

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

The "Draft" Rate Supported Budget for 2023 has been approved by Council on December 8, 2022 as is, and therefore is,  
the **Final Rate Supported Budget for 2023.**





**Haldimand**  
County



# 2023 Rate Supported Water & Wastewater Operating Budget and Capital Forecast

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**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 \$15.2 million in 2023; which will equate to an impact of \$1.54 or 1.83% per month for the average residential user. (See Operating Summary 1 on page #32).

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

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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 2023 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 2023 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 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 2023 Draft Rate Supported Operating Budget, as outlined in this document, the total net revenues required from the users is approximately \$15.2 million, representing an overall **increase** of approximately \$1.4 million or 10.02% compared to the 2022 budgeted total rates revenue of \$13.8 million (the water system requires an increase of \$1.1 million or 16.86% in rates revenue; while the wastewater system reflects an increase of approximately \$276,200 or 3.81% in rates revenue). The relative impact on each system varies: a 1% impact in the water system is equal to approximately \$65,800 in user rates revenue; while a 1% impact on the wastewater system is equal to \$72,400 (\$138,200 combined).

**Key Financial Messages - 2023 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 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;
- An overall increase in net costs, driven primarily by:
  - An increase to the OCWA water operations contract based on the approved contract;
  - Expenditure increase in the cost for Hamilton Water based on consumption increase and rate change;
  - An increases to the insurance requirements based on preliminary estimates and known pressures that are not unique to Haldimand;
  - Expenditure increases to the Veolia wastewater operations based on the approved contract, in addition to known increases to chemical costs.
  - The use of the Water Rate Stabilization Reserve to phase-in in abnormally large water cost increases
  - A 1.0% contribution to the Capital Replacement Reserve Fund – Water (CRRF – Water) matching the financing principles set out in Capital Summary 3;
  - Partially offset by revenue increases in bulk water consumption and the annual fire protection charge;

Overall impact is a **1.83%** increase (or **\$1.54**) per month for the average residential user.

Average Monthly Residential Customer Impact (15 m3)				
	2022	2023	\$	%
Total Water	\$37.56	\$41.12	\$3.56	
Total Wastewater	\$46.91	\$44.90	(\$2.02)	
<b>Total</b>	<b>\$84.47</b>	<b>\$86.02</b>	<b>\$1.54</b>	<b>1.83%</b>

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.

The 2023 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” and will be included in the Asset Management Plan scheduled to Council

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.

### 2023 Rate Supported Operating Budget

Notable drivers in the 2023 Rate Supported Operating Budget include:

#### ***Water Operations:***

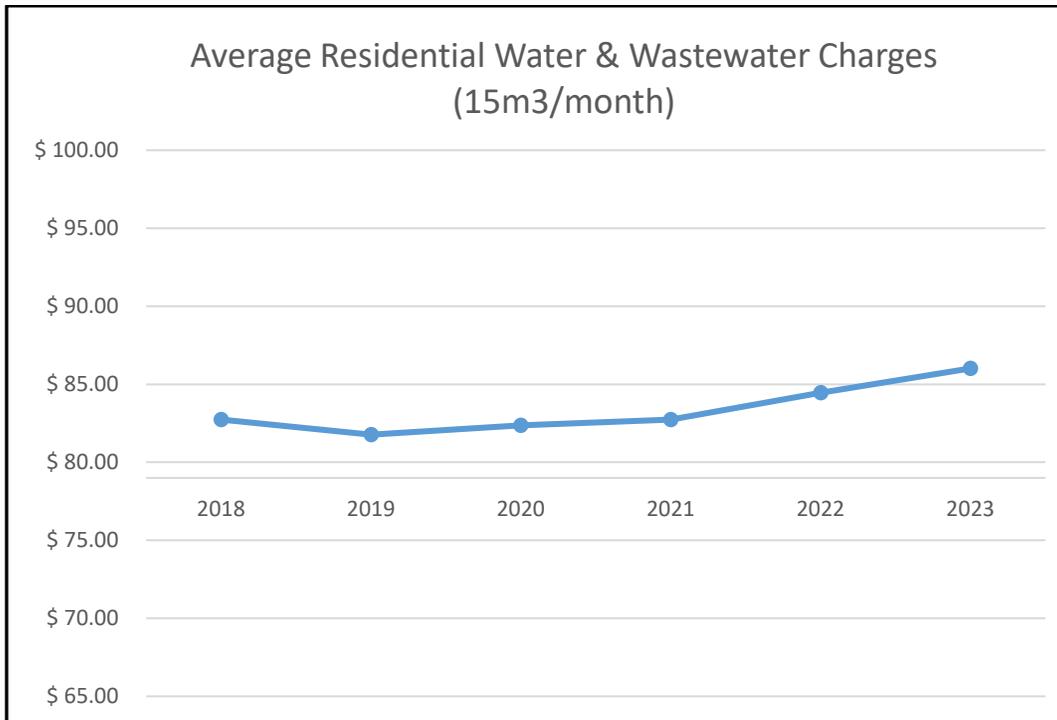
- Revenue increases in bulk water consumption and the annual fire protection charge;
- An increase to the OCWA operations contract based on the approved contract;
- Expenditure increase in the cost for Hamilton Water based on consumption increase and rate change;
- An increase to the insurance requirements based on preliminary estimates and known pressures that are not unique to Haldimand;
- A contribution to the Capital Replacement Reserve Fund – Water (CRRF – Water) matching the financing principles set out in Capital Summary 3;
- The use of the Water Rate Stabilization Reserve to assist in offsetting some of the cost increases.

#### ***Wastewater Operations:***

- Expenditure increases to the Veolia operations based on the approved contract, in addition to known increases to chemical costs;
- An increase to the insurance requirements based on preliminary estimates and known pressures that are not unique to Haldimand.

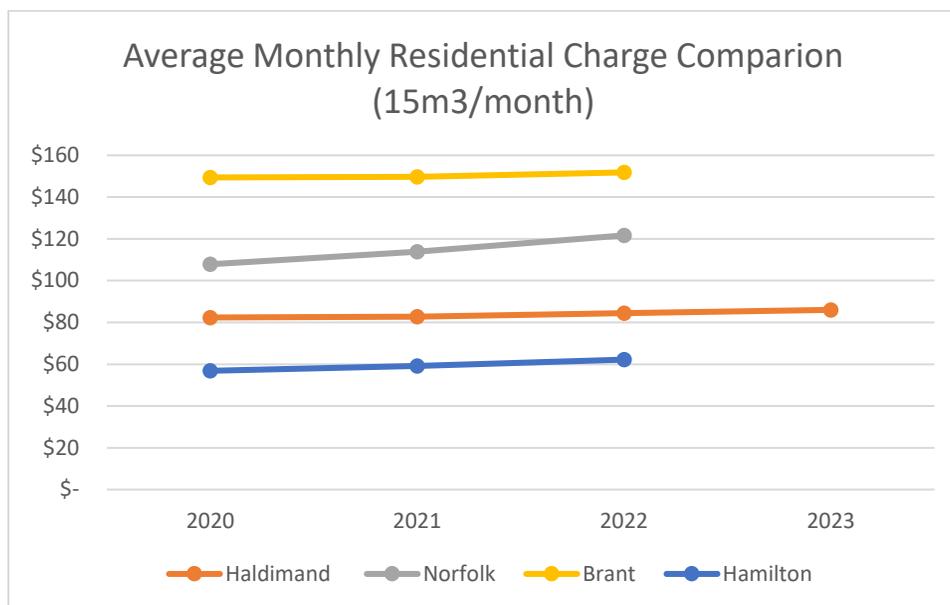
As water and wastewater operations are recovered 100% from the applicable users, changes in consumption patterns can shift the burden to different users. Although setting the fixed component of the bill at 50% will assist in offsetting future shifts in consumption, approximately 25% of the County’s total 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. Though the County’s user group is relatively small, the growth mainly related to the development in Caledonia is beginning to impact the end cost to the user, as additional customers will help spread the costs over more users. It should be noted that this growth may also result in additional costs to provide the service.

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



Average Monthly Residential Charges (15m3/month)	2018	2019	2020	2021	2022	2023	\$ Change	% Change
Water Basic	\$ 21.10	\$ 19.80	\$ 20.24	\$20.38	\$ 22.35	\$ 24.72	\$ 2.37	10.58%
Water Consumption	\$ 15.45	\$ 14.85	\$ 14.61	\$14.62	\$ 15.21	\$ 16.40	\$ 1.19	7.85%
<b>Total Water Charges</b>	<b>\$ 36.55</b>	<b>\$ 34.65</b>	<b>\$ 34.85</b>	<b>\$35.00</b>	<b>\$ 37.56</b>	<b>\$ 41.12</b>	<b>\$ 3.56</b>	<b>9.48%</b>
Wastewater Basic	\$ 24.14	\$ 24.03	\$ 24.86	\$24.60	\$ 24.71	\$ 23.98	\$ (0.73)	-2.94%
Wastewater Consumption	\$ 22.05	\$ 23.09	\$ 22.66	\$23.14	\$ 22.20	\$ 20.91	\$ (1.29)	-5.81%
<b>Total Wastewater Charges</b>	<b>\$ 46.20</b>	<b>\$ 47.12</b>	<b>\$ 47.52</b>	<b>\$47.74</b>	<b>\$ 46.91</b>	<b>\$ 44.90</b>	<b>\$ (2.02)</b>	<b>-4.30%</b>
<b>Total Water &amp; Wastewater Charges</b>	<b>\$ 82.75</b>	<b>\$ 81.77</b>	<b>\$ 82.37</b>	<b>\$82.74</b>	<b>\$ 84.47</b>	<b>\$ 86.02</b>	<b>\$ 1.54</b>	<b>1.83%</b>

To provide context, below is a comparison of the average monthly residential charge to other municipalities. Note that at the time of budget preparation, no other municipal comparators were available for 2023. However, as displayed below, the County’s rates remain competitive with neighbouring municipalities.



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 2023 rates. Bulk water users, holding/septic tank customers, and other miscellaneous user rates will experience overall increases relative to the inflationary increase of 3.0% on costs for 2023.

### 2023 Rate Supported Capital Forecast

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

The 2023 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 2023 Draft Rate Supported Capital Forecast are summarized below:

Gross Expenditures	2022 Budget Average Annual Gross Expenditures	2023 Draft Budget Average Annual Gross Expenditures
Water System	\$12.8 Million	\$11.9 Million
Wastewater System	\$9.9 Million	\$8.7 Million
<b>Total</b>	<b>\$22.7 Million</b>	<b>\$20.6 Million</b>

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 2023-2032 Rate Supported Capital Forecast can be found in Capital Summary 1.

As the water and wastewater systems are 100% self-funded from the users, there are limited financing sources and 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. 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. 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 \$870,000 in 2023) a significant portion of the Federal Gas Tax allocation was applied to water capital projects. All growth related projects are funded from development charges. Staff took a detailed look at the use of the Gas Tax Reserve Fund while preparing the 2023 Capital Forecast. As a result, all Rate Supported Federal Gas Tax Funding in 2023 is being allocated to Water projects. Moving forward, staff will continue to monitor the use of this grant, and may begin shifting the use of the funds, depending on the capital needs. Currently the split between the Rate Supported Capital Forecast and the Tax Supported Capital Forecast is 50/50, but that can be expected to change as the capital forecast needs are better understood through the further development of the County. 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 2023 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 8<sup>th</sup>, 2022. It is recommended that the required rate increases take effect January 1<sup>st</sup>, 2023, upon approval of the draft budget by Council.

## A. 2023 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 2023 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 10,815 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, the growth mainly related to the development in Caledonia 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.

### 2022 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 2023 operating budget document, the combined water/wastewater forecasted year end 2022 operating **surplus** is approximately \$128,579.

The following chart outlines the forecasted 2022 surplus/(deficit) for water operations:

2022 PROJECTED WATER OPERATING SURPLUS/(DEFICIT)	
Revenues:	Surplus/(Deficit)
User Rates Revenue - Regular Residential Consumption	\$34,500
User Rates Revenue - Regular Residential Base	\$35,390
User Rates Revenues - Regular Commercial Consumption	(\$4,950)
User Rates Revenues - Large Industrial Consumption	(\$16,540)
Bulk Water Consumption and Related Administration Fees	\$60,450
Transfers from Reserves/Reserve Funds- Stabilization	(\$98,575)
General Fees - Engineering/Inspection Fees	(\$34,600)
Miscellaneous items	(\$1,600)
<b>Sub-total Revenues</b>	<b>(\$25,925)</b>
Expenditures:	
Hamilton Water Supply	(\$62,800)
Utilities	\$110,900
Miscellaneous Items	(\$22,175)
<b>Sub-total Expenditures</b>	<b>\$25,925</b>
<b>Net Projected Surplus/(Deficit)</b>	<b>\$0</b>

The following chart outlines the forecasted 2022 surplus/(deficit) for wastewater operations:

2022 PROJECT WASTEWATER OPERATING SURPLUS/(DEFICIT)	
Revenues:	Surplus/(Deficit)
User Rates Revenue - Residential Consumption	\$99,547
User Rates Revenue - Residential Basic Charges	\$46,633
User Rates Revenues - Regular Commercial Consumption	\$24,857
User Rates Revenues - Regular Commercial Base Charges	(\$117,826)
User Rates Revenues - Large Industrial Consumption	\$79,825
Leachate - lower than anticipated volumes	(\$115,540)
Septic/Holding - increased volume due to temporary agreement for receipt of leachate from private company	\$174,600
Miscellaneous items	(\$2,190)
<b>Sub-total Revenues</b>	<b>\$189,906</b>
Expenditures:	
Veolia Contract - due to contractual increase	(\$60,300)
Miscellaneous items	(\$1,027)
<b>Sub-total Expenditures</b>	<b>(\$61,327)</b>
<b>Net Projected Surplus/(Deficit)</b>	<b>\$128,579</b>

There were several items with significant 2022 variances that impact the 2023 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.
- Greater than budgeted bulk water usage:
  - Action: increases in consumption have been taken in to account in determining the estimated consumption for bulk water customers.
- Lower than budgeted leachate treatment levels;
  - Action: Leachate budget remains the same, as a Leachate Best Practices Study is currently being completed. The study findings will be considered further during preparation of the 2024 budget.
- Hamilton Water Supply costs impacted by fluctuating volumes and increasing rates;
  - Action: The 2023 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. Staff are continuing with the use of the Water Rate Stabilization Reserve over an adjusted two year period (2022 and 2023) to assist in offsetting these increased costs and stabilize the impact on the end user.

## 2023 Draft Rate Supported Operating Budget Overview

The 2023 Draft Rate Supported Operating Budget, as outlined in this document, represents an overall net **increase** in total rate revenue requirements of \$1,385,570 or 10.02% compared to the 2022 budgeted total rates revenue of \$13.8 million: the water system requires a increase of \$1,109,330 or 16.86% in rates revenue; the wastewater system reflects an increase of \$276,240 or 3.81% in rates revenue. The relative impact on each system varies: a 1% impact in the water system is equal to approximately \$65,800 in user rates revenue; while a 1% impact on the wastewater system is equal to \$72,400.

The budget summary by major function is outlined below. The 2023 Draft Rate Supported Budget includes a number of impacts as discussed below, resulting in a monthly increase of approximately \$1.54 or 1.83% for the typical residential user (based on a residential service of 1" or less and average consumption of 15 m<sup>3</sup> per month – as outlined in Operating Summary 1).

## 2023 Budget Drivers – Water Operations

WATER OPERATIONS				
	2022 Budget	2023 Budget	increase/(decrease)	
	\$	\$	\$	%
<b>EXPENDITURES</b>				
Salaries, Wages & Benefits	2,091,760	2,139,040	47,280	2.26%
Materials	2,440,610	2,523,680	83,070	3.40%
Hamilton Water Supply	3,553,200	4,058,200	505,000	14.21%
Contracted Services	602,100	629,490	27,390	4.55%
Rents & Financial Expenses	10,300	10,300	-	0.00%
OCWA Operating Services Charges	2,181,840	2,426,910	245,070	11.23%
Interfunctional Adjustments	415,110	427,630	12,520	3.02%
Long Term Debt Charges	1,276,310	1,273,960	(2,350)	-0.18%
Transfers to Reserves/Reserve Funds	1,549,590	1,690,290	140,700	9.08%
<b>Total Expenditures</b>	<b>14,120,820</b>	<b>15,179,500</b>	<b>1,058,680</b>	<b>7.50%</b>
<b>REVENUES</b>				
Bulk Service Charges	1,894,980	2,040,880	145,900	7.70%
General Fees	4,780,920	4,856,220	75,300	1.58%
Transfers from Reserve/Reserve Funds	361,970	90,000	(271,970)	75.14%
Development Charges Reserve Funds	501,930	502,050	120	0.02%
<b>Total Revenues</b>	<b>7,539,800</b>	<b>7,489,150</b>	<b>(50,650)</b>	<b>-0.67%</b>
<b>Net Revenues Required from User Rates</b>	<b>6,581,020</b>	<b>7,690,350</b>	<b>1,109,330</b>	<b>16.86%</b>
<b>1% Change</b>	<b>65,810</b>	<b>76,904</b>	<b>11,093</b>	<b>16.86%</b>

As noted above, the overall 2023 rates revenue requirement from water users has increased by \$1,109,330 or 16.86%.

Driver	Net Rate Revenues Impact	% Impact
A. Base Budget (net)	\$691,100	10.50%
B. Water Additional Capital Contribution	\$138,230	2.10%
C. Contribution from Rate Stabilization Reserve (phase-in - \$300K in 2022, \$20K in 2023)	\$280,000	4.25%
<b>Total</b>	<b>\$1,109,330</b>	<b>16.86%</b>

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 \$691,100. 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, as well as a significant 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:

2023 DRAFT WATER OPERATING BUDGET	
Summary of Impact of Base Budget Drivers on Rate Revenue Requirements	
<b>Base Budget</b>	<b>Increase/ (Decrease)</b>
<b>Revenues (excludes rate revenues):</b>	
New Credit Water Depot and Residential - based on three year average consumption	\$12,000
Fire Hydrant Fees - 3.0% increase	\$71,590
Bulk Water - based on five year average consumption	\$130,000
Miscellaneous Fees & Recoveries	\$7,730
<b>Sub-total Revenues</b>	<b>\$221,320</b>
<b>Expenditures</b>	
Salaries, Wages and Benefits	\$47,280
OCWA Operations - County share	\$238,360
Hamilton Water Contract - Consumption	\$109,100
Hamilton Water Contract - Rate Increase	\$395,900
Interfunctional Adjustments	\$12,520
Insurance	\$59,600
Property Taxation	\$8,760
Miscellaneous Supplies & Services	\$40,900
<b>Sub-total Expenditures</b>	<b>\$912,420</b>
<b>Total Base Budget Impact on Rate Revenue Requirements</b>	<b>\$691,100</b>

## B. Council Approved Initiatives

There is one Council Approved Initiative in 2023. 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, it is being proposed that \$20,000 be utilized from this stabilization reserve in order to mitigate increasing costs. It is no longer projected that this stabilization reserve will need to be utilized after 2023, though staff will continue to monitor trends and revisit the use of the Water Rate Stabilization Reserve, if required. The net impact on the reduction in use of the stabilization reserve is a increase on the rate requirements in the amount of \$280,000.

## C. Infrastructure Capital Financing Requirements

Overall, water annual capital financing related impacts on the user rates are **2.19%** in 2023. 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 2023 increased by \$138,230. 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 2023, 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.

## 2023 Budget Drivers – Wastewater Operations

WASTEWATER OPERATIONS				
	2022	2023	increase/(decrease)	
	\$	\$	\$	%
<b>Expenditures</b>				
Salaries, Wages & Benefits	1,095,260	1,125,230	29,970	2.74%
Supplies & Materials	1,363,260	1,462,640	99,380	7.29%
Services	357,420	375,240	17,820	4.99%
Rents & Financial Expenses	3,300	3,300	-	0.00%
Veolia Operating Services Charges	2,802,190	3,060,690	258,500	9.22%
Interfunctional Adjustments	321,390	331,080	9,690	3.02%
Long Term Debt Charges	2,537,030	3,103,210	566,180	22.32%
Transfers to Reserves/Reserve Funds	2,118,450	2,060,120	(58,330)	-2.75%
<b>Total Expenditures</b>	<b>10,598,300</b>	<b>11,521,510</b>	<b>923,210</b>	<b>8.71%</b>
<b>Revenues</b>				
Bulk Service Charges	1,652,340	1,691,540	39,200	2.37%
Municipal Recoveries	50,600	56,800	6,200	12.25%
General Fees	253,830	255,020	1,190	0.47%
Transfers from Reserves/Reserve Funds	1,399,460	1,999,840	600,380	42.90%
<b>Total Revenues</b>	<b>3,356,230</b>	<b>4,003,200</b>	<b>646,970</b>	<b>19.28%</b>
<b>Net Revenues Required from User Rates</b>	<b>7,242,070</b>	<b>7,518,310</b>	<b>276,240</b>	<b>3.81%</b>
<b>1% Change</b>	<b>72,421</b>	<b>75,183</b>	<b>2,762</b>	<b>3.81%</b>

As noted above, the overall 2023 rates revenue requirement from wastewater users has increased by \$276,240 or 3.81%. Detailed budget drivers are outlined below.

Driver	Net Rate Revenues Impact	% Impact
A. Base Budget (net)	\$276,240	3.81%
B. New Initiatives	\$0	0.00%
C. Wastewater Additional Capital Contribution	\$0	0.00%
<b>Total</b>	<b>\$276,240</b>	<b>3.81%</b>

### A. Base Budget Drivers (net)

As indicated above, total net base expenditures increased by approximately \$276,240. 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):	
Overstrength Revenues	84,500
Miscellaneous items	46,590
<b>Sub-total Revenues</b>	<b>131,090</b>
Expenditures:	
Salaries, Wages and Benefits	29,970
Veolia Operations	258,500
Billing and Collecting Contract	17,000
Property Taxes	42,710
Insurance	48,960
Miscellaneous items	10,190
<b>Sub-total Expenditures</b>	<b>407,330</b>
<b>Total Base Budget Impact on Rate Revenue Requirements</b>	<b>276,240</b>

## B. New Initiatives

There are no New Initiatives for 2023.

## C. Infrastructure Capital Financing Requirements

Overall, wastewater annual capital financing related impacts on the user rates were 0.0% in 2023, as the entire 1% contribution was allocated to water in 2023. 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 in to the long term financial planning through to 2032, 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, 2023.

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 2023.

### Water Miscellaneous Revenues

Miscellaneous revenues represent approximately \$7.5 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 \$2.1 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 \$1.9 million, with the impacts on the end user outlined below;
- \$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 \$71,590 or 3.0%;
- Use of the Water Rate Stabilization Reserve in the amount of \$20,000 to offset increased costs;
- the remaining miscellaneous fees total approximately \$484,420 and include:
  - property tax recoveries from industry of approximately \$95,400;
  - miscellaneous charges of approximately \$336,990.

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 2023), 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 2023 monthly fee is \$19.07 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:

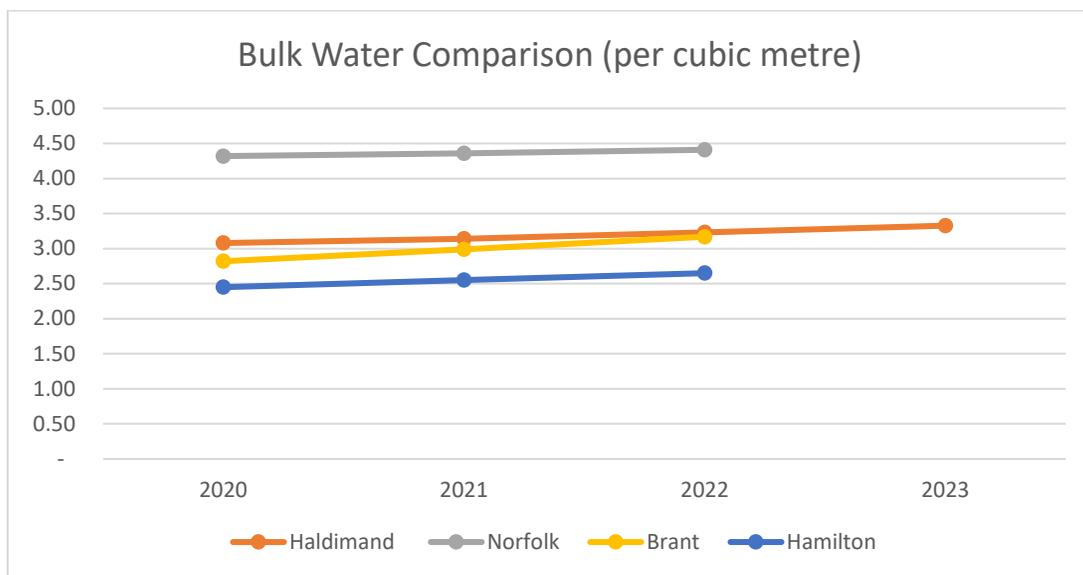
	2013	2014	2015	2016	2017	2018	2019	2020	2020	2021	2022	2023
Bulk Water Rate (per m3)	\$3.02	\$2.96	\$2.93	\$2.96	\$2.89	\$2.94	\$3.00	\$3.08	\$3.14	\$3.23	\$3.23	\$3.33

The proposed “per load” impact on a “typical end user”, based on the assumptions noted below, is as follows:

<b>Bulk Water Rate (per cubic metre)</b>	2022 RATE	2023 RATE	CHANGE	
			(\$)	(%)
<b>Controlled by Haldimand County</b>				
Bulk Water Rate (charged to hauler)	\$3.23	\$3.33	\$0.10	3.0%
Monthly Administration Fee (charged to hauler)	\$18.51	\$19.07	\$0.56	3.0%
<b>Per Load Impact on "Typical End User" (13.6 m3 or 3,000 gallon load)</b>				
Water Commodity (determined by Haldimand County)	\$42.78	\$42.78	\$0.00	0.0%
Estimated hauler delivery charge (determined by hauler)	\$85.45	\$85.45	\$0.00	0.0%
<b>Total "End User" estimated cost</b>	<b>\$128.23</b>	<b>\$128.23</b>	<b>\$0.00</b>	<b>0.0%</b>

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

A comparison of the bulk water rates from 2020-2024 across select municipalities is included below, for reference purposes. Please note: at the time of printing, the 2023 rates for other municipalities were not yet available.



