112,200
		455027	Cayuga WWTP Clarifier Mechanical Replacements	Replacement/State of Good Repair	Project added during 2024 budget cycle. Existing equipment is at life expectancy and is in need of replacement.	Project Added				100,000							100,000
		Total					10,000	10,300	10,500	110,800	11,100	11,300	11,600	11,900	12,200	12,500	212,200
	Dunnville Wastewater Collection	456073	Dunn - Tamarac St - Forest St to Park St [R] [WW]	Replacement/State of Good Repair	Project added during 2024 budget cycle. Co-ordinated project with road reconstruction component.	Project Added						30,000		225,000			255,000
		456074	Dunn - Niagara St - Broad St E to Main St E [R] [WW]	Replacement/State of Good Repair	Project added during 2024 budget cycle. Co-ordinated project with road reconstruction component.	Project Added										375,000	375,000
		456075	Dunn - Main Street E to Dunnville WW Treatment Plant [R] [WW]	Replacement/State of Good Repair	Project added during 2024 budget cycle. Co-ordinated project with road reconstruction component.	Project Added										180,000	180,000
		Total										30,000		225,000		555,000	810,000
	Dunnville Wastewater Treatment Plant	456017	Sludge Storage Cell #4 Upgrades and Screen	New/Enhanced Service	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Increases are a result of indexing.	Project Shifted/Increase	(99,800)	(382,300)	496,700								14,600
		456012	Aeration Diffuser System Replacement	Replacement/State of Good Repair	Budget reassessed for 2024 and resulted in a decrease, due to the fact that the purchase of all diffusers and installation of one side was captured within 2023 budget levels. 2024 amount	Scope Change	(107,600)										(107,600)
		456029	Clarifiers 3 & 4 Rebuild	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Slight reduction is a result of indexing.	Project Shifted/Decrease		150,000	(151,000)								(1,000)
		Total					(207,400)	(232,300)	345,700								(94,000)



2024 - 2033 Rate Supported Capital Forecast
Project Changes Over \$100,000

Budget Program	Budget Category	Project #	Project Title	State of Good Repair/New	Explanation	Change Type	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Wastewater (cont'd.)	Hagersville Wastewater Collection	453074	Parkview Pump Station Upgrades	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in an increase in estimated costs based on market values.	Price Increase	160,000										160,000
	Total						160,000										160,000
	Hagersville Wastewater Treatment Plant	453026	Grit Removal System	New/Enhanced Service	Project reassessed during 2024 budget cycle and resulted in updated cost estimates. Based on this increase, a review of timing of need was conducted and the project was deferred based on review outcomes.	Project Shifted/Increase		(1,025,000)			500,000	3,500,000					2,975,000
		453070	Hagersville WWTP UV Disinfection Bulb Replacement	Replacement/State of Good Repair	Project added during 2024 budget cycle. Annual replacement of UV Bulbs, Quartz Covers and UV Sensors as needed. Scheduled replacement based on manufacturer's frequency is required to maintain an effective disinfection system for regulatory compliance.	Project Added	20,000	20,500	21,100	21,600	22,100	22,700	23,200	23,800	24,400	25,000	224,400
	Total						20,000	(1,004,500)	21,100	21,600	522,100	3,522,700	23,200	23,800	24,400	25,000	3,199,400
	Jarvis Lagoons	454010	Jarvis Lagoon Clean Out	Replacement/State of Good Repair	Project reassessed during 2024 budget cycle and resulted in a shift in project year. Increases are a result of indexing.	Project Shifted/Increase			(472,800)				505,000				32,200
	Total								(472,800)				505,000				32,200
	Jarvis Wastewater Collection	454006	Walpole St - Sewer Pipe Upsize (Peel to Talbot) [R] [W] [SS]	New/Enhanced Service	Project reassessed during 2024 budget cycle and resulted in an increase in estimated costs based on market values. Co-ordinated project with road reconstruction, water and storm sewer components.	Price Increase	278,100										278,100
	Total						278,100										278,100
	Wastewater Treatment General	451024	Plant Capital Improvements	Replacement/State of Good Repair	Placeholder annual project for future plant improvements in years 6-10 of the 10-Year Forecast. 2029 Budget amended based on anticipated future needs analysis, 2033 added to forecast.	Project Shifted/Increase					(1,505,500)	(386,200)				2,100,000	208,300
	Total										(1,505,500)	(386,200)				2,100,000	208,300
Total for Wastewater							381,300	(47,826,500)	(1,104,000)	40,282,400	(347,300)	3,177,800	539,800	260,700	36,600	27,692,500	23,093,300
Total							7,769,700	(47,826,500)	954,500	41,032,400	(284,600)	3,915,500	(5,365,600)	453,900	1,105,200	37,119,500	38,874,000



Co-ordinated Projects
FOR THE YEARS 2024 to 2033

		TAX CAPITAL						WATER AND WASTEWATER CAPITAL				
Project	Timing	Roads 2023 Open Projects	Roads 10 Year Forecast	Storm 2023 Open Projects	Storm 10 Year Forecast	Other 2023 Open Projects	Other 10 Year Forecast	Water 2023 Open Projects	Water 10 Year Forecast	Wastewater 2023 Open Projects	Wastewater 10 Year Forecast	Project Total
Caledonia												
Master Servicing Plan	2026, 2032		119,200		71,700		-		108,000		108,000	406,900
Sutherland St E - Edinburgh E to Haller Cres	2023-2024		450,000	80,000	420,300		-		-		300,000	1,250,300
Aberdeen St - Burke to Sutherland	2025		72,800		-		-		115,300		-	188,100
Gypsum Ave - Argyle to End	2025		75,400		82,900		-		161,300		-	319,600
Inverness St - Caithness to Orkney	2025		207,300		103,700		-		443,600		-	754,600
Sutherland St W - Shetland to Inverness	2025		107,700		-		-		230,500		-	338,200
Caithness Street - Cameron to Argyle	2029-2030		487,400		536,100		-		1,023,300		-	2,046,800
Shetland St - Caithness St to Sutherland	2029		97,500		-		-		208,500		-	306,000
Nairne St - Sutherland to Orkney	2029		131,000		-		-		280,300		-	411,300
Forfar St W - Argyle St to Peebles	2033		368,000		-		-		590,000		-	958,000
Selkirk St - Renfrew St W to Forfar St W	2033		144,000		-		-		230,000		-	374,000
Fife St W - Argyle St S to Wigton St	2033		144,000		-		-		230,000		-	374,000
Caithness St. W - Retaining Wall	2023, 2025	195,600	800,000		-		-	40,000	-	25,000	-	1,060,600
Cayuga												
Master Servicing Plan	2024, 2030		68,300		34,100		-		54,000		54,000	210,400
Mohawk Street W - Munsee to Ottawa	2028		73,500		-		-		161,300		-	234,800
Norton Street West - Munsee to Ottawa	2028		75,400		-		-		161,300		-	236,700
Mohawk St E - Munsee to Winnett	2028		72,500		-		-		155,100		-	227,600
Cayuga/Talbot Street - Alleyway Water Relocation	2028		98,000		-		-		155,100		-	253,100
Winnett St N - Kerr St E to Echo St E	2028		310,000		-		-		400,000		-	710,000



Co-ordinated Projects
FOR THE YEARS 2024 to 2033

		TAX CAPITAL						WATER AND WASTEWATER CAPITAL				
Project	Timing	Roads 2023 Open Projects	Roads 10 Year Forecast	Storm 2023 Open Projects	Storm 10 Year Forecast	Other 2023 Open Projects	Other 10 Year Forecast	Water 2023 Open Projects	Water 10 Year Forecast	Wastewater 2023 Open Projects	Wastewater 10 Year Forecast	Project Total
Dunnville												
Master Servicing Plan	2023, 2029	30,800	35,700	30,800	35,700		-	30,000	34,800	30,000	34,800	262,600
Chestnut St W - Alder St E to South Cayuga St E	2031		84,300		-		-		180,400		-	264,700
Cross St W - Eliz Cr to Tamarac	2026		372,500		409,800		-		797,300		-	1,579,600
George St - Cross - North to End	2027		221,200		-		-		946,700		-	1,167,900
Bridge Street - Queen to Maple	2030-2031		58,400		-		-		87,000		-	145,400
Lock St - Cedar to Queen	2031		118,600		-		-		254,000		-	372,600
Queen Street- Chestnut to Maple	2031		103,000		-		-		142,900		-	245,900
Main St W - George - West to Cemetary	2031		187,300		-		-		400,800		-	588,100
Tamarac St - Forest St to Concession Rd E	2029, 2031		475,200		-		-		-		255,000	730,200
Niagara St - Broad St E to Main St E	2029, 2033		360,000		-		-		-		375,000	735,000
Main Street E to Dunnville WW Treatment Plant	2029, 2033		170,000		-		-		-		180,000	350,000
Taylor St - Broad St to Hald Rd #3	2027		175,000		-		-		374,000		-	549,000
Hagersville												
Master Servicing Plan	2023, 2028	30,000	34,800	15,400	17,400		-	30,000	34,000	30,000	34,000	225,600
Elm Ave - Sherring to Hunter	2029-2030		208,000		-		-		445,200		-	653,200
Fairfield Dr - Elm to Hunter	2029-2030		178,300		-		-		381,500		-	559,800
Hunter St - Church to King	2029-2030		172,400		-		-		381,600		-	554,000
Tuscarora St - King to Oneida	2023, 2025		303,000		-		-	70,000	418,000	20,000	600,000	1,411,000
Athens Street - Sherring to Cedar	2032		175,000		-		-		215,000		-	390,000
Sherring Street N - King to Marathon	2032		218,000		-		-		322,000		-	540,000
Parkview Rd - Main St S to King St E	2032		861,000		-		-		390,000		-	1,251,000
King St W - Rail Line to Tuscarora St [CIW] [R]	2025		72,000		-		-		121,000		-	193,000
Parkview/Concession 12 - Watermain Upsizing	2023, 2025		-		-		-	62,000	401,000		-	463,000



Co-ordinated Projects
FOR THE YEARS 2024 to 2033

		TAX CAPITAL						WATER AND WASTEWATER CAPITAL				
Project	Timing	Roads 2023 Open Projects	Roads 10 Year Forecast	Storm 2023 Open Projects	Storm 10 Year Forecast	Other 2023 Open Projects	Other 10 Year Forecast	Water 2023 Open Projects	Water 10 Year Forecast	Wastewater 2023 Open Projects	Wastewater 10 Year Forecast	Project Total
Jarvis												
Master Servicing Plan	2025, 2031		35,000		35,000		-		46,500		35,000	151,500
Walpole St - Monson to Talbot	2023-2024	1,700	152,300	15,000	480,000		-	15,000	354,500	112,000	380,000	1,510,500
Keen St	2023-2024	10,000	42,000		-		-	10,000	89,900		-	151,900
Peel St E - Main to Craddock	2023-2024	28,000	293,200		-		-	38,200	626,100	22,400	490,000	1,497,900
Lake Erie Industrial Park												
Master Servicing Plan	2023, 2027, 2033	50,000	122,300	30,000	73,500		-	30,100	108,000	44,800	108,000	566,700
County Wide												
Asbestos Annual Inspection and Remediation	2023-2033		-		-	9,500	111,400	3,200	36,600	4,100	47,000	211,800
CCTV Inspection Program	2023-2033		-	25,600	294,300		-		-	60,600	294,300	674,800
Facility Condition Assessments	2023-2033		113,400		-		480,940	93,700	148,900	32,100	145,400	1,014,440
Project Management Support	2023-2026		-		-		-	140,000	804,300	140,000	804,300	1,888,600
SCADA Master Plan	2023, 2026, 2031		-		-		-	100,200	38,600	37,800	82,000	258,600
SCADA Maintenance	2023-2033		-		-		-	30,800	353,400	25,500	235,400	645,100
SCADA Technical Support	2023-2033		-		-		-	184,700	470,900	129,500	470,900	1,256,000
Total - Rate Supported Capital Co-ordinated		346,100	9,243,900	196,800	2,594,500	9,500	592,340	877,900	14,112,500	713,800	5,033,100	33,720,440

Note - does not include prior year closed projects or prior year open projects with no impact in 2024-2033.