### **Wastewater Miscellaneous Revenues**

Miscellaneous revenues represent approximately \$4.0 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 \$1.5 million relates to the leachate treatment cost recovery. The 2023 budget reflects no change in this revenue source as a Leachate Best Practices Study is currently being completed, and the study findings will be considered during preparation of the 2024 budget. 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 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 \$215,500;
- \$1,929,840 relates to development charges funding to offset related development related debt payments;
- the remaining miscellaneous fees total approximately \$382,320 and include:
  - “overstrength” charges established under the Sewer Use By-law of \$169,000;
  - sludge storage charges to Norfolk County of approximately \$56,300
  - miscellaneous charges of approximately \$157,020;

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 \$19.90 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 2023 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 2023 is as follows:

Holding/Septic/Portable Toilet Tank Treatment Charge (per cubic metre)	2022	2023	Change	
			(\$)	(%)
<b>Controlled by Haldimand County:</b>				
Proposed Rate (charged to hauler)	\$15.15	\$15.60	\$0.45	3.0%
Monthly Administration Fee (charged to hauler)	\$18.15	\$18.69	\$0.54	3.0%
<b>Per Load Impact on "Typical End User" (9.1 m3 or 2,000 gallon load)</b>				
Treatment Cost (determined by Haldimand)	\$137.71	\$141.85	\$4.13	3.0%
Estimated hauler delivery charge (determined by Hauler)	\$91.57	\$91.57	\$0.00	0.0%
<b>Total "End User" cost</b>	<b>\$229.28</b>	<b>\$233.42</b>	<b>\$4.13</b>	<b>1.8%</b>

*\*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 2023, the water users are required to generate approximately \$7.7 million, which represents an increase in water rate revenue requirements of 16.86%. 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 \$7.5 million in 2023, representing an increased requirement of 3.81%, 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 the known development coming on in 2023. 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 2023 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. 2023 DRAFT RATE SUPPORTED CAPITAL BUDGET AND FORECAST TO 2032

### 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 2023 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 \$206 million for the period 2023 to 2032. 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 2023 Capital Budget and Forecast).

Gross Expenditures	2022 Budget Average Annual Gross Expenditures	2023 Draft Budget Average Annual Gross Expenditures
Water System	\$12.8 Million	\$11.9 Million
Wastewater System	\$9.9 Million	\$8.7 Million
<b>Total</b>	<b>\$22.7 Million</b>	<b>\$20.6 Million</b>

### Water Gross Capital Costs:

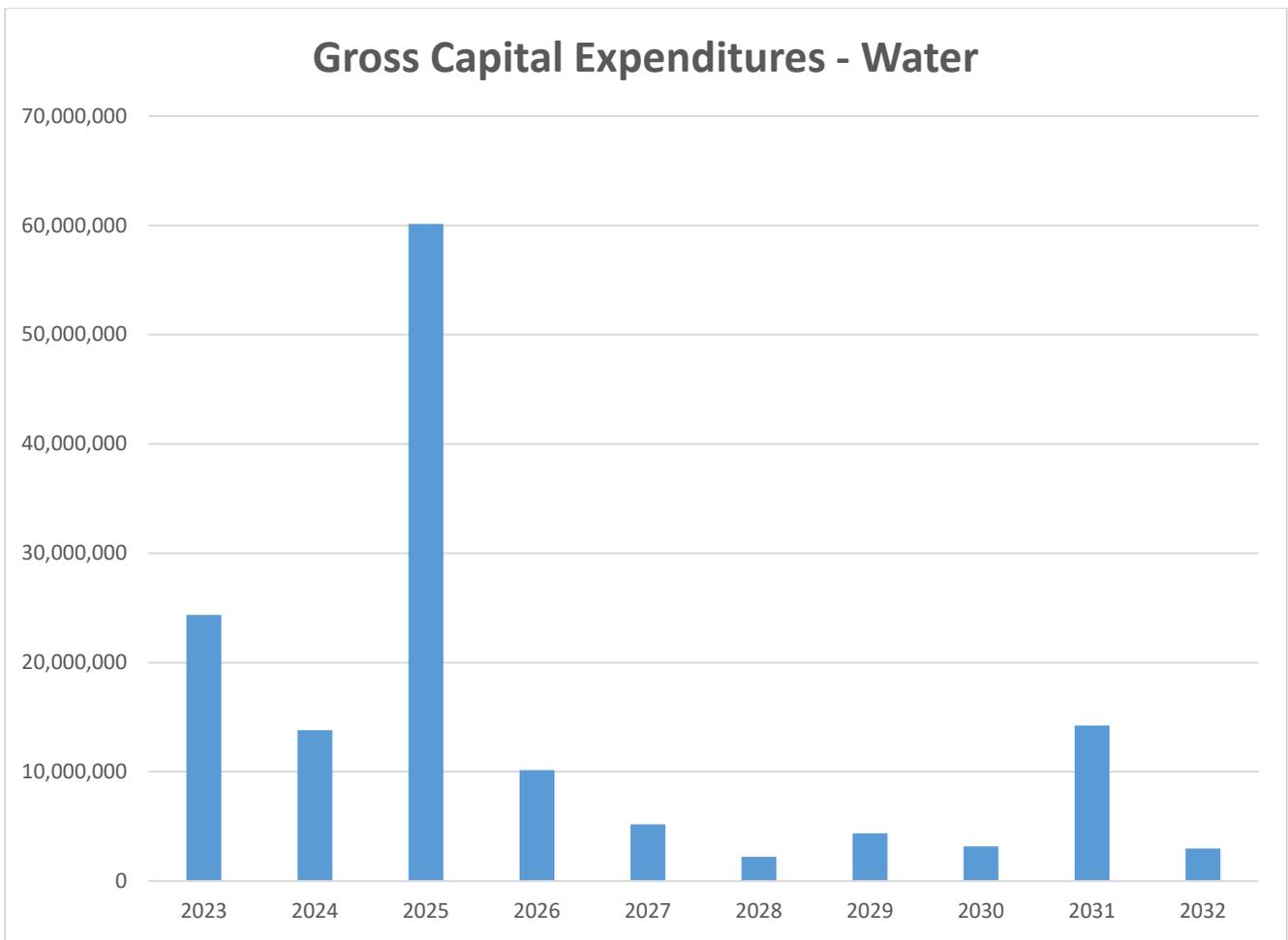
A summary of the planned gross capital costs for Water services is presented in the chart below. One major project in the 2023 Capital forecast is the inclusion of construction of infrastructure in order to supply water to Norfolk. The forecasted capital expenditures related to supplying water to Norfolk total \$67.5 million (including some aspects initiated in 2022) and include the following projects (all 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;
- Nanticoke Transmission Main Services Extension – Lake Erie Industrial Park - \$3.5 million in construction identified in 2022;
- Nanticoke Transmission Main Service Extension – Townsend \$4 million in construction identified in 2022.

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. For more details on this change, please refer to the Project Brief in the Council agenda.

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. There is currently \$15,000 allocated to refurbishing this receiving station included in year 2023. The reserve funds being used to fund this project (CRRF-Water) does not contain any contributions related to this specific infrastructure. At this time, staff are proposing that this project proceed as budgeted, and that any further capital spending related to this facility be considered during the next rate study, currently scheduled for 2024.

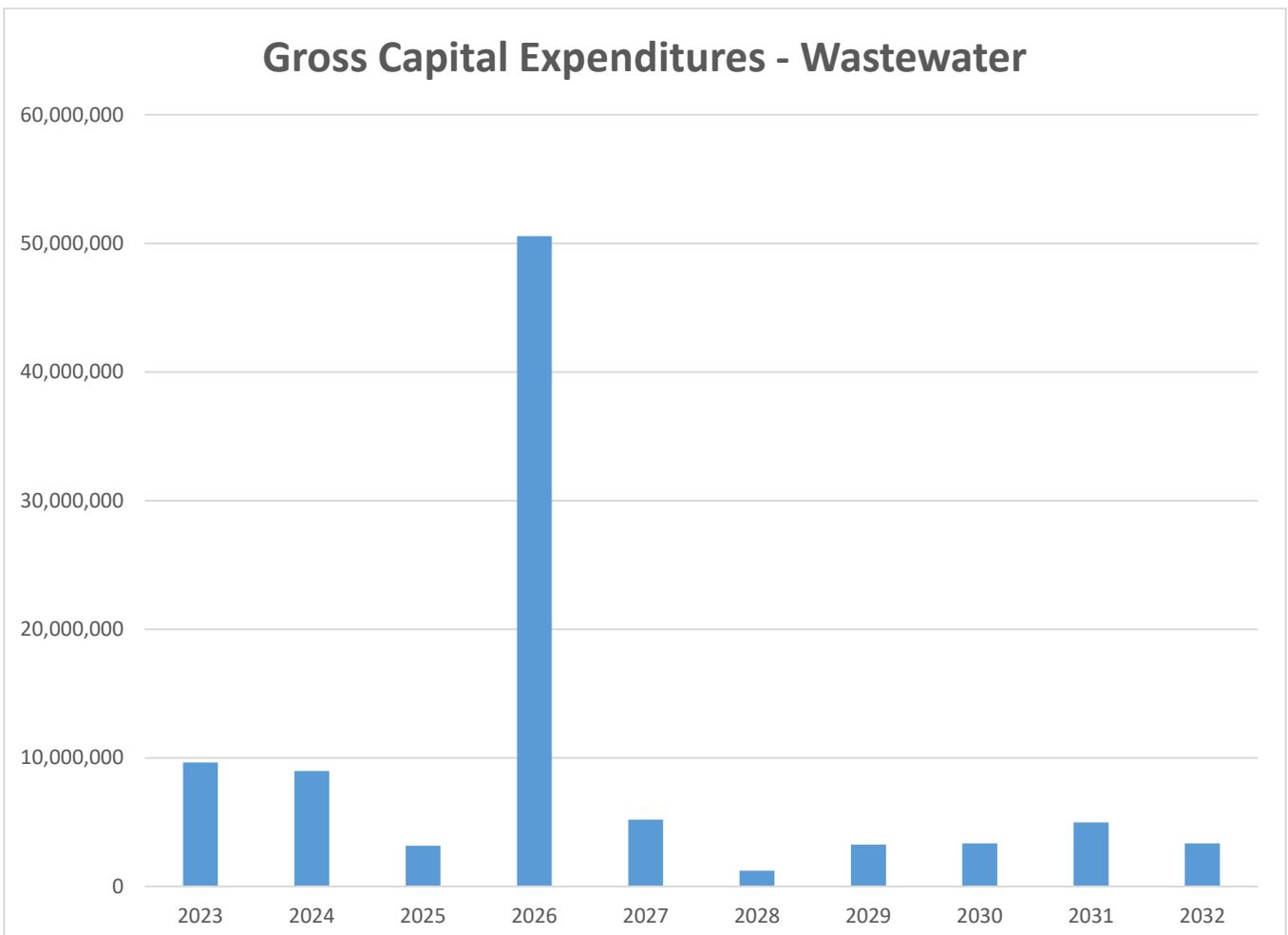
As it is more difficult to predict long term needs, fewer specifically identified projects are scheduled in the final 6 years of the forecast. More detailed inventory and continued studies will better identify the timing of these related projects.



### Wastewater Gross Capital Costs

A summary of the planned gross capital costs for Wastewater services is presented in the chart below. Although there are limited overall changes, there are 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.

As can be seen in the follow chart, 2026 has an exceptional increase in capital costs. This relates to the expansion of the wastewater treatment plan in Caledonia (\$45 million) and is funded from Development Charges Debt.

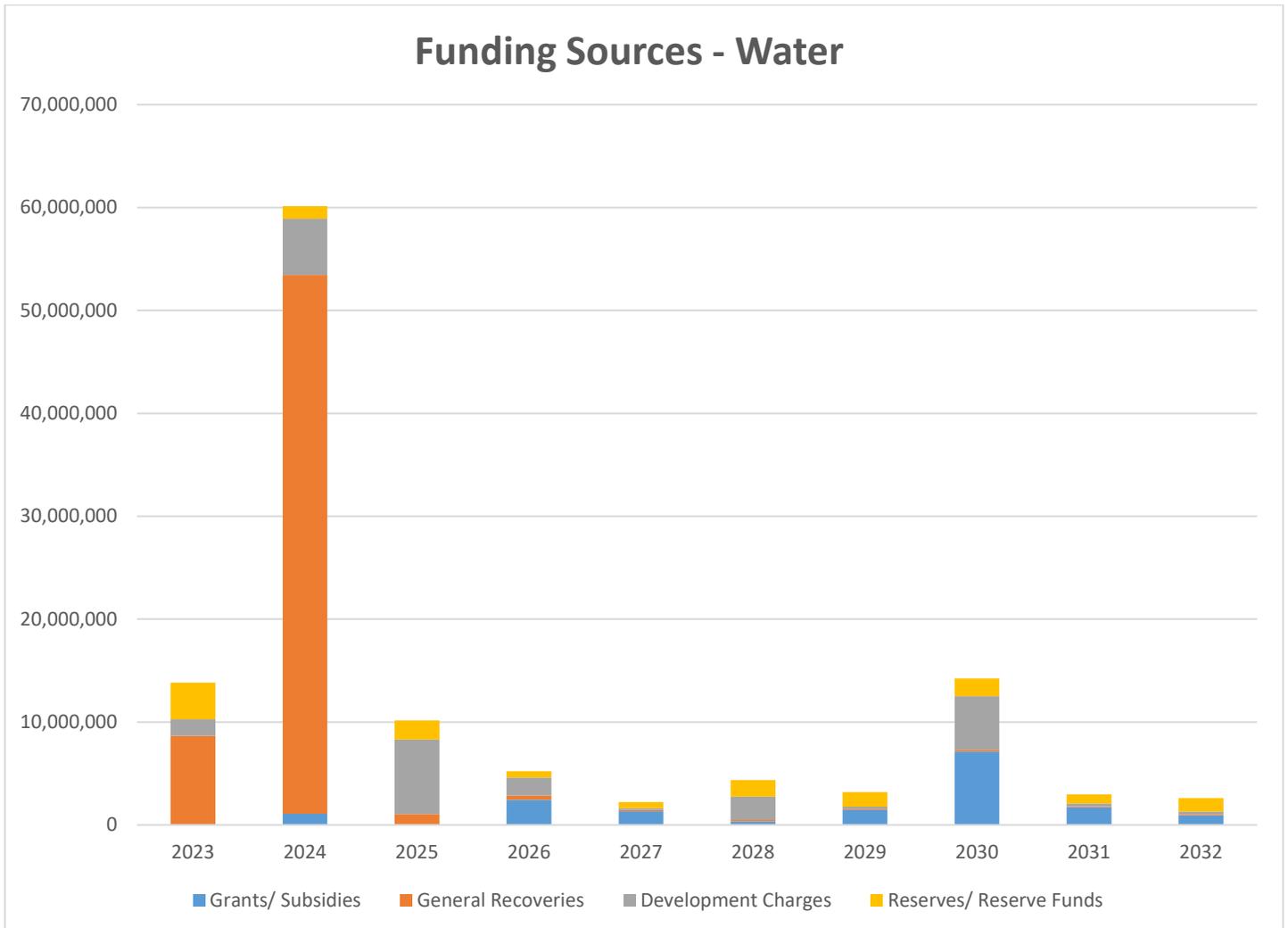


## Financing Methodology

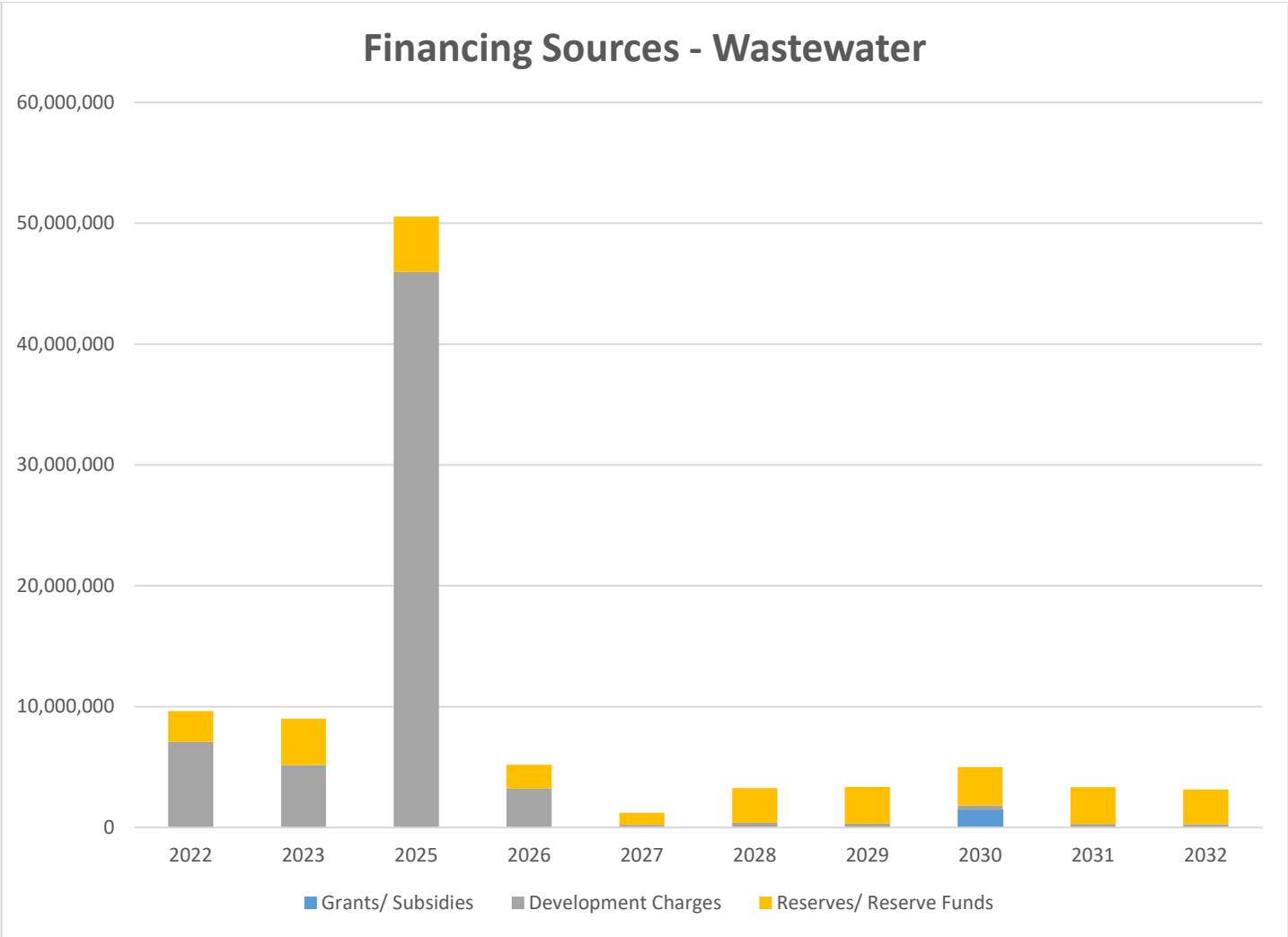
There are limited financing sources available to the County to fund the necessary infrastructure replacements. As the water and wastewater systems are 100% self-funded from the users, there are limited customers to spread the burden of expensive project expenditures across (approximately 10,815 users 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 2023 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 (53%) – 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 Gas Tax Reserve Fund while preparing the 2023 Capital Forecast. As a result, all Rate Supported Federal Gas Tax Funding in 2023 is being allocated to Water projects. Moving forward, staff will continue to monitor the use of this grant, and may begin shifting the use of the funds, depending on the capital needs. Currently the split between the Rate Supported Capital Forecast and the Tax Supported Capital Forecast is 50/50, but that can be expected to change as the capital forecast needs are better understood through the further development of the County. 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 much of funding for replacement wastewater capital projects is from the wastewater capital replacement reserve fund (in aggregate, approximately 33% of total funding over the forecasted period). Use of Development Charges for wastewater financing is substantial and represents approximately 65% of total projects financing. 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).

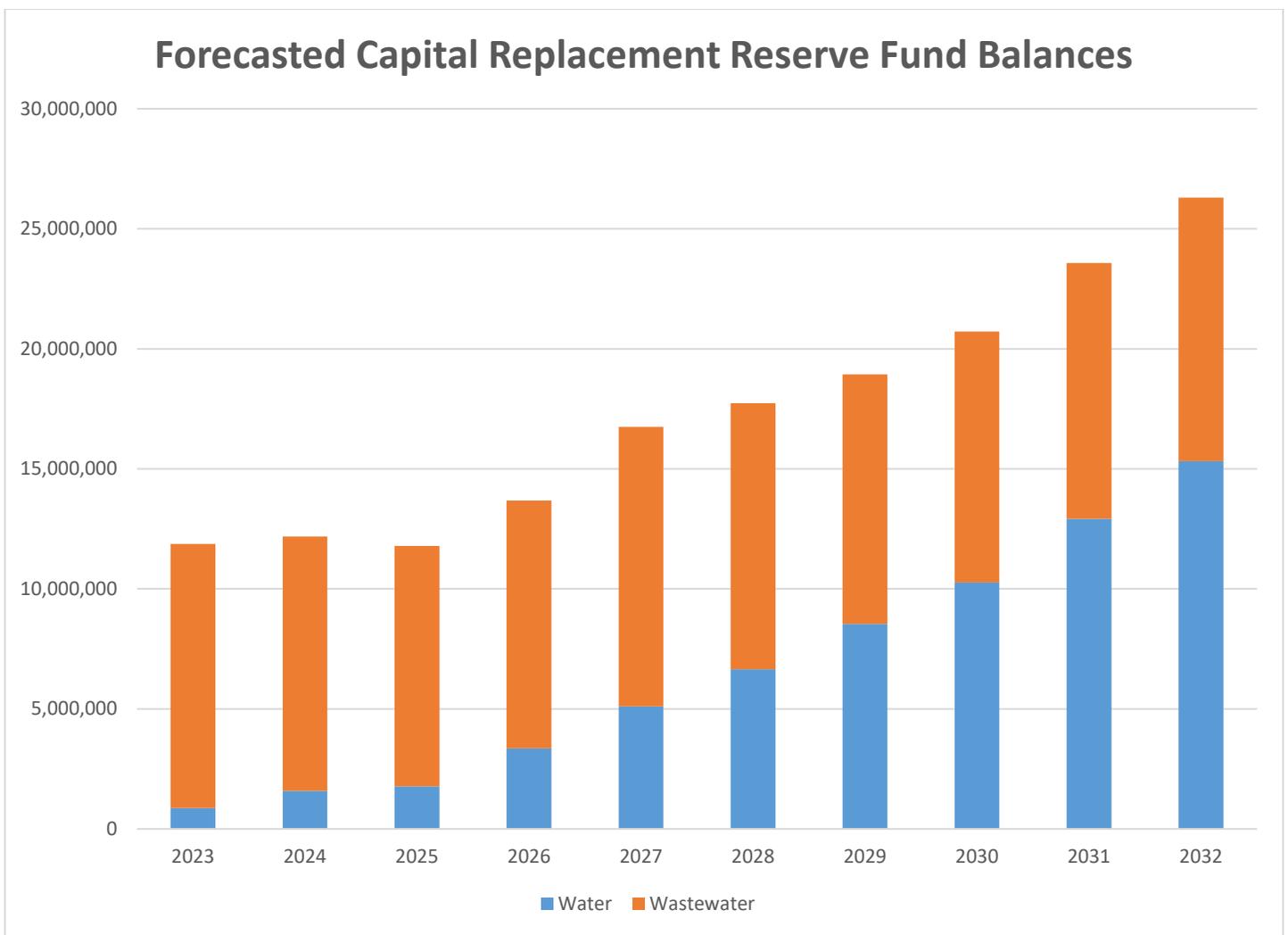


**Grant Funding**

As indicated above, the only predictable grant funding is the County’s annual Federal Gas Tax Allocation (our current allocation is approximately \$3.0 million per year). As outlined in the capital financing principles, 50% of the annual allocation is applied to water/wastewater capital needs, though this allocation is being re-evaluated in conjunction with asset management plans and funding needs. As there is currently a funding deficit in water, more Gas Tax funds have been allocated to the water system. Currently there is no other grant funding included in the rate supported capital forecast. If an application to the Green fund is put forth and approved, this will impact the County’s long term financial plan, as any related project has not been budgeted for, and any funding that the County will be responsible for has not currently been captured in the forecast as presented.

**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 2023 Draft Rate Supported Capital Budget and Forecast to 2032. 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 approved by Council, 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 2022, it does rebound in subsequent years. 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 Federal Gas Tax, 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 2023 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).

It should be noted that a new project has been identified in 2023 as a result of new development in Hagersville. The Highway 6 Transmission main Twinning has been added to the forecast in 2023, funded from Development Charges Debt. Please refer to the Project Brief in the Council agenda for further details on this project.

**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 2022 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 \$80 million of new debt issuances required to fund specifically identified projects (approximately \$28 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 (as is currently planned for 2023). 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 2023 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.