2024 Net Capital Financing from Water and Wastewater Rates

	2023			2024			2025			2026			2027			2028		
	WATER	SEWER	TOTAL	WATER	SEWER	TOTAL	WATER	SEWER	TOTAL	WATER	SEWER	TOTAL	WATER	SEWER	TOTAL	WATER	SEWER	TOTAL
DEBT CHARGES (Existing Debt)																		
- Gross debt repayments	771,910	1,173,370	1,945,280	691,005	992,694	1,683,699	690,421	971,451	1,661,872	691,144	950,523	1,641,667	690,564	929,595	1,620,159	0	908,753	908,753
- Development related debt repayments	502,040	1,929,840	2,431,880	502,096	1,694,224	2,196,320	501,671	1,658,454	2,160,125	502,197	1,623,640	2,125,837	501,775	1,588,668	2,090,443	0	1,470,574	1,470,574
- Less funding from:																		
- Develop. Charges Reserve Fund	(502,040)	(1,929,840)	(2,431,880)	(502,096)	(1,694,224)	(2,196,320)	(501,671)	(1,658,454)	(2,160,125)	(502,197)	(1,623,640)	(2,125,837)	(501,775)	(1,588,668)	(2,090,443)	0	(1,470,574)	(1,470,574)
Net Existing Debt Charges	771,910	1,173,370	1,945,280	691,005	992,694	1,683,699	690,421	971,451	1,661,872	691,144	950,523	1,641,667	690,564	929,595	1,620,159	0	908,753	908,753
DEBT CHARGES (Proposed Debt for Active Projects)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEBT CHARGES (Proposed Debt for Development Related Active Projects)	0	0	0	0	0	0	0	1,285,810	1,285,810	0	1,239,770	1,239,770	0	1,193,740	1,193,740	0	1,147,700	1,147,700
OFFSETTING FUNDING for Development Related Active Projects	0	0	0	0	0	0	0	(1,285,810)	(1,285,810)	0	(1,239,770)	(1,239,770)	0	(1,193,740)	(1,193,740)	0	(1,147,700)	(1,147,700)
DEBT CHARGES (Proposed New Debt)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEBT CHARGES (Proposed New Debt for Development Related Projects)	0	0	0	0	0	0	1,689,830	0	1,689,830	2,876,180	19,050	2,895,230	3,025,400	73,960	3,099,360	2,911,150	4,511,280	7,422,430
OFFSETTING FUNDING for Development Related New Projects	0	0	0	0	0	0	(1,689,830)	0	(1,689,830)	(2,876,180)	(19,050)	(2,895,230)	(3,025,400)	(73,960)	(3,099,360)	(2,911,150)	(4,511,280)	(7,422,430)
DEBT CHARGES SUB-TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DEBT CHARGES	771,910	1,173,370	1,945,280	691,005	992,694	1,683,699	690,421	971,451	1,661,872	691,144	950,523	1,641,667	690,564	929,595	1,620,159	0	908,753	908,753
Capital Replacement Reserve Fund																		
- Budgeted annual contribution	1,690,290	1,948,480	3,638,770	1,913,905	2,129,156	4,043,061	2,057,199	2,150,399	4,207,598	2,199,186	2,171,327	4,370,513	2,342,476	2,192,255	4,534,731	3,175,750	2,213,097	5,388,847
Total Capital Related Financing:	2,462,200	3,121,850	5,584,050	2,604,910	3,121,850	5,726,760	2,747,620	3,121,850	5,869,470	2,890,330	3,121,850	6,012,180	3,033,040	3,121,850	6,154,890	3,175,750	3,121,850	6,297,600

IMPACT ON USER RATES																		
% INCREASE - YEAR TO YEAR	5.95%	0.00%	2.54%	5.80%	0.00%	2.56%	5.48%	0.00%	2.49%	5.19%	0.00%	2.43%	4.94%	0.00%	2.37%	4.71%	0.00%	2.32%
\$ INCREASE - YEAR TO YEAR	138,230	0	138,230	142,710	0	142,710	142,710	0	142,710	142,710	0	142,710	142,710	0	142,710	142,710	0	142,710
Net Revenue from User Rates	6,581,020	7,690,350	14,271,370	6,581,020	7,690,350	14,271,370	6,581,020	7,690,350	14,271,370	6,581,020	7,690,350	14,271,370	6,581,020	7,690,350	14,271,370	6,581,020	7,690,350	14,271,370
Estimated Impact of Proposed Capital Related Expenditures on User Rates																		
	2.1%	0.0%	1.0%	2.2%	0.0%	1.0%	2.2%	0.0%	1.0%	2.2%	0.0%	1.0%	2.2%	0.0%	1.0%	2.2%	0.0%	1.0%

NOTE: New debt requirements included in the capital forecast all relate to development charges debt. Project information can be found in Appendix D.

NOTE: The 1% of combined user rates revenue contribution to the capital replacement reserves was established in 2014 as a resolution to the water capital replacement reserve's violation of County financing principles. This practice was intended to proceed until 2024, and then be revisited. Given the current state of the water capital replacement reserve, and the requirements under asset management, this contribution has been extended over the current 10 year forecasted period.



2024 Net Capital Financing from Water and Wastewater Rates

	2029			2030			2031			2032			2033		
	WATER	SEWER	TOTAL	WATER	SEWER	TOTAL	WATER	SEWER	TOTAL	WATER	SEWER	TOTAL	WATER	SEWER	TOTAL
DEBT CHARGES (Existing Debt)															
- Gross debt repayments	0	887,739	887,739	0	0	0	0	0	0	0	0	0	0	0	0
- Development related debt repayments	0	1,435,257	1,435,257	0	1,298,818	1,298,818	0	1,266,367	1,266,367	0	455,144	455,144	0	0	0
- Less funding from:															
- Develop. Charges Reserve Fund	0	(1,435,257)	(1,435,257)	0	(1,298,818)	(1,298,818)	0	(1,266,367)	(1,266,367)	0	(455,144)	(455,144)	0	0	0
Net Existing Debt Charges	0	887,739	887,739	0	0	0	0	0	0	0	0	0	0	0	0
DEBT CHARGES (Proposed Debt for Active Projects)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEBT CHARGES (Proposed Debt for Development Related Active Projects)	0	1,101,670	1,101,670	0	1,055,630	1,055,630	0	1,009,600	1,009,600	0	963,560	963,560	0	917,530	917,530
OFFSETTING FUNDING for Development Related Active Projects	0	(1,101,670)	(1,101,670)	0	(1,055,630)	(1,055,630)	0	(1,009,600)	(1,009,600)	0	(963,560)	(963,560)	0	(917,530)	(917,530)
DEBT CHARGES (Proposed New Debt)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEBT CHARGES (Proposed New Debt for Development Related Projects)	3,108,680	4,384,110	7,492,790	2,983,270	4,441,280	7,424,550	3,138,620	4,307,500	7,446,120	3,003,160	4,173,730	7,176,890	2,867,700	4,039,950	6,907,650
OFFSETTING FUNDING for Development Related New Projects	(3,108,680)	(4,384,110)	(7,492,790)	(2,983,270)	(4,441,280)	(7,424,550)	(3,138,620)	(4,307,500)	(7,446,120)	(3,003,160)	(4,173,730)	(7,176,890)	(2,867,700)	(4,039,950)	(6,907,650)
DEBT CHARGES SUB-TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DEBT CHARGES	0	887,739	887,739	0	0	0	0	0	0	0	0	0	0	0	0
Capital Replacement Reserve Fund															
- Budgeted annual contribution	3,318,460	2,234,111	5,552,571	3,461,170	3,121,850	6,583,020	3,603,880	3,121,850	6,725,730	3,746,590	3,121,850	6,868,440	3,889,300	3,121,850	7,011,150
Total Capital Related Financing:	3,318,460	3,121,850	6,440,310	3,461,170	3,121,850	6,583,020	3,603,880	3,121,850	6,725,730	3,746,590	3,121,850	6,868,440	3,889,300	3,121,850	7,011,150

IMPACT ON USER RATES															
% INCREASE - YEAR TO YEAR	4.49%	0.00%	2.27%	4.30%	0.00%	2.22%	4.12%	0.00%	2.17%	3.96%	0.00%	2.12%	3.81%	0.00%	2.08%
\$ INCREASE - YEAR TO YEAR	142,710	0	142,710	142,710	0	142,710	142,710	0	142,710	142,710	0	142,710	142,710	0	142,710
Net Revenue from User Rates	6,581,020	7,690,350	14,271,370	6,581,020	7,690,350	14,271,370	6,581,020	7,690,350	14,271,370	6,581,020	7,690,350	14,271,370	6,581,020	7,690,350	14,271,370
Estimated Impact of Proposed Capital Related Expenditures on User Rates															
User Rates	2.2%	0.0%	1.0%	2.2%	0.0%	1.0%	2.2%	0.0%	1.0%	2.2%	0.0%	1.0%	2.2%	0.0%	1.0%

NOTE: New debt requirements included in the capital forecast all relate to development charges debt. Project information can be found in Appendix D.

NOTE: The 1% of combined user rates revenue contribution to the capital replacement reserves was established in 2014 as a resolution to the water capital replacement reserve's violation of County financing principles. This practice was intended to proceed until 2024, and then be revisited. Given the current state of the water capital replacement reserve, and the requirements under asset management, this contribution has been extended over the current 10 year forecasted period.



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Summary																	
Water Administration		75,800	100,000			107,700	2,996,500		116,000		3,396,000				(3,396,000)		(3,396,000)
Water Treatment General	53,390,700	1,084,430	2,489,600	688,600	3,274,600	1,853,400	1,681,800	2,075,450	2,063,400	2,083,200	70,685,180		(55,362,930)	(3,463,600)	(11,858,650)		(70,685,180)
Water Distribution/Transmission	14,034,900	9,286,500	4,794,500	2,107,100	1,190,800	1,955,200	5,079,000	1,218,000	1,664,900	9,437,100	50,768,000	(8,486,900)	(2,087,800)	(26,183,130)	(14,010,170)		(50,768,000)
Water Technical Reviews and Studies	25,000	21,500	50,000	50,000	34,000	34,800	29,000	25,000	58,000	58,000	385,300				(385,300)		(385,300)
Total Water	67,450,600	10,468,230	7,434,100	2,845,700	4,499,400	3,951,100	9,786,300	3,318,450	3,902,300	11,578,300	125,234,480	(8,486,900)	(57,450,730)	(29,646,730)	(29,650,120)		(125,234,480)
Wastewater Summary																	
Wastewater Collection/Conveyance	1,937,300	1,557,200	2,469,600	5,565,000	1,218,600	469,600	615,300	703,400	641,600	1,052,900	16,230,500			(6,351,960)	(9,878,540)		(16,230,500)
Wastewater Treatment and Disposal	1,685,000	1,530,100	1,788,300	35,958,800	1,659,900	5,950,000	3,446,400	3,047,160	2,970,500	27,479,000	85,515,160			(63,510,100)	(22,005,060)		(85,515,160)
Wastewater Technical reviews and Studies	300,000	16,200	50,000	50,000	34,000	34,800	29,000	18,800	58,000	58,000	648,800			(275,000)	(373,800)		(648,800)
Total Wastewater	3,922,300	3,103,500	4,307,900	41,573,800	2,912,500	6,454,400	4,090,700	3,769,360	3,670,100	28,589,900	102,394,460			(70,137,060)	(32,257,400)		(102,394,460)
Total Water and Wastewater	71,372,900	13,571,730	11,742,000	44,419,500	7,411,900	10,405,500	13,877,000	7,087,810	7,572,400	40,168,200	227,628,940	(8,486,900)	(57,450,730)	(99,783,790)	(61,907,520)		(227,628,940)
Funding																	
Water Summary																	
Grants/Subsidies	(1,070,500)	(950,700)	(2,453,000)	(1,320,700)	(1,032,800)	(1,023,300)	(635,900)				(8,486,900)						
General Recoveries	(52,580,900)	(1,183,370)	(1,098,700)	(550,900)	(422,710)	(217,800)	(995,200)	(149,750)	(100,000)	(151,400)	(57,450,730)						
Development Charges	(11,964,700)	(7,222,000)	(1,698,300)	(102,900)	(2,137,700)	(217,300)	(2,038,200)	(226,600)	(366,950)	(3,672,080)	(29,646,730)						
Reserve/Reserve Funds	(1,834,500)	(1,112,160)	(2,184,100)	(871,200)	(906,190)	(2,492,700)	(6,117,000)	(2,942,100)	(3,435,350)	(7,754,820)	(29,650,120)						
Debenture Financing																	
Total Water	(67,450,600)	(10,468,230)	(7,434,100)	(2,845,700)	(4,499,400)	(3,951,100)	(9,786,300)	(3,318,450)	(3,902,300)	(11,578,300)	(125,234,480)						
Wastewater Summary																	
Grants/Subsidies																	
General Recoveries																	
Development Charges	(824,000)	(268,800)	(663,600)	(40,332,800)	(484,600)	(1,333,700)	(316,100)	(309,900)	(303,400)	(25,300,160)	(70,137,060)						
Reserve/Reserve Funds	(3,098,300)	(2,834,700)	(3,644,300)	(1,241,000)	(2,427,900)	(5,120,700)	(3,774,600)	(3,459,460)	(3,366,700)	(3,289,740)	(32,257,400)						
Debenture Financing																	
Total Wastewater	(3,922,300)	(3,103,500)	(4,307,900)	(41,573,800)	(2,912,500)	(6,454,400)	(4,090,700)	(3,769,360)	(3,670,100)	(28,589,900)	(102,394,460)						
Total Water and Wastewater	(71,372,900)	(13,571,730)	(11,742,000)	(44,419,500)	(7,411,900)	(10,405,500)	(13,877,000)	(7,087,810)	(7,572,400)	(40,168,200)	(227,628,940)						

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Administration		75,800	100,000			107,700	2,996,500		116,000		3,396,000				(3,396,000)		(3,396,000)
Total Water Administration		75,800	100,000			107,700	2,996,500		116,000		3,396,000				(3,396,000)		(3,396,000)
Dunnville Water Treatment Plant	529,200	294,600	45,100	26,300	2,563,300	276,700	341,600	349,500	241,700	339,900	5,007,900		(131,900)	(2,058,700)	(2,817,300)		(5,007,900)
Nanticoke Water Treatment Plant	52,743,600	642,130	2,282,000	507,000	581,200	227,500	233,300	325,650	274,500	263,300	58,080,180		(55,231,030)	(614,800)	(2,234,350)		(58,080,180)
Water Treatment General	117,900	147,700	162,500	155,300	130,100	1,349,200	1,106,900	1,400,300	1,547,200	1,480,000	7,597,100			(790,100)	(6,807,000)		(7,597,100)
Total Water Treatment	53,390,700	1,084,430	2,489,600	688,600	3,274,600	1,853,400	1,681,800	2,075,450	2,063,400	2,083,200	70,685,180		(55,362,930)	(3,463,600)	(11,858,650)		(70,685,180)
Caledonia Water Distribution	1,707,800	8,201,800	3,316,900	6,300		1,512,100	1,858,100		480,600	9,224,000	26,307,600	(3,629,700)		(15,173,130)	(7,504,770)		(26,307,600)
Cayuga Water Distribution		12,900		15,000	1,032,800		14,700		20,000		1,095,400	(1,032,800)			(62,600)		(1,095,400)
Dunnville Water Distribution			797,300	1,327,000				1,065,100			3,189,400	(2,118,000)			(1,071,400)		(3,189,400)
Hagersville Water Distribution	11,063,000	940,000	400,000		16,000		1,208,300		941,700		14,569,000	(635,900)	(727,800)	(11,010,000)	(2,195,300)		(14,569,000)
Jarvis Water Distribution	1,081,500		6,100								1,087,600	(1,070,500)			(17,100)		(1,087,600)
Townsend Water Distribution	12,000		95,000	575,000		250,000	1,800,000		14,700		2,746,700		(1,360,000)		(1,386,700)		(2,746,700)
Water Distribution General	170,600	131,800	179,200	183,800	142,000	193,100	197,900	152,900	207,900	213,100	1,772,300				(1,772,300)		(1,772,300)
Total Water Distribution/Transmission	14,034,900	9,286,500	4,794,500	2,107,100	1,190,800	1,955,200	5,079,000	1,218,000	1,664,900	9,437,100	50,768,000	(8,486,900)	(2,087,800)	(26,183,130)	(14,010,170)		(50,768,000)
Caledonia Water Technical Reviews and Studies			50,000						58,000		108,000				(108,000)		(108,000)
Cayuga Water Technical Reviews and Studies	25,000						29,000				54,000				(54,000)		(54,000)
Dunnville Water Technical Reviews and Studies						34,800					34,800				(34,800)		(34,800)
Hagersville Water Technical Reviews and Studies					34,000						34,000				(34,000)		(34,000)
Jarvis Water Technical Reviews and Studies		21,500						25,000			46,500				(46,500)		(46,500)
LEIP Water Technical Reviews and Studies				50,000						58,000	108,000				(108,000)		(108,000)