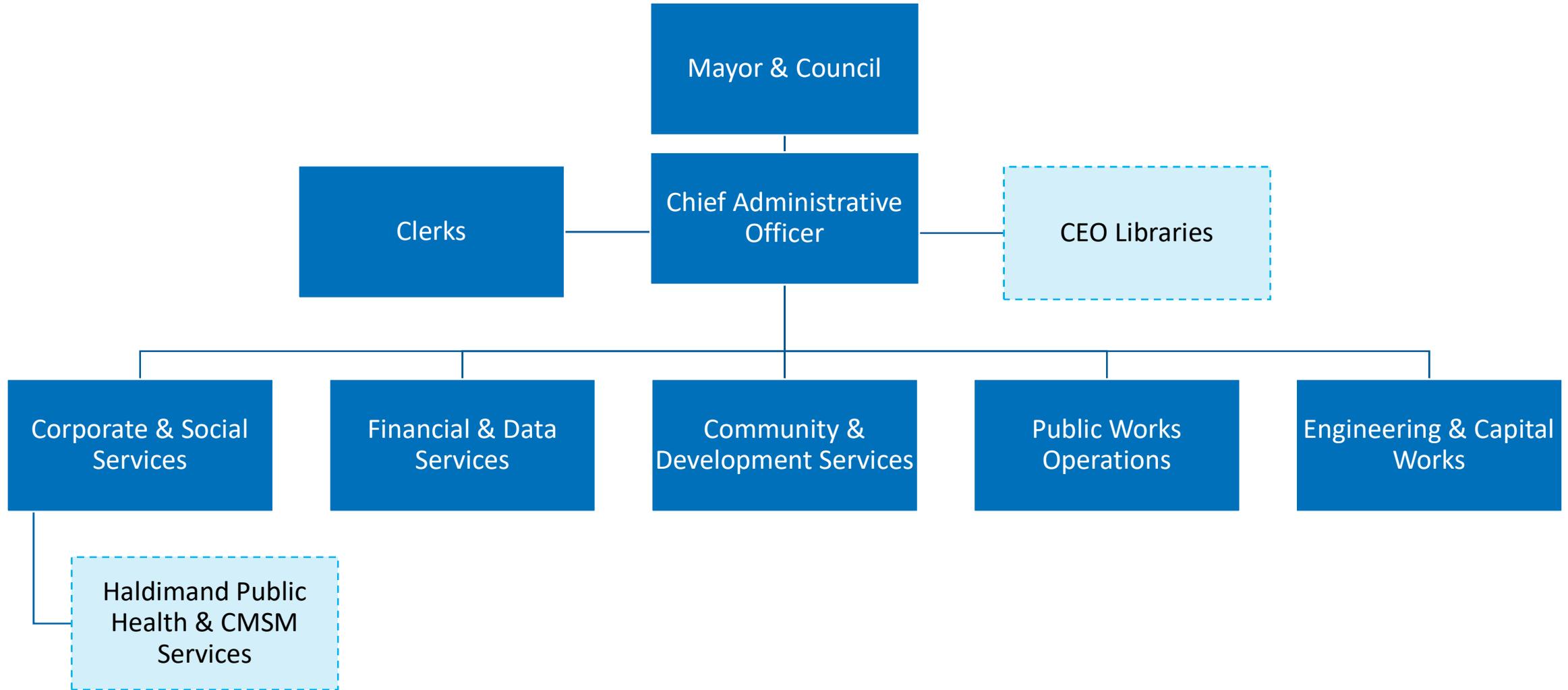
Continual revisions to the operating budget process will help the County better allocate resources to manage its operations and develop a long range financial plan with predictable water and wastewater rates.

It is, therefore, recommended that Council adopt the 2023 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

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

## Governance





## Council & Senior Management

### Haldimand County Council 2022-2026

#### Mayor

#### Shelley Ann Bentley

Ward 1 Stewart Patterson

Ward 4 Natalie Stam

Ward 2 John Metcalfe

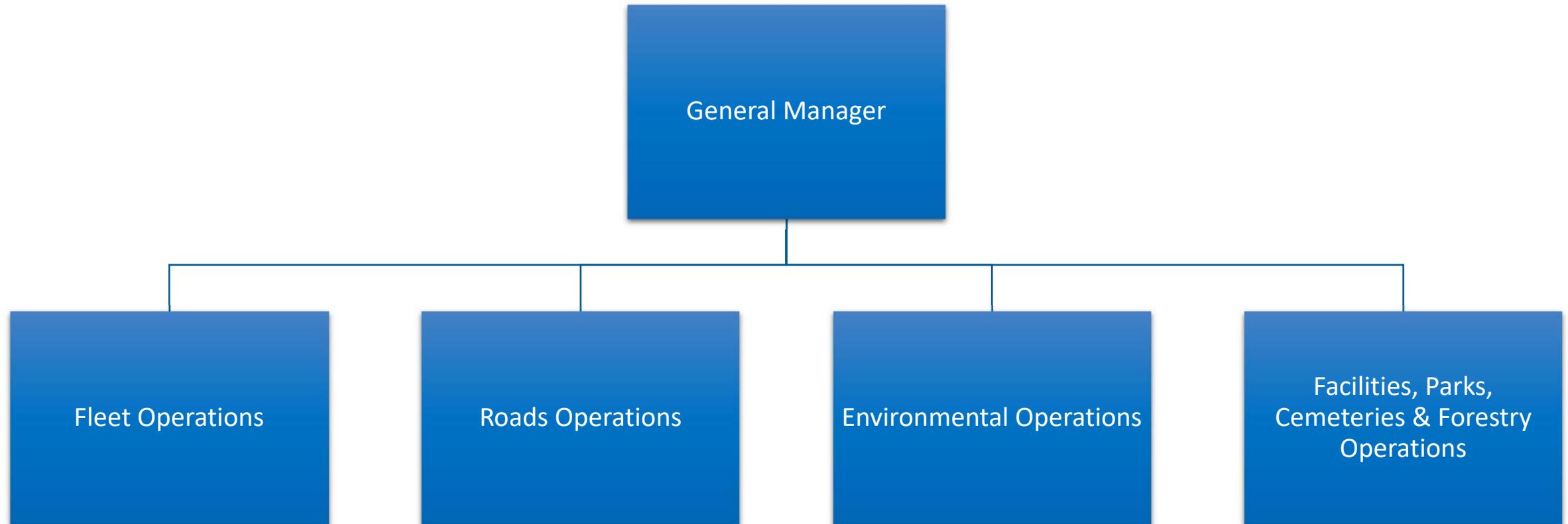
Ward 5 Rob Shirton

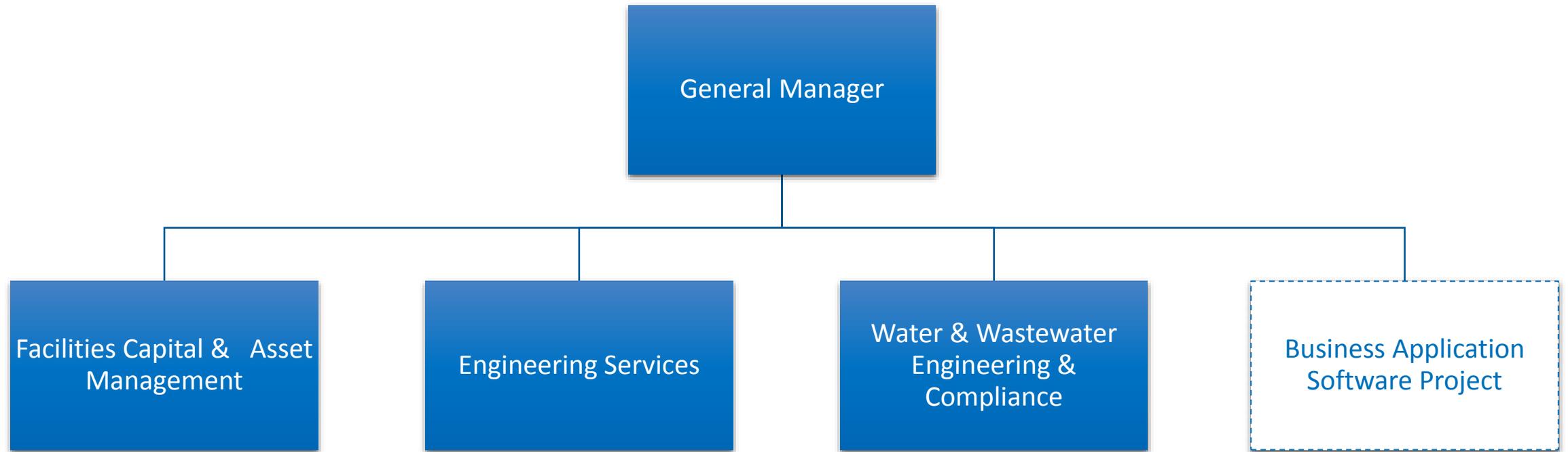
Ward 3 Dan Lawrence

Ward 6 Patrick O’Neill

### Haldimand County Senior Management

Craig Manley	Chief Administrative Officer	Mike Evers	General Manager, Community & Development Services
Cathy Case	General Manager, Corporate & Social Services	Phil Mete	General Manager, Public Works Operations
Mark Merritt	General Manager, Financial & Data Services	Tyson Haedrich	General Manager, Engineering & Capital Works
Megan Jamieson	Director, Human Resources	David Pressey	Director, Roads Operations







**Haldimand**  
County

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



# Haldimand County 2023 Draft Rate Supported Operating Budget

## Water and Wastewater Summary

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### 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:

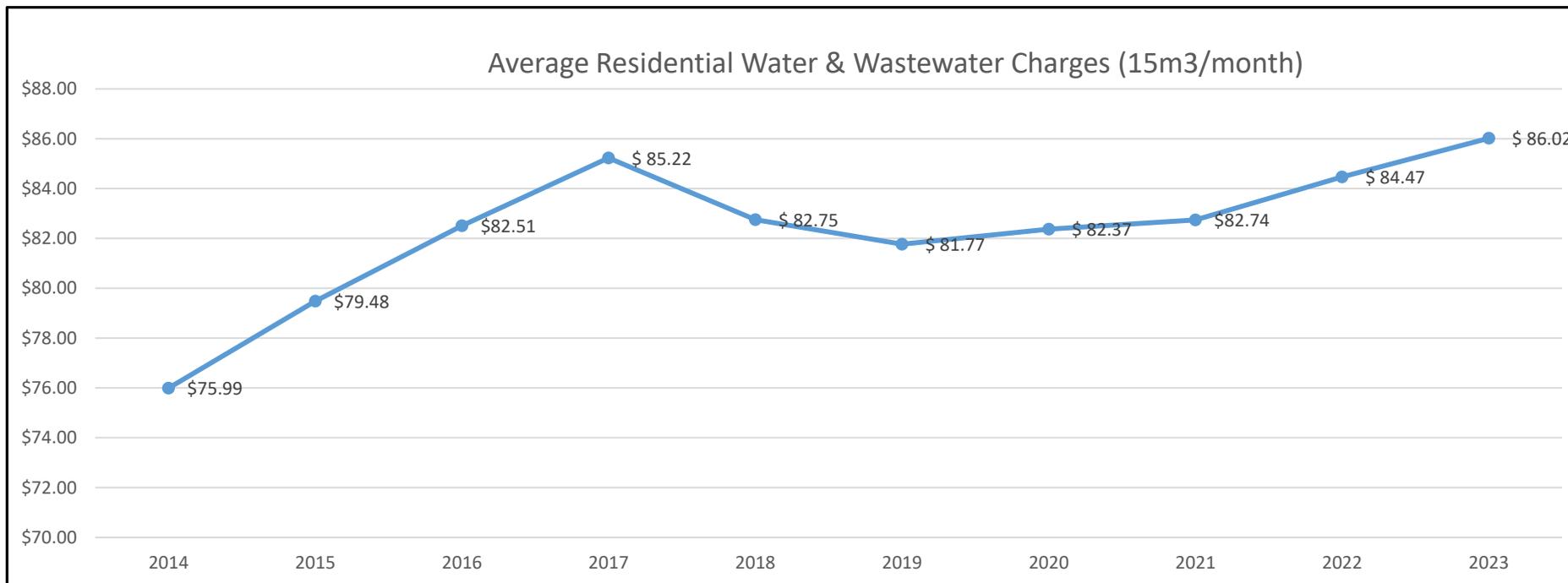
Ensure legislative compliance for all aspects of the operation of the water and wastewater facilities. Continued communication and involvement with Industries to ensure compliance with the Sewer use By-Law. Ongoing review and update of the Drinking Water Quality Management System for all water facilities 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, wastewater and storm water management 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)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	\$ Change	% Change
Water Basic	\$21.85	\$21.86	\$22.08	\$21.47	\$ 21.78	\$ 21.10	\$ 19.80	\$ 20.24	\$20.38	\$ 22.35	\$ 24.72	\$ 2.37	10.58%
Water Consumption	\$16.41	\$15.33	\$16.01	\$15.82	\$ 15.49	\$ 15.45	\$ 14.85	\$ 14.61	\$14.62	\$ 15.21	\$ 16.40	\$ 1.19	7.85%
<b>Total Water Charges</b>	<b>\$38.26</b>	<b>\$37.19</b>	<b>\$38.09</b>	<b>\$37.29</b>	<b>\$ 37.27</b>	<b>\$ 36.55</b>	<b>\$ 34.65</b>	<b>\$ 34.85</b>	<b>\$35.00</b>	<b>\$ 37.56</b>	<b>\$ 41.12</b>	<b>\$ 3.56</b>	<b>9.48%</b>
Wastewater Basic	\$20.51	\$20.99	\$22.54	\$23.73	\$ 25.45	\$ 24.14	\$ 24.03	\$ 24.86	\$24.60	\$ 24.71	\$ 23.98	\$ (0.73)	-2.94%
Wastewater Consumption	\$17.36	\$17.82	\$18.85	\$21.49	\$ 22.50	\$ 22.05	\$ 23.09	\$ 22.66	\$23.14	\$ 22.20	\$ 20.91	\$ (1.29)	-5.81%
<b>Total Wastewater Charges</b>	<b>\$37.87</b>	<b>\$38.81</b>	<b>\$41.39</b>	<b>\$45.22</b>	<b>\$ 47.95</b>	<b>\$ 46.20</b>	<b>\$ 47.12</b>	<b>\$ 47.52</b>	<b>\$47.74</b>	<b>\$ 46.91</b>	<b>\$ 44.90</b>	<b>\$ (2.02)</b>	<b>-4.30%</b>
<b>Total Water &amp; Wastewater Charges</b>	<b>\$76.14</b>	<b>\$75.99</b>	<b>\$79.48</b>	<b>\$82.51</b>	<b>\$ 85.22</b>	<b>\$ 82.75</b>	<b>\$ 81.77</b>	<b>\$ 82.37</b>	<b>\$82.74</b>	<b>\$ 84.47</b>	<b>\$ 86.02</b>	<b>\$ 1.54</b>	<b>1.83%</b>



# Haldimand County 2023 Rate Supported Operating Budget Summary

## Corporate Summary By Type

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Expenses:</b>						
Salaries, Wages & Benefits	3,063,080	3,187,020	123,940	3,264,270	77,250	2.42%
Long Term Debt Charges	3,813,340	3,813,340	-	4,377,170	563,830	14.79%
Materials	4,683,957	4,597,220	(86,737)	5,284,670	687,450	14.95%
Utilities	2,648,950	2,759,850	110,900	2,759,850	-	0.00%
Contracted Services	6,001,255	5,942,640	(58,615)	6,489,150	546,510	9.20%
Rents and Financial Expenses	15,450	14,500	(950)	16,780	2,280	15.72%
Transfers to Reserves/Reserve Funds	3,668,040	3,668,040	-	3,750,410	82,370	2.25%
Interfunctional Adjustments	736,510	736,510	-	758,710	22,200	3.01%
<b>Total Expenses:</b>	<b>24,630,582</b>	<b>24,719,120</b>	<b>88,538</b>	<b>26,701,010</b>	<b>1,981,890</b>	<b>8.02%</b>
<b>Revenues:</b>						
General Recoveries	(22,718,316)	(22,455,760)	262,556	(24,109,120)	(1,653,360)	7.36%
Development Charges Reserve Funds	(1,839,420)	(1,839,420)	-	(2,431,890)	(592,470)	32.21%
Transfers from Reserves/Reserve Funds	(201,425)	(423,940)	(222,515)	(160,000)	263,940	-62.26%
<b>Total Revenues:</b>	<b>(24,759,161)</b>	<b>(24,719,120)</b>	<b>40,041</b>	<b>(26,701,010)</b>	<b>(1,981,890)</b>	<b>8.02%</b>
<b>Projected Surplus/(Deficit)</b>	<b>(128,579)</b>	<b>-</b>	<b>128,579</b>	<b>-</b>	<b>-</b>	<b>0.00%</b>



# Haldimand County 2023 Rate Supported Operating Budget Summary

## Water

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Expenses:</b>						
Salaries, Wages & Benefits	2,029,790	2,091,760	61,970	2,139,040	47,280	2.26%
Long Term Debt Charges	1,276,310	1,276,310	-	1,273,960	(2,350)	-0.18%
Materials	4,263,670	4,185,560	(78,110)	4,773,630	588,070	14.05%
Contracted Services	2,788,105	2,783,130	(4,975)	3,053,320	270,190	9.71%
Rents and Financial Expenses	12,990	11,100	(1,890)	13,380	2,280	20.54%
Transfers to Reserves/Reserve Funds	1,549,590	1,549,590	-	1,690,290	140,700	9.08%
Interfunctional Adjustments	415,120	415,120	-	427,630	12,510	3.01%
Utilities	1,697,350	1,808,250	110,900	1,808,250	-	0.00%
<b>Total Expenses:</b>	<b>14,032,925</b>	<b>14,120,820</b>	<b>87,895</b>	<b>15,179,500</b>	<b>1,058,680</b>	<b>7.50%</b>
<b>Revenues:</b>						
General Recoveries	(13,329,570)	(13,256,920)	72,650	(14,587,450)	(1,330,530)	10.04%
Development Charges Reserve Funds	(501,930)	(501,930)	-	(502,050)	(120)	0.02%
Transfers from Reserves/Reserve Funds	(201,425)	(361,970)	(160,545)	(90,000)	271,970	-75.14%
<b>Total Revenues:</b>	<b>(14,032,925)</b>	<b>(14,120,820)</b>	<b>(87,895)</b>	<b>(15,179,500)</b>	<b>(1,058,680)</b>	<b>7.50%</b>
<b>Projected Surplus/(Deficit)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.00%</b>



# Haldimand County 2023 Rate Supported Operating Budget

## Water Administration

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Expenses:</b>						
Salaries, Wages & Benefits	939,420	1,001,390	61,970	1,020,220	18,830	1.88%
Long Term Debt Charges	1,276,310	1,276,310	-	1,273,960	(2,350)	-0.18%
Materials	276,760	286,070	9,310	352,380	66,310	23.18%
Utilities	9,000	9,000	-	9,000	-	0.00%
Contracted Services	287,485	278,590	(8,895)	295,590	17,000	6.10%
Rents and Financial Expenses	2,000	3,300	1,300	3,300	-	0.00%
Transfers to Reserves/Reserve Funds	1,549,590	1,549,590	-	1,690,290	140,700	9.08%
Interfunctional Adjustments	259,150	259,150	-	266,960	7,810	3.01%
<b>Total Expenses:</b>	<b>4,599,715</b>	<b>4,663,400</b>	<b>63,685</b>	<b>4,911,700</b>	<b>248,300</b>	<b>5.32%</b>
<b>Revenues:</b>						
General Recoveries	(26,440)	(24,840)	1,600	(24,840)	-	0.00%
Transfers from Reserves/Reserve Funds	(201,425)	(361,970)	(160,545)	(90,000)	271,970	-75.14%
<b>Total Revenues:</b>	<b>(227,865)</b>	<b>(386,810)</b>	<b>(158,945)</b>	<b>(114,840)</b>	<b>271,970</b>	<b>-70.31%</b>
<b>Revenue Required from User Rates</b>	<b>4,371,850</b>	<b>4,276,590</b>	<b>(95,260)</b>	<b>4,796,860</b>	<b>520,270</b>	<b>12.17%</b>



# Haldimand County 2023 Rate Supported Operating Budget

## Water Treatment General

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Expenses:</b>						
Materials	156,640	153,640	(3,000)	161,050	7,410	4.82%
Utilities	1,559,280	1,685,560	126,280	1,685,560	-	0.00%
Contracted Services	2,218,520	2,222,020	3,500	2,468,210	246,190	11.08%
Interfunctional Adjustments	70	70	-	70	-	0.00%
<b>Total Expenses:</b>	<b>3,934,510</b>	<b>4,061,290</b>	<b>126,780</b>	<b>4,314,890</b>	<b>253,600</b>	<b>6.24%</b>
<b>Revenues:</b>						
General Recoveries	(2,144,350)	(2,144,350)	-	(2,141,960)	2,390	-0.11%
<b>Total Revenues:</b>	<b>(2,144,350)</b>	<b>(2,144,350)</b>	<b>-</b>	<b>(2,141,960)</b>	<b>2,390</b>	<b>-0.11%</b>
<b>Revenue Required from User Rates</b>	<b>1,790,160</b>	<b>1,916,940</b>	<b>126,780</b>	<b>2,172,930</b>	<b>255,990</b>	<b>13.35%</b>



# Haldimand County 2023 Rate Supported Operating Budget

## Water Distribution General

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Expenses:</b>						
Salaries, Wages & Benefits	1,090,370	1,090,370	-	1,118,820	28,450	2.61%
Materials	3,830,270	3,745,850	(84,420)	4,260,200	514,350	13.73%
Utilities	129,070	113,690	(15,380)	113,690	-	0.00%
Contracted Services	282,100	282,520	420	289,520	7,000	2.48%
Rents and Financial Expenses	10,990	7,800	(3,190)	10,080	2,280	29.23%
Interfunctional Adjustments	155,900	155,900	-	160,600	4,700	3.01%
<b>Total Expenses:</b>	<b>5,498,700</b>	<b>5,396,130</b>	<b>(102,570)</b>	<b>5,952,910</b>	<b>556,780</b>	<b>10.32%</b>
<b>Revenue Required from User Rates</b>	<b>5,498,700</b>	<b>5,396,130</b>	<b>(102,570)</b>	<b>5,952,910</b>	<b>556,780</b>	<b>10.32%</b>



# Haldimand County 2023 Rate Supported Operating Budget

## Water Fees and Charges

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Revenues:</b>						
General Recoveries	(4,529,660)	(4,506,710)	22,950	(4,730,300)	(223,590)	4.96%
Development Charges Reserve Funds	(501,930)	(501,930)	-	(502,050)	(120)	0.02%
<b>Total Revenues:</b>	<b>(5,031,590)</b>	<b>(5,008,640)</b>	<b>22,950</b>	<b>(5,232,350)</b>	<b>(223,710)</b>	<b>4.47%</b>
<b>Revenue Required from User Rates</b>	<b>(5,031,590)</b>	<b>(5,008,640)</b>	<b>22,950</b>	<b>(5,232,350)</b>	<b>(223,710)</b>	<b>4.47%</b>



# Haldimand County 2023 Rate Supported Operating Budget

## Water User Rates Revenues

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Revenues:</b>						
General Recoveries	(6,629,120)	(6,581,020)	48,100	(7,690,350)	(1,109,330)	16.86%
<b>Total Revenues:</b>	<b>(6,629,120)</b>	<b>(6,581,020)</b>	<b>48,100</b>	<b>(7,690,350)</b>	<b>(1,109,330)</b>	<b>16.86%</b>
<b>Revenue Required from User Rates</b>	<b>(6,629,120)</b>	<b>(6,581,020)</b>	<b>48,100</b>	<b>(7,690,350)</b>	<b>(1,109,330)</b>	<b>16.86%</b>



# Haldimand County 2023 Rate Supported Operating Budget Summary

## Wastewater

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Expenses:</b>						
Salaries, Wages & Benefits	1,033,290	1,095,260	61,970	1,125,230	29,970	2.74%
Long Term Debt Charges	2,537,030	2,537,030	-	3,103,210	566,180	22.32%
Materials	420,287	411,660	(8,627)	511,040	99,380	24.14%
Contracted Services	3,213,150	3,159,510	(53,640)	3,435,830	276,320	8.75%
Rents and Financial Expenses	2,460	3,400	940	3,400	-	0.00%
Transfers to Reserves/Reserve Funds	2,118,450	2,118,450	-	2,060,120	(58,330)	-2.75%
Interfunctional Adjustments	321,390	321,390	-	331,080	9,690	3.02%
Utilities	951,600	951,600	-	951,600	-	0.00%
<b>Total Expenses:</b>	<b>10,597,657</b>	<b>10,598,300</b>	<b>643</b>	<b>11,521,510</b>	<b>923,210</b>	<b>8.71%</b>
<b>Revenues:</b>						
General Recoveries	(9,388,746)	(9,198,840)	189,906	(9,521,670)	(322,830)	3.51%
Development Charges Reserve Funds	(1,337,490)	(1,337,490)	-	(1,929,840)	(592,350)	44.29%
Transfers from Reserves/Reserve Funds	-	(61,970)	(61,970)	(70,000)	(8,030)	12.96%
<b>Total Revenues:</b>	<b>(10,726,236)</b>	<b>(10,598,300)</b>	<b>127,936</b>	<b>(11,521,510)</b>	<b>(923,210)</b>	<b>8.71%</b>
<b>Projected Surplus/(Deficit)</b>	<b>(128,579)</b>	<b>-</b>	<b>128,579</b>	<b>-</b>	<b>-</b>	<b>0.00%</b>



# Haldimand County 2023 Rate Supported Operating Budget

## Wastewater Administration

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Expenses:</b>						
Salaries, Wages & Benefits	768,620	830,590	61,970	853,630	23,040	2.77%
Long Term Debt Charges	2,537,030	2,537,030	-	3,103,210	566,180	22.32%
Materials	176,720	199,740	23,020	255,410	55,670	27.87%
Utilities	9,000	9,000	-	9,000	-	0.00%
Contracted Services	276,700	280,360	3,660	297,360	17,000	6.06%
Rents and Financial Expenses	2,360	3,300	940	3,300	-	0.00%
Transfers to Reserves/Reserve Funds	2,118,450	2,118,450	-	2,060,120	(58,330)	-2.75%
Interfunctional Adjustments	228,290	228,290	-	235,180	6,890	3.02%
<b>Total Expenses:</b>	<b>6,117,170</b>	<b>6,206,760</b>	<b>89,590</b>	<b>6,817,210</b>	<b>610,450</b>	<b>9.84%</b>
<b>Revenues:</b>						
General Recoveries	(35,840)	(24,600)	11,240	(25,400)	(800)	3.25%
Transfers from Reserves/Reserve Funds	-	(61,970)	(61,970)	(70,000)	(8,030)	12.96%
<b>Total Revenues:</b>	<b>(35,840)</b>	<b>(86,570)</b>	<b>(50,730)</b>	<b>(95,400)</b>	<b>(8,830)</b>	<b>10.20%</b>
<b>Revenue Required from User Rates</b>	<b>6,081,330</b>	<b>6,120,190</b>	<b>38,860</b>	<b>6,721,810</b>	<b>601,620</b>	<b>9.83%</b>



# Haldimand County 2023 Rate Supported Operating Budget

## Wastewater Treatment General

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Expenses:</b>						
Materials	183,340	178,690	(4,650)	212,870	34,180	19.13%
Utilities	868,440	868,440	-	868,440	-	0.00%
Contracted Services	2,890,710	2,833,410	(57,300)	3,092,730	259,320	9.15%
<b>Total Expenses:</b>	<b>3,942,490</b>	<b>3,880,540</b>	<b>(61,950)</b>	<b>4,174,040</b>	<b>293,500</b>	<b>7.56%</b>
<b>Revenue Required from User Rates</b>	<b>3,942,490</b>	<b>3,880,540</b>	<b>(61,950)</b>	<b>4,174,040</b>	<b>293,500</b>	<b>7.56%</b>