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Total Water Technical Reviews and Studies	25,000	21,500	50,000	50,000	34,000	34,800	29,000	25,000	58,000	58,000	385,300				(385,300)		(385,300)
Total Water	67,450,600	10,468,230	7,434,100	2,845,700	4,499,400	3,951,100	9,786,300	3,318,450	3,902,300	11,578,300	125,234,480	(8,486,900)	(57,450,730)	(29,646,730)	(29,650,120)		(125,234,480)

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Administration											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Administration																	
Replacement/State of Good Repair																	
441004	WWW Financial Plan Update (O. Reg. 453/07)		10,800				12,200				23,000				(23,000)		(23,000)
441009	Caledonia Meter Replacement						2,009,000				2,009,000				(2,009,000)		(2,009,000)
441011	Dunnville Meter Replacement						930,000				930,000				(930,000)		(930,000)
441016	Billing Software Upgrade			100,000			107,700		116,000		323,700				(323,700)		(323,700)
Total Replacement/State of Good Repair			10,800	100,000			107,700	2,951,200	116,000		3,285,700				(3,285,700)		(3,285,700)
New/Enhanced Service																	
441007	WWW Rate Study		40,000				45,300				85,300				(85,300)		(85,300)
441008	Depot Software for Pay-at-the-Pump		25,000								25,000				(25,000)		(25,000)
Total New/Enhanced Service			65,000				45,300				110,300				(110,300)		(110,300)
Total Water Administration			75,800	100,000			107,700	2,996,500	116,000		3,396,000				(3,396,000)		(3,396,000)
Total Water Administration			75,800	100,000			107,700	2,996,500	116,000		3,396,000				(3,396,000)		(3,396,000)

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails, [STR] Structure



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Treatment											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Dunnville Water Treatment Plant																	
Replacement/State of Good Repair																	
456034	Backwash Pump #2 Refurb	57,800									57,800				(57,800)		(57,800)
456036	Chem Feed System Replacements		26,300		28,300			30,500			85,100				(85,100)		(85,100)
476002	Granular Activated Carbon change out	80,000	84,100		200,000	92,800	95,100	97,500			649,500				(649,500)		(649,500)
476026	WTP SCADA Computer & Network Replmt		26,900				30,400				57,300			(11,900)	(45,400)		(57,300)
476032	Remotes PLC Replacements	54,600									54,600			(11,500)	(43,100)		(54,600)
476053	Dunnville WTP Roof Replacement	250,000									250,000				(250,000)		(250,000)
476080	Industry Raw Water Supply Valve and Chamber Refurb		40,000		43,100					48,800	131,900		(131,900)				(131,900)
476081	Dunn WTP Turbidity Analyzer(s) Replacement		25,000		26,300		27,600	28,300	29,000		136,200				(136,200)		(136,200)
476083	Dunnville Raw Water Supply Valve and Chamber Refurb		40,000		64,600					73,100	177,700				(177,700)		(177,700)
476084	Dunn WTP Clarifier Weir Repairs	20,000									20,000				(20,000)		(20,000)
476085	Port Maitland Raw Water Flowmeter Replacement	30,000									30,000				(30,000)		(30,000)
476088	Floc Tank Refurb	36,800									36,800				(36,800)		(36,800)
476089	Dunnville WTP Port Maitland Chlorine System Replacement		20,000	20,500							40,500				(40,500)		(40,500)
476090	Dunnville Port Maitland Raw Water Supply Line Relining				179,400	183,900	188,500	193,200	198,000	203,000	1,146,000				(1,146,000)		(1,146,000)
476091	Dunnville WTP Raw Water Turbidity Analyzer Equipment Replacements		12,300	12,600					14,700	15,000	54,600				(54,600)		(54,600)
476093	Dunnville Chlorine Analyzer Replacements			12,000	12,600						24,600				(24,600)		(24,600)
Total Replacement/State of Good Repair		529,200	274,600	45,100	26,300	528,000	276,700	341,600	349,500	241,700	339,900	2,952,600		(131,900)	(23,400)	(2,797,300)	(2,952,600)
New/Enhanced Service																	
476033	WTP Reservoir Expansion				2,035,300						2,035,300			(2,035,300)			(2,035,300)
476092	Dunnville WTP Digitize Operation and Maintenance Manuals		20,000								20,000				(20,000)		(20,000)

Note: [W] Water, [VWV] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails, [STR] Structure



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Treatment											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Dunnville Water Treatment Plant																	
Total New/Enhanced Service		20,000		2,035,300							2,055,300	(2,035,300)			(20,000)	(2,055,300)	
Total Dunnville Water Treatment Plant		529,200	294,600	45,100	26,300	2,563,300	276,700	341,600	349,500	241,700	339,900	5,007,900	(131,900)	(2,058,700)	(2,817,300)	(5,007,900)	
Nanticoke Water Treatment Plant																	
Replacement/State of Good Repair																	
479002	Nant - WTP Lagoon Clean Out	47,300	48,500	49,700	50,900	52,200	53,500	54,800	56,200	57,600	59,000	529,700			(529,700)	(529,700)	
479003	Stelco IPS Operating Capital	41,000	42,000	43,100	44,200	45,300	46,400	47,600	48,700	50,000	51,300	459,600	(459,600)			(459,600)	
479004	Imperial Oil IPS Operating Capital	41,000	42,000	43,100	44,200	45,300	46,400	47,600	48,800	50,000	51,300	459,700	(459,700)			(459,700)	
479011	SCADA Computer & Network Replmt				28,300							28,300			(28,300)	(28,300)	
479059	WTP PLC Replacements		16,200	60,700	43,000	29,000						148,900		(31,200)	(117,700)	(148,900)	
479065	Nanticoke WTP Facility Building Roof Repairs				28,900							28,900			(28,900)	(28,900)	
479071	Nanticoke WTP Intake Annual Site Maintenance & Inspections		50,000			53,900			58,050			161,950	(145,760)		(16,190)	(161,950)	
479075	Reservoir Valvehouse AHU			143,500								143,500			(143,500)	(143,500)	
479082	Stelco Raw Watermain Valve and Chamber Refurb			41,000								41,000	(41,000)			(41,000)	
479102	Nant WTP Facility Security Perimeter Fencing & Gate Repairs			21,600	22,100							43,700			(43,700)	(43,700)	
479106	Nant IPS Intake Screen Refurbishment		25,630									25,630	(23,070)		(2,560)	(25,630)	
479107	Nant IPS Pump #8 Motor Refurbishment		25,000									25,000	(25,000)			(25,000)	
479108	Nant IPS Hydro Transformers/Substations Refurbishment	61,500		64,600		67,900						194,000	(174,500)		(19,500)	(194,000)	
479110	Nant Transmission Line Chamber Refurbishment			60,000								60,000			(60,000)	(60,000)	
479111	Nant IPS Main MV MCP Sections Refurbishment (2)		200,000	205,000								405,000	(364,500)		(40,500)	(405,000)	
479115	Nanticoke WTP Highlift Clearwell Chlorine Analyzer Replacement	12,000							14,700			26,700			(26,700)	(26,700)	

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails, [STR] Structure



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Treatment												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Nanticoke Water Treatment Plant																		
479120	Nanticoke WTP Valve House Pipe Refurbishment	25,000										25,000				(25,000)		(25,000)
479121	Nanticoke WTP Reservoir Exterior Wall Repairs			250,000								250,000				(250,000)		(250,000)
479122	Nanticoke WTP Actiflo Building Dehumidifier Replacement		75,000									75,000				(75,000)		(75,000)
479123	Nanticoke WTP Actiflo Coagulant Chemical Pump Replacement	20,000										20,000				(20,000)		(20,000)
479124	Nanticoke WTP Yard Fire Hydrant Replacements		20,000									20,000				(20,000)		(20,000)
479126	Nanticoke WTP Raw Water Turbidity Meter Replacement	12,000							14,300			26,300				(26,300)		(26,300)
479127	Nanticoke WTP Settled Water Turbidity Meter Replacement	12,000	12,300						14,300	14,700		53,300				(53,300)		(53,300)
479128	Nanticoke Service Water Flow Meter Replacement	15,000										15,000		(13,200)		(1,800)		(15,000)
479129	Nanticoke IPS Chlorine Disinfection system Refurbishment	130,000										130,000		(114,400)		(15,600)		(130,000)
479130	Nanticoke IPS Forty-eight (48") Header & Valve Refurbishment Strategy	40,000										40,000		(40,000)				(40,000)
479131	Nanticoke IPS MCC1 and MCC2 Refurbishments				175,000	179,400						354,400		(354,400)				(354,400)
479132	Nanticoke IPS Laneway Access Hatch Concrete Repairs	215,000										215,000		(189,200)		(25,800)		(215,000)
479134	Nanticoke Reservoir Chlorine Analyzer Replacements		12,000	12,300							12,000	36,300				(36,300)		(36,300)
Total Replacement/State of Good Repair		671,800	568,630	994,600	407,700	501,900	146,300	150,000	240,350	187,000	173,600	4,041,880		(2,404,330)	(31,200)	(1,606,350)		(4,041,880)
New/Enhanced Service																		
479073	Nanticoke WTP Capacity Expansion	52,000,000										52,000,000		(52,000,000)				(52,000,000)
479099	Project Management Support [WW]	71,800	73,500	75,400	77,300	79,300	81,200	83,300	85,300	87,500	89,700	804,300		(220,700)	(583,600)			(804,300)
479119	Nanticoke WTP Reservoir Level Meter, PLC and SCADA Communication Upgrades			42,000								42,000		(21,000)		(21,000)		(42,000)
479125	Nanticoke WTP Digitize Operation and Maintenance Manuals				22,000							22,000				(22,000)		(22,000)

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails, [STR] Structure



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Treatment											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Nanticoke Water Treatment Plant																	
479135	Nanticoke Reservoir Baffling Phase 2		825,000								825,000		(412,500)		(412,500)		(825,000)
479136	Nanticoke Reservoir Transfer System		345,000								345,000		(172,500)		(172,500)		(345,000)
Total New/Enhanced Service		52,071,800	73,500	1,287,400	99,300	79,300	81,200	83,300	85,300	87,500	89,700	54,038,300	(52,826,700)	(583,600)	(628,000)		(54,038,300)
Total Nanticoke Water Treatment Plant		52,743,600	642,130	2,282,000	507,000	581,200	227,500	233,300	325,650	274,500	263,300	58,080,180	(55,231,030)	(614,800)	(2,234,350)		(58,080,180)
Water Treatment General																	
Replacement/State of Good Repair																	
471003	Facility Condition Assessment [WW]		26,900	28,300		29,700		31,200		32,800	148,900				(148,900)		(148,900)
471004	SCADA Master Plan		38,600								38,600			(8,100)	(30,500)		(38,600)
471007	SCADA Maintenance		31,600	32,400	33,200	34,000	34,800	35,600	36,600	37,400	38,400	39,400		(74,300)	(279,100)		(353,400)
471009	Water Operating Capital		41,000	42,000	43,100	44,200	45,300	46,400	47,600	48,700	50,000	51,200			(459,500)		(459,500)
471010	Asbestos Annual Inspection and Remediation [WW]		3,300	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100			(36,600)		(36,600)
471012	SCADA Technical Support		42,000	43,100	44,200	45,300	46,400	47,500	48,700	50,000	51,200	52,500		(98,800)	(372,100)		(470,900)
471017	Plant Capital Improvements						1,186,300	970,200	1,229,100	1,403,600	1,300,000	6,089,200		(608,900)	(5,480,300)		(6,089,200)
Total Replacement/State of Good Repair		117,900	147,700	162,500	155,300	130,100	1,349,200	1,106,900	1,400,300	1,547,200	1,480,000	7,597,100		(790,100)	(6,807,000)		(7,597,100)
Total Water Treatment General		117,900	147,700	162,500	155,300	130,100	1,349,200	1,106,900	1,400,300	1,547,200	1,480,000	7,597,100		(790,100)	(6,807,000)		(7,597,100)
Total Water Treatment		53,390,700	1,084,430	2,489,600	688,600	3,274,600	1,853,400	1,681,800	2,075,450	2,063,400	2,083,200	70,685,180	(55,362,930)	(3,463,600)	(11,858,650)		(70,685,180)