# Haldimand County 2023 Rate Supported Operating Budget

## Wastewater Collection General

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Expenses:</b>						
Salaries, Wages & Benefits	264,670	264,670	-	271,600	6,930	2.62%
Materials	60,227	33,230	(26,997)	42,760	9,530	28.68%
Utilities	74,160	74,160	-	74,160	-	0.00%
Contracted Services	45,740	45,740	-	45,740	-	0.00%
Rents and Financial Expenses	100	100	-	100	-	0.00%
Interfunctional Adjustments	93,100	93,100	-	95,900	2,800	3.01%
<b>Total Expenses:</b>	<b>537,997</b>	<b>511,000</b>	<b>(26,997)</b>	<b>530,260</b>	<b>19,260</b>	<b>3.77%</b>
<b>Revenue Required from User Rates</b>	<b>537,997</b>	<b>511,000</b>	<b>(26,997)</b>	<b>530,260</b>	<b>19,260</b>	<b>3.77%</b>



# Haldimand County 2023 Rate Supported Operating Budget

## Wastewater Fees and Charges

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Revenues:</b>						
General Recoveries	(1,977,800)	(1,932,170)	45,630	(1,977,960)	(45,790)	2.37%
Development Charges Reserve Funds	(1,337,490)	(1,337,490)	-	(1,929,840)	(592,350)	44.29%
<b>Total Revenues:</b>	<b>(3,315,290)</b>	<b>(3,269,660)</b>	<b>45,630</b>	<b>(3,907,800)</b>	<b>(638,140)</b>	<b>19.52%</b>
<b>Revenue Required from User Rates</b>	<b>(3,315,290)</b>	<b>(3,269,660)</b>	<b>45,630</b>	<b>(3,907,800)</b>	<b>(638,140)</b>	<b>19.52%</b>



# Haldimand County 2023 Rate Supported Operating Budget

## Wastewater User Rates Revenues

	2022 Current Forecast	2022 Revised Budget	2022 Surplus/ (Deficit)	2023 Proposed Budget	2023 Budget \$ Incr/(Decr)	2023 Budget % Incr/(Decr)
<b>Revenues:</b>						
General Recoveries	(7,375,106)	(7,242,070)	133,036	(7,518,310)	(276,240)	3.81%
<b>Total Revenues:</b>	<b>(7,375,106)</b>	<b>(7,242,070)</b>	<b>133,036</b>	<b>(7,518,310)</b>	<b>(276,240)</b>	<b>3.81%</b>
<b>Revenue Required from User Rates</b>	<b>(7,375,106)</b>	<b>(7,242,070)</b>	<b>133,036</b>	<b>(7,518,310)</b>	<b>(276,240)</b>	<b>3.81%</b>



**Rate Stabilization Reserves**

<b>FORECAST OF RATE STABILIZATION RESERVE - WATER</b>							
<b>FOR THE YEARS 2020 TO 2026</b>							
	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>
	<b>ACTUALS</b>	<b>ACTUALS</b>	<b>FORECAST</b>	<b>FORECAST</b>	<b>FORECAST</b>	<b>FORECAST</b>	<b>FORECAST</b>
	<b>\$</b>						
<b>Opening Balance January 1st</b>	<b>1,919,473</b>	<b>2,850,905</b>	<b>3,131,053</b>	<b>3,013,158</b>	<b>1,750,400</b>	<b>1,799,412</b>	<b>1,849,795</b>
Source of Funds:							
Budgeted Annual Contribution							
Surplus/(Deficit) from Operations	875,438	193,435	0				
Interest Earned	55,994	86,713	83,530	57,242	49,011	50,384	51,794
<b>Total Source of Funds</b>	<b>931,431</b>	<b>280,148</b>	<b>83,530</b>	<b>57,242</b>	<b>49,011</b>	<b>50,384</b>	<b>51,794</b>
Use of Funds:							
Commitment for Active Projects							
Contribution to Operations			201,425	20,000			
Potential Contribution to CRRF - Water				1,300,000			
<b>Total Use of Funds</b>	<b>0</b>	<b>0</b>	<b>201,425</b>	<b>1,320,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Closing Balance December 31st</b>	<b>2,850,905</b>	<b>3,131,053</b>	<b>3,013,158</b>	<b>1,750,400</b>	<b>1,799,412</b>	<b>1,849,795</b>	<b>1,901,589</b>
Balance in Reserve as a Percentage of Rates Revenue	49.42%	52.93%	45.79%	22.76%	27.34%	24.05%	28.90%
Rates Revenue	5,769,160	5,915,590	6,581,020	7,690,350	6,581,020	7,690,350	6,581,020
Budgeted Annual Contribution as a % of Rates Revenue	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

<b>FORECAST OF RATE STABILIZATION RESERVE - WASTEWATER</b>							
<b>FOR THE YEARS 2020 TO 2026</b>							
	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>
	<b>ACTUALS</b>	<b>ACTUALS</b>	<b>FORECAST</b>	<b>FORECAST</b>	<b>FORECAST</b>	<b>FORECAST</b>	<b>FORECAST</b>
	<b>\$</b>						
<b>Opening Balance January 1st</b>	<b>3,567,538</b>	<b>1,727,545</b>	<b>2,909,216</b>	<b>3,245,799</b>	<b>3,336,681</b>	<b>3,430,108</b>	<b>1,740,189</b>
Source of Funds:							
Budgeted Annual Contribution							
Leachate/Overstrength contributions	169,972	146,331	160,452				
Surplus/(Deficit) from Operations	435,234	982,775	94,673				
Interest Earned	104,587	52,566	81,458	90,882	93,427	60,081	48,725
<b>Total Source of Funds</b>	<b>709,792</b>	<b>1,181,672</b>	<b>336,583</b>	<b>90,882</b>	<b>93,427</b>	<b>60,081</b>	<b>48,725</b>
Use of Funds:							
Commitment for Active Projects							
Potential Contribution to CRRF - Wastewater	2,549,786					1,750,000	
<b>Total Use of Funds</b>	<b>2,549,786</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,750,000</b>	<b>0</b>
<b>Closing Balance December 31st</b>	<b>1,727,545</b>	<b>2,909,216</b>	<b>3,245,799</b>	<b>3,336,681</b>	<b>3,430,108</b>	<b>1,740,189</b>	<b>1,788,914</b>
Balance in Reserve as a Percentage of Rates Revenue	25.39%	41.26%	44.82%	44.38%	45.62%	23.15%	23.79%
Rates Revenue	6,803,540	7,050,310	7,242,070	7,518,310	7,518,310	7,518,310	7,518,310
Budgeted Annual Contribution as a % of Rates Revenue	2.50%	2.08%	2.22%	0.00%	0.00%	0.00%	0.00%

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.

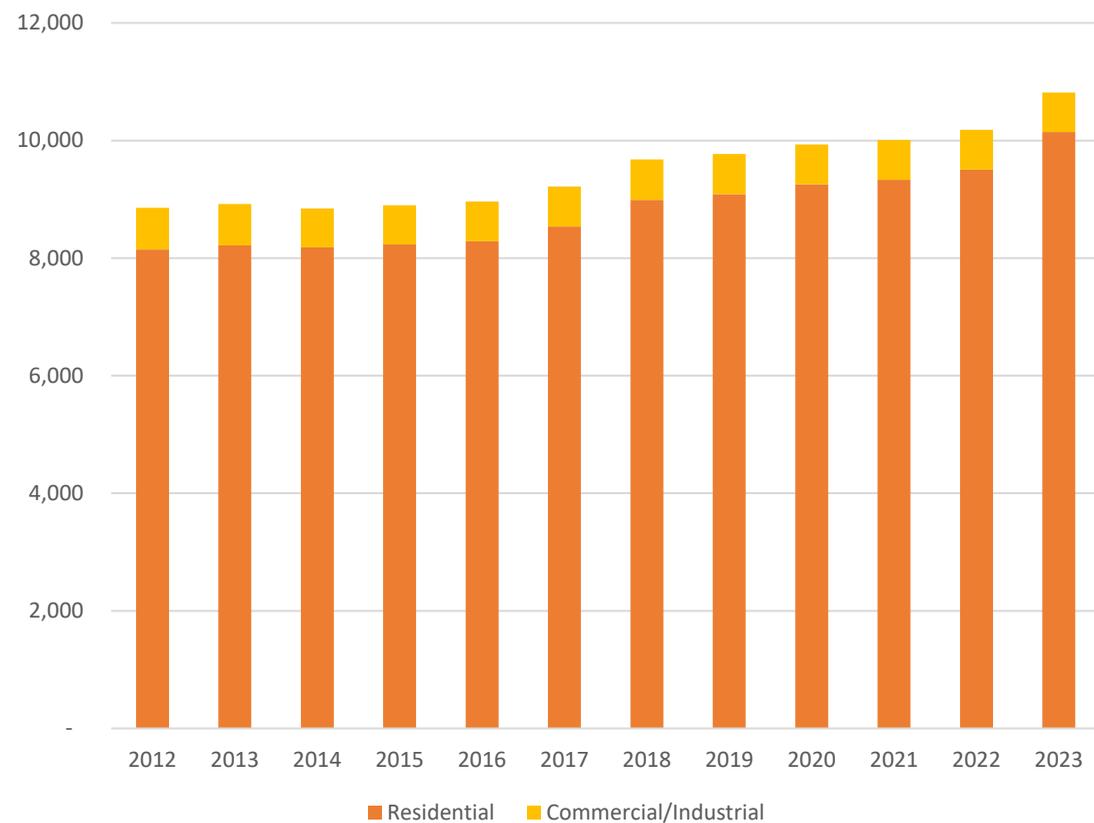
If the balance within the reserve is greater than 25% of rates revenue for four years in a row, the additional amount will be contributed to CRRF to assist in offsetting potential increases required for the capital program and implementation of asset management.

Due to budget pressures in the water operations budget, the rate stabilization reserve is being utilized over the period of 2022 to 2024 to help reduce the impact on the end users.

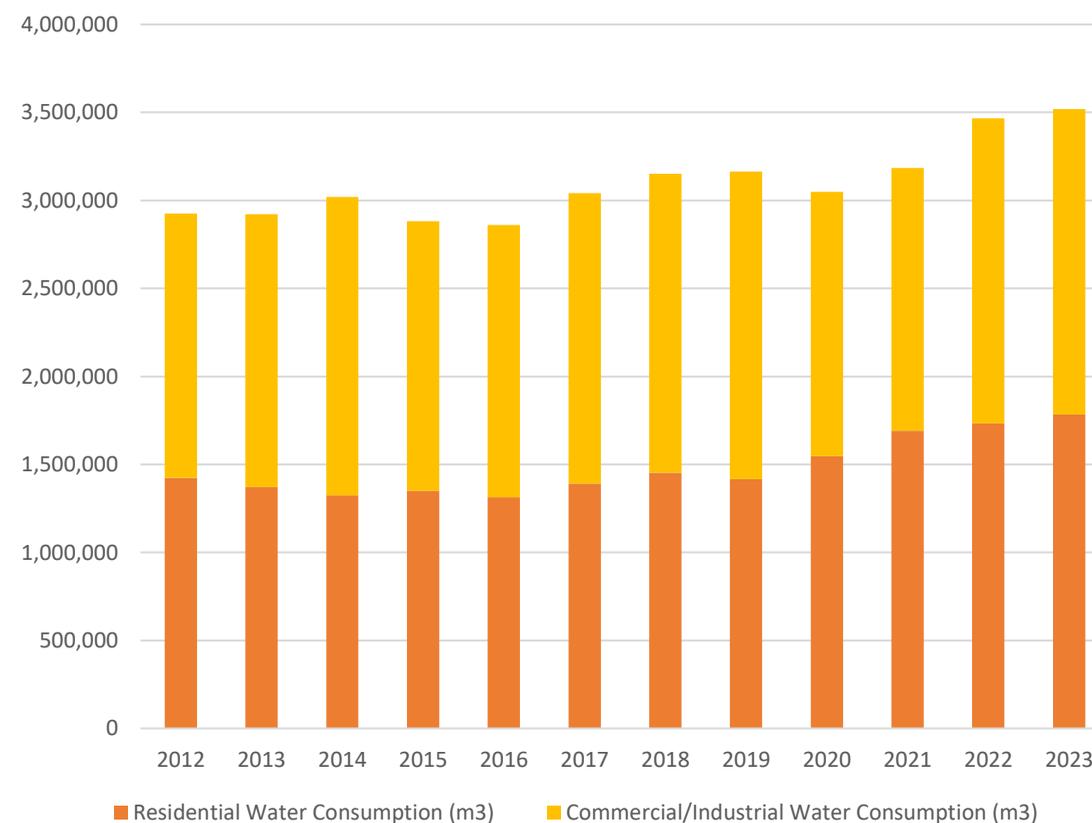


## Consumer and Consumption Statistics

Residential & Commercial/Industrial Water Consumers (#)



Water Consumption (m3)



*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.  
 2023 Consumers based on validation of current users and anticipated growth.*

*2023 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
<b>A</b>	Water and Wastewater Metered Charges
<b>B</b>	Water and Wastewater Bulk Service Charges
<b>C</b>	Water and Wastewater General Fees
<b>D</b>	Water and Wastewater Access Refusal and Tampering Charges
<b>E</b>	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	2022 Charge	2023 Charge	% Increase	
<b>Water</b>					
Consumption Charges	\$/m3	\$1.0139	\$1.0936	7.85%	
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	\$22.35	\$24.72	10.58%
R2/C2	25	1	\$22.35	\$24.72	10.58%
R3/C3	37	1.5	\$126.28	\$139.64	10.58%
R4/C4	50	2	\$274.46	\$303.51	10.58%
C5	75	3	\$482.99	\$534.11	10.58%
C6	100	4	\$960.62	\$1,062.29	10.58%
C7	150	6	\$1,786.91	\$1,976.03	10.58%
C8	200	8	\$3,052.17	\$3,375.19	10.58%
Flat Rate	<i>Consumption charge: 15 m3/month (20 m3/month in 2020)</i>		\$15.21	\$16.40	7.85%
	<i>R1/C1 Basic Charge</i>		\$22.35	\$24.72	10.58%
	<b>Total Flat Rate</b>		<b>\$37.56</b>	<b>\$41.12</b>	<b>9.48%</b>
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.				
<b>Wastewater</b>					
Consumption Charges	\$/m3	\$1.4803	\$1.3943	-5.81%	
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	\$24.71	\$23.98	-2.93%
R2/C2	25	1	\$24.71	\$23.98	-2.93%
R3/C3	37	1.5	\$139.59	\$135.50	-2.93%
R4/C4	50	2	\$303.38	\$294.51	-2.93%
C5	75	3	\$533.89	\$518.27	-2.93%
C6	100	4	\$1,061.84	\$1,030.78	-2.93%
C7	150	6	\$1,975.20	\$1,917.42	-2.93%
C8	200	8	\$3,373.78	\$3,275.09	-2.93%
Flat Rate	<i>Consumption charge: 15 m3/month (20 m3/month in 2020)</i>		\$22.20	\$20.91	-5.81%
	<i>R1/C1 Basic Charge</i>		\$24.71	\$23.98	-2.93%
	<b>Total Flat Rate</b>		<b>\$46.91</b>	<b>\$44.90</b>	<b>-4.29%</b>
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.				
<b>Water and Wastewater Arrears</b>					
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	2022 Charge	2023 Charge	% Increase
<b>Water</b>				
Bulk Water Consumption Rate	\$/m3	\$3.23	\$3.33	3.00%
Bulk Water Administration Fee	for months with billable consumption	\$18.51	\$19.07	3.00%
Bulk Water	Account Activation Fee (note: accounts will be deactivated if there is no consumption in the prior twelve month calendar year)	\$30.36	\$31.27	3.00%
Bulk Water	Re-Activation Fee	\$30.36	\$31.27	3.00%
New Credit Wholesale Rate	\$/m3 (12% reduction of metered water charge based on agreement)	\$0.89	\$0.96	7.85%
<b>Wastewater</b>				
Bulk Wastewater Disposal	Leachate - Local Volumetric Charge (\$/m3)	\$20.90	\$19.90	-4.80%
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)	\$15.45	\$15.92	3.00%
Bulk Wastewater Disposal Administration Fee	Septic/Holding Tank/Portable Toilet Hauler Administration Fee (per month) for months with billable disposable volumes	\$18.51	\$19.06	3.00%

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

Water and Wastewater General Fees	Description	2022 Charge	2023 Charge	% Increase
<b>Connection Permits and Fees</b>				
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		\$100	\$103	3.00%
Water Connection	Main to Street Line: Includes Inspection and Main Tap (contractor to supply all materials)	\$382	\$393	2.88%
Water Meter	Water Meter for new construction	Meter Cost	Meter Cost	n/a
	5/8" or 3/4" Meter	\$308	\$317	2.92%
	1' Meter	\$363	\$374	3.03%
	1.5" Meter	\$702	\$723	2.99%
	2" Meter	\$912	\$939	2.96%
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)	\$99 per hour	\$102 per hour	3.03%
Bacteriological Testing for New 100mm (4") Diameter & Larger	Water Mains or Services - includes sampling and transport to accredited laboratory per sampling site	\$207	\$213	2.90%
Water Disconnection Inspection	Inspection Only (contractor to supply all materials)	\$100	\$103	3.00%
Sanitary Sewer Service Connection 100mm (4") Diameter	Main to Street Line - Includes Inspection and Main Tap (contractor to supply all materials)	\$382	\$393	2.88%
Other Sanitary Sewer Service Connection Diameters	Main to Street Line: 150mm (6") or Greater Diameter: Inspection Only	\$181	\$186	2.76%
Sanitary Sewer Disconnection Inspection	Inspection Only (contractor to supply all materials)	\$100	\$103	3.00%
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
<b>Testing of Water Meters</b>				
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
<b>Water Turn On/Off</b>				
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.				
"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	\$100	\$103	3.00%
During Normal Working Hours	Water Turn Off	\$100	\$103	3.00%
During Normal Working Hours	Water Turn On/Off Same Day for Fix and Repair	\$112	\$115	2.68%
During Normal Working Hours	Water Turn On and Meter Reconnection	\$112	\$115	2.68%
During Normal Working Hours	Water Turn Off and Meter Disconnection	\$112	\$115	2.68%
During Normal Working Hours	Water Meter Removal or Install	\$21	\$22	4.76%

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

Water and Wastewater General Fees	Description	2022 Charge	2023 Charge	% Increase
Outside of Normal Working Hours	Water Turn On	\$219	\$226	3.20%
Outside of Normal Working Hours	Water Turn Off	\$219	\$226	3.20%
Outside of Normal Working Hours	Water Turn On and Meter Reconnection	\$264	\$272	3.03%
Outside of Normal Working Hours	Water Turn Off and Meter Disconnection	\$264	\$272	3.03%
Outside of Normal Working Hours	Water Meter Removal or Install	\$44	\$45	2.27%
<b>Winter Control Service Calls</b>				
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)	\$149	\$153	2.68%
Thawing Frozen Water Service Lines	Outside of Normal Working Hours (per hour) (min. 2 hrs)	\$263	\$271	3.04%
Replacement of Water Meter due to Frost Plate damage	During Normal Working Hours	Meter Cost plus \$99	Meter Cost plus \$102	3.03%
Replacement of Water Meter due to Frost Plate damage	Outside of Normal Working Hours	Meter Cost plus \$259	Meter Cost plus \$267	3.09%
	5/8" or 3/4" Meter	\$308	\$317	2.92%
	1" Meter	\$363	\$374	3.03%
	1.5" Meter	\$702	\$723	2.99%
	2" Meter	\$912	\$939	2.96%
<b>Sanitary Sewer Rodding/Teley Video</b>				
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)	\$293	\$302	3.07%
Sanitary Sewer Rodding	Outside of Normal Working Hours - each full or additional hours (min. 2 hrs)	\$514	\$529	2.92%
Sewer Video	Sewers will be videoed during normal working hours only. Rate is per hour with a minimum of a one (1) hour charge	\$248	\$255	2.82%
Dye Testing	During normal working hours (min. 1 hr)	\$146	\$150	2.74%
Dye Testing	Outside of normal working hours (min. 2 hrs)	\$258	\$266	3.10%
Vactor Charge	During normal working hours (min. 1 hr)	\$305	\$314	2.95%
Vactor Charge	Outside of normal working hours (min. 2 hrs)	\$558	\$575	3.05%
<b>Wastewater Charges</b>				
Sewer Sludge Storage Costs	Sludge Storage - Townsend Lagoon per Cubic Meter (m3)	\$4,992	\$5,141	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)	\$1.10	\$1.13	3.00%
Sanitary Discharge Agreement	New discharger information report administrative fee	\$266	\$274	3.01%
Sanitary Discharge Agreement	Existing discharger information report administration fee	\$266	\$274	3.01%
Sanitary Discharge Agreement	Sanitary discharge agreement annual administration fee	\$1,593	\$1,641	3.01%
Sanitary Discharge Agreement	Sanitary discharge agreement amendment request application processing fee	\$266	\$274	3.01%
Sanitary Discharge Agreement	Application for a hauled sewage discharge permit processing fee	\$266	\$274	3.01%
Sanitary Discharge Agreement	Annual hauled sewage discharge permit processing fee	\$266	\$274	3.01%
Sanitary Discharge Agreement	Haldimand County assistance with all other additional requests	100% Cost Recovery	100% Cost Recovery	n/a
Wastewater Discharge Program	Application fee	\$266	\$274	3.01%
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
<b>Other Services</b>				
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	\$2,906	\$2,993	2.99%
Installation of Communication Antennae System on County Facilities	Private Enterprises	Per Contract	Per Contract	n/a
<b>Administration Fees and Late Payment Interest Charges</b>				
Note: the following charges may be administered by a 3rd party on behalf of the County				
Arrears Certificate		\$17.50	\$18.00	2.86%
Non-sufficient Funds Charge (NSF)		\$38.00	\$39.00	2.63%
Credit Reference/Credit Check		\$17.50	\$18.00	2.86%

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

Water and Wastewater General Fees	Description	2022 Charge	2023 Charge	% Increase
Account Setup Charge		\$35.00	\$36.00	2.86%
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	\$35.00	\$36.00	2.86%



## 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	2022 Charge	2023 Charge	% Increase
<b>Refusal of Entry for Inspection, Installation, Repair or Replacement of Meters/Equipment, Water Service Leaks</b>				
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	\$64.00	\$66.00	3.13%
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.	\$557.00	\$574.00	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				
<b>Service/Activity to be calculated:</b>				
<b>Description of Service/Activity:</b>				
<b>Input required in yellow cells only.</b>				
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 <b>Service/Activity to be calculated</b> along with a description of the fee under <b>Description of Service/Activity</b>				
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 <b>Ancillary Revenues</b> on this tab.				
Once all information has been input, the total fee will be calculated in cell <b>G59</b> . 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 <b>G60</b> . Ensure you document why the value is different in the Comment section.				
Finally, please select from the drop down beside <b>Applicable Taxes</b> . If you are unsure what applies here, please contact your financial analyst for assistance.				
COSTS:	DESCRIPTION OF COSTS/SERVICES:		HOURS/UNITS:	ESTIMATED COSTS:
<b>DIRECT COSTS:</b>				
<b>WAGES &amp; BENEFITS:</b>				
Staffing Costs:	Hours x Hourly Rate		0.00	\$0.00
Staffing Benefit Costs:	County Average Benefit Percentage		48%	\$0.00
Supervisor Costs:	Hours x Hourly Rate		0.00	\$0.00
Supervisor Benefit Costs:	County Average Benefit Percentage		48%	\$0.00
<b>VEHICLE COSTS:</b>				
	Vehicles Used:	# of Vehicles Used:	Operating Hours:	
		0		\$0.00
				\$0.00
				\$0.00
<b>ADMINISTRATIVE COSTS:</b>				
Inspection Costs:	Number of Staff x Hours x Hourly Rate		0.00	\$0.00
Benefits:	County Average Benefit Percentage		48%	\$0.00
Photocopying	Cost of Photocopying & Paper			\$0.00
Mailing	Cost for Regular Mail			\$0.00
Filing	Copying & Filing Internal Copies			\$0.00
<b>OTHER COSTS:</b>				
	Description:	Cost Per Unit:	Units:	
		\$0.00	0	\$0.00
		\$0.00	0	\$0.00
		\$0.00	0	\$0.00
<b>TOTAL DIRECT COSTS:</b>				\$0.00
<b>INDIRECT COSTS:</b>				
Department Overhead Allocation	Allocation to Department of Allocation (%)			\$0.00
County General Admin Overhead	Council, CAO, Finance, Clerk's & General Overhead (%)			\$0.00
<b>TOTAL INDIRECT COSTS:</b>				\$0.00
<b>TOTAL COSTS:</b>				\$0.00
<b>Less: Ancillary Revenues:</b>				
	Grants & Offsetting Revenues	Percentage:		\$0.00
		\$ Amount:	\$0.00	\$0.00
<b>CALCULATED USER FEE</b>				\$0.00
<b>ADJUSTED USER FEE APPROVED BY COUNCIL</b>				

Applicable Taxes  1

Final User Fee Including  \$0.00

**Comments:**



**Haldimand**  
County

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





**2023 - 2032 Rate Supported Capital Forecast**  
**Project Changes Over \$100,000**

Division	Department	Project #	Project Title	State of Good Repair/New	Explanation	Change Type	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total	
Water	Caledonia Water Distribution	472020	North Water Storage Expansion	New/Enhanced Service	Shifted	As a result of revised growth forecasts for the community of Caledonia that identify an increase in units in the north and a delay in development timelines in the south, the servicing strategy for satisfying water storage requirements has changed. Based on more recent growth forecasts, water modelling results now support making the expansion of the north reservoir project a priority over constructing a new elevated tank in south Caledonia. For more detail on the projects and why staff are recommending a change in priority, please refer to the prepared Council Brief.	612,600	927,800	7,188,600	(612,600)		(927,800)		(7,188,600)				
		472005	Elevated Storage Tank Replacement	Replacement/State of Good Repair	Shifted			(7,590,100)					435,400		7,590,100			435,400
<b>Total</b>							<b>(6,977,500)</b>	<b>927,800</b>	<b>7,188,600</b>	<b>(612,600)</b>		<b>(492,400)</b>		<b>401,500</b>			<b>435,400</b>	
	Dunnville Water Distribution	476052	Taylor St - Relocation of Watermain [CIW] [R]	Replacement/State of Good Repair	Added	Relocation of watermain currently on private property. May need to be brought forward if development advances											374,000	
<b>Total</b>																		<b>374,000</b>
	Dunnville Water Treatment Plant	476002	Granular Activated Carbon change out	Replacement/State of Good Repair	Shifted	Project timing shifted to reflect updated asset management needs	80,000	(14,600)	84,100		(101,800)	200,000	92,800	(14,600)	97,500		423,400	
		476035	Port Maitland Raw Water Intake Repairs	Replacement/State of Good Repair	Price Increase	Additional work identified through original work scope completed in 2022.	225,000										225,000	
		476053	Dunnville WTP Roof Replacement	Replacement/State of Good Repair	Added	Added as the result of recent Building Condition Assessment		250,000									250,000	
		476083	Dunn WTP Mechanical, Valve replacement and Chamber Repairs	Replacement/State of Good Repair	Added	Project timing shifted to reflect updated asset management needs	25,000	25,600	26,300	27,000	27,600	28,300					159,800	
<b>Total</b>							<b>330,000</b>	<b>261,000</b>	<b>110,400</b>	<b>27,000</b>	<b>(74,200)</b>	<b>228,300</b>	<b>92,800</b>	<b>(14,600)</b>	<b>97,500</b>			<b>1,058,200</b>
	Hagersville Water Distribution	473019	Hwy #6 Transmission Main Twinning	New/Enhanced Service	New	Required as the result of development in Hagersville. Funded from Development Charges	900,000	4,510,000									5,410,000	
		473023	Athens Street - Sherring to Cedar [CIW] [R]	Replacement/State of Good Repair	New	Required as the result of development in Hagersville. Funded from Development Charges										215,000	215,000	
		473024	Sherring Street N - King to Marathon [CIW] [R]	Replacement/State of Good Repair	New	New project added to align with development requirements										322,000	322,000	
		473025	Tuscarora St - King to Oneida [CIW] [R] [WW]	Replacement/State of Good Repair	New	Required as the result of development in Hagersville. Funded from Development Charges	70,000		418,000								488,000	
		473028	King St - Rail Line to Tuscarora [CIW] [R] [WW]	Replacement/State of Good Repair	New	Required as the result of development in Hagersville. Funded from Development Charges	28,000		121,000								149,000	
		473029	Parkview/Concession 12 - Watermain Upsizing	Replacement/State of Good Repair	New	Required as the result of development in Hagersville. Funded from Development Charges	62,000		401,000								463,000	
<b>Total</b>							<b>1,060,000</b>	<b>4,510,000</b>	<b>940,000</b>		<b>(74,200)</b>	<b>228,300</b>	<b>92,800</b>	<b>(14,600)</b>	<b>97,500</b>		<b>537,000</b>	<b>7,047,000</b>
	Nanticoke Water Treatment Plant	479070	Nanticoke WTP Intake Source Protection Measurers	New/Enhanced Service	Shifted	Project deferred until ownership of intake is determined	(100,000)	100,000										
		479073	Nanticoke WTP Capacity Expansion	New/Enhanced Service	Shifted	Project deferred to align with servicing strategy with Norfolk County	(44,000,000)	52,000,000									8,000,000	
		479099	Project Management Support [WW]	New/Enhanced Service	Scope Change	While the original intent of the five year contract project manager position was to manage the Norfolk water supply project and the new Caledonia wastewater treatment plant project, the position has now been made permanent based on the projected volume of work related to new development over the ten year forecast as well as to enhance the County's ability to hire and retain a highly qualified candidate for the position. It is recognized that should vacancies occur in the division that a review will be done to assess the ongoing need for the position and that ongoing attrition should accommodate any staff changes required due to decreasing workloads.		1,750	3,500	5,400	77,300	79,300	81,200	83,300	85,300	87,500	504,550	
		479103	Nant WTP Highlift Electrical Switchgear Replacement	Replacement/State of Good Repair	New	Project added to address identified need determined through most recent condition assessment	275,000										275,000	
		479104	Nant WTP Highlift Generator TSSA Required Upgrades	Replacement/State of Good Repair	New	Project added to address identified need determined through most recent condition assessment	120,000										120,000	
		479108	Nant IPS Hydro Transformers/Substations Refurbishment	Replacement/State of Good Repair	New	Project added to address identified need determined through most recent condition assessment		61,500		64,600		67,900					194,000	
		479110	Nant Transmission Line Chamber Refurbishment	Replacement/State of Good Repair	New	Project added shifted to reflect updated asset management needs	20,000	20,500	21,000	21,500	22,100	22,600					127,700	
		479111	Nant IPS Main MV MCP Sections Refurbishment (2)	Replacement/State of Good Repair	New	Project added to address identified need determined through most recent condition assessment			200,000	205,000							405,000	
<b>Total</b>							<b>(43,685,000)</b>	<b>52,183,750</b>	<b>224,500</b>	<b>296,500</b>	<b>99,400</b>	<b>169,800</b>	<b>81,200</b>	<b>83,300</b>	<b>85,300</b>	<b>87,500</b>		<b>9,626,250</b>
	Townsend Water Distribution	477001	Townsend Standpipe Coating Maintenance	Replacement/State of Good Repair	New	Additional work identified through original work scope completed in 2022	800,000										800,000	



**2023 - 2032 Rate Supported Capital Forecast**  
**Project Changes Over \$100,000**

Division	Department	Project #	Project Title	State of Good Repair/New	Explanation	Change Type	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total	
<b>Total</b>							<b>800,000</b>										<b>800,000</b>	
	Water Administration	441017	Water & Wastewater E-Billing Solution	New/Enhanced Service	New	Upgrade required to existing software per the terms of the agreement with billing provider	144,100										144,100	
		441016	Billing Software Upgrade	Replacement/State of Good Repair	New	As part of modernization of County services, implementation of e-billing solution for water and wastewater customer is also proposed	145,900			100,000			107,700			116,000	469,600	
<b>Total</b>							<b>290,000</b>			<b>100,000</b>			<b>107,700</b>			<b>116,000</b>	<b>613,700</b>	
	Water Distribution General	471005	Distribution System - Annual Repair & Replac't	Replacement/State of Good Repair	Indexed	Project costs increased due to annual indexing of 2.5%		2,130	4,300	6,530	8,820	11,160	13,560	16,020	18,540	106,130	187,190	
<b>Total</b>								<b>2,630</b>	<b>5,300</b>	<b>8,030</b>	<b>10,920</b>	<b>13,760</b>	<b>16,760</b>	<b>19,820</b>	<b>22,940</b>	<b>131,130</b>	<b>231,290</b>	
	Water Treatment General	471017	Plant Capital Improvements	Replacement/State of Good Repair	Shift/Decrease	Placeholder for future plant improvements. Budget amended based on anticipated future needs analysis			(2,990,400)		(3,047,900)		(2,230,420)	970,150	1,229,080	1,403,520	(4,665,970)	
<b>Total</b>									<b>(2,990,400)</b>		<b>(3,047,900)</b>		<b>(2,230,420)</b>	<b>970,150</b>	<b>1,229,080</b>	<b>1,403,520</b>	<b>(4,665,970)</b>	
<b>Total for Water</b>							<b>(48,182,500)</b>	<b>57,885,180</b>	<b>5,478,400</b>	<b>(181,070)</b>	<b>(2,637,780)</b>	<b>(80,540)</b>	<b>(1,931,960)</b>	<b>1,460,170</b>	<b>1,434,820</b>	<b>2,275,150</b>	<b>15,519,870</b>	
Wastewater	Caledonia Wastewater Treatment Plant	452027	Cal WWTP Sludge Storage Tank Retrofit and Building Decommissioning	New/Enhanced Service	Shifted	Project Shifted to reflected prioritization of needs.	(179,400)	179,400										
		452058	Project Management Support [W]	New/Enhanced Service	Scope Change	While the original intent of the five year contract project manager position was to manage the Norfolk water supply project and the new Caledonia wastewater treatment plant project, the position has now been made permanent based on the projected volume of work related to new development over the ten year forecast as well as to enhance the County's ability to hire and retain a highly qualified candidate for the position. It is recognized that should vacancies occur in the division that a review will be done to assess the ongoing need for the position and that ongoing attrition should accommodate any staff changes required due to decreasing workloads.		1,800	3,500	5,400	77,300	79,300	81,200	83,300	85,300	87,500	504,600	
		452026	Cal WWTP Blower and Supply Line Replacements	Replacement/State of Good Repair	Price Increase	Increased budget due to cost increase of equipment and replacing supply line to digesters		197,300									197,300	
<b>Total</b>							<b>(179,400)</b>	<b>378,500</b>	<b>3,500</b>	<b>5,400</b>	<b>77,300</b>	<b>79,300</b>	<b>81,200</b>	<b>83,300</b>	<b>85,300</b>	<b>87,500</b>	<b>701,900</b>	
	Cayuga Wastewater Collection	455009	Ouse St Forcemain Twinning	New/Enhanced Service	Shifted/Price Increase	Project shifted to reflect prioritization of needs. Budget increased to reflect current market prices.		(367,500)	390,000								22,500	
		455004	Ouse St PS Replacements	Replacement/State of Good Repair	Shifted/Price Increase	Budget added in 2023 for replacement of a pump. Construction deferred to 2025 with an increase to the budget to reflect current market prices.	30,000	(1,470,900)	1,600,000								159,100	
<b>Total</b>							<b>30,000</b>	<b>(1,838,400)</b>	<b>1,990,000</b>									<b>181,600</b>
	Cayuga Wastewater Treatment Plant	455011	Twinning of Headworks Screen	New/Enhanced Service	Shifted	Budget added in 2023 for replacement of a pump. Construction deferred to 2025 with an increase to the budget to reflect current market prices.		(336,200)	385,000								48,800	
		455013	Mechanical Aerator (rotor) Replacement	Replacement/State of Good Repair	Price Increase	Reidentified as a result of engineering in 2022 to reflect increased costs	540,000										540,000	
<b>Total</b>							<b>540,000</b>	<b>(336,200)</b>	<b>385,000</b>									<b>588,800</b>
	Dunnville Wastewater Treatment Plant	456016	WWTP Wet-Well Valve Replacements	Replacement/State of Good Repair	Deleted	Upon further review it was determined that this project is no longer required	(200,000)										(200,000)	
<b>Total</b>							<b>(200,000)</b>											<b>(200,000)</b>
	Hagersville Wastewater Collection	453062	Tuscarora St - King to Oneida [CIW] [R] [WW]	Replacement/State of Good Repair	New	Watermain upsizing required as the result of development in Hagersville. Funded from Development Charges	20,000		600,000								620,000	
		453063	Foundry St - Tuscarora to end [CIW] [R] [WW]	Replacement/State of Good Repair	New	Watermain upsizing required as the result of development in Hagersville. Funded from Development Charges	120,000										120,000	
		453064	Victoria St - Tuscarora to Main St N [CIW] [R] [WW]	Replacement/State of Good Repair	New	Watermain upsizing required as the result of development in Hagersville. Funded from Development Charges	180,000										180,000	
<b>Total</b>							<b>320,000</b>		<b>600,000</b>									<b>920,000</b>
	Hagersville Wastewater Technical Reviews and Studies	453058	Hag WWTP EA for Plant Expansion	Replacement/State of Good Repair	New	Projected added to conduct and environmental assessment for planned future plant expansion		275,000									275,000	
<b>Total</b>								<b>275,000</b>										<b>275,000</b>
	Hagersville Wastewater Treatment Plant	453026	Grit Removal System	New/Enhanced Service	Shifted	Project Shifted to reflected prioritization of needs.	(1,025,000)		1,025,000									
		453057	Hag WWTP Aeration Replacements and Upgrades	Replacement/State of Good Repair	New	Project required to address identified process limitations	900,000										900,000	
<b>Total</b>							<b>(125,000)</b>		<b>1,025,000</b>									<b>900,000</b>
	Jarvis Lagoons	454010	Jarvis Lagoon Clean Out	Replacement/State of Good Repair	Shifted	Project Shifted to reflected prioritization of needs.		(472,800)		472,800								
<b>Total</b>								<b>(472,800)</b>		<b>472,800</b>								



**2023 - 2032 Rate Supported Capital Forecast**  
**Project Changes Over \$100,000**

Division	Department	Project #	Project Title	State of Good Repair/New	Explanation	Change Type	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	LEIP Lagoons	459008	LEIP Lagoon Wet Well Pumping Refurbishments	New/Enhanced Service	New	Project required to address identified process limitations		300,000									300,000
		459005	LEIP Lagoon Clean Out	Replacement/State of Good Repair	Shifted	Project Shifted to reflected prioritization of needs.				(386,300)		386,300					
		459007	LEIP Lagoon Berm Restoration and Splitter Box Valve Replacement	Replacement/State of Good Repair	New	Due to storm water runoff, there are areas of the existing berm that have eroded and are in need of restoration.	180,000										180,000
	<b>Total</b>						<b>180,000</b>	<b>300,000</b>		<b>(386,300)</b>		<b>386,300</b>					<b>480,000</b>
	Oswego Park Lagoons	458003	Oswego Lagoon Clean Out	Replacement/State of Good Repair	Shifted	Project Shifted to reflected prioritization of needs.		(288,900)		288,900							
	<b>Total</b>							<b>(288,900)</b>		<b>288,900</b>							
	Oswego Park Wastewater Collection	458002	Oswego Pump Station Forcemain Replacement	Replacement/State of Good Repair	Deleted	Upon further review it was determined that this project is no longer required	(200,000)										(200,000)
	<b>Total</b>						<b>(200,000)</b>										<b>(200,000)</b>
	Townsend Lagoons	457005	Townsend Lagoon Clean Out	Replacement/State of Good Repair	Shifted	Project Shifted to reflected prioritization of needs.			(215,400)		215,400						
	<b>Total</b>								<b>(215,400)</b>		<b>215,400</b>						
	Wastewater Collection General	451008	Collection System - Annual Repair	Replacement/State of Good Repair	Indexed	Project costs increased due to annual indexing of 2.5%		1,500	3,040	4,620	6,240	7,900	9,600	11,340	13,120	74,950	132,310
	<b>Total</b>							<b>1,500</b>	<b>3,040</b>	<b>4,620</b>	<b>6,240</b>	<b>7,900</b>	<b>9,600</b>	<b>11,340</b>	<b>13,120</b>	<b>74,950</b>	<b>132,310</b>
	Wastewater Treatment General	451024	Plant Capital Improvements	Replacement/State of Good Repair	Shift/Decrease	Placeholder for future plant improvements. Budget amended based on anticipated future needs analysis					(3,737,000)	(2,027,500)	(1,733,040)	(1,632,440)	2,662,890	2,189,680	(4,277,410)
	<b>Total</b>										<b>(3,737,000)</b>	<b>(2,027,500)</b>	<b>(1,733,040)</b>	<b>(1,632,440)</b>	<b>2,662,890</b>	<b>2,189,680</b>	<b>(4,277,410)</b>
	<b>Total for Wastewater</b>						<b>365,600</b>	<b>(1,981,300)</b>	<b>3,791,140</b>	<b>385,420</b>	<b>(3,438,060)</b>	<b>(1,554,000)</b>	<b>(1,642,240)</b>	<b>(1,537,800)</b>	<b>2,761,310</b>	<b>2,352,130</b>	<b>(497,800)</b>
	<b>Total</b>						<b>(42,736,500)</b>	<b>58,485,660</b>	<b>2,254,080</b>	<b>807,610</b>	<b>(6,162,680)</b>	<b>(1,156,920)</b>	<b>(3,650,530)</b>	<b>(588,830)</b>	<b>4,118,650</b>	<b>4,555,900</b>	<b>15,926,440</b>



**Haldimand**  
County

**Co-ordinated Projects**

FOR THE YEARS 2023 to 2032

Project	Timing	TAX CAPITAL						WATER AND WASTEWATER CAPITAL				Project Total
		Roads 2022 Open Projects	Roads 10 Year Forecast	Storm 2022 Open Projects	Storm 10 Year Forecast	Other 2022 Open Projects	Other 10 Year Forecast	Water 2022 Open Projects	Water 10 Year Forecast	Wastewater 2022 Open Projects	Wastewater 10 Year Forecast	
<b>Caledonia</b>												
Master Servicing Plan	2026		55,200		33,200		-		50,000		50,000	<b>188,400</b>
Aberdeen St - Burke to Sutherland	2025		72,800		-		-		115,300		-	<b>188,100</b>
Gypsum Ave - Argyle to End	2025		75,400		82,900		-		161,300		-	<b>319,600</b>
Inverness St - Caithness to Orkney	2025		207,300		103,700		-		443,600		-	<b>754,600</b>
Sutherland St W - Shetland to Inverness	2025		107,700		-		-		230,500		-	<b>338,200</b>
Caithness Street - Cameron to Argyle	2030		487,400		536,100		-		1,023,300		-	<b>2,046,800</b>
Shetland St - Caithness St to Sutherland	2030		97,500		-		-		208,500		-	<b>306,000</b>
Nairne St - Sutherland to Orkney	2030		131,000		-		-		280,300		-	<b>411,300</b>
Caithness St. W - Retaining Wall	2022-2025	215,000	800,000		-		-		40,000		25,000	<b>1,080,000</b>
Caithness St. E - Retaining Wall	2022-2023	10,000	305,000		-		-		40,000		25,000	<b>380,000</b>
<b>Cayuga</b>												
Master Servicing Plan	2024, 2030		68,200		34,100		-		54,000		54,000	<b>210,300</b>
Mohawk Street W - Munsee to Ottawa	2027-2028		73,500		-		-		161,300		-	<b>234,800</b>
Norton Street West - Munsee to Ottawa	2028		75,400		-		-		161,300		-	<b>236,700</b>
Mohawk St E - Munsee to Winnet	2028		72,500		-		-		155,100		-	<b>227,600</b>
Ottawa St N - Talbot to Mohawk	2028		121,800		-		-		260,700		-	<b>382,500</b>
Talbot St W - Alley behind Back 40	2028		98,000		-		-		155,100		-	<b>253,100</b>
<b>Dunnville</b>												
Master Servicing Plan	2023, 2029		66,500		66,500		-		64,800		64,800	<b>262,600</b>
Alley way - Broad to Central Lane	2023		80,000		-		-		160,000		-	<b>240,000</b>
Main St E - 710 Main E to 50 m south	2023		25,000		-		-		71,800		-	<b>96,800</b>
Cross St W - Eliz Cr to Tamarac	2026		372,500		409,800		-		797,300		-	<b>1,579,600</b>
George St - Cross - North to End	2027		221,200		-		-		946,700		-	<b>1,167,900</b>
Bridge Street - Queen to Maple	2030-2031		58,400		-		-		87,000		-	<b>145,400</b>
Chestnut ST W - South Cayuga to Alder	2031		84,300		-		-		180,400		-	<b>264,700</b>
Lock St - Cedar to Queen	2031		118,600		-		-		254,000		-	<b>372,600</b>
Queen Street- Chestnut to Maple	2031		103,000		-		-		400,800		-	<b>503,800</b>
Main St W - George - West to Cemetary	2031		187,300		-		-		142,900		-	<b>330,200</b>



**Haldimand  
County**

**Co-ordinated Projects**

FOR THE YEARS 2023 to 2032

Project	Timing	TAX CAPITAL						WATER AND WASTEWATER CAPITAL				Project Total
		Roads 2022 Open Projects	Roads 10 Year Forecast	Storm 2022 Open Projects	Storm 10 Year Forecast	Other 2022 Open Projects	Other 10 Year Forecast	Water 2022 Open Projects	Water 10 Year Forecast	Wastewater 2022 Open Projects	Wastewater 10 Year Forecast	
Taylor St - Broad St to Hald Rd #3	2027		175,000		-		-		374,000		-	<b>549,000</b>
<b>Hagersville</b>												
Master Servicing Plan	2023, 2028		64,800		32,400		-		64,000		64,000	<b>225,200</b>
Victoria St - Tuscarora to Main St N	2023		310,000		-		-		307,600		180,000	<b>797,600</b>
Foundry St - Tuscarora to end	2023		65,000		-		-		112,700		120,000	<b>297,700</b>
Elm Ave - Sherring to Hunter	2029		208,000		-		-		445,200		-	<b>653,200</b>
Fairfield Dr - Elm to Hunter	2029		178,300		-		-		381,500		-	<b>559,800</b>
Hunter St - Fairfield to Church	2029		172,400		-		-		381,600		-	<b>554,000</b>
Tuscarora St - King to Oneida	2023, 2025		303,000		-		-		488,000		-	<b>791,000</b>
Athens Street - Sherring to Cedar	2032		175,000		-		-		215,000		-	<b>390,000</b>
Sherring Street N - King to Marathon	2032		218,000		-		-		322,000		-	<b>540,000</b>
King St - Rail Line to Tuscarora	2023, 2025		72,000		-		-		149,000		620,000	<b>841,000</b>
Parkview/Concession 12 - Watermain Upsizing	2023, 2025		-		-		-		463,000		-	<b>463,000</b>
<b>Jarvis</b>												
Master Servicing Plan	2025, 2031		35,000		35,000		-		46,500		34,900	<b>151,400</b>
Walpole St - Monson to Talbot	2022-2024	15,000	152,300	15,000	420,300		-	15,000	354,500	15,000	101,900	<b>1,089,000</b>
Keen St	2022-2024	10,000	42,000		-		-	10,000	89,900		-	<b>151,900</b>
Peel St E - Main to Craddock	2022-2024	30,000	293,200		-		-	45,000	626,100	35,000	430,800	<b>1,460,100</b>
<b>Lake Erie Industrial Park</b>												
Master Servicing Plan	2027		56,600		34,000		-		50,000		50,000	<b>190,600</b>
<b>County Wide</b>												
Asbestos Annual Inspection and Remediation	2022-2032		-		-	9,500	108,800	3,100	35,700	4,000	45,900	<b>207,000</b>
CCTV Inspection Program	2022-2032		-	25,000	287,100		-		-	60,000	679,230	<b>1,051,330</b>
Facility Condition Assessments	2022-2032		-		-		539,600		110,500	25,000	113,400	<b>788,500</b>
Project Management Support	2022-2026		-		-		-	70,000	290,650	70,000	290,700	<b>721,350</b>
SCADA Master Plan	2026		-		-		-		38,600		38,600	<b>77,200</b>
SCADA Maintenance	2022-2032		-		-		-	30,000	344,800	20,000	229,700	<b>624,500</b>
SCADA Technical Support	2022-2032		-		-		-	40,000	459,400	40,000	459,400	<b>998,800</b>
<b>Total - Rate Supported Capital Co-ordinated</b>		<b>280,000</b>	<b>6,686,100</b>	<b>40,000</b>	<b>2,075,100</b>	<b>9,500</b>	<b>648,400</b>	<b>213,100</b>	<b>12,796,250</b>	<b>269,000</b>	<b>3,677,330</b>	<b>26,694,780</b>

**Note** - does not include prior year closed projects or prior year open projects with no impact in 2023-2032.





HALDIMAND COUNTY  
2023 to 2032 CAPITAL FORECAST

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
<b>Water Summary</b>																	
Water Administration	290,000	40,000	35,800	100,000			153,000	2,950,600		116,000	3,685,400	(2,939,000)			(746,400)		(3,685,400)
Water Treatment General	10,058,400	53,379,650	811,330	805,480	633,360	2,845,360	1,669,570	1,552,600	1,736,120	1,792,180	75,284,050	(3,256,910)	(62,415,800)	(3,285,010)	(6,326,330)		(75,284,050)
Water Distribution/Transmission	3,574,000	6,700,930	9,286,500	4,298,930	1,530,920	1,485,360	1,404,360	11,172,920	1,218,040	764,930	41,436,890	(11,694,750)	(832,700)	(20,900,050)	(8,009,390)		(41,436,890)
Water Technical Reviews and	30,000	25,000	21,500	50,000	50,000	34,000	34,800	29,000	25,000		299,300			(299,300)			(299,300)
<b>Total Water</b>	<b>13,952,400</b>	<b>60,145,580</b>	<b>10,155,130</b>	<b>5,254,410</b>	<b>2,214,280</b>	<b>4,364,720</b>	<b>3,261,730</b>	<b>15,705,120</b>	<b>2,979,160</b>	<b>2,673,110</b>	<b>120,705,640</b>	<b>(17,890,660)</b>	<b>(63,248,500)</b>	<b>(24,484,360)</b>	<b>(15,082,120)</b>		<b>(120,705,640)</b>
<b>Wastewater Summary</b>																	
Wastewater Collection/Conveyance	984,100	1,023,880	3,063,820	3,538,120	414,480	593,300	439,290	615,340	384,760	182,650	11,239,740			(3,932,200)	(7,307,540)		(11,239,740)
Wastewater Treatment and Disposal	7,827,500	1,828,800	47,467,730	1,552,480	757,760	2,632,160	2,801,550	2,872,510	2,940,630	2,901,840	73,582,960			(52,497,550)	(21,085,410)		(73,582,960)
Wastewater Technical reviews and St	30,000	300,000	16,200	50,000	50,000	34,000	34,800	29,000	18,700		562,700			(287,700)	(275,000)		(562,700)
<b>Total Wastewater</b>	<b>8,841,600</b>	<b>3,152,680</b>	<b>50,547,750</b>	<b>5,140,600</b>	<b>1,222,240</b>	<b>3,259,460</b>	<b>3,275,640</b>	<b>3,516,850</b>	<b>3,344,090</b>	<b>3,084,490</b>	<b>85,385,400</b>			<b>(56,717,450)</b>	<b>(28,667,950)</b>		<b>(85,385,400)</b>
<b>Total Water and Wastewater</b>	<b>22,794,000</b>	<b>63,298,260</b>	<b>60,702,880</b>	<b>10,395,010</b>	<b>3,436,520</b>	<b>7,624,180</b>	<b>6,537,370</b>	<b>19,221,970</b>	<b>6,323,250</b>	<b>5,757,600</b>	<b>206,091,040</b>	<b>(17,890,660)</b>	<b>(63,248,500)</b>	<b>(81,201,810)</b>	<b>(43,750,070)</b>		<b>(206,091,040)</b>
<b>Funding</b>																	
<b>Water Summary</b>																	
Grants/Subsidies		1,070,500		2,453,000	1,320,700	326,550	1,442,710	8,602,170	1,720,550	954,480	17,890,660						
General Recoveries	8,654,200	52,363,800	1,050,300	404,200	160,800	151,700	92,800	173,200	97,500	100,000	63,248,500						
Development Charges	1,603,000	5,489,700	7,243,500	1,748,300	152,900	2,280,550	252,140	5,215,910	251,610	246,750	24,484,360						
Reserve/Reserve Funds	3,695,200	1,221,580	1,861,330	648,910	579,880	1,605,920	1,474,080	1,713,840	909,500	1,371,880	15,082,120						
Debenture Financing																	
<b>Total Water</b>	<b>13,952,400</b>	<b>60,145,580</b>	<b>10,155,130</b>	<b>5,254,410</b>	<b>2,214,280</b>	<b>4,364,720</b>	<b>3,261,730</b>	<b>15,705,120</b>	<b>2,979,160</b>	<b>2,673,110</b>	<b>120,705,640</b>						
<b>Wastewater Summary</b>																	
Grants/Subsidies																	
General Recoveries																	
Development Charges	5,165,900	528,800	45,956,500	3,221,600	232,800	381,400	316,800	345,100	303,550	265,000	56,717,450						
Reserve/Reserve Funds	3,675,700	2,623,880	4,591,250	1,919,000	989,440	2,878,060	2,958,840	3,171,750	3,040,540	2,819,490	28,667,950						
Debenture Financing																	
<b>Total Wastewater</b>	<b>8,841,600</b>	<b>3,152,680</b>	<b>50,547,750</b>	<b>5,140,600</b>	<b>1,222,240</b>	<b>3,259,460</b>	<b>3,275,640</b>	<b>3,516,850</b>	<b>3,344,090</b>	<b>3,084,490</b>	<b>85,385,400</b>						
<b>Total Water and Wastewater</b>	<b>22,794,000</b>	<b>63,298,260</b>	<b>60,702,880</b>	<b>10,395,010</b>	<b>3,436,520</b>	<b>7,624,180</b>	<b>6,537,370</b>	<b>19,221,970</b>	<b>6,323,250</b>	<b>5,757,600</b>	<b>206,091,040</b>						