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Distribution/Transmission											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Caledonia Water Distribution																	
Replacement/State of Good Repair																	
472005	Elevated Storage Tank Replacement									480,600	8,174,000			(3,553,230)	(5,101,370)		(8,654,600)
472011	Reservoir–SCADA Computer & Network Replmt		21,600					24,400							(46,000)		(46,000)
472018	Booster Station PLC Replacements		40,900											(8,600)	(32,300)		(40,900)
472021	Caledonia Reservoir Roof Rehab				6,300										(6,300)		(6,300)
472025	Booster Station Pumping Upgrades			1,655,700								(1,655,700)					(1,655,700)
472029	Cal - Caithness St - Cameron St to Argyle St N [CIW] [R] [SS]						1,023,300					(1,023,300)					(1,023,300)
472031	Cal - Aberdeen St - Sutherland St E to Burke Drive [CIW] [R]		115,300									(115,300)					(115,300)
472032	Cal - Gypsum Ave - Argyle St N to End [CIW] [R] [SS]		161,300									(161,300)					(161,300)
472033	Cal - Inverness St - Caithness St W to Sutherland St W [CIW] [R] [SS]		201,700									(201,700)					(201,700)
472034	Cal - Inverness St - Sutherland St W to Orkney St W [CIW] [R]		241,900									(241,900)					(241,900)
472035	Cal - Sutherland St W - Inverness St to Shetland St [CIW] [R]		230,500									(230,500)					(230,500)
472036	Cal - Shetland St - Caithness St W to Sutherland St W [CIW] [R]						208,500								(208,500)		(208,500)
472037	Cal - Nairne St - Sutherland St E to Orkney St E [CIW] [R]						280,300								(280,300)		(280,300)
472041	Cal - Forfar St W - Argyle St S to Peebles St [R] [W]										590,000				(590,000)		(590,000)
472042	Cal - Selkirk St - Renfrew St W to Forfar St W [R] [W]										230,000				(230,000)		(230,000)
472043	Cal - Fife St W - Argyle St S to Wigton St [R] [W]										230,000				(230,000)		(230,000)
472044	Caledonia Standpipe Interior Re-Lining	780,000													(780,000)		(780,000)
Total Replacement/State of Good Repair		780,000	1,013,200	1,655,700	6,300		1,512,100	24,400		480,600	9,224,000	14,696,300	(3,629,700)	(3,561,830)	(7,504,770)		(14,696,300)
New/Enhanced Service																	

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails, [STR] Structure



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Distribution/Transmission												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Caledonia Water Distribution																		
472020	North Water Storage Expansion		927,800	7,188,600								8,116,400			(8,116,400)		(8,116,400)	
472023	Twinning of 450mm Water Main on Hwy 6				1,661,200							1,661,200			(1,661,200)		(1,661,200)	
472024	Twinning of 350mm Water Main on Hald Rd 66							1,833,700				1,833,700			(1,833,700)		(1,833,700)	
Total New/Enhanced Service			927,800	7,188,600	1,661,200			1,833,700				11,611,300			(11,611,300)		(11,611,300)	
Total Caledonia Water Distribution			1,707,800	8,201,800	3,316,900	6,300		1,512,100	1,858,100		480,600	9,224,000	26,307,600	(3,629,700)		(15,173,130)	(7,504,770)	(26,307,600)
Cayuga Water Distribution																		
Replacement/State of Good Repair																		
475011	Reservoir–SCADA Computer & Network Replmt			12,900				14,700				27,600				(27,600)	(27,600)	
475018	Chemical Dosing Equipment					15,000				20,000		35,000				(35,000)	(35,000)	
475024	Cay - Mohawk St W - Ottawa St N to Munsee St N [CIW] [R]						161,300					161,300	(161,300)				(161,300)	
475026	Cay - Norton St W - Ottawa St N to Munsee St N [CIW] [R]						161,300					161,300	(161,300)				(161,300)	
475029	Cay - Mohawk St E - Munsee to Winnet [CIW] [R]						155,100					155,100	(155,100)				(155,100)	
475030	Cay - Ottawa St N - Talbot St W to Kerr St W [CIW] [R]																	
475031	Cay - Ottawa St N - Kerr St W to Mohawk St W [CIW] [R]																	
475032	Cay - Talbot St W - Alley behind Back 40 [CIW] [R]						155,100					155,100	(155,100)				(155,100)	
475035	Cay - Winnett St N - Kerr St E to Echo St E [R] [CIW]						400,000					400,000	(400,000)				(400,000)	
Total Replacement/State of Good Repair				12,900		15,000	1,032,800		14,700		20,000	1,095,400	(1,032,800)			(62,600)	(1,095,400)	
Total Cayuga Water Distribution				12,900		15,000	1,032,800		14,700		20,000	1,095,400	(1,032,800)			(62,600)	(1,095,400)	
Dunnville Water Distribution																		
Replacement/State of Good Repair																		

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HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Distribution/Transmission												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Dunnville Water Distribution																		
476037	Dunnville Bulk Water Depot Roof Repairs			6,300								6,300				(6,300)		(6,300)
476041	Dun - Chestnut St W - Alder St E to South Cayuga St E [CIW] [R]									180,400		180,400				(180,400)		(180,400)
476043	Dun - Cross Street E - Pine St to Tamarac St [CIW] [R] [SS]		637,800									637,800	(637,800)					(637,800)
476044	Dun - Lock St E - Cedar St to Queen St [CIW] [R]									254,000		254,000				(254,000)		(254,000)
476045	Dun - Bridge Street - Main St E to Queen St [CIW] [R]									87,000		87,000				(87,000)		(87,000)
476046	Dun - Queen St - Chestnut St to Maple St [CIW] [R]									142,900		142,900				(142,900)		(142,900)
476049	Dun - Cross St W - Elizabeth Cr to Pine St [CIW] [R] [SS]		159,500									159,500	(159,500)					(159,500)
476050	Dun - George St - Cross St W to End [CIW] [R]			946,700								946,700	(946,700)					(946,700)
476051	Dun - Main St W - George St west 275m to Cemetery [CIW] [R]									400,800		400,800				(400,800)		(400,800)
476052	Dun - Taylor Rd - Relocation of Watermain [CIW] [R]			374,000								374,000	(374,000)					(374,000)
Total Replacement/State of Good Repair			797,300	1,327,000						1,065,100		3,189,400	(2,118,000)			(1,071,400)		(3,189,400)
Total Dunnville Water Distribution			797,300	1,327,000						1,065,100		3,189,400	(2,118,000)			(1,071,400)		(3,189,400)
Hagersville Water Distribution																		
Replacement/State of Good Repair																		
473001	Booster Stn Roof Replacement				6,400							6,400				(6,400)		(6,400)
473003	Hagersville Tuscarora St Operations Building Roof					3,200						3,200				(3,200)		(3,200)
473010	Hagersville Standpipe Building Roof Repairs					6,400						6,400				(6,400)		(6,400)
473012	Hag - Fairfield Dr - Elm Ave to Hunter St [CIW] [R]									381,500		381,500	(381,500)					(381,500)
473013	Hag - Hunter St - Church St E to Fairfield Dr [CIW] [R]									254,400		254,400	(254,400)					(254,400)

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails, [STR] Structure



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Distribution/Transmission												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Hagersville Water Distribution																		
473015	Hag - Hunter St - Fairfield Dr to King St E [CIW] [R]											127,200				(127,200)		(127,200)
473016	Hag - Elm Ave - Sherring St S to Fairfield Dr [CIW] [R]											152,600				(152,600)		(152,600)
473017	Hag - Elm Ave - Fairfield Dr to Hunter St [CIW] [R]											292,600				(292,600)		(292,600)
473023	Hag - Athens St - Sherring St N to Cedar St [CIW] [R]										215,000					(215,000)		(215,000)
473024	Hag - Sherring St N - King St E to Marathon St [CIW] [R]										322,000					(322,000)		(322,000)
473025	Hag - Tuscarora St - King St W to Oneida St [CIW] [R] [WW]		418,000									418,000		(246,800)		(171,200)		(418,000)
473027	Security Camera Replacement - Hagersville Water Depot	11,000										11,000				(11,000)		(11,000)
473028	Hag - King St W - Rail Line to Tuscarora St [CIW] [R]		121,000									121,000		(84,600)		(36,400)		(121,000)
473029	Parkview/Concession 12 - Watermain Upsizing		401,000									401,000		(381,400)		(19,600)		(401,000)
473030	Hag - Parkview Rd - Main St S to King St E [R] [CIW]										390,000					(390,000)		(390,000)
473031	Hagersville Booster Station Piping Replacement	30,000										30,000		(15,000)		(15,000)		(30,000)
473032	Hagersville Standpipe Coating Maintenance			400,000								400,000				(400,000)		(400,000)
473033	Hagersville Booster Station Chlorine Analyzer Replacement	12,000									14,700	26,700				(26,700)		(26,700)
Total Replacement/State of Good Repair		53,000	940,000	400,000		16,000					941,700	3,559,000	(635,900)	(727,800)		(2,195,300)		(3,559,000)
New/Enhanced Service																		
473019	Hwy #6 Transmission Main Twinning	11,010,000										11,010,000			(11,010,000)			(11,010,000)
Total New/Enhanced Service		11,010,000										11,010,000			(11,010,000)			(11,010,000)
Total Hagersville Water Distribution		11,063,000	940,000	400,000		16,000					941,700	14,569,000	(635,900)	(727,800)	(11,010,000)	(2,195,300)		(14,569,000)
Jarvis Water Distribution																		
Replacement/State of Good Repair																		



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Distribution/Transmission												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Jarvis Water Distribution																		
474002	Jarvis Bulk Water Depot Roof Repairs			6,100								6,100				(6,100)		(6,100)
474003	Walpole St- Monson to Talbot [CIW] [R] [SS]	354,500										354,500	(354,500)					(354,500)
474004	Keen St [CIW] [R]	89,900										89,900	(89,900)					(89,900)
474005	Jar - Peel St E - Walpole Drive to East End [CIW] [R]	197,500										197,500	(197,500)					(197,500)
474007	Jar - Peel St E - Main St N to Walpole Drive [CIW] [R]	231,100										231,100	(231,100)					(231,100)
474008	Jar - Peel St E - End to Craddock Blvd [CIW] [R]	197,500										197,500	(197,500)					(197,500)
474009	Security Camera Replacement - Jarvis Water Depot	11,000										11,000				(11,000)		(11,000)
Total Replacement/State of Good Repair		1,081,500		6,100								1,087,600	(1,070,500)			(17,100)		(1,087,600)
Total Jarvis Water Distribution		1,081,500		6,100								1,087,600	(1,070,500)			(17,100)		(1,087,600)
Townsend Water Distribution																		
New/Enhanced Service																		
479116	Townsend Distribution Elevated Tank Chlorine Analyzer Installation	12,000								14,700		26,700				(26,700)		(26,700)
479117	Townsend Distribution Transmission Watermain Upsizing - Nanticoke Creek Pkwy to Stone Quarry Rd			95,000	575,000							670,000		(335,000)		(335,000)		(670,000)
479118	Townsend Distribution Transmission Watermain Upsizing - Stone Quarry Rd to Townsend Elevated Tank						250,000	1,800,000				2,050,000		(1,025,000)		(1,025,000)		(2,050,000)
Total New/Enhanced Service		12,000		95,000	575,000		250,000	1,800,000		14,700		2,746,700		(1,360,000)		(1,386,700)		(2,746,700)
Total Townsend Water Distribution		12,000		95,000	575,000		250,000	1,800,000		14,700		2,746,700		(1,360,000)		(1,386,700)		(2,746,700)
Water Distribution General																		
Replacement/State of Good Repair																		
471005	Distribution System - Annual Repair & Replac't	87,100	89,300	91,500	93,800	96,200	98,600	101,000	103,500	106,100	108,800	975,900				(975,900)		(975,900)

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HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Distribution/Transmission											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Distribution General																	
471008	Distribution Leak Detection Program										229,700				(229,700)		(229,700)
471020	Cast Iron Watermain Engineering										566,700				(566,700)		(566,700)
Total Replacement/State of Good Repair		170,600	131,800	179,200	183,800	142,000	193,100	197,900	152,900	207,900	213,100	1,772,300			(1,772,300)		(1,772,300)
Total Water Distribution General		170,600	131,800	179,200	183,800	142,000	193,100	197,900	152,900	207,900	213,100	1,772,300			(1,772,300)		(1,772,300)
Total Water Distribution/Transmission		14,034,900	9,286,500	4,794,500	2,107,100	1,190,800	1,955,200	5,079,000	1,218,000	1,664,900	9,437,100	50,768,000	(8,486,900)	(2,087,800)	(26,183,130)	(14,010,170)	(50,768,000)



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing	
Water Technical Reviews and Studies																			
Caledonia Water Technical Reviews and Studies																			
Replacement/State of Good Repair																			
472002	Cal - Master Servicing Plan Update [WW][R][SS]										50,000				58,000		108,000	(108,000)	(108,000)
Total Replacement/State of Good Repair										50,000				58,000		108,000	(108,000)	(108,000)	
Total Caledonia Water Technical Reviews and Studies										50,000				58,000		108,000	(108,000)	(108,000)	
Cayuga Water Technical Reviews and Studies																			
Replacement/State of Good Repair																			
475017	Cay - Master Servicing Plan Update [WW][R][SS]										25,000				29,000		54,000	(54,000)	(54,000)
Total Replacement/State of Good Repair										25,000				29,000		54,000	(54,000)	(54,000)	
Total Cayuga Water Technical Reviews and Studies										25,000				29,000		54,000	(54,000)	(54,000)	
Dunnville Water Technical Reviews and Studies																			
Replacement/State of Good Repair																			
476028	Dun - Master Servicing Plan Update [WW][R][SS]														34,800		34,800	(34,800)	(34,800)
Total Replacement/State of Good Repair														34,800		34,800	(34,800)	(34,800)	
Total Dunnville Water Technical Reviews and Studies														34,800		34,800	(34,800)	(34,800)	
Hagersville Water Technical Reviews and Studies																			
Replacement/State of Good Repair																			
473004	Hag - Master Servicing Plan Update [WW][R][SS]														34,000		34,000	(34,000)	(34,000)
Total Replacement/State of Good Repair														34,000		34,000	(34,000)	(34,000)	
Total Hagersville Water Technical Reviews and Studies														34,000		34,000	(34,000)	(34,000)	