## HALDIMAND COUNTY

### 2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Administration	290,000	40,000	35,800	100,000			153,000	2,950,600		116,000	3,685,400	(2,939,000)			(746,400)		(3,685,400)
<b>Total Water Administration</b>	<b>290,000</b>	<b>40,000</b>	<b>35,800</b>	<b>100,000</b>			<b>153,000</b>	<b>2,950,600</b>		<b>116,000</b>	<b>3,685,400</b>	<b>(2,939,000)</b>			<b>(746,400)</b>		<b>(3,685,400)</b>
Dunnville Water Treatment Plant	701,700	570,200	200,400	43,200	66,300	2,308,900	92,800	125,500	128,000		4,237,000		(17,300)	(2,104,000)	(2,115,700)		(4,237,000)
Nanticoke Water Treatment Plant	9,216,100	52,691,550	463,200	599,800	411,800	406,400	227,500	320,300	239,000	245,100	64,820,750		(62,398,500)	(525,100)	(1,897,150)		(64,820,750)
Water Treatment General	140,600	117,900	147,730	162,480	155,260	130,060	1,349,270	1,106,800	1,369,120	1,547,080	6,226,300	(3,256,910)		(655,910)	(2,313,480)		(6,226,300)
<b>Total Water Treatment</b>	<b>10,058,400</b>	<b>53,379,650</b>	<b>811,330</b>	<b>805,480</b>	<b>633,360</b>	<b>2,845,360</b>	<b>1,669,570</b>	<b>1,552,600</b>	<b>1,736,120</b>	<b>1,792,180</b>	<b>75,284,050</b>	<b>(3,256,910)</b>	<b>(62,415,800)</b>	<b>(3,285,010)</b>	<b>(6,326,330)</b>		<b>(75,284,050)</b>
Caledonia Water Distribution	702,800	927,800	8,201,800	3,316,900	5,700	435,400	3,000	10,960,300			24,553,700	(6,985,650)		(15,490,050)	(2,078,000)		(24,553,700)
Cayuga Water Distribution			12,900		15,000	893,500		14,700		20,000	956,100				(956,100)		(956,100)
Dunnville Water Distribution	253,000			797,300	1,326,400				1,065,100		3,441,800	(3,002,700)			(439,100)		(3,441,800)
Hagersville Water Distribution	1,556,700	4,521,000	940,000			14,500	1,208,300			537,000	8,777,500	(635,900)	(832,700)	(5,410,000)	(1,898,900)		(8,777,500)
Jarvis Water Distribution	95,000	1,081,500		5,500							1,182,000	(1,070,500)			(111,500)		(1,182,000)
Townsend Water Distribution	800,000										800,000				(800,000)		(800,000)
Water Distribution General	166,500	170,630	131,800	179,230	183,820	141,960	193,060	197,920	152,940	207,930	1,725,790				(1,725,790)		(1,725,790)
<b>Total Water Distribution/Transmission</b>	<b>3,574,000</b>	<b>6,700,930</b>	<b>9,286,500</b>	<b>4,298,930</b>	<b>1,530,920</b>	<b>1,485,360</b>	<b>1,404,360</b>	<b>11,172,920</b>	<b>1,218,040</b>	<b>764,930</b>	<b>41,436,890</b>	<b>(11,694,750)</b>	<b>(832,700)</b>	<b>(20,900,050)</b>	<b>(8,009,390)</b>		<b>(41,436,890)</b>
Caledonia Water Technical Reviews and Studies				50,000							50,000			(50,000)			(50,000)
Cayuga Water Technical Reviews and Studies		25,000						29,000			54,000			(54,000)			(54,000)
Dunnville Water Technical Reviews and Studies	30,000						34,800				64,800			(64,800)			(64,800)
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						50,000			(50,000)			(50,000)



**HALDIMAND COUNTY**  
2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
<b>Total Water Technical Reviews and Studies</b>	30,000	25,000	21,500	50,000	50,000	34,000	34,800	29,000	25,000		299,300			(299,300)			(299,300)
<b>Total Water</b>	13,952,400	60,145,580	10,155,130	5,254,410	2,214,280	4,364,720	3,261,730	15,705,120	2,979,160	2,673,110	120,705,640	(17,890,660)	(63,248,500)	(24,484,360)	(15,082,120)		(120,705,640)

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



## HALDIMAND COUNTY

### 2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Administration	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
<b>Water Administration</b>																	
<b>Replacement/State of Good Repair</b>																	
441004 WWW Financial Plan Update (O. Reg. 453/07)			10,800					11,600			22,400				(22,400)		(22,400)
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	145,900			100,000			107,700			116,000	469,600				(469,600)		(469,600)
<b>Total Replacement/State of Good Repair</b>	<b>145,900</b>		<b>10,800</b>	<b>100,000</b>			<b>107,700</b>	<b>2,950,600</b>		<b>116,000</b>	<b>3,431,000</b>	<b>(2,939,000)</b>			<b>(492,000)</b>		<b>(3,431,000)</b>
<b>New/Enhanced Service</b>																	
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)
441017 Water & Wastewater E-Billing Solution	144,100										144,100				(144,100)		(144,100)
<b>Total New/Enhanced Service</b>	<b>144,100</b>	<b>40,000</b>	<b>25,000</b>				<b>45,300</b>				<b>254,400</b>				<b>(254,400)</b>		<b>(254,400)</b>
<b>Total Water Administration</b>	<b>290,000</b>	<b>40,000</b>	<b>35,800</b>	<b>100,000</b>			<b>153,000</b>	<b>2,950,600</b>		<b>116,000</b>	<b>3,685,400</b>	<b>(2,939,000)</b>			<b>(746,400)</b>		<b>(3,685,400)</b>
<b>Total Water Administration</b>	<b>290,000</b>	<b>40,000</b>	<b>35,800</b>	<b>100,000</b>			<b>153,000</b>	<b>2,950,600</b>		<b>116,000</b>	<b>3,685,400</b>	<b>(2,939,000)</b>			<b>(746,400)</b>		<b>(3,685,400)</b>



## HALDIMAND COUNTY

### 2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Treatment	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
<b>Dunnville Water Treatment Plant</b>																	
<b>Replacement/State of Good Repair</b>																	
456033 Backwash Pump #1 Refurb	56,400										56,400				(56,400)		(56,400)
456034 Backwash Pump #2 Refurb		57,800									57,800				(57,800)		(57,800)
456036 Chem Feed System Replacements	25,000		26,300			28,300			30,500		110,100				(110,100)		(110,100)
476002 Granular Activated Carbon change out	80,000	80,000	84,100			200,000	92,800	95,100	97,500		729,500				(729,500)		(729,500)
476026 WTP SCADA Computer & Network Replmt			26,900					30,400			57,300			(11,900)	(45,400)		(57,300)
476029 WTP PLC Replacements	215,300										215,300			(45,300)	(170,000)		(215,300)
476032 Remotes PLC Replacements		54,600									54,600			(11,500)	(43,100)		(54,600)
476035 Port Maitland Raw Water Intake Repairs	225,000										225,000		(17,300)		(207,700)		(225,000)
476053 Dunnville WTP Roof Replacement		250,000									250,000				(250,000)		(250,000)
476080 Raw Water Supply Valve Chamber Refurb	15,000	15,400	15,800	16,200	16,600	17,000					96,000				(96,000)		(96,000)
476081 Dunn WTP Analyzer(s) Replacement/Upgrade	20,000		21,000		22,100						63,100				(63,100)		(63,100)
476082 Dunn WTP Sluce Gates/Actuators Refurbish/Replace Filters 1 and 2	40,000										40,000				(40,000)		(40,000)
476083 Dunn WTP Mechanical, Valve repalcement and Chamber Repairs	25,000	25,600	26,300	27,000	27,600	28,300					159,800				(159,800)		(159,800)
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)
<b>Total Replacement/State of Good Repair</b>	<b>701,700</b>	<b>570,200</b>	<b>200,400</b>	<b>43,200</b>	<b>66,300</b>	<b>273,600</b>	<b>92,800</b>	<b>125,500</b>	<b>128,000</b>		<b>2,201,700</b>			<b>(17,300)</b>	<b>(68,700)</b>	<b>(2,115,700)</b>	<b>(2,201,700)</b>
<b>New/Enhanced Service</b>																	
476033 WTP Reservoir Expansion						2,035,300					2,035,300			(2,035,300)			(2,035,300)
<b>Total New/Enhanced Service</b>						<b>2,035,300</b>					<b>2,035,300</b>			<b>(2,035,300)</b>			<b>(2,035,300)</b>



## HALDIMAND COUNTY

### 2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Treatment	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debtenture Financing	Total Financing
<b>Total Dunnville Water Treatment Plant</b>	701,700	570,200	200,400	43,200	66,300	2,308,900	92,800	125,500	128,000		4,237,000		(17,300)	(2,104,000)	(2,115,700)		(4,237,000)
Nanticoke Water Treatment Plant																	
<b>Replacement/State of Good Repair</b>																	
479002 Nant - WTP Lagoon Clean Out	46,100	47,300	48,500	49,700	50,900	52,200	53,500	54,800	56,200	57,600	516,800				(516,800)		(516,800)
479003 Stelco IPS Operating Capital	40,000	41,000	42,000	43,100	44,200	45,300	46,400	47,600	48,700	50,000	448,300		(448,300)				(448,300)
479004 Imperial Oil IPS Operating Capital	40,000	41,000	42,000	43,100	44,200	45,300	46,400	47,600	48,800	50,000	448,400		(448,400)				(448,400)
479011 SCADA Computer & Network Replmt					28,300						28,300				(28,300)		(28,300)
479046 Imperial Oil GENSET Diesel Fuel Pump	90,000										90,000		(90,000)				(90,000)
479055 Stelco Transmission Main Leak Detection	150,000										150,000		(150,000)				(150,000)
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						26,300					26,300				(26,300)		(26,300)
479071 Nanticoke WTP Intake Annual Site Maintenance & Inspections		75,000			80,800			87,000			242,800		(217,600)		(25,200)		(242,800)
479075 Reservoir Valvehouse AHU		136,600									136,600				(136,600)		(136,600)
479081 Nanticoke IPS Isolation Valve Replacements	30,000										30,000		(30,000)				(30,000)
479082 Nanticoke Transmission Main Valve Replacements		21,000	20,000	20,500	21,000	21,500					104,000				(104,000)		(104,000)
479100 Nant WTP Lab/Analyzer Equipment Replacement	15,000	15,400		16,200		17,000					63,600				(63,600)		(63,600)
479101 Nant WTP Valve House Dewatering Pump, Guiderails & Bracket Refurb	50,000										50,000				(50,000)		(50,000)
479102 Nant WTP Facility Security Perimeter Fencing & Gate Repairs	20,000	20,500									40,500				(40,500)		(40,500)
479103 Nant WTP Highlift Electrical Switchgear Replacement	275,000										275,000				(275,000)		(275,000)
479104 Nant WTP Highlift Generator TSSA Required Upgrades	120,000										120,000				(120,000)		(120,000)
479106 Nant IPS Intake Screen Refurbishment		25,000									25,000		(22,500)		(2,500)		(25,000)



## HALDIMAND COUNTY

### 2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Treatment	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debtenture Financing	Total Financing
<b>Nanticoke Water Treatment Plant</b>																	
479107 Nant IPS Pump #8 Motor Refurbishment		15,000									15,000		(15,000)				(15,000)
479108 Nant IPS Hydro Transformers/Substations Refurbishment		61,500		64,600		67,900					194,000		(174,550)		(19,450)		(194,000)
479109 Nant IPS Pressure Relief Valve Replacement	25,000										25,000		(25,000)				(25,000)
479110 Nant Transmission Line Chamber Refurbishment	20,000	20,500	21,000	21,500	22,100	22,600					127,700				(127,700)		(127,700)
479111 Nant IPS Main MV MCP Sections Refurbishment (2)			200,000	205,000							405,000		(364,500)		(40,500)		(405,000)
479112 Nant IPS Generator Replacement	80,000										80,000		(72,000)		(8,000)		(80,000)
479113 Nant WTP Highlift Lower Garage Access Reconstruction	80,000										80,000				(80,000)		(80,000)
479114 Nant WTP High Lift Generator New Electric Governor and Controller	65,000										65,000				(65,000)		(65,000)
<b>Total Replacement/State of Good Repair</b>	<b>1,146,100</b>	<b>519,800</b>	<b>389,700</b>	<b>524,400</b>	<b>334,500</b>	<b>327,100</b>	<b>146,300</b>	<b>237,000</b>	<b>153,700</b>	<b>157,600</b>	<b>3,936,200</b>		<b>(2,057,850)</b>	<b>(31,200)</b>	<b>(1,847,150)</b>		<b>(3,936,200)</b>
<b>New/Enhanced Service</b>																	
479070 Nanticoke WTP Intake Source Protection Measurers		100,000									100,000		(50,000)		(50,000)		(100,000)
479073 Nanticoke WTP Capacity Expansion	8,000,000	52,000,000									60,000,000		(60,000,000)				(60,000,000)
479099 Project Management Support [WW]	70,000	71,750	73,500	75,400	77,300	79,300	81,200	83,300	85,300	87,500	784,550		(290,650)	(493,900)			(784,550)
<b>Total New/Enhanced Service</b>	<b>8,070,000</b>	<b>52,171,750</b>	<b>73,500</b>	<b>75,400</b>	<b>77,300</b>	<b>79,300</b>	<b>81,200</b>	<b>83,300</b>	<b>85,300</b>	<b>87,500</b>	<b>60,884,550</b>		<b>(60,340,650)</b>	<b>(493,900)</b>	<b>(50,000)</b>		<b>(60,884,550)</b>
<b>Total Nanticoke Water Treatment Plant</b>	<b>9,216,100</b>	<b>52,691,550</b>	<b>463,200</b>	<b>599,800</b>	<b>411,800</b>	<b>406,400</b>	<b>227,500</b>	<b>320,300</b>	<b>239,000</b>	<b>245,100</b>	<b>64,820,750</b>		<b>(62,398,500)</b>	<b>(525,100)</b>	<b>(1,897,150)</b>		<b>(64,820,750)</b>
<b>Water Treatment General</b>																	
<b>Replacement/State of Good Repair</b>																	
471003 Facility Condition Assessment [WW]	25,600		26,900		28,300		29,700				110,500				(110,500)		(110,500)
471004 SCADA Master Plan				38,600							38,600			(8,100)	(30,500)		(38,600)
471007 SCADA Maintenance	30,800	31,600	32,400	33,200	34,000	34,800	35,600	36,600	37,400	38,400	344,800			(72,500)	(272,300)		(344,800)

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



**HALDIMAND COUNTY**  
2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Treatment	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
<b>Water Treatment General</b>																	
471009 Water Operating Capital	40,000	41,000	42,030	43,080	44,160	45,260	46,390	47,550	48,740	49,960	<b>448,170</b>				(448,170)		<b>(448,170)</b>
471010 Asbestos Annual Inspection and Remediation [WW]	3,200	3,300	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	<b>35,700</b>				(35,700)		<b>(35,700)</b>
471012 SCADA Technical Support	41,000	42,000	43,100	44,200	45,300	46,400	47,500	48,700	50,000	51,200	<b>459,400</b>			(96,400)	(363,000)		<b>(459,400)</b>
471017 Plant Capital Improvements							1,186,380	970,150	1,229,080	1,403,520	<b>4,789,130</b>	(3,256,910)		(478,910)	(1,053,310)		<b>(4,789,130)</b>
<b>Total Replacement/State of Good Repair</b>	<b>140,600</b>	<b>117,900</b>	<b>147,730</b>	<b>162,480</b>	<b>155,260</b>	<b>130,060</b>	<b>1,349,270</b>	<b>1,106,800</b>	<b>1,369,120</b>	<b>1,547,080</b>	<b>6,226,300</b>	<b>(3,256,910)</b>		<b>(655,910)</b>	<b>(2,313,480)</b>		<b>(6,226,300)</b>
<b>Total Water Treatment General</b>	<b>140,600</b>	<b>117,900</b>	<b>147,730</b>	<b>162,480</b>	<b>155,260</b>	<b>130,060</b>	<b>1,349,270</b>	<b>1,106,800</b>	<b>1,369,120</b>	<b>1,547,080</b>	<b>6,226,300</b>	<b>(3,256,910)</b>		<b>(655,910)</b>	<b>(2,313,480)</b>		<b>(6,226,300)</b>
<b>Total Water Treatment</b>	<b>10,058,400</b>	<b>53,379,650</b>	<b>811,330</b>	<b>805,480</b>	<b>633,360</b>	<b>2,845,360</b>	<b>1,669,570</b>	<b>1,552,600</b>	<b>1,736,120</b>	<b>1,792,180</b>	<b>75,284,050</b>	<b>(3,256,910)</b>	<b>(62,415,800)</b>	<b>(3,285,010)</b>	<b>(6,326,330)</b>		<b>(75,284,050)</b>

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



# HALDIMAND COUNTY

## 2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Distribution/Transmission	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032							
<b>Caledonia Water Distribution</b>																	
<b>Replacement/State of Good Repair</b>																	
472005	Elevated Storage Tank Replacement					435,400		7,590,100				8,025,500	(4,306,650)		(3,257,550)	(461,300)	(8,025,500)
472010	Forfar St. Storage Building Roof Replacement						3,000					3,000				(3,000)	(3,000)
472011	Reservoir--SCADA Computer & Network Replmt			21,600					24,400			46,000				(46,000)	(46,000)
472018	Booster Station PLC Replacements			40,900								40,900		(8,600)		(32,300)	(40,900)
472021	Caledonia Reservoir Roof Rehab						5,700					5,700				(5,700)	(5,700)
472022	Caledonia Standpipe Building Roof Repairs	10,200										10,200				(10,200)	(10,200)
472025	Booster Station Upgrades				1,655,700							1,655,700	(1,655,700)				(1,655,700)
472029	Caithness Street - Cameron to Argyle [CIW] [R] [SS]								1,023,300			1,023,300	(1,023,300)				(1,023,300)
472031	Aberdeen St - Burke to Sutherland [CIW] [R]			115,300								115,300				(115,300)	(115,300)
472032	Gypsum Ave - Argyle to End [CIW] [R] [SS]			161,300								161,300				(161,300)	(161,300)
472033	Inverness St - Caithness St to Sutherland [CIW] [R] [SS]			201,700								201,700				(201,700)	(201,700)
472034	Inverness St - Sutherland to Orkney [CIW] [R]			241,900								241,900				(241,900)	(241,900)
472035	Sutherland St W - Shetland to Inverness [CIW] [R]			230,500								230,500				(230,500)	(230,500)
472036	Shetland St - Caithness St to Sutherland [CIW] [R]								208,500			208,500				(208,500)	(208,500)
472037	Nairne St - Sutherland to Orkney [CIW] [R]								280,300			280,300				(280,300)	(280,300)
472039	240-246 Caithness St W - Water Laterals [W] [STR]	40,000										40,000				(40,000)	(40,000)
472040	286 Caithness St E - Water Laterals [R] [WW]	40,000										40,000				(40,000)	(40,000)
<b>Total Replacement/State of Good Repair</b>		<b>90,200</b>		<b>1,013,200</b>	<b>1,655,700</b>	<b>5,700</b>	<b>435,400</b>	<b>3,000</b>	<b>9,126,600</b>			<b>12,329,800</b>	<b>(6,985,650)</b>		<b>(3,266,150)</b>	<b>(2,078,000)</b>	<b>(12,329,800)</b>
<b>New/Enhanced Service</b>																	

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



# HALDIMAND COUNTY

## 2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Distribution/Transmission	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032							
<b>Caledonia Water Distribution</b>																	
472020 North Water Storage Expansion	612,600	927,800	7,188,600								8,729,000			(8,729,000)		(8,729,000)	
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)	
<b>Total New/Enhanced Service</b>	<b>612,600</b>	<b>927,800</b>	<b>7,188,600</b>	<b>1,661,200</b>				<b>1,833,700</b>			<b>12,223,900</b>			<b>(12,223,900)</b>		<b>(12,223,900)</b>	
<b>Total Caledonia Water Distribution</b>	<b>702,800</b>	<b>927,800</b>	<b>8,201,800</b>	<b>3,316,900</b>	<b>5,700</b>	<b>435,400</b>	<b>3,000</b>	<b>10,960,300</b>			<b>24,553,700</b>	<b>(6,985,650)</b>		<b>(15,490,050)</b>	<b>(2,078,000)</b>	<b>(24,553,700)</b>	
<b>Cayuga Water Distribution</b>																	
<b>Replacement/State of Good Repair</b>																	
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 Mohawk Street West - Munsee to Ottawa [CIW] [R]						161,300					161,300			(161,300)		(161,300)	
475026 Norton Street West - Munsee to Ottawa [CIW] [R]						161,300					161,300			(161,300)		(161,300)	
475029 Mohawk St E - Munsee to Winnet [CIW] [R]						155,100					155,100			(155,100)		(155,100)	
475030 Ottawa St N - Talbot to Kerr [CIW] [R]						117,900					117,900			(117,900)		(117,900)	
475031 Ottawa St N - Kerr to Mohawk [CIW] [R]						142,800					142,800			(142,800)		(142,800)	
475032 Talbot St W - Alley behind Back 40 [CIW] [R]						155,100					155,100			(155,100)		(155,100)	
<b>Total Replacement/State of Good Repair</b>			<b>12,900</b>		<b>15,000</b>	<b>893,500</b>		<b>14,700</b>		<b>20,000</b>	<b>956,100</b>			<b>(956,100)</b>		<b>(956,100)</b>	
<b>Total Cayuga Water Distribution</b>			<b>12,900</b>		<b>15,000</b>	<b>893,500</b>		<b>14,700</b>		<b>20,000</b>	<b>956,100</b>			<b>(956,100)</b>		<b>(956,100)</b>	
<b>Dunnville Water Distribution</b>																	
<b>Replacement/State of Good Repair</b>																	
476030 Alley way - Broad to Central Lane [CIW] [R]	160,000										160,000			(160,000)		(160,000)	

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



# HALDIMAND COUNTY

## 2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debt/ure Financing	Total Financing	
Water Distribution/Transmission	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032								
<b>Dunnville Water Distribution</b>																		
476031 Main St E - 710 Main E to 50 m south [CIW] [R]	71,800										71,800				(71,800)	(71,800)		
476037 Dunnville Bulk Water Depot Roof Repairs					5,700						5,700				(5,700)	(5,700)		
476039 Dunnville Standpipe Building Roof Repairs	10,200										10,200				(10,200)	(10,200)		
476041 Chestnut ST W - South Cayuga to Alder [CIW] [R]									180,400		180,400				(180,400)	(180,400)		
476043 Cross Street - Pine to Tamarac [CIW] [R] [SS]				637,800							637,800	(637,800)				(637,800)		
476044 Lock St - Cedar to Queen [CIW] [R]									254,000		254,000	(254,000)				(254,000)		
476045 Bridge Street - Queen to Maple [CIW] [R]									87,000		87,000	(87,000)				(87,000)		
476046 Queen Street- Chestnut to Maple [CIW] [R]									142,900		142,900	(142,900)				(142,900)		
476049 Cross St W - Eliz Cr to Pine [CIW] [R] [SS]				159,500							159,500	(159,500)				(159,500)		
476050 George St - Cross - North to End [CIW] [R]					946,700						946,700	(946,700)				(946,700)		
476051 Main St W - George - West to Cemetary [CIW] [R]									400,800		400,800	(400,800)				(400,800)		
476052 Taylor St - Relocation of Watermain [CIW] [R]					374,000						374,000	(374,000)				(374,000)		
476087 Security Camera Replacement - Dunnville Water Depot	11,000										11,000				(11,000)	(11,000)		
<b>Total Replacement/State of Good Repair</b>	<b>253,000</b>			<b>797,300</b>	<b>1,326,400</b>				<b>1,065,100</b>		<b>3,441,800</b>	<b>(3,002,700)</b>			<b>(439,100)</b>	<b>(3,441,800)</b>		
<b>Total Dunnville Water Distribution</b>	<b>253,000</b>			<b>797,300</b>	<b>1,326,400</b>				<b>1,065,100</b>		<b>3,441,800</b>	<b>(3,002,700)</b>			<b>(439,100)</b>	<b>(3,441,800)</b>		
<b>Hagersville Water Distribution</b>																		
<b>Replacement/State of Good Repair</b>																		
473001 Booster Stn Roof Replacement						5,800					5,800				(5,800)	(5,800)		
473003 Hagersville Tuscarora St Operations Building Roof						2,900					2,900				(2,900)	(2,900)		