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Technical Reviews and Studies												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Jarvis Water Technical Reviews and Studies																		
Replacement/State of Good Repair																		
474001	Jar - Master Servicing Plan Update [WW][R][SS]		21,500							25,000		46,500				(46,500)		(46,500)
Total Replacement/State of Good Repair			21,500							25,000		46,500				(46,500)		(46,500)
Total Jarvis Water Technical Reviews and Studies			21,500							25,000		46,500				(46,500)		(46,500)
LEIP Water Technical Reviews and Studies																		
Replacement/State of Good Repair																		
479066	LEIP - Master Servicing Plan [WW][R][S]				50,000						58,000	108,000				(108,000)		(108,000)
Total Replacement/State of Good Repair					50,000						58,000	108,000				(108,000)		(108,000)
Total LEIP Water Technical Reviews and Studies					50,000						58,000	108,000				(108,000)		(108,000)
Total Water Technical Reviews and Studies		25,000	21,500	50,000	50,000	34,000	34,800	29,000	25,000	58,000	58,000	385,300				(385,300)		(385,300)



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Caledonia Wastewater Collection	403,000	183,600	370,300	5,312,400	169,800	180,800	185,600	194,100	203,000	212,300	7,414,900			(5,150,000)	(2,264,900)		(7,414,900)
Cayuga Wastewater Collection		408,000	1,640,000		625,000						2,673,000			(561,600)	(2,111,400)		(2,673,000)
Dunnville Wastewater Collection	46,700	25,000	35,000			30,000		225,000		555,000	916,700				(916,700)		(916,700)
Hagersville Wastewater Collection	227,000	630,400			3,200						860,600				(860,600)		(860,600)
Jarvis Wastewater Collection	870,000			6,300							876,300			(348,000)	(528,300)		(876,300)
Oswego Park Wastewater Collection	10,000	65,000									75,000				(75,000)		(75,000)
Townsend Wastewater Collection	10,000		35,000								45,000				(45,000)		(45,000)
Wastewater Collection General	370,600	245,200	389,300	246,300	420,600	258,800	429,700	284,300	438,600	285,600	3,369,000			(292,360)	(3,076,640)		(3,369,000)
Total Wastewater Collection/Conveyance	1,937,300	1,557,200	2,469,600	5,565,000	1,218,600	469,600	615,300	703,400	641,600	1,052,900	16,230,500			(6,351,960)	(9,878,540)		(16,230,500)
Caledonia Wastewater Treatment Plant	716,800	430,800	345,800	35,167,800	247,500	81,200	83,300	85,300	87,500	25,089,700	62,335,700			(60,948,800)	(1,386,900)		(62,335,700)
Cayuga Wastewater Treatment Plant	208,400	500,900	20,500	132,300	16,900	11,300	45,600	11,900	12,200	12,500	972,500			(40,300)	(932,200)		(972,500)
Dunnville Wastewater Treatment Plant	216,000	331,200	853,000	38,100		19,000				20,900	1,478,200				(1,478,200)		(1,478,200)
Hagersville Wastewater Treatment Plant	50,500	42,700	46,500	206,000	820,100	3,522,700	23,200	23,800	24,400	25,000	4,784,900			(1,295,200)	(3,489,700)		(4,784,900)
Jarvis Lagoons							505,000				505,000				(505,000)		(505,000)
LEIP Lagoons	300,000	10,000			386,300						696,300				(696,300)		(696,300)
Oswego Park Lagoons	6,000	25,000	288,900			6,500					326,400				(326,400)		(326,400)
Townsend Lagoons	16,000		15,000	215,400					448,000		694,400				(694,400)		(694,400)
Wastewater Treatment General	171,300	189,500	218,600	199,200	189,100	2,309,300	2,789,300	2,926,160	2,398,400	2,330,900	13,721,760			(1,225,800)	(12,495,960)		(13,721,760)
Total Wastewater Treatment and Disposal	1,685,000	1,530,100	1,788,300	35,958,800	1,659,900	5,950,000	3,446,400	3,047,160	2,970,500	27,479,000	85,515,160			(63,510,100)	(22,005,060)		(85,515,160)
Caledonia Wastewater Technical Reviews and Studies			50,000						58,000		108,000				(108,000)		(108,000)



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Cayuga Wastewater Technical Reviews and Studies	25,000						29,000				54,000				(54,000)		(54,000)
Dunnville Wastewater Technical Reviews and Studies						34,800					34,800				(34,800)		(34,800)
Hagersville Wastewater Technical Reviews and Studies	275,000				34,000						309,000			(275,000)	(34,000)		(309,000)
Jarvis Wastewater Technical Reviews and Studies		16,200						18,800			35,000				(35,000)		(35,000)
LEIP Wastewater Technical Reviews and Studies				50,000						58,000	108,000				(108,000)		(108,000)
Total Wastewater Technical Reviews and Studies	300,000	16,200	50,000	50,000	34,000	34,800	29,000	18,800	58,000	58,000	648,800			(275,000)	(373,800)		(648,800)
Total Wastewater	3,922,300	3,103,500	4,307,900	41,573,800	2,912,500	6,454,400	4,090,700	3,769,360	3,670,100	28,589,900	102,394,460			(70,137,060)	(32,257,400)		(102,394,460)



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Collection/Conveyance											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Caledonia Wastewater Collection																	
Replacement/State of Good Repair																	
452024	Forfar St. Storage Building Roof Replacement					3,300					3,300				(3,300)		(3,300)
452053	Sanitary Sewer Relining/Repair [CIW] [W][R]	148,600	155,300	162,400	169,800	177,500	185,600	194,100	203,000	212,300	1,608,600				(1,608,600)		(1,608,600)
452067	Caledonia Paisley Street Pump Station Property Grading	35,000									35,000				(35,000)		(35,000)
452068	Caledonia Kinardine Street Pump Station Pump Replacement	18,000									18,000				(18,000)		(18,000)
452069	Caledonia McClung Road Pump Station Grinder Replacement		75,000								75,000				(75,000)		(75,000)
452070	Caledonia Orkney Street Pump Station Pump Replacement		20,000								20,000				(20,000)		(20,000)
452071	Caledonia Paisley Street Pump Station Backup Generator Replacement		120,000								120,000				(120,000)		(120,000)
452077	Cal - Sutherland St E - E Edinburgh to Haller Cres [R] [STR] [SS] [WWW]	300,000									300,000				(300,000)		(300,000)
Total Replacement/State of Good Repair		318,000	183,600	370,300	162,400	169,800	180,800	185,600	194,100	203,000	212,300	2,179,900			(2,179,900)		(2,179,900)
New/Enhanced Service																	
452044	McClung SPS Forcemain Extension			2,175,000							2,175,000			(2,175,000)			(2,175,000)
452045	Nairne St. SPS Forcemain Extension			2,175,000							2,175,000			(2,175,000)			(2,175,000)
452046	McClung SPS Upgrades			800,000							800,000			(800,000)			(800,000)
452062	Cal McClung Sewage Pump Station VFD Installation	85,000									85,000				(85,000)		(85,000)
Total New/Enhanced Service		85,000		5,150,000							5,235,000			(5,150,000)	(85,000)		(5,235,000)
Total Caledonia Wastewater Collection		403,000	183,600	370,300	5,312,400	169,800	180,800	185,600	194,100	203,000	212,300	7,414,900			(5,150,000)	(2,264,900)	(7,414,900)
Cayuga Wastewater Collection																	
Replacement/State of Good Repair																	
455004	Ouse St PS Replacements		1,640,000								1,640,000			(373,000)	(1,267,000)		(1,640,000)



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Collection/Conveyance												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Cayuga Wastewater Collection																		
455006	McKay St. Pump Station Upgrades and Pump Replacements				625,000							625,000			(62,500)	(562,500)		(625,000)
455024	Cayuga Ouse Street Equalization Tank Pump Replacement		18,000									18,000				(18,000)		(18,000)
Total Replacement/State of Good Repair		18,000	1,640,000		625,000							2,283,000			(435,500)	(1,847,500)		(2,283,000)
New/Enhanced Service																		
455009	Ouse St Forcemain Twinning		390,000									390,000			(126,100)	(263,900)		(390,000)
Total New/Enhanced Service			390,000									390,000			(126,100)	(263,900)		(390,000)
Total Cayuga Wastewater Collection		408,000	1,640,000		625,000							2,673,000			(561,600)	(2,111,400)		(2,673,000)
Dunnville Wastewater Collection																		
Replacement/State of Good Repair																		
456023	Broad St Pump Station Roof Repairs	11,700										11,700				(11,700)		(11,700)
456061	Dun Broad St Pump Station Backup Pump Replacement	25,000										25,000				(25,000)		(25,000)
456062	Dun John St Sewage Pump Station Backup Pump Replacement		25,000									25,000				(25,000)		(25,000)
456063	Dunnville Pump Stations Guide Rail Replacements	10,000										10,000				(10,000)		(10,000)
456064	Dunnville Broad Street Pump Station Building Exterior Restoration			35,000								35,000				(35,000)		(35,000)
456073	Dunn - Tamarac St - Forest St to Park St [R] [WW]					30,000			225,000			255,000				(255,000)		(255,000)
456074	Dunn - Niagara St - Broad St E to Main St E [R] [WW]										375,000	375,000				(375,000)		(375,000)
456075	Dunn - Main Street E to Dunnville WW Treatment Plant [R] [WW]										180,000	180,000				(180,000)		(180,000)
Total Replacement/State of Good Repair		46,700	25,000	35,000		30,000			225,000		555,000	916,700				(916,700)		(916,700)
Total Dunnville Wastewater Collection		46,700	25,000	35,000		30,000			225,000		555,000	916,700				(916,700)		(916,700)

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails, [STR] Structure



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Collection/Conveyance											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Hagersville Wastewater Collection																	
Replacement/State of Good Repair																	
453009	Hagersville Tuscarora St Operations Building Roof				3,200						3,200				(3,200)		(3,200)
453060	Hag Walpole Sewage Pump Station Valve Replacement		15,000								15,000				(15,000)		(15,000)
453062	Tuscarora St - King to Oneida [CIW] [R] [WW]		600,000								600,000				(600,000)		(600,000)
453065	Hagersville Mary Street Pump Station Wet Well Platform Replacement	10,000									10,000				(10,000)		(10,000)
453066	Hagersville Walpole Street Pump Station Equipment & Site Refurbishments	27,000									27,000				(27,000)		(27,000)
453067	Hagersville Walpole Street Pump Station Pump Refurbishment	15,000	15,400								30,400				(30,400)		(30,400)
453068	Hagersville Tuscarora Street Pump Station Gas Detection Monitoring Repairs	15,000									15,000				(15,000)		(15,000)
453074	Parkview Pump Station Upgrades	160,000									160,000				(160,000)		(160,000)
Total Replacement/State of Good Repair		227,000	630,400		3,200						860,600				(860,600)		(860,600)
Total Hagersville Wastewater Collection		227,000	630,400		3,200						860,600				(860,600)		(860,600)
Jarvis Wastewater Collection																	
Replacement/State of Good Repair																	
454012	Jarvis/Talbot Pump Station Roof				6,300						6,300				(6,300)		(6,300)
Total Replacement/State of Good Repair					6,300						6,300				(6,300)		(6,300)
New/Enhanced Service																	
454006	Walpole St - Sewer Pipe Upsize (Peel to Talbot) [R] [W] [SS]	380,000									380,000			(152,000)	(228,000)		(380,000)
454007	Peel St E - Sewer Pipe Upsize (Walpole to End) [R] [W] [S]	490,000									490,000			(196,000)	(294,000)		(490,000)
Total New/Enhanced Service		870,000									870,000			(348,000)	(522,000)		(870,000)
Total Jarvis Wastewater Collection		870,000			6,300						876,300			(348,000)	(528,300)		(876,300)

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails, [STR] Structure



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Collection/Conveyance												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Oswego Park Wastewater Collection																		
Replacement/State of Good Repair																		
458005	Oswego Park Sewage Pump Station MCC Pump Control Refurbishment		25,000									25,000				(25,000)		(25,000)
458006	Oswego Park Sewage Pump Station Backup Pump Rebuild/Replacement		15,000									15,000				(15,000)		(15,000)
458010	Oswego Park Pump Station Wet Well Access Hatch Repairs	4,000										4,000				(4,000)		(4,000)
458011	Oswego Park Pump Station MCC and Wet Well Vent Fan Replacement		25,000									25,000				(25,000)		(25,000)
Total Replacement/State of Good Repair		4,000	65,000									69,000				(69,000)		(69,000)
New/Enhanced Service																		
458009	Oswego Park Pump Station Site Improvements	6,000										6,000				(6,000)		(6,000)
Total New/Enhanced Service		6,000										6,000				(6,000)		(6,000)
Total Oswego Park Wastewater Collection		10,000	65,000									75,000				(75,000)		(75,000)
Townsend Wastewater Collection																		
Replacement/State of Good Repair																		
457011	Townsend Pump station MCC Refurbishments			35,000								35,000				(35,000)		(35,000)
Total Replacement/State of Good Repair				35,000								35,000				(35,000)		(35,000)
New/Enhanced Service																		
457010	Townsend Pump Station Site Security Improvements	10,000										10,000				(10,000)		(10,000)
Total New/Enhanced Service		10,000										10,000				(10,000)		(10,000)
Total Townsend Wastewater Collection		10,000		35,000								45,000				(45,000)		(45,000)
Wastewater Collection General																		
Replacement/State of Good Repair																		



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Collection/Conveyance											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Wastewater Collection General																	
451001	Inflow & Infiltration Program Support	36,800	26,900	38,600	28,300	40,600	29,700	42,600	31,200	32,000	32,800	339,500			(50,900)	(288,600)	(339,500)
451005	CCTV Inspections - Structural Ass'ments [SS] - Engineering	26,300	26,900	27,600	28,300	29,000	29,700	30,500	31,200	32,000	32,800	294,300				(294,300)	(294,300)
451008	Collection System - Annual Repair	61,500	63,000	64,600	66,200	67,900	69,600	71,300	73,100	75,000	76,800	689,000				(689,000)	(689,000)
451012	Sewer Manhole Repairs (I&I)		80,800		84,900		89,200		93,700		98,400	447,000			(67,060)	(379,940)	(447,000)
451013	Sanitary Sewer Rehabilitations (I&I)	210,100		220,800		231,900		243,700		255,900		1,162,400			(174,400)	(988,000)	(1,162,400)
451017	CCTV Inspections - Operations	35,900	36,800	37,700	38,600	39,600	40,600	41,600	42,600	43,700	44,800	401,900				(401,900)	(401,900)
451022	Confined Space Entry Equipment Replacements		10,800			11,600			12,500			34,900				(34,900)	(34,900)
Total Replacement/State of Good Repair		370,600	245,200	389,300	246,300	420,600	258,800	429,700	284,300	438,600	285,600	3,369,000			(292,360)	(3,076,640)	(3,369,000)
Total Wastewater Collection General		370,600	245,200	389,300	246,300	420,600	258,800	429,700	284,300	438,600	285,600	3,369,000			(292,360)	(3,076,640)	(3,369,000)
Total Wastewater Collection/Conveyance		1,937,300	1,557,200	2,469,600	5,565,000	1,218,600	469,600	615,300	703,400	641,600	1,052,900	16,230,500			(6,351,960)	(9,878,540)	(16,230,500)



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Treatment and Disposal												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Caledonia Wastewater Treatment Plant																		
Replacement/State of Good Repair																		
452003	WWTP – SCADA Computer & Network Replmt				23,200							23,200				(23,200)		(23,200)
452026	Cal WWTP Blower and Supply Line Replacements	565,000										565,000				(565,000)		(565,000)
452029	WTP Electrical Panels and VFD Inspection/Maintenance	10,500			11,600							22,100				(22,100)		(22,100)
452031	Remotes–Control Equipment Replacement(SCADA)	19,500			90,500							110,000				(110,000)		(110,000)
452033	WWTP GENSET Replacement		242,300									242,300				(242,300)		(242,300)
452034	WWTP PLC Replacements				133,400							133,400			(32,000)	(101,400)		(133,400)
452063	Cal WWTP Filter Building Brick Repairs	20,000										20,000				(20,000)		(20,000)
452072	Caledonia WWTP Main Plant Raw Sewage Lift Pump Rebuild	30,000										30,000				(30,000)		(30,000)
452073	Caledonia WWTP Dechlorination Chemical Feed Pump Replacement		15,000	15,400								30,400				(30,400)		(30,400)
452074	Caledonia WWTP MCC Room Vent Fan Replacement		40,000									40,000				(40,000)		(40,000)
452075	Caledonia WWTP Sand Filter Backwash Pump Replacements			30,000								30,000				(30,000)		(30,000)
452076	Caledonia WWTP Main Wet Well Exhaust Vent Fan Replacement		60,000									60,000				(60,000)		(60,000)
Total Replacement/State of Good Repair		645,000	357,300	45,400	90,500	168,200						1,306,400			(32,000)	(1,274,400)		(1,306,400)
New/Enhanced Service																		
452025	Caledonia Wastewater Treatment Plant				35,000,000					25,000,000		60,000,000			(60,000,000)			(60,000,000)
452027	Cal WWTP Sludge Storage Tank Retrofit and Building Decommissioning			225,000								225,000			(112,500)	(112,500)		(225,000)
452058	Project Management Support [W]	71,800	73,500	75,400	77,300	79,300	81,200	83,300	85,300	87,500	89,700	804,300			(804,300)			(804,300)
Total New/Enhanced Service		71,800	73,500	300,400	35,077,300	79,300	81,200	83,300	85,300	87,500	25,089,700	61,029,300			(60,916,800)	(112,500)		(61,029,300)
Total Caledonia Wastewater Treatment Plant		716,800	430,800	345,800	35,167,800	247,500	81,200	83,300	85,300	87,500	25,089,700	62,335,700			(60,948,800)	(1,386,900)		(62,335,700)

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails, [STR] Structure



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Treatment and Disposal											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Cayuga Wastewater Treatment Plant																	
Replacement/State of Good Repair																	
455012	WTP Electrical Panel and VFD Inspection/Maintenance	5,300			5,800						11,100				(11,100)		(11,100)
455015	WWTP SCADA Computer & Network Replmt			21,500							21,500				(21,500)		(21,500)
455016	WWTP PLC Replacements	168,100									168,100			(40,300)	(127,800)		(168,100)
455021	Cay WWTP Clarifier Isolation Valve Replacements	25,000	25,600								50,600				(50,600)		(50,600)
455025	Cayuga WWTP UV Disinfection Bulb Replacement	10,000	10,300	10,500	10,800	11,100	11,300	11,600	11,900	12,200	12,500	112,200			(112,200)		(112,200)
455026	Cayuga WWTP Digester Clean-out and Inspection		30,000					34,000				64,000			(64,000)		(64,000)
455027	Cayuga WWTP Clarifier Mechanical Replacements				100,000							100,000			(100,000)		(100,000)
455028	Cayuga WWTP Oxidation Ditch Rotor #2 Refurbishment			10,000								10,000			(10,000)		(10,000)
Total Replacement/State of Good Repair		208,400	65,900	20,500	132,300	16,900	11,300	45,600	11,900	12,200	12,500	537,500		(40,300)	(497,200)		(537,500)
New/Enhanced Service																	
455011	Twinning of Headworks Screen		435,000									435,000			(435,000)		(435,000)
Total New/Enhanced Service			435,000									435,000			(435,000)		(435,000)
Total Cayuga Wastewater Treatment Plant		208,400	500,900	20,500	132,300	16,900	11,300	45,600	11,900	12,200	12,500	972,500		(40,300)	(932,200)		(972,500)
Dunnville Wastewater Treatment Plant																	
Replacement/State of Good Repair																	
456011	Blower Replacement - High Efficiency & VFD			220,800								220,800			(220,800)		(220,800)
456012	Aeration Diffuser System Replacement	50,000										50,000			(50,000)		(50,000)
456015	Odour Control Media Replacement		17,200			19,000				20,900		57,100			(57,100)		(57,100)
456018	WWTP SCADA Computer & Network Replmt				18,100							18,100			(18,100)		(18,100)

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails, [STR] Structure



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Treatment and Disposal											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Dunnville Wastewater Treatment Plant																	
456029	Clarifiers 3 & 4 Rebuild		150,000	125,000							275,000				(275,000)		(275,000)
456059	Dun WWTP Backup Waste Pump Replacement	25,000									25,000				(25,000)		(25,000)
456065	Dunnville WWTP CL2 Disinfection Piping Replacement	20,000									20,000				(20,000)		(20,000)
456066	Dunnville WWTP Dechlorination Chemical Feed Pump Replacement	8,000	8,200								16,200				(16,200)		(16,200)
456067	Dunnville WWTP CL2 Chemical Feed Pump Replacement	8,000	8,200								16,200				(16,200)		(16,200)
456068	Dunnville WWTP Ferris Chemical Feed Pump Replacement	10,000	10,300	10,500							30,800				(30,800)		(30,800)
456070	Dunnville WWTP Discharge Pipe Inspection		15,000								15,000				(15,000)		(15,000)
Total Replacement/State of Good Repair		121,000	208,900	356,300	18,100		19,000			20,900	744,200				(744,200)		(744,200)
New/Enhanced Service																	
456017	Sludge Storage Cell #4 Upgrades and Screen		102,300	496,700							599,000				(599,000)		(599,000)
456069	Dunnville WWTP RAS System Upgrades	95,000									95,000				(95,000)		(95,000)
456071	Dunnville WWTP Backup Generator Controll Access		20,000								20,000				(20,000)		(20,000)
456072	Dunnville WWTP Storage Lagoon Sampling Platform Construction				20,000						20,000				(20,000)		(20,000)
Total New/Enhanced Service		95,000	122,300	496,700	20,000						734,000				(734,000)		(734,000)
Total Dunnville Wastewater Treatment Plant		216,000	331,200	853,000	38,100		19,000			20,900	1,478,200				(1,478,200)		(1,478,200)
Hagersville Wastewater Treatment Plant																	
Replacement/State of Good Repair																	
453002	WWTP SCADA Computer & Network Replmt					25,600					25,600				(25,600)		(25,600)
453022	Remotes–Control Equipment Replacement(SCADA)					63,700					63,700			(15,300)	(48,400)		(63,700)



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Treatment and Disposal											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Hagersville Wastewater Treatment Plant																	
453023	WWTP Electrical Panel and VFD Inspection/Maintenance	10,500				11,600					22,100				(22,100)		(22,100)
453027	WWTP PLC Replacements				135,800	197,100					332,900			(79,900)	(253,000)		(332,900)
453069	Hagersville WWTP Filter Backwash Pumps Refurbish/Replacement	20,000	8,200	8,400	8,600						45,200				(45,200)		(45,200)
453070	Hagersville WWTP UV Disinfection Bulb Replacement	20,000	20,500	21,100	21,600	22,100	22,700	23,200	23,800	24,400	224,400				(224,400)		(224,400)
453071	Hagersville WWTP East Aeration Basin Cleanout and Inspection		14,000								14,000				(14,000)		(14,000)
453072	Hagersville WWTP High Voltage Assessment and Repairs			17,000							17,000				(17,000)		(17,000)
Total Replacement/State of Good Repair		50,500	42,700	46,500	166,000	320,100	22,700	23,200	23,800	24,400	744,900			(95,200)	(649,700)		(744,900)
New/Enhanced Service																	
453026	Grit Removal System					500,000	3,500,000				4,000,000			(1,200,000)	(2,800,000)		(4,000,000)
453073	Hagersville WWTP Supernatant Slip Pipe Actuator Valve				40,000						40,000				(40,000)		(40,000)
Total New/Enhanced Service					40,000	500,000	3,500,000				4,040,000			(1,200,000)	(2,840,000)		(4,040,000)
Total Hagersville Wastewater Treatment Plant		50,500	42,700	46,500	206,000	820,100	3,522,700	23,200	23,800	24,400	4,784,900			(1,295,200)	(3,489,700)		(4,784,900)
Jarvis Lagoons																	
Replacement/State of Good Repair																	
454010	Jarvis Lagoon Clean Out							505,000			505,000				(505,000)		(505,000)
Total Replacement/State of Good Repair								505,000			505,000				(505,000)		(505,000)
Total Jarvis Lagoons								505,000			505,000				(505,000)		(505,000)
LEIP Lagoons																	
Replacement/State of Good Repair																	
459005	LEIP Lagoon Clean Out					386,300					386,300				(386,300)		(386,300)



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Treatment and Disposal												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
LEIP Lagoons																		
459008	LEIP Lagoon Wet Well Pumping Refurbishments	300,000										300,000				(300,000)		(300,000)
459009	Lake Erie Industrial Park (LEIP) Lagoon Access Lane Restoration		10,000									10,000				(10,000)		(10,000)
Total Replacement/State of Good Repair		300,000	10,000			386,300						696,300				(696,300)		(696,300)
Total LEIP Lagoons		300,000	10,000			386,300						696,300				(696,300)		(696,300)
Oswego Park Lagoons																		
Replacement/State of Good Repair																		
458001	Main Pump Station Roof Replacement						6,500					6,500				(6,500)		(6,500)
458003	Oswego Lagoon Clean Out			288,900								288,900				(288,900)		(288,900)
458007	Oswego Park WWT Lagoons Cell #1 Discharge Pipe Repair		10,000									10,000				(10,000)		(10,000)
Total Replacement/State of Good Repair			10,000	288,900			6,500					305,400				(305,400)		(305,400)
New/Enhanced Service																		
458008	Oswego Park WWT Lagoons Level Measurement Equipment Installation		15,000									15,000				(15,000)		(15,000)
458012	Oswego Park Lagoons Discharge Sampling Access Gate	6,000										6,000				(6,000)		(6,000)
Total New/Enhanced Service		6,000	15,000									21,000				(21,000)		(21,000)
Total Oswego Park Lagoons		6,000	25,000	288,900			6,500					326,400				(326,400)		(326,400)
Townsend Lagoons																		
Replacement/State of Good Repair																		
457005	Townsend Lagoon Clean Out					215,400				448,000		663,400				(663,400)		(663,400)
457012	Townsend Lagoon Access Lane Restoration			15,000								15,000				(15,000)		(15,000)
457013	Townsend Lagoon Site Gate Repairs	16,000										16,000				(16,000)		(16,000)
Total Replacement/State of Good Repair		16,000		15,000		215,400				448,000		694,400				(694,400)		(694,400)



HALDIMAND COUNTY

2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Treatment and Disposal											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing							
Total Townsend Lagoons											16,000			15,000	215,400			448,000	694,400		(694,400)			
Wastewater Treatment General																								
Replacement/State of Good Repair																								
451003	Facility Condition Assessment [W]										26,300			27,600		29,000		30,500		32,000	145,400	(145,400)		
451004	SCADA Master Plan Updates													38,600				43,400			82,000	(82,000)		
451007	SCADA Maintenance										21,000	21,500	22,100	22,600	23,200	23,800	24,400	25,000	25,600	26,200	235,400	(235,400)		
451009	Composite Sampler-Replacement Program											40,900		43,000		45,200		47,460		49,900	226,460	(226,460)		
451011	SCADA Technical Support										42,000	43,100	44,200	45,300	46,400	47,500	48,700	50,000	51,200	52,500	470,900	(470,900)		
451015	Wastewater Operating Capital										41,000	42,000	43,100	44,200	45,300	46,400	47,600	48,700	50,000	51,200	459,500	(459,500)		
451018	Asbestos Annual Inspection and Remediation [W]										4,200	4,300	4,400	4,500	4,600	4,800	4,900	5,000	5,100	5,200	47,000	(47,000)		
451024	Plant Capital Improvements																2,100,000	2,590,600	2,662,900	2,189,700	2,100,000	11,643,200	(11,643,200)	
Total Replacement/State of Good Repair											134,500	151,800	180,000	159,600	148,500	2,267,700	2,746,700	2,882,460	2,353,600	2,285,000	13,309,860	(813,900)	(12,495,960)	(13,309,860)
New/Enhanced Service																								
451014	Effluent Water Quality & Impact Assessment										36,800	37,700	38,600	39,600	40,600	41,600	42,600	43,700	44,800	45,900	411,900	(411,900)		
Total New/Enhanced Service											36,800	37,700	38,600	39,600	40,600	41,600	42,600	43,700	44,800	45,900	411,900	(411,900)		(411,900)
Total Wastewater Treatment General											171,300	189,500	218,600	199,200	189,100	2,309,300	2,789,300	2,926,160	2,398,400	2,330,900	13,721,760	(1,225,800)	(12,495,960)	(13,721,760)
Total Wastewater Treatment and Disposal											1,685,000	1,530,100	1,788,300	35,958,800	1,659,900	5,950,000	3,446,400	3,047,160	2,970,500	27,479,000	85,515,160	(63,510,100)	(22,005,060)	(85,515,160)