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



# HALDIMAND COUNTY

## 2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing	
Water Distribution/Transmission	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032								
<b>Hagersville Water Distribution</b>																		
473006	Victoria St - Tuscarora to Main St N [CIW] [R]	307,600										307,600					(307,600)	(307,600)
473007	Foundry St - Tuscarora to end[CIW] [R]	112,700										112,700					(112,700)	(112,700)
473008	Hagersville Rechlorination Building Roof Repairs	10,300										10,300					(10,300)	(10,300)
473010	Hagersville Standpipe Building Roof Repairs					5,800						5,800					(5,800)	(5,800)
473012	Fairfield Dr - Elm to Hunter [CIW] [R]						381,500					381,500	(381,500)					(381,500)
473013	Hunter St - King to Church [CIW] [R]						254,400					254,400	(254,400)					(254,400)
473015	Hunter St - Fairfield to King [CIW] [R]						127,200					127,200					(127,200)	(127,200)
473016	Elm Ave - Sherring to Fairfield [CIW] [R]						152,600					152,600					(152,600)	(152,600)
473017	Elm Ave - Fairfield to Hunter [CIW] [R]						292,600					292,600					(292,600)	(292,600)
473018	Hagersville Booster Station Isolation Valve Replace	25,600										25,600					(25,600)	(25,600)
473023	Athens Street - Sherring to Cedar [CIW] [R]									215,000		215,000					(215,000)	(215,000)
473024	Sherring Street N - King to Marathon [CIW] [R]									322,000		322,000					(322,000)	(322,000)
473025	Tuscarora St - King to Oneida [CIW] [R] [WW]	70,000		418,000								488,000	(288,100)				(199,900)	(488,000)
473026	Security Camera Replacement - Hagersville Water & Wastewater Shop	5,500										5,500					(5,500)	(5,500)
473027	Security Camera Replacement - Hagersville Water Depot		11,000									11,000					(11,000)	(11,000)
473028	King St - Rail Line to Tuscarora [CIW] [R] [WW]	28,000		121,000								149,000	(104,200)				(44,800)	(149,000)
473029	Parkview/Concession 12 - Watermain Upsizing	62,000		401,000								463,000	(440,400)				(22,600)	(463,000)
479105	Hagersville Booster Station Generator TSSA Required Upgrades	35,000										35,000					(35,000)	(35,000)
<b>Total Replacement/State of Good Repair</b>		<b>656,700</b>	<b>11,000</b>	<b>940,000</b>		<b>14,500</b>	<b>1,208,300</b>			<b>537,000</b>		<b>3,367,500</b>	<b>(635,900)</b>	<b>(832,700)</b>			<b>(1,898,900)</b>	<b>(3,367,500)</b>
<b>New/Enhanced Service</b>																		

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



## HALDIMAND COUNTY

2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget Water Distribution/Transmission	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debtenture Financing	Total Financing
<b>Hagersville Water Distribution</b>																	
473019 Hwy #6 Transmission Main Twinning	900,000	4,510,000									5,410,000			(5,410,000)			(5,410,000)
<b>Total New/Enhanced Service</b>	<b>900,000</b>	<b>4,510,000</b>									<b>5,410,000</b>			<b>(5,410,000)</b>			<b>(5,410,000)</b>
<b>Total Hagersville Water Distribution</b>	<b>1,556,700</b>	<b>4,521,000</b>	<b>940,000</b>			<b>14,500</b>	<b>1,208,300</b>			<b>537,000</b>	<b>8,777,500</b>	<b>(635,900)</b>	<b>(832,700)</b>	<b>(5,410,000)</b>	<b>(1,898,900)</b>		<b>(8,777,500)</b>
<b>Jarvis Water Distribution</b>																	
<b>Replacement/State of Good Repair</b>																	
474002 Jarvis Bulk Water Depot Roof Repairs				5,500							5,500				(5,500)		(5,500)
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 Peel St - Walpole to End [CIW] [R]		197,500									197,500	(197,500)					(197,500)
474007 Peel St E - Main to Walpole [CIW] [R]		231,100									231,100	(231,100)					(231,100)
474008 Peel St E - Craddock to End [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)
474010 Heat Pad Boiler Replacement - Jarvis Water Depot	25,000										25,000				(25,000)		(25,000)
474011 Asphalt Replacement - Jarvis Water Depot	70,000										70,000				(70,000)		(70,000)
<b>Total Replacement/State of Good Repair</b>	<b>95,000</b>	<b>1,081,500</b>		<b>5,500</b>							<b>1,182,000</b>	<b>(1,070,500)</b>			<b>(111,500)</b>		<b>(1,182,000)</b>
<b>Total Jarvis Water Distribution</b>	<b>95,000</b>	<b>1,081,500</b>		<b>5,500</b>							<b>1,182,000</b>	<b>(1,070,500)</b>			<b>(111,500)</b>		<b>(1,182,000)</b>
<b>Townsend Water Distribution</b>																	
<b>Replacement/State of Good Repair</b>																	
477001 Townsend Standpipe Coating Maintenance	800,000										800,000				(800,000)		(800,000)
<b>Total Replacement/State of Good Repair</b>	<b>800,000</b>										<b>800,000</b>				<b>(800,000)</b>		<b>(800,000)</b>
<b>Total Townsend Water Distribution</b>	<b>800,000</b>										<b>800,000</b>				<b>(800,000)</b>		<b>(800,000)</b>

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



## HALDIMAND COUNTY

### 2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Water Distribution/Transmission	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032							
Water Distribution General																	
<b>Replacement/State of Good Repair</b>																	
471005 Distribution System - Annual Repair & Replac't	85,000	87,130	89,300	91,530	93,820	96,160	98,560	101,020	103,540	106,130	<b>952,190</b>				(952,190)	<b>(952,190)</b>	
471008 Distribution Leak Detection Program	20,000	20,500	21,000	21,500	22,100	22,600	23,200	23,800	24,400	25,000	<b>224,100</b>				(224,100)	<b>(224,100)</b>	
471020 Cast Iron Watermain Engineering	61,500	63,000	21,500	66,200	67,900	23,200	71,300	73,100	25,000	76,800	<b>549,500</b>				(549,500)	<b>(549,500)</b>	
<b>Total Replacement/State of Good Repair</b>	<b>166,500</b>	<b>170,630</b>	<b>131,800</b>	<b>179,230</b>	<b>183,820</b>	<b>141,960</b>	<b>193,060</b>	<b>197,920</b>	<b>152,940</b>	<b>207,930</b>	<b>1,725,790</b>				<b>(1,725,790)</b>	<b>(1,725,790)</b>	
<b>Total Water Distribution General</b>	<b>166,500</b>	<b>170,630</b>	<b>131,800</b>	<b>179,230</b>	<b>183,820</b>	<b>141,960</b>	<b>193,060</b>	<b>197,920</b>	<b>152,940</b>	<b>207,930</b>	<b>1,725,790</b>				<b>(1,725,790)</b>	<b>(1,725,790)</b>	
<b>Total Water Distribution/Transmission</b>	<b>3,574,000</b>	<b>6,700,930</b>	<b>9,286,500</b>	<b>4,298,930</b>	<b>1,530,920</b>	<b>1,485,360</b>	<b>1,404,360</b>	<b>11,172,920</b>	<b>1,218,040</b>	<b>764,930</b>	<b>41,436,890</b>	<b>(11,694,750)</b>	<b>(832,700)</b>	<b>(20,900,050)</b>	<b>(8,009,390)</b>	<b>(41,436,890)</b>	



**HALDIMAND COUNTY**  
2023 to 2032 CAPITAL FORECAST

FIR Category: Water Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debt/ure Financing	Total Financing
2023	2024	2025	2026	2027	2028	2029	2030	2031	2032								
<b>Water Technical Reviews and Studies</b>																	
Caledonia Water Technical Reviews and Studies																	
<b>Replacement/State of Good Repair</b>																	
472002	Cal - Master Servicing Plan Update [WW][R][SS]			50,000							50,000			(50,000)		(50,000)	
<b>Total Replacement/State of Good Repair</b>				50,000							50,000			(50,000)		(50,000)	
<b>Total Caledonia Water Technical Reviews and Studies</b>				50,000							50,000			(50,000)		(50,000)	
Cayuga Water Technical Reviews and Studies																	
<b>Replacement/State of Good Repair</b>																	
475017	Cay - Master Servicing Plan Update [WW][R][SS]		25,000				29,000				54,000			(54,000)		(54,000)	
<b>Total Replacement/State of Good Repair</b>			25,000				29,000				54,000			(54,000)		(54,000)	
<b>Total Cayuga Water Technical Reviews and Studies</b>			25,000				29,000				54,000			(54,000)		(54,000)	
Dunnville Water Technical Reviews and Studies																	
<b>Replacement/State of Good Repair</b>																	
476028	Dun - Master Servicing Plan Update [WW][R][SS]		30,000				34,800				64,800			(64,800)		(64,800)	
<b>Total Replacement/State of Good Repair</b>			30,000				34,800				64,800			(64,800)		(64,800)	
<b>Total Dunnville Water Technical Reviews and Studies</b>			30,000				34,800				64,800			(64,800)		(64,800)	
Hagersville Water Technical Reviews and Studies																	
<b>Replacement/State of Good Repair</b>																	
473004	Hag - Master Servicing Plan Update [WW][R][SS]						34,000				34,000			(34,000)		(34,000)	
<b>Total Replacement/State of Good Repair</b>							34,000				34,000			(34,000)		(34,000)	
<b>Total Hagersville Water Technical Reviews and Studies</b>							34,000				34,000			(34,000)		(34,000)	



**HALDIMAND COUNTY**  
2023 to 2032 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032							
Jarvis Water Technical Reviews and Studies																	
<b>Replacement/State of Good Repair</b>																	
474001 Jar - Master Servicing Plan Update [WW][R][SS]			21,500						25,000			46,500			(46,500)	(46,500)	
<b>Total Replacement/State of Good Repair</b>			21,500						25,000			46,500			(46,500)	(46,500)	
<b>Total Jarvis Water Technical Reviews and Studies</b>			21,500						25,000			46,500			(46,500)	(46,500)	
LEIP Water Technical Reviews and Studies																	
<b>Replacement/State of Good Repair</b>																	
479066 LEIP - Master Servicing Plan [WW][R][S]						50,000						50,000			(50,000)	(50,000)	
<b>Total Replacement/State of Good Repair</b>						50,000						50,000			(50,000)	(50,000)	
<b>Total LEIP Water Technical Reviews and Studies</b>						50,000						50,000			(50,000)	(50,000)	
<b>Total Water Technical Reviews and Studies</b>	30,000	25,000	21,500	50,000	50,000	34,000	34,800	29,000	25,000			299,300			(299,300)	(299,300)	

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



## HALDIMAND COUNTY

### 2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Caledonia Wastewater Collection	375,500	85,000	148,600	3,148,800	162,400	169,800	180,500	185,600	194,100		4,650,300			(2,993,500)	(1,656,800)		(4,650,300)
Cayuga Wastewater Collection	30,000		1,990,000								2,020,000			(490,100)	(1,529,900)		(2,020,000)
Dunnville Wastewater Collection		35,600	25,000								60,600				(60,600)		(60,600)
Hagersville Wastewater Collection	355,500		615,000			2,900					973,400				(973,400)		(973,400)
Jarvis Wastewater Collection		532,700			5,700						538,400			(213,100)	(325,300)		(538,400)
Oswego Park Wastewater Collection			40,000								40,000				(40,000)		(40,000)
Wastewater Collection General	223,100	370,580	245,220	389,320	246,380	420,600	258,790	429,740	190,660	182,650	2,957,040			(235,500)	(2,721,540)		(2,957,040)
<b>Total Wastewater Collection/Conveyance</b>	<b>984,100</b>	<b>1,023,880</b>	<b>3,063,820</b>	<b>3,538,120</b>	<b>414,480</b>	<b>593,300</b>	<b>439,290</b>	<b>615,340</b>	<b>384,760</b>	<b>182,650</b>	<b>11,239,740</b>			<b>(3,932,200)</b>	<b>(7,307,540)</b>		<b>(11,239,740)</b>
Caledonia Wastewater Treatment Plant	5,418,600	866,200	45,315,800	75,400	167,800	247,500	81,200	83,300	85,300	87,500	52,428,600			(50,906,300)	(1,522,300)		(52,428,600)
Cayuga Wastewater Treatment Plant	605,000	198,400	410,600		21,500	5,800					1,241,300			(40,300)	(1,201,000)		(1,241,300)
Dunnville Wastewater Treatment Plant	480,900	282,400	501,800	496,800	18,100		19,000				1,799,000				(1,799,000)		(1,799,000)
Hagersville Wastewater Treatment Plant	937,500	10,500	1,025,000		135,800	298,000			20,000		2,426,800			(402,700)	(2,024,100)		(2,426,800)
Jarvis Lagoons				472,800							472,800				(472,800)		(472,800)
LEIP Lagoons	180,000	300,000				386,300					866,300				(866,300)		(866,300)
Oswego Park Lagoons			25,000	288,900			5,900				319,800				(319,800)		(319,800)
Townsend Lagoons	25,000				215,400					448,000	688,400				(688,400)		(688,400)
Wastewater Treatment General	180,500	171,300	189,530	218,580	199,160	1,694,560	2,695,450	2,789,210	2,835,330	2,366,340	13,339,960			(1,148,250)	(12,191,710)		(13,339,960)
<b>Total Wastewater Treatment and Disposal</b>	<b>7,827,500</b>	<b>1,828,800</b>	<b>47,467,730</b>	<b>1,552,480</b>	<b>757,760</b>	<b>2,632,160</b>	<b>2,801,550</b>	<b>2,872,510</b>	<b>2,940,630</b>	<b>2,901,840</b>	<b>73,582,960</b>			<b>(52,497,550)</b>	<b>(21,085,410)</b>		<b>(73,582,960)</b>
Caledonia Wastewater Technical Reviews and Studies				50,000							50,000			(50,000)			(50,000)
Cayuga Wastewater Technical Reviews and Studies		25,000						29,000			54,000			(54,000)			(54,000)



**HALDIMAND COUNTY**  
2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Dunnville Wastewater Technical Reviews and Studies	30,000						34,800				64,800			(64,800)			(64,800)
Hagersville Wastewater Technical Reviews and Studies		275,000				34,000					309,000			(34,000)	(275,000)		(309,000)
Jarvis Wastewater Technical Reviews and Studies			16,200						18,700		34,900			(34,900)			(34,900)
LEIP Wastewater Technical Reviews and Studies					50,000						50,000			(50,000)			(50,000)
<b>Total Wastewater Technical Reviews and Studies</b>	<b>30,000</b>	<b>300,000</b>	<b>16,200</b>	<b>50,000</b>	<b>50,000</b>	<b>34,000</b>	<b>34,800</b>	<b>29,000</b>	<b>18,700</b>		<b>562,700</b>			<b>(287,700)</b>	<b>(275,000)</b>		<b>(562,700)</b>
<b>Total Wastewater</b>	<b>8,841,600</b>	<b>3,152,680</b>	<b>50,547,750</b>	<b>5,140,600</b>	<b>1,222,240</b>	<b>3,259,460</b>	<b>3,275,640</b>	<b>3,516,850</b>	<b>3,344,090</b>	<b>3,084,490</b>	<b>85,385,400</b>			<b>(56,717,450)</b>	<b>(28,667,950)</b>		<b>(85,385,400)</b>

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



# HALDIMAND COUNTY

## 2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget <b>Wastewater Collection/Conveyance</b>	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debtenture Financing	Total Financing
<b>Caledonia Wastewater Collection</b>																	
<b>Replacement/State of Good Repair</b>																	
452024 Forfar St. Storage Building Roof Replacement							3,000				3,000				(3,000)		(3,000)
452032 Nairne St. Pump Station GENSET Replacement	189,600										189,600				(189,600)		(189,600)
452053 Sanitary Sewer Relining/Repair [CIW] [W][R]	135,900		148,600	155,300	162,400	169,800	177,500	185,600	194,100		1,329,200				(1,329,200)		(1,329,200)
452064 240 - 246 Caithness St W - Sanitary [WW] [STR]	25,000										25,000				(25,000)		(25,000)
452065 286 Caithness St E - Sanitary [R] [W]	25,000										25,000				(25,000)		(25,000)
<b>Total Replacement/State of Good Repair</b>	<b>375,500</b>		<b>148,600</b>	<b>155,300</b>	<b>162,400</b>	<b>169,800</b>	<b>180,500</b>	<b>185,600</b>	<b>194,100</b>		<b>1,571,800</b>				<b>(1,571,800)</b>		<b>(1,571,800)</b>
<b>New/Enhanced Service</b>																	
452044 McClung SPS Forcemain Extension				1,330,100							1,330,100			(1,330,100)			(1,330,100)
452045 Nairne St. SPS Forcemain Extension				1,330,100							1,330,100			(1,330,100)			(1,330,100)
452046 McClung SPS Upgrades				333,300							333,300			(333,300)			(333,300)
452062 Cal McClung Sewage Pump Station VFD Installation		85,000									85,000				(85,000)		(85,000)
<b>Total New/Enhanced Service</b>		<b>85,000</b>		<b>2,993,500</b>							<b>3,078,500</b>			<b>(2,993,500)</b>	<b>(85,000)</b>		<b>(3,078,500)</b>
<b>Total Caledonia Wastewater Collection</b>	<b>375,500</b>	<b>85,000</b>	<b>148,600</b>	<b>3,148,800</b>	<b>162,400</b>	<b>169,800</b>	<b>180,500</b>	<b>185,600</b>	<b>194,100</b>		<b>4,650,300</b>			<b>(2,993,500)</b>	<b>(1,656,800)</b>		<b>(4,650,300)</b>
<b>Cayuga Wastewater Collection</b>																	
<b>Replacement/State of Good Repair</b>																	
455004 Ouse St PS Replacements	30,000		1,600,000								1,630,000			(364,000)	(1,266,000)		(1,630,000)
<b>Total Replacement/State of Good Repair</b>	<b>30,000</b>		<b>1,600,000</b>								<b>1,630,000</b>			<b>(364,000)</b>	<b>(1,266,000)</b>		<b>(1,630,000)</b>
<b>New/Enhanced Service</b>																	
455009 Ouse St Forcemain Twinning			390,000								390,000			(126,100)	(263,900)		(390,000)
<b>Total New/Enhanced Service</b>			<b>390,000</b>								<b>390,000</b>			<b>(126,100)</b>	<b>(263,900)</b>		<b>(390,000)</b>

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



# HALDIMAND COUNTY

## 2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget Wastewater Collection/Conveyance	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debtenture Financing	Total Financing
<b>Total Cayuga Wastewater Collection</b>	30,000		1,990,000								2,020,000			(490,100)	(1,529,900)		(2,020,000)
Dunnville Wastewater Collection																	
<b>Replacement/State of Good Repair</b>																	
456023 Broad St Pump Station Roof Repairs		10,600									10,600				(10,600)		(10,600)
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)
<b>Total Replacement/State of Good Repair</b>		35,600	25,000								60,600				(60,600)		(60,600)
<b>Total Dunnville Wastewater Collection</b>		35,600	25,000								60,600				(60,600)		(60,600)
Hagersville Wastewater Collection																	
<b>Replacement/State of Good Repair</b>																	
453009 Hagersville Tuscarora St Operations Building Roof						2,900					2,900				(2,900)		(2,900)
453060 Hag Walpole Sewage Pump Station Valve Replacement			15,000								15,000				(15,000)		(15,000)
453061 Security Camera Replacement - Hagersville Water & Wastewater Shop	5,500										5,500				(5,500)		(5,500)
453062 Tuscarora St - King to Oneida [CIW] [R] [WW]	20,000		600,000								620,000				(620,000)		(620,000)
453063 Foundry St - Tuscarora to end [CIW] [R] [WW]	120,000										120,000				(120,000)		(120,000)
453064 Victoria St - Tuscarora to Main St N [CIW] [R] [WW]	180,000										180,000				(180,000)		(180,000)
<b>Total Replacement/State of Good Repair</b>	325,500		615,000			2,900					943,400				(943,400)		(943,400)
<b>New/Enhanced Service</b>																	
453059 Hag Mary St Sewage Pump Station Backup Generator Auto Transfer Switch	30,000										30,000				(30,000)		(30,000)
<b>Total New/Enhanced Service</b>	30,000										30,000				(30,000)		(30,000)
<b>Total Hagersville Wastewater Collection</b>	355,500		615,000			2,900					973,400				(973,400)		(973,400)

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



# HALDIMAND COUNTY

## 2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget <b>Wastewater Collection/Conveyance</b>	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
<b>Jarvis Wastewater Collection</b>																	
<b>Replacement/State of Good Repair</b>																	
454012 Jarvis/Talbot Pump Station Roof					5,700						5,700				(5,700)		(5,700)
<b>Total Replacement/State of Good Repair</b>					5,700						5,700				(5,700)		(5,700)
<b>New/Enhanced Service</b>																	
454006 Walpole St - Sewer Pipe Upsize (Peel to Talbot) [R] [W] [SS]		101,900									101,900			(40,800)	(61,100)		(101,900)
454007 Peel St E - Sewer Pipe Upsize (Walpole to End) [R] [W] [S]		430,800									430,800			(172,300)	(258,500)		(430,800)
<b>Total New/Enhanced Service</b>		532,700									532,700			(213,100)	(319,600)		(532,700)
<b>Total Jarvis Wastewater Collection</b>		532,700			5,700						538,400			(213,100)	(325,300)		(538,400)
<b>Oswego Park Wastewater Collection</b>																	
<b>Replacement/State of Good Repair</b>																	
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)
<b>Total Replacement/State of Good Repair</b>			40,000								40,000				(40,000)		(40,000)
<b>Total Oswego Park Wastewater Collection</b>			40,000								40,000				(40,000)		(40,000)
<b>Wastewater Collection General</b>																	
<b>Replacement/State of Good Repair</b>																	
451001 Inflow & Infiltration Program Support	25,600	36,800	26,900	38,600	28,300	40,600	29,700	42,600	31,200	32,000	332,300			(49,800)	(282,500)		(332,300)
451005 CCTV Inspections - Structural Ass'ments [SS] - Engineering	25,600	26,300	26,900	27,600	28,300	29,000	29,700	30,500	31,200	32,000	287,100				(287,100)		(287,100)
451008 Collection System - Annual Repair	60,000	61,500	63,040	64,620	66,240	67,900	69,600	71,340	73,120	74,950	672,310				(672,310)		(672,310)
451012 Sewer Manhole Repairs (I&I)	76,900		80,800		84,900		89,200				331,800			(49,700)	(282,100)		(331,800)
451013 Sanitary Sewer Rehabilitations (I&I)		210,100		220,800		231,900		243,700			906,500			(136,000)	(770,500)		(906,500)

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



## HALDIMAND COUNTY

### 2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Wastewater Collection/Conveyance	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032							
Wastewater Collection General																	
451017 CCTV Inspections - Operations	35,000	35,880	36,780	37,700	38,640	39,600	40,590	41,600	42,640	43,700	392,130			(392,130)	(392,130)		
451022 Confined Space Entry Equipment Replacements			10,800			11,600			12,500		34,900			(34,900)	(34,900)		
<b>Total Replacement/State of Good Repair</b>	<b>223,100</b>	<b>370,580</b>	<b>245,220</b>	<b>389,320</b>	<b>246,380</b>	<b>420,600</b>	<b>258,790</b>	<b>429,740</b>	<b>190,660</b>	<b>182,650</b>	<b>2,957,040</b>			<b>(235,500)</b>	<b>(2,721,540)</b>		
<b>Total Wastewater Collection General</b>	<b>223,100</b>	<b>370,580</b>	<b>245,220</b>	<b>389,320</b>	<b>246,380</b>	<b>420,600</b>	<b>258,790</b>	<b>429,740</b>	<b>190,660</b>	<b>182,650</b>	<b>2,957,040</b>			<b>(235,500)</b>	<b>(2,721,540)</b>		
<b>Total Wastewater Collection/Conveyance</b>	<b>984,100</b>	<b>1,023,880</b>	<b>3,063,820</b>	<b>3,538,120</b>	<b>414,480</b>	<b>593,300</b>	<b>439,290</b>	<b>615,340</b>	<b>384,760</b>	<b>182,650</b>	<b>11,239,740</b>			<b>(3,932,200)</b>	<b>(7,307,540)</b>		



## HALDIMAND COUNTY

### 2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget												Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
Wastewater Treatment and Disposal																		
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032								
<b>Caledonia Wastewater Treatment Plant</b>																		
<b>Replacement/State of Good Repair</b>																		
452003	WWTP – SCADA Computer & Network Replmt	20,500				23,200						43,700			(43,700)	(43,700)		
452023	WWTP Filter Building Roof Replacement	205,100										205,100			(205,100)	(205,100)		
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)		
452059	Cal WWTP Filter #1 Refurbishment and Media Replacement	85,000										85,000			(85,000)	(85,000)		
452060	Cal WWTP Digester Pinch Valve Replacement	18,000										18,000			(18,000)	(18,000)		
452061	Cal WWTP Backup Backwash / Wash Water Pump Replacement	20,000										20,000			(20,000)	(20,000)		
452063	Cal WWTP Filter Building Brick Repairs		20,000									20,000			(20,000)	(20,000)		
<b>Total Replacement/State of Good Repair</b>		<b>348,600</b>	<b>615,000</b>	<b>242,300</b>		<b>90,500</b>	<b>168,200</b>					<b>1,464,600</b>		<b>(32,000)</b>	<b>(1,432,600)</b>	<b>(1,464,600)</b>		
<b>New/Enhanced Service</b>																		
452025	Caledonia Wastewater Treatment Plant	5,000,000		45,000,000								50,000,000			(50,000,000)	(50,000,000)		
452027	Cal WWTP Sludge Storage Tank Retrofit and Building Decommissioning		179,400									179,400		(89,700)	(89,700)	(179,400)		
452058	Project Management Support [W]	70,000	71,800	73,500	75,400	77,300	79,300	81,200	83,300	85,300	87,500	784,600		(784,600)		(784,600)		
<b>Total New/Enhanced Service</b>		<b>5,070,000</b>	<b>251,200</b>	<b>45,073,500</b>	<b>75,400</b>	<b>77,300</b>	<b>79,300</b>	<b>81,200</b>	<b>83,300</b>	<b>85,300</b>	<b>87,500</b>	<b>50,964,000</b>		<b>(50,874,300)</b>	<b>(89,700)</b>	<b>(50,964,000)</b>		
<b>Total Caledonia Wastewater Treatment Plant</b>		<b>5,418,600</b>	<b>866,200</b>	<b>45,315,800</b>	<b>75,400</b>	<b>167,800</b>	<b>247,500</b>	<b>81,200</b>	<b>83,300</b>	<b>85,300</b>	<b>87,500</b>	<b>52,428,600</b>		<b>(50,906,300)</b>	<b>(1,522,300)</b>	<b>(52,428,600)</b>		