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails, [STR] Structure



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Technical Reviews and Studies												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing	
Caledonia Wastewater Technical Reviews and Studies																			
Replacement/State of Good Repair																			
452001	Cal - Master Servicing Plan Update [W][R][SS]										50,000				58,000		108,000	(108,000)	(108,000)
Total Replacement/State of Good Repair										50,000				58,000		108,000	(108,000)	(108,000)	
Total Caledonia Wastewater Technical Reviews and Studies										50,000				58,000		108,000	(108,000)	(108,000)	
Cayuga Wastewater Technical Reviews and Studies																			
Replacement/State of Good Repair																			
455014	Cay - Master Servicing Plan Update [W][R][SS]										25,000				29,000		54,000	(54,000)	(54,000)
Total Replacement/State of Good Repair										25,000				29,000		54,000	(54,000)	(54,000)	
Total Cayuga Wastewater Technical Reviews and Studies										25,000				29,000		54,000	(54,000)	(54,000)	
Dunnville Wastewater Technical Reviews and Studies																			
Replacement/State of Good Repair																			
456014	Dun - Master Servicing Plan Update [W][R][SS]														34,800		34,800	(34,800)	(34,800)
Total Replacement/State of Good Repair														34,800		34,800	(34,800)	(34,800)	
Total Dunnville Wastewater Technical Reviews and Studies														34,800		34,800	(34,800)	(34,800)	
Hagersville Wastewater Technical Reviews and Studies																			
Replacement/State of Good Repair																			
453020	Hag - Master Servicing Plan Update [W][R][SS]														34,000		34,000	(34,000)	(34,000)
453058	Hag WWTP EA for Plant Expansion										275,000						275,000	(275,000)	(275,000)
Total Replacement/State of Good Repair										275,000				34,000		309,000	(275,000)	(34,000)	(309,000)



HALDIMAND COUNTY
2024 to 2033 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Wastewater Technical Reviews and Studies																		
Total Hagersville Wastewater Technical Reviews and Studies												309,000			(275,000)	(34,000)		(309,000)
Jarvis Wastewater Technical Reviews and Studies																		
Replacement/State of Good Repair																		
454001 Jar - Master Servicing Plan Update [W][R][SS]												35,000				(35,000)		(35,000)
Total Replacement/State of Good Repair												35,000				(35,000)		(35,000)
Total Jarvis Wastewater Technical Reviews and Studies												35,000				(35,000)		(35,000)
LEIP Wastewater Technical Reviews and Studies																		
Replacement/State of Good Repair																		
459006 LEIP - Master Servicing Plan [W][R][S]												108,000				(108,000)		(108,000)
Total Replacement/State of Good Repair												108,000				(108,000)		(108,000)
Total LEIP Wastewater Technical Reviews and Studies												108,000				(108,000)		(108,000)
Total Wastewater Technical Reviews and Studies												648,800			(275,000)	(373,800)		(648,800)

Note: [W] Water, [WW] Wastewater, [SS] Storm Sewer, [R] Roads, [CIW] Cast Iron Watermain, [TR] Trails, [STR] Structure



2024 Capital Financing Principles

<u>Principles</u>		
<u>Source</u>	<u>Sub-category</u>	<u>Principle</u>
External Sources	External Financing - Donation/Contributions	Municipal Drains based on legislative assessment. Partnership with community groups based on Community Partnership Framework for new service/enhanced infrastructure projects, or acceleration of replacement of infrastructure.
	External Financing - Donation towards Decorative Streetlights	Upgrades from standard to decorative streetlights will be funded by BIA or community group
	External Financing - Municipal Recoveries	Based on agreed cost sharing principles
Grants	Allocation of Canada Community Building Fund (Federal Gas Tax) Funds	Prior to 2024, allocation 50/50 between water/wastewater and tax supported capital projects. CHANGE FOR 2024: - Phasing out water/wastewater allocations throughout the forecast based on positive CRRF balances, reallocating to tax supported capital projects. Apply to incremental projects, new/enhanced services. Gas Tax will be used in order to avoid debt financing. Need to ensure the project meets eligibility requirements for Gas Tax funding.
	Ontario Community Infrastructure Fund - formula component	As the intention of this program is to assist municipalities in funding critical projects identified within their Asset Management Plans in the eligible “core infrastructure” areas, and as the County’s current Asset Management Plan (AMP) identifies funding needs within the core infrastructure areas of Roads, Bridges, and Water, with the largest infrastructure deficit shown within the roads program, this funding will be utilized within the roads program. Future year’s allocations will be assigned to eligible capital projects through the annual capital budget review process.
	Clean Water and Wastewater Fund	To be utilized for acceleration of the rehabilitation and modernization of drinking water, wastewater and stormwater infrastructure; to foster economic growth and support a cleaner and healthier environment for communities; to improve the reliability of drinking water, wastewater and stormwater systems and meet federal or provincial regulations, standards or guidelines.
	Other Grants	As available based on eligibility of funds
County Reserves/Reserve Funds	Capital Replacement Reserves/Reserve Funds	Capital Replacement Reserves/Reserve Funds will have a positive balance at the end of the 10 year forecast. Interim financing during the forecast will not exceed 25% of annual contributions in any given year. All projects requiring interim financing will have interest charges applied to the capital project.
	Land Sales Reserve	To be utilized for to provide a source of funds for land purchases, building construction or major capital improvements to County-owned buildings.
	Parkland Dedication Reserve fund	To be utilized for to provide a source of funds for acquisition and development of public parks, recreation facilities and trails.
	Development Charge Reserve Funds	Development Charges reserve funds will remain positive in aggregate over the 10 year forecast.
Debt Financing	County Debt Portion	Annual debt repayments will not exceed 10% of own source revenues. Debt will only be applied to projects under the following principles: Gross Project Costs < \$1 million: Not eligible for debt Gross Project Costs between \$1 Million and \$10 Million : Debt financed for a period of 10 years. Gross Project Costs > \$10 million and asset life >20 years: Debt financed for a period of 20 years. Debt to be issued at time of project initiation (i.e. award of tender) Engineering components less than 25% of project cost, if initiated more than 2 years before construction, will not be eligible for debt financing.
	DC Debt (growth related debt)	DC debt will be applied under the following circumstances: Projects where issuing debt for County share of project, and development charges funding is applicable, DC debt will be considered if insufficient development charges receipts are available. Debt to be issued at time of project initiation (i.e. award of tender) If the DCRF results in a negative balance, a review of significant DC funded projects will occur to review for potential DC debt issuance

Application of Funding Sources for Specific Capital Projects	
<u>Nature of Project</u>	<u>Hierarchy of Funding Source</u>
Replacements/SOGR	External Revenues Applicable Grants Development Charges (if applicable) Specific Capital Replacement Reserve/Reserve Funds Debt Financing
New Initiatives/Enhancements	External Revenues Applicable Grants Development Charges (if applicable) Specific Capital Replacement Reserve/Reserve Funds Debt Financing



Haldimand

County

2024 Debt History

TAX SUPPORTED													
<u>Project</u>	<u>ByLaw #</u>	<u>Payee</u>	<u>Pmt Method</u>	<u>Issue Date</u>	<u>Original Principal</u>	<u>Current Interest Rate</u>	<u>Annual Principal Payments (average)</u>	<u>Outstanding Principal (as at December 31, 2023)</u>	<u>2024 Annual Payments</u>	<u>Offsetting Funding</u>	<u>Net County Responsibility</u>	<u>Outstanding Principal (as at December 31, 2024)</u>	<u>Maturity</u>
Central Administration Facility	2067/19	IO	PAD	July 2, 2019	\$19,450,000	2.71%	\$972,500	\$15,560,000	\$1,388,761	\$0	\$1,388,761	\$14,587,500	2039
Cayuga Fire Station	1711/16	IO	PAD	October 3, 2016	\$1,502,800	2.07%	\$150,280	\$450,840	\$158,858	(\$108,816)	\$50,042	\$300,560	2026
Hagersville Fire Station	1711/16	IO	PAD	October 3, 2016	\$1,747,700	2.07%	\$174,770	\$524,310	\$184,746	(\$24,672)	\$160,074	\$349,540	2026
South Haldimand Fire Station	1711/16	IO	PAD	October 3, 2016	\$1,236,300	2.07%	\$123,630	\$370,890	\$130,687	(\$42,727)	\$87,960	\$247,260	2026
Cayuga EMS Station	1711/16	IO	PAD	October 3, 2016	\$512,900	2.07%	\$51,290	\$153,870	\$54,218	(\$8,087)	\$46,131	\$102,580	2026
Hagersville EMS Station	1711/16	IO	PAD	October 3, 2016	\$710,400	2.07%	\$71,040	\$213,120	\$75,095	(\$10,074)	\$65,021	\$142,080	2026
Dunn Storm Sewer - Alder to Cedar	2304/21	IO	PAD	October 1, 2021	\$524,140	2.01%	\$52,414	\$419,312	\$59,949	(\$59,949)	\$0	\$366,898	2031
Grandview	824/07	IO	PAD	July 16, 2007	\$17,000,000	5.27%	\$850,000	\$3,400,000	\$1,018,503	\$0	\$1,018,503	\$2,550,000	2027
Grandview - New Debt	1393/13	IO	PAD	October 1, 2013	\$1,686,000	3.82%	\$112,453	\$562,267	\$132,914	\$0	\$132,914	\$449,814	2028
Conversion of CNR Bridge	2066/19	IO	PAD	July 2, 2019	\$1,160,000	2.40%	\$116,000	\$696,000	\$132,056	\$0	\$132,056	\$580,000	2029
Cayuga Arena	1394/13	IO	PAD	October 1, 2013	\$6,620,400	4.11%	\$331,020	\$3,310,200	\$464,031	(\$246,244)	\$217,787	\$2,979,180	2033
Dunnville Arena	1394/13	IO	PAD	October 1, 2013	\$7,656,900	4.11%	\$382,845	\$3,828,450	\$536,681	(\$161,574)	\$375,107	\$3,445,605	2033
Cayuga Library	2066/19	IO	PAD	July 2, 2019	\$2,299,800	2.40%	\$229,980	\$1,379,880	\$261,812	(\$76,934)	\$184,878	\$1,149,900	2029
Dunnville Library	1829/17	CDS	PAD	July 5, 2017	\$864,700	1.55%	\$86,470	\$363,985	\$96,275	(\$96,275)	\$0	\$275,776	2027
Caledonia Lions Hall	1711/16	IO	PAD	October 3, 2016	\$1,653,000	2.07%	\$165,300	\$495,900	\$174,735	\$0	\$174,735	\$330,600	2026
Total Tax Supported								\$31,729,024	\$4,869,321	(\$835,353)	\$4,033,968	\$27,857,292	

RATE SUPPORTED (WATER AND WASTEWATER)													
<u>Project</u>	<u>ByLaw #</u>	<u>Payee</u>	<u>Pmt Method</u>	<u>Issue Date</u>	<u>Original Principal</u>	<u>Current Interest Rate</u>	<u>Annual Principal Payments (average)</u>	<u>Outstanding Principal (as at December 31, 2023)</u>	<u>2024 Annual Payments</u>	<u>Offsetting Funding</u>	<u>Net County Responsibility</u>	<u>Outstanding Principal (as at December 31, 2024)</u>	<u>Maturity</u>
Water projects													
Jarvis Watermain Replacement	1829/17	CDS	PAD	July 5, 2017	\$2,250,000	1.55%	\$225,000	\$947,109	\$250,513	(\$62,628)	\$187,885	\$717,584	2027
Nanticoke Electrical Servicing Upgrades	1829/17	CDS	PAD	July 5, 2017	\$100,000	1.55%	\$10,000	\$42,093	\$11,134	(\$11,134)	\$0	\$31,892	2027
Nanticoke Filter Building Expansion	1829/17	CDS	PAD	July 5, 2017	\$1,704,400	1.55%	\$170,440	\$717,446	\$189,767	(\$47,442)	\$142,325	\$543,579	2027
Nanticoke High Rate Sedimentation Capacity Expansion	1829/17	CDS	PAD	July 5, 2017	\$1,337,400	1.55%	\$133,740	\$562,962	\$148,905	(\$37,221)	\$111,684	\$426,532	2027
Nanticoke Water System Filter Replacement	1829/17	CDS	PAD	July 5, 2017	\$2,340,900	1.55%	\$234,090	\$985,372	\$260,634	(\$260,634)	\$0	\$746,575	2027
Nanticoke Water Treatment Process	1829/17	CDS	PAD	July 5, 2017	\$2,983,200	1.55%	\$298,320	\$1,255,741	\$332,147	(\$83,037)	\$249,111	\$951,421	2027
Wastewater Projects													
Caledonia WWTP Upgrades	1829/17	CDS	PAD	July 5, 2017	\$628,700	1.55%	\$62,870	\$264,643	\$69,999	(\$69,999)	\$0	\$200,509	2027
Caledonia Nairne Street Forcemain	2304/21	IO	PAD	October 1, 2021	\$1,233,500	2.01%	\$123,350	\$986,800	\$141,084	(\$141,084)	\$0	\$863,450	2031
Caledonia Nairne Street Forcemain	2377/22	IO	PAD	September 15, 2022	\$4,416,500	4.07%	\$441,650	\$3,974,850	\$599,339	(\$599,339)	\$0	\$3,533,200	2032
Dunnville WWTP	2066/19	IO	PAD	July 2, 2019	\$9,178,950	2.40%	\$917,895	\$5,507,370	\$1,044,942	(\$52,247)	\$992,694	\$4,589,475	2029
Jarvis Lagoon Upgrades	1829/17	CDS	PAD	July 5, 2017	\$122,700	1.55%	\$12,270	\$51,649	\$13,661	(\$13,661)	\$0	\$39,132	2027
Jarvis - Additional Wastewater Treatment Capacity	2304/21	IO	PAD	October 1, 2021	\$6,000,000	2.01%	\$600,000	\$4,800,000	\$686,261	(\$686,261)	\$0	\$4,200,000	2031
Townsend Lagoon	2066/19	IO	PAD	July 2, 2019	\$562,500	2.40%	\$56,250	\$337,500	\$64,036	(\$64,036)	\$0	\$281,250	2029
Caledonia WWTP - Aeration Diffuser Head Upgrades	2304/21	IO	PAD	October 1, 2021	\$591,010	2.01%	\$59,101	\$472,808	\$67,598	(\$67,598)	\$0	\$413,707	2031
Total Rate Supported Water and Wastewater								\$20,906,343	\$3,880,019	(\$2,196,320)	\$1,683,699	\$17,538,306	

Total Debt:								\$52,635,367	\$8,749,340	(\$3,031,673)	\$5,717,668	\$45,395,599	
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Capital Replacement Reserve Funds - Water and Wastewater

FORECAST OF CAPITAL REPLACEMENT RESERVE FUND - WATER
FOR THE YEARS 2024 TO 2033

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	7,523,798	652,054	747,024	1,745,188	1,976,679	3,508,982	5,883,027	6,904,901	4,376,699	5,144,400	5,633,543
Source of Funds:											
Budgeted Annual Contribution	1,690,290	1,913,905	2,057,199	2,199,186	2,342,476	3,175,750	3,318,460	3,461,170	3,603,880	3,746,590	3,889,300
Contribution from Rate Stabilization Reserve	750,000										
Interest Earned	21,090	15,565	27,725	41,405	61,027	104,485	142,264	98,878	105,921	119,903	43,646
Total Source of Funds	2,461,380	1,929,470	2,084,924	2,240,591	2,403,503	3,280,235	3,460,724	3,560,048	3,709,801	3,866,493	3,932,946
Use of Funds:											
Commitment for Active Projects	9,333,123										
New Initiative/Enhanced Service		12,000	65,000	653,500	309,500		125,000	922,650	9,200	14,700	
Replacement/State of Good Repair		1,822,500	1,021,760	1,355,600	561,700	906,190	2,313,850	5,165,600	2,932,900	3,362,650	7,754,820
Total Use of Funds	9,333,123	1,834,500	1,086,760	2,009,100	871,200	906,190	2,438,850	6,088,250	2,942,100	3,377,350	7,754,820
Closing Balance December 31st	652,054	747,024	1,745,188	1,976,679	3,508,982	5,883,027	6,904,901	4,376,699	5,144,400	5,633,543	1,811,669

FORECAST OF CAPITAL REPLACEMENT RESERVE FUND - SEWER
FOR THE YEARS 2024 TO 2033

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>	<u>SEWER</u>
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	18,701,862	13,393,699	12,812,937	14,734,129	13,617,790	14,992,925	15,218,705	12,665,327	12,362,005	12,403,142	12,452,988
Source of Funds:											
Budgeted Annual Contribution	1,948,480	2,129,156	2,150,399	2,171,327	2,192,255	2,213,097	2,234,111	3,121,850	3,121,850	3,121,850	3,121,850
Contribution from Rate Stabilization Reserve			2,250,000								
Leachate Haldimand Capital component	27,140	27,140	27,140	27,140	27,140	27,140	27,140	27,140	27,140		
Overstrength Capital Contribution	97,899	78,450	78,450	78,450	78,450	78,450	78,450	78,450	78,450	78,450	78,450
Interest Earned	300,212	282,792	275,303	301,044	318,290	334,993	281,472	272,588	273,157	274,246	278,269
Total Source of Funds	2,373,731	2,517,538	4,781,292	2,577,961	2,616,135	2,653,680	2,621,173	3,500,028	3,500,597	3,474,546	3,478,569
Use of Funds:											
Commitment for Active Projects	7,681,893										
New Initiative/Enhanced Service		724,000	856,200	609,200	60,000	350,000	2,450,000	22,650	27,400		
Replacement/State of Good Repair		2,374,300	2,003,900	3,085,100	1,181,000	2,077,900	2,724,550	3,780,700	3,432,060	3,424,700	3,289,740
Total Use of Funds	7,681,893	3,098,300	2,860,100	3,694,300	1,241,000	2,427,900	5,174,550	3,803,350	3,459,460	3,424,700	3,289,740
Closing Balance December 31st	13,393,699	12,812,937	14,734,129	13,617,790	14,992,925	15,218,705	12,665,327	12,362,005	12,403,142	12,452,988	12,641,817



Canada Community Building Fund Reserve Fund

FORECAST OF CANADA COMMUNITY BUILDING FUND RESERVE FUND
FOR THE YEARS 2024 TO 2033

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	8,646,768	9,077,816	8,801,767	7,459,649	2,110,073	2,894,153	340,747	362,884	317,225	150,103	105,479
Source of Funds:											
Budgeted Contribution	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709	3,018,709
One Time Additional Contribution											
Interest Earned	197,183	194,142	165,623	51,714	55,671	10,005	7,828	7,032	3,470	2,367	1,505
Total Source of Funds	3,215,892	3,212,851	3,184,332	3,070,423	3,074,380	3,028,714	3,026,537	3,025,741	3,022,179	3,021,076	3,020,214
Use of Funds:											
Commitment for Active Projects (Tax)	2,043,128										
Commitment for Active Projects (Water/Wastewater)	741,716										
Contribution to State of Good Repair Projects (Tax Supported)		1,776,400	2,463,850	5,823,400	879,000	3,547,120	1,909,700	2,070,500	3,151,700	2,963,200	2,953,900
Contribution to New Initiatives/Enhanced Service Projects (Tax Supported)		642,000	1,111,900	143,600	90,600	1,002,200	71,400	365,000	37,600	102,500	105,200
Contribution to New Initiatives/Enhanced Service Projects (Water)											
Contribution to State of Good Repair Projects (Water)		1,070,500	950,700	2,453,000	1,320,700	1,032,800	1,023,300	635,900			
Gravel Road Conversion One-Time Funding											
Total Use of Funds	2,784,844	3,488,900	4,526,450	8,420,000	2,290,300	5,582,120	3,004,400	3,071,400	3,189,300	3,065,700	3,059,100
Closing Balance December 31st	9,077,816	8,801,767	7,459,649	2,110,073	2,894,153	340,747	362,884	317,225	150,103	105,479	66,593

NOTE: Tax Supported Capital project funding is based on preliminary figures and will be finalized through the Tax Supported Capital Budget.



Development Charges Reserve Fund - Water

DEVELOPMENT CHARGES RESERVE FUND - WATER FOR THE YEARS 2024 TO 2033											
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	942,162	935,709	1,195,341	(235,170)	(2,871,760)	(5,809,279)	(8,222,431)	(11,024,940)	(13,784,557)	(16,824,940)	(19,848,626)
Source of Funds:											
Actual Receipts to December 31											
Receipts expected per DC study (prorated if part year)	752,350	774,920	798,170	849,780	875,270	901,530	928,580	956,430	969,090	998,160	1,028,110
Interest Earned	20,617	23,708	(3,780)	(65,393)	(182,714)	(295,332)	(405,109)	(522,177)	(644,253)	(771,886)	(899,938)
Total Source of Funds	772,967	798,628	794,390	784,387	692,556	606,198	523,471	434,253	324,837	226,274	128,172
Use of Funds:											
DC debt repayment (note 1)	502,040	502,096	501,671	502,197	501,775	0	0	0	0	0	0
Forecasted DC debt repayment (note 2)		0	1,689,830	2,876,180	3,025,400	2,911,150	3,108,680	2,983,270	3,138,620	3,003,160	2,867,700
Proposed Projects-Capital Forecast (Tax)	11,472										
Proposed Projects-Capital Forecast (WWW) (note 3)	265,908	36,900	33,400	42,600	102,900	108,200	217,300	210,600	226,600	246,800	320,740
Total Use of Funds	779,420	538,996	2,224,901	3,420,977	3,630,075	3,019,350	3,325,980	3,193,870	3,365,220	3,249,960	3,188,440
Closing Balance December 31st	935,709	1,195,341	(235,170)	(2,871,760)	(5,809,279)	(8,222,431)	(11,024,940)	(13,784,557)	(16,824,940)	(19,848,626)	(22,908,894)

Note 1: Debt repayment includes Nanticoke Water Treatment Plant (2018-2027), Jarvis Watermain Replacement (2018-2027)

Note 2: Forecasted debt repayment includes estimates for the following projects budgeting for completion between 2024-2033: Caledonia North Water Storage Upgrades (2026-2035), Dunnville WTP Reservoir Expansion (2029-2038), Twinning of 450mm Water Main on Hwy 6 (2027-2036), Twinning of 350mm Water Main on Hald Rd 66 (2031-2040), and Hagersville Hwy 6 Transmission Main Twinning (2025-2034).

Note 3: Proposed project expenditures are based on the 2024 10 year capital forecast (2024-2033). Additional projects have been added to the 10 year forecast that were not included in the Haldimand County Development Charge Background Study, March 5, 2019.

Note 4: Though the Development Charges Reserve Fund - Wastewater is currently projecting to be in a negative balance at the end of the 10 year forecasted period, all DC related expenditures are forecasted over a 20 year period, at which time the reserve fund will come to a zero balance. A comprehensive Development Charges study is completed every five years and will be completed again in 2023-24.



Development Charges Reserve Fund - Wastewater

DEVELOPMENT CHARGES RESERVE FUND - WASTEWATER FOR THE YEARS 2024 TO 2033											
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Opening Balance January 1st	(2,932,279)	(6,957,175)	(7,447,778)	(8,471,166)	(9,468,010)	(10,303,968)	(15,601,834)	(20,779,414)	(25,999,143)	(31,181,222)	(35,477,831)
Source of Funds:											
Actual Receipts to December 31											
Receipts expected per DC study (prorated if part year)	2,262,920	2,330,810	2,400,730	2,555,890	2,632,560	2,711,540	2,792,890	2,876,670	2,914,790	3,002,230	3,092,300
Interest Earned	(208,148)	(303,188)	(335,054)	(377,574)	(416,150)	(545,252)	(765,734)	(984,571)	(1,203,503)	(1,403,005)	(1,572,102)
Total Source of Funds	2,054,772	2,027,622	2,065,676	2,178,316	2,216,410	2,166,288	2,027,156	1,892,099	1,711,287	1,599,225	1,520,198
Use of Funds:											
DC debt repayment (note 1)	1,929,840	1,694,224	1,658,454	1,623,640	1,588,668	1,470,574	1,435,257	1,298,818	1,266,367	455,144	0
Forecasted DC debt repayment (note 2)		0	1,285,810	1,258,820	1,267,700	5,658,980	5,485,780	5,496,910	5,317,100	5,137,290	4,957,480
Proposed Projects-Capital Forecast (Tax)	11,472										
Proposed Projects-Capital Forecast (WWW) (note 3)	4,138,357	824,000	144,800	292,700	196,000	334,600	283,700	316,100	309,900	303,400	300,160
Gateway Commercial (Caledonia) LP Front Ending Agreement											
Total Use of Funds	6,079,668	2,518,224	3,089,064	3,175,160	3,052,368	7,464,154	7,204,737	7,111,828	6,893,367	5,895,834	5,257,640
Closing Balance December 31st	(6,957,175)	(7,447,778)	(8,471,166)	(9,468,010)	(10,303,968)	(15,601,834)	(20,779,414)	(25,999,143)	(31,181,222)	(35,477,831)	(39,215,273)

Note 1: Debt repayment schedule includes Caledonia WPCP Refinancing (2014-2023), Caledonia WWTP (2014-2023), Jarvis Lagoon Upgrades (2018-2027), Townsend Lagoon Upgrades (2020-2029), Dunnville WWTP (2020-2029), Caledonia Nairne St. Forcemain (2022-2032), Caledonia WWTP Aeration Head Diffusers (2022-2031), Caledonia WWTP Wet Well Expansion (2022-2031), Jarvis Additional Wastewater Treatment Capacity (2022-2031).

Note 2: Forecasted debt repayment includes estimates for the following projects budgeted for completion between 2024 - 2033; Hagersville Grit Removal System (2029-2038), McClung Pump Station Upgrades (2028-2037), McClung Pump Station Forcemain Extension (2028-2037), Nairne Pump Station Forcemain Extension (2028-2037), New Caledonia Wastewater Treatment Plant Phase 1 & 2 (2025-2034 and 2028-2037); Cayuga Ouse St Pumping Station Replacement (2027-2036); Cayuga Ouse St Forcemain Twinning (2026-2035); Caledonia WTP Wetwell Expansion (2025-2034).

Note 3: Proposed project expenditures are based on the 2024 10 year capital forecast (2024-2033). Additional projects have been added to the 10 year forecast that were not included in the Haldimand County Development Charge Background Study, March 5, 2019.

Note 4: Though the Development Charges Reserve Fund - Wastewater is currently projecting to be in a negative balance at the end of the 10 year forecasted period, all DC related expenditures are forecasted over a 20 year period, at which time the reserve fund will come to a zero balance. A comprehensive Development Charges study is completed every five years and will be completed again in 2023-24.