# HALDIMAND COUNTY

## 2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debt/ure Financing	Total Financing
<b>Wastewater Treatment and Disposal</b>																	
<b>Cayuga Wastewater Treatment Plant</b>																	
<b>Replacement/State of Good Repair</b>																	
455012 WTP Electrical Panel and VFD Inspection/Maintenance		5,300				5,800					11,100				(11,100)		(11,100)
455013 Mechanical Aerator (rotor) Replacement	540,000										540,000				(540,000)		(540,000)
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)
455020 Cay WWTP DO Probe Replacements	40,000										40,000				(40,000)		(40,000)
455021 Cay WWTP Clarifier Isolation Valve Replacements		25,000	25,600								50,600				(50,600)		(50,600)
455022 Cay WWTP Influent Fine Screen Inspection and Rebuild	15,000										15,000				(15,000)		(15,000)
455023 Cay WWTP Digester Blower Inspections (3)	10,000										10,000				(10,000)		(10,000)
<b>Total Replacement/State of Good Repair</b>	<b>605,000</b>	<b>198,400</b>	<b>25,600</b>		<b>21,500</b>	<b>5,800</b>					<b>856,300</b>			<b>(40,300)</b>	<b>(816,000)</b>		<b>(856,300)</b>
<b>New/Enhanced Service</b>																	
455011 Twinning of Headworks Screen			385,000								385,000				(385,000)		(385,000)
<b>Total New/Enhanced Service</b>			<b>385,000</b>								<b>385,000</b>				<b>(385,000)</b>		<b>(385,000)</b>
<b>Total Cayuga Wastewater Treatment Plant</b>	<b>605,000</b>	<b>198,400</b>	<b>410,600</b>		<b>21,500</b>	<b>5,800</b>					<b>1,241,300</b>			<b>(40,300)</b>	<b>(1,201,000)</b>		<b>(1,241,300)</b>
<b>Dunnville Wastewater Treatment Plant</b>																	
<b>Replacement/State of Good Repair</b>																	
456011 Blower Replacement - High Efficiency & VFD				220,800							220,800				(220,800)		(220,800)
456012 Aeration Diffuser System Replacement	153,800	157,600									311,400				(311,400)		(311,400)
456015 Odour Control Media Replacement			17,200				19,000				36,200				(36,200)		(36,200)
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



## HALDIMAND COUNTY

### 2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debt/ure Financing	Total Financing
<b>Wastewater Treatment and Disposal</b>																	
<b>Dunnville Wastewater Treatment Plant</b>																	
456021 Digester Transfer Pump Replacement	30,800										30,800				(30,800)		(30,800)
456028 Clarifiers 1 & 2 Rebuild	256,300										256,300				(256,300)		(256,300)
456029 Clarifiers 3 & 4 Rebuild				276,000							276,000				(276,000)		(276,000)
456058 Dunn WWTP Septage Receiving Station Refurbishment	15,000										15,000				(15,000)		(15,000)
456059 Dun WWTP Backup Waste Pump Replacement		25,000									25,000				(25,000)		(25,000)
456060 Dun WWTP Ferris Room Re-coating	25,000										25,000				(25,000)		(25,000)
<b>Total Replacement/State of Good Repair</b>	<b>480,900</b>	<b>182,600</b>	<b>17,200</b>	<b>496,800</b>	<b>18,100</b>		<b>19,000</b>				<b>1,214,600</b>				<b>(1,214,600)</b>		<b>(1,214,600)</b>
<b>New/Enhanced Service</b>																	
456017 Sludge Storage Cell #4 Upgrades and Screen		99,800	484,600								584,400				(584,400)		(584,400)
<b>Total New/Enhanced Service</b>		<b>99,800</b>	<b>484,600</b>								<b>584,400</b>				<b>(584,400)</b>		<b>(584,400)</b>
<b>Total Dunnville Wastewater Treatment Plant</b>	<b>480,900</b>	<b>282,400</b>	<b>501,800</b>	<b>496,800</b>	<b>18,100</b>		<b>19,000</b>				<b>1,799,000</b>				<b>(1,799,000)</b>		<b>(1,799,000)</b>
<b>Hagersville Wastewater Treatment Plant</b>																	
<b>Replacement/State of Good Repair</b>																	
453002 WWTP SCADA Computer & Network Replmt	22,500					25,600					48,100				(48,100)		(48,100)
453022 Remotes–Control Equipment Replacement(SCADA)						63,700					63,700			(15,300)	(48,400)		(63,700)
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)
453056 Hag WWTP UV Bulb Replacements	15,000								20,000		35,000				(35,000)		(35,000)
453057 Hag WWTP Aeration Replacements and Upgrades	900,000										900,000				(900,000)		(900,000)
<b>Total Replacement/State of Good Repair</b>	<b>937,500</b>	<b>10,500</b>			<b>135,800</b>	<b>298,000</b>			<b>20,000</b>		<b>1,401,800</b>			<b>(95,200)</b>	<b>(1,306,600)</b>		<b>(1,401,800)</b>
<b>New/Enhanced Service</b>																	

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



## HALDIMAND COUNTY

### 2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debt/Financing	Total Financing
<b>Wastewater Treatment and Disposal</b>																	
Hagersville Wastewater Treatment Plant																	
453026 Grit Removal System			1,025,000								1,025,000			(307,500)	(717,500)		(1,025,000)
<b>Total New/Enhanced Service</b>			<b>1,025,000</b>								<b>1,025,000</b>			<b>(307,500)</b>	<b>(717,500)</b>		<b>(1,025,000)</b>
<b>Total Hagersville Wastewater Treatment Plant</b>	<b>937,500</b>	<b>10,500</b>	<b>1,025,000</b>		<b>135,800</b>	<b>298,000</b>			<b>20,000</b>		<b>2,426,800</b>			<b>(402,700)</b>	<b>(2,024,100)</b>		<b>(2,426,800)</b>
Jarvis Lagoons																	
Replacement/State of Good Repair																	
454010 Jarvis Lagoon Clean Out				472,800							472,800				(472,800)		(472,800)
<b>Total Replacement/State of Good Repair</b>				<b>472,800</b>							<b>472,800</b>				<b>(472,800)</b>		<b>(472,800)</b>
<b>Total Jarvis Lagoons</b>				<b>472,800</b>							<b>472,800</b>				<b>(472,800)</b>		<b>(472,800)</b>
LEIP Lagoons																	
Replacement/State of Good Repair																	
459005 LEIP Lagoon Clean Out						386,300					386,300				(386,300)		(386,300)
459007 LEIP Lagoon Berm Restoration and Splitter Box Valve Replacement	180,000										180,000				(180,000)		(180,000)
<b>Total Replacement/State of Good Repair</b>	<b>180,000</b>					<b>386,300</b>					<b>566,300</b>				<b>(566,300)</b>		<b>(566,300)</b>
New/Enhanced Service																	
459008 LEIP Lagoon Wet Well Pumping Refurbishments		300,000									300,000				(300,000)		(300,000)
<b>Total New/Enhanced Service</b>		<b>300,000</b>									<b>300,000</b>				<b>(300,000)</b>		<b>(300,000)</b>
<b>Total LEIP Lagoons</b>	<b>180,000</b>	<b>300,000</b>				<b>386,300</b>					<b>866,300</b>				<b>(866,300)</b>		<b>(866,300)</b>
Oswego Park Lagoons																	
Replacement/State of Good Repair																	
458001 Main Pump Station Roof Replacement							5,900				5,900				(5,900)		(5,900)
458003 Oswego Lagoon Clean Out				288,900							288,900				(288,900)		(288,900)



# HALDIMAND COUNTY

## 2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debtenture Financing	Total Financing
<b>Wastewater Treatment and Disposal</b>																	
Oswego Park Lagoons																	
458007 Oswego Park WWT Lagoons Cell #1 Discharge Pipe Repair			10,000								10,000				(10,000)		(10,000)
<b>Total Replacement/State of Good Repair</b>			10,000	288,900			5,900				304,800				(304,800)		(304,800)
<b>New/Enhanced Service</b>																	
458008 Oswego Park WWT Lagoons Level Measurement Equipment Installation			15,000								15,000				(15,000)		(15,000)
<b>Total New/Enhanced Service</b>			15,000								15,000				(15,000)		(15,000)
<b>Total Oswego Park Lagoons</b>			25,000	288,900			5,900				319,800				(319,800)		(319,800)
Townsend Lagoons																	
<b>Replacement/State of Good Repair</b>																	
457005 Townsend Lagoon Clean Out					215,400					448,000	663,400				(663,400)		(663,400)
457009 Townsend Lagoon Effluent Chamber Repairs	25,000										25,000				(25,000)		(25,000)
<b>Total Replacement/State of Good Repair</b>	25,000				215,400					448,000	688,400				(688,400)		(688,400)
<b>Total Townsend Lagoons</b>	25,000				215,400					448,000	688,400				(688,400)		(688,400)
Wastewater Treatment General																	
<b>Replacement/State of Good Repair</b>																	
451003 Facility Condition Assessment [W]		26,300		27,600		29,000		30,500			113,400				(113,400)		(113,400)
451004 SCADA Master Plan Optimization				38,600							38,600			(9,300)	(29,300)		(38,600)
451007 SCADA Maintenance	20,500	21,000	21,500	22,100	22,600	23,200	23,800	24,400	25,000	25,600	229,700			(55,000)	(174,700)		(229,700)
451009 Composite Sampler-Replacement Program	39,000		40,900		43,000		45,200				168,100				(168,100)		(168,100)
451011 SCADA Technical Support	41,000	42,000	43,100	44,200	45,300	46,400	47,500	48,700	50,000	51,200	459,400			(110,200)	(349,200)		(459,400)
451015 Wastewater Operating Capital	40,000	41,000	42,030	43,080	44,160	45,260	46,390	47,550	48,740	49,960	448,170				(448,170)		(448,170)
451018 Asbestos Annual Inspection and Remediation [W]	4,100	4,200	4,300	4,400	4,500	4,600	4,800	4,900	5,000	5,100	45,900				(45,900)		(45,900)

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



**HALDIMAND COUNTY**  
2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
<b>Wastewater Treatment and Disposal</b>																	
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032							
Wastewater Treatment General																	
451024 Plant Capital Improvements						1,505,500	2,486,160	2,590,560	2,662,890	2,189,680	11,434,790		(571,850)	(10,862,940)		(11,434,790)	
<b>Total Replacement/State of Good Repair</b>	<b>144,600</b>	<b>134,500</b>	<b>151,830</b>	<b>179,980</b>	<b>159,560</b>	<b>1,653,960</b>	<b>2,653,850</b>	<b>2,746,610</b>	<b>2,791,630</b>	<b>2,321,540</b>	<b>12,938,060</b>		<b>(746,350)</b>	<b>(12,191,710)</b>		<b>(12,938,060)</b>	
New/Enhanced Service																	
451014 Effluent Water Quality & Impact Assessment	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)		
<b>Total New/Enhanced Service</b>	<b>35,900</b>	<b>36,800</b>	<b>37,700</b>	<b>38,600</b>	<b>39,600</b>	<b>40,600</b>	<b>41,600</b>	<b>42,600</b>	<b>43,700</b>	<b>44,800</b>	<b>401,900</b>		<b>(401,900)</b>		<b>(401,900)</b>		
<b>Total Wastewater Treatment General</b>	<b>180,500</b>	<b>171,300</b>	<b>189,530</b>	<b>218,580</b>	<b>199,160</b>	<b>1,694,560</b>	<b>2,695,450</b>	<b>2,789,210</b>	<b>2,835,330</b>	<b>2,366,340</b>	<b>13,339,960</b>		<b>(1,148,250)</b>	<b>(12,191,710)</b>		<b>(13,339,960)</b>	
<b>Total Wastewater Treatment and Disposal</b>	<b>7,827,500</b>	<b>1,828,800</b>	<b>47,467,730</b>	<b>1,552,480</b>	<b>757,760</b>	<b>2,632,160</b>	<b>2,801,550</b>	<b>2,872,510</b>	<b>2,940,630</b>	<b>2,901,840</b>	<b>73,582,960</b>		<b>(52,497,550)</b>	<b>(21,085,410)</b>		<b>(73,582,960)</b>	

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



**HALDIMAND COUNTY**  
2023 to 2032 CAPITAL FORECAST

FIR Category: Wastewater Stage: Draft Budget											Total Expenditures	Grants Subsidies	General Recoveries	Development Charges	Reserves/ Reserve Funds	Debenture Financing	Total Financing
2023	2024	2025	2026	2027	2028	2029	2030	2031	2032								
<b>Wastewater Technical Reviews and Studies</b>																	
Caledonia Wastewater Technical Reviews and Studies																	
<b>Replacement/State of Good Repair</b>																	
452001	Cal - Master Servicing Plan Update [W][R][SS]									50,000			(50,000)			(50,000)	
<b>Total Replacement/State of Good Repair</b>											<b>50,000</b>			<b>(50,000)</b>			<b>(50,000)</b>
<b>Total Caledonia Wastewater Technical Reviews and Studies</b>											<b>50,000</b>			<b>(50,000)</b>			<b>(50,000)</b>
Cayuga Wastewater Technical Reviews and Studies																	
<b>Replacement/State of Good Repair</b>																	
455014	Cay - Master Servicing Plan Update [W][R][SS]									25,000				29,000	(54,000)	(54,000)	
<b>Total Replacement/State of Good Repair</b>											<b>25,000</b>			<b>(54,000)</b>			<b>(54,000)</b>
<b>Total Cayuga Wastewater Technical Reviews and Studies</b>											<b>25,000</b>			<b>(54,000)</b>			<b>(54,000)</b>
Dunnville Wastewater Technical Reviews and Studies																	
<b>Replacement/State of Good Repair</b>																	
456014	Dun - Master Servicing Plan Update [W][R][SS]									30,000				34,800	(64,800)	(64,800)	
<b>Total Replacement/State of Good Repair</b>											<b>30,000</b>			<b>(64,800)</b>			<b>(64,800)</b>
<b>Total Dunnville Wastewater Technical Reviews and Studies</b>											<b>30,000</b>			<b>(64,800)</b>			<b>(64,800)</b>
Hagersville Wastewater Technical Reviews and Studies																	
<b>Replacement/State of Good Repair</b>																	
453020	Hag - Master Servicing Plan Update [W][R][SS]													34,000	(34,000)	(34,000)	
453058	Hag WWTP EA for Plant Expansion									275,000					(275,000)	(275,000)	
<b>Total Replacement/State of Good Repair</b>											<b>275,000</b>			<b>(34,000)</b>	<b>(275,000)</b>		<b>(309,000)</b>

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



## HALDIMAND COUNTY

### 2023 to 2032 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032							
<b>Total Hagersville Wastewater Technical Reviews and Studies</b>		275,000				34,000					309,000			(34,000)	(275,000)	(309,000)	
Jarvis Wastewater Technical Reviews and Studies																	
<b>Replacement/State of Good Repair</b>																	
454001 Jar - Master Servicing Plan Update [W][R][SS]			16,200						18,700		34,900			(34,900)		(34,900)	
<b>Total Replacement/State of Good Repair</b>			16,200						18,700		34,900			(34,900)		(34,900)	
<b>Total Jarvis Wastewater Technical Reviews and Studies</b>			16,200						18,700		34,900			(34,900)		(34,900)	
LEIP Wastewater Technical Reviews and Studies																	
<b>Replacement/State of Good Repair</b>																	
459006 LEIP - Master Servicing Plan [W][R][S]						50,000					50,000			(50,000)		(50,000)	
<b>Total Replacement/State of Good Repair</b>						50,000					50,000			(50,000)		(50,000)	
<b>Total LEIP Wastewater Technical Reviews and Studies</b>						50,000					50,000			(50,000)		(50,000)	
<b>Total Wastewater Technical Reviews and Studies</b>	30,000	300,000	16,200	50,000	50,000	34,000	34,800	29,000	18,700		562,700			(287,700)	(275,000)	(562,700)	



**2023 Capital Financial Principles**

<u>Principles</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 Federal Gas Tax Funds	Allocate 50/50 between water/wastewater and 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

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



**2023 Debt History**

TAX SUPPORTED													
Project	ByLaw #	Payee	Pmt Method	date of issue	Original Principal	Current Interest rate	Annual Principal Payments (average)	Outstanding Principal (as at December 31, 2022)	2023 Annual Payments	offsetting funding	Net County Responsibility	Outstanding Principal (as at December 31, 2023)	Maturity
Central Administration Facility	2067/19	IO	PAD	July 2, 2019	\$19,450,000	2.71%	\$972,500	\$16,532,500	\$1,413,996	0	\$1,413,996	\$15,560,000	2039
Lowbanks - Firehall and Community Centre	1392/13	IO	PAD	October 1, 2013	\$898,500	3.36%	\$89,850	\$89,850	\$92,112	0	\$92,112	\$0	2023
Cayuga Fire Station	1711/16	IO	PAD	October 3, 2016	\$1,502,800	2.07%	\$150,280	\$601,120	\$161,943	(110,929)	\$51,014	\$450,840	2026
Hagersville Fire Station	1711/16	IO	PAD	October 3, 2016	\$1,747,700	2.07%	\$174,770	\$699,080	\$188,334	(25,151)	\$163,183	\$524,310	2026
South Haldimand Fire Station	1711/16	IO	PAD	October 3, 2016	\$1,236,300	2.07%	\$123,630	\$494,520	\$133,225	(43,557)	\$89,668	\$370,890	2026
Cayuga EMS Station	1711/16	IO	PAD	October 3, 2016	\$512,900	2.07%	\$51,290	\$205,160	\$55,271	(8,244)	\$47,027	\$153,870	2026
Hagersville EMS Station	1711/16	IO	PAD	October 3, 2016	\$710,400	2.07%	\$71,040	\$284,160	\$76,553	(10,270)	\$66,284	\$213,120	2026
Dunn Storm Sewer - Alder to Cedar	2304/21	IO	PAD	October 1, 2021	\$524,140	2.01%	\$52,414	\$471,726	\$60,898	(60,898)	\$0	\$419,312	2031
Grandview	824/07	IO	PAD	July 16, 2007	\$17,000,000	5.27%	\$850,000	\$4,250,000	\$1,062,868	0	\$1,062,868	\$3,400,000	2027
Grandview - New Debt	1393/13	IO	PAD	October 1, 2013	\$1,686,000	3.82%	\$112,453	\$674,720	\$137,151	0	\$137,151	\$562,267	2028
Conversion of CNR Bridge	2066-19	IO	PAD	July 2, 2019	\$1,160,000	2.40%	\$116,000	\$812,000	\$134,798	0	\$134,798	\$696,000	2029
HCCC - Balloon & New Debt	1392/13	IO	PAD	October 1, 2013	\$3,658,000	3.36%	\$365,800	\$365,800	\$375,010	(153,754)	\$221,256	\$0	2023
Cayuga Arena	1394/13	IO	PAD	October 1, 2013	\$6,620,400	4.11%	\$331,020	\$3,641,220	\$477,264	(253,266)	\$223,998	\$3,310,200	2033
Dunnville Arena	1394/13	IO	PAD	October 1, 2013	\$7,656,900	4.11%	\$382,845	\$4,211,295	\$551,985	(166,182)	\$385,803	\$3,828,450	2033
Cayuga Library	2066/19	IO	PAD	July 2, 2019	\$2,299,800	2.40%	\$229,980	\$1,609,860	\$267,248	(78,531)	\$188,717	\$1,379,880	2029
Dunnville Library	1829/17	CDS	PAD	July 5, 2017	\$864,700	1.55%	\$86,470	\$450,581	\$96,264	(96,264)	\$0	\$363,985	2027
Caledonia Lions Hall	1711/16	IO	PAD	October 3, 2016	\$1,653,000	2.07%	\$165,300	\$661,200	\$178,129	0	\$178,129	\$495,900	2026
<b>Total Tax Supported</b>								<b>\$36,054,792</b>	<b>\$5,463,049</b>	<b>-\$1,007,046</b>	<b>\$4,456,003</b>	<b>\$31,729,024</b>	

RATE SUPPORTED WATER AND WASTEWATER													
Project	ByLaw #	Payee	Pmt Method	date of issue	Original Principal	Current Interest rate	Annual Principal Payments (average)	Outstanding Principal (as at December 31, 2022)	2023 Annual Payments	offsetting funding	Net County Responsibility	Outstanding Principal (as at December 31, 2023)	Maturity
<b>Water projects</b>													
Caithness Street - Argyle to McClung, Caledonia	1392/13	IO	PAD	October 1, 2013	\$789,900	3.36%	\$78,990	\$78,990	\$80,979	0	\$80,979	\$0	2023
Jarvis Watermain Replacement	1829/17	CDS	PAD	July 5, 2017	\$2,250,000	1.55%	\$225,000	\$1,172,437	\$250,486	(62,621)	\$187,864	\$947,109	2027
Nanticoke Electrical Servicing Upgrades	1829/17	CDS	PAD	July 5, 2017	\$100,000	1.55%	\$10,000	\$52,108	\$11,133	(11,133)	\$0	\$42,093	2027
Nanticoke Filter Building Expansion	1829/17	CDS	PAD	July 5, 2017	\$1,704,400	1.55%	\$170,440	\$888,135	\$189,746	(47,436)	\$142,309	\$717,446	2027
Nanticoke High Rate Sedimentation Capacity Expansion	1829/17	CDS	PAD	July 5, 2017	\$1,337,400	1.55%	\$133,740	\$696,897	\$148,889	(37,216)	\$111,672	\$562,962	2027
Nanticoke Water System Filter Replacement	1829/17	CDS	PAD	July 5, 2017	\$2,340,900	1.55%	\$234,090	\$1,219,804	\$260,605	(260,605)	\$0	\$985,372	2027
Nanticoke Water Treatment Process	1829/17	CDS	PAD	July 5, 2017	\$2,983,200	1.55%	\$298,320	\$1,554,496	\$332,110	(83,028)	\$249,083	\$1,255,741	2027
<b>Wastewater Projects</b>													
Caithness Street - Argyle to McClung	1392/13	IO	PAD	October 1, 2013	\$502,800	3.36%	\$50,280	\$50,280	\$51,546	0	\$51,546	\$0	2023
Caledonia Water Pollution Control Upgrade Balloon	1392/13	IO	PAD	October 1, 2013	\$3,024,000	3.36%	\$302,400	\$302,400	\$310,014	(201,509)	\$108,505	\$0	2023
Caledonia WWTP Upgrades	1829/17	CDS	PAD	July 5, 2017	\$628,700	1.55%	\$62,870	\$327,605	\$69,991	(69,991)	\$0	\$264,643	2027
Caledonia Nairne Street Forcemain	2304/21	IO	PAD	October 1, 2021	\$1,233,500	2.01%	\$123,350	\$1,110,150	\$143,316	(143,316)	\$0	\$986,800	2031
Caledonia Nairne Street Forcemain	2377/22	IO	PAD	September 15, 2022	\$4,416,500	4.07%	\$441,650	\$4,416,500	\$616,871	(616,871)	\$0	\$3,974,850	2032
Dunnville WWTP	2066/19	IO	PAD	July 2, 2019	\$9,178,950	2.40%	\$917,895	\$6,425,265	\$1,066,639	(53,332)	\$1,013,307	\$5,507,370	2029
Jarvis Lagoon Upgrades	1829/17	CDS	PAD	July 5, 2017	\$122,700	1.55%	\$12,270	\$63,937	\$13,660	(13,660)	\$0	\$51,649	2027
Jarvis - Additional Wastewater Treatment Capacity	2304/21	IO	PAD	October 1, 2021	\$6,000,000	2.01%	\$600,000	\$5,400,000	\$697,117	(697,117)	\$0	\$4,800,000	2031
Townsend Lagoon	2066/19	IO	PAD	July 2, 2019	\$562,500	2.40%	\$56,250	\$393,750	\$65,365	(65,365)	\$0	\$337,500	2029
Caledonia WWTP - Aeration Diffuser Head Upgrades	2304/21	IO	PAD	October 1, 2021	\$591,010	2.01%	\$59,101	\$531,909	\$68,667	(68,667)	\$0	\$472,808	2031
<b>Total Rate Supported Water and Wastewater</b>								<b>\$24,684,663</b>	<b>\$4,377,133</b>	<b>-\$2,431,868</b>	<b>\$1,945,265</b>	<b>\$20,906,343</b>	

Total Debt:

<b>\$60,739,455</b>	<b>\$9,840,182</b>	<b>-\$3,438,914</b>	<b>\$6,401,268</b>	<b>\$52,635,367</b>
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**Capital Replacement Reserve Funds - Water and Wastewater**

**FORECAST OF CAPITAL REPLACEMENT RESERVE FUND - WATER  
FOR THE YEARS 2023 TO 2032**

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	<u>WATER</u>	<u>WATER</u>	<u>WATER</u>								
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Opening Balance January 1st</b>	<b>8,414,835</b>	<b>1,431,749</b>	<b>871,839</b>	<b>1,579,684</b>	<b>1,771,993</b>	<b>3,358,829</b>	<b>5,103,505</b>	<b>6,650,935</b>	<b>8,544,935</b>	<b>10,266,705</b>	<b>12,925,245</b>
<b>Source of Funds:</b>											
Budgeted Annual Contribution	1,549,590	1,690,290	1,909,425	2,048,239	2,185,746	2,324,556	3,153,350	3,291,580	3,429,810	3,568,040	3,706,270
Contribution from Rate Stabilization Reserve		1,300,000									
Interest Earned											
<b>Total Source of Funds</b>	<b>1,549,590</b>	<b>2,990,290</b>	<b>1,909,425</b>	<b>2,048,239</b>	<b>2,185,746</b>	<b>2,324,556</b>	<b>3,153,350</b>	<b>3,291,580</b>	<b>3,429,810</b>	<b>3,568,040</b>	<b>3,706,270</b>
<b>Use of Funds:</b>											
Commitment for Active Projects	8,532,676										
New Initiative/Enhanced Service		144,100	90,000	25,000				45,300			
Replacement/State of Good Repair		3,406,100	1,111,580	1,830,930	598,910	579,880	1,605,920	1,352,280	1,708,040	909,500	1,313,880
<b>Total Use of Funds</b>	<b>8,532,676</b>	<b>3,550,200</b>	<b>1,201,580</b>	<b>1,855,930</b>	<b>598,910</b>	<b>579,880</b>	<b>1,605,920</b>	<b>1,397,580</b>	<b>1,708,040</b>	<b>909,500</b>	<b>1,313,880</b>
<b>Closing Balance December 31st</b>	<b>1,431,749</b>	<b>871,839</b>	<b>1,579,684</b>	<b>1,771,993</b>	<b>3,358,829</b>	<b>5,103,505</b>	<b>6,650,935</b>	<b>8,544,935</b>	<b>10,266,705</b>	<b>12,925,245</b>	<b>15,317,635</b>

**FORECAST OF CAPITAL REPLACEMENT RESERVE FUND - SEWER  
FOR THE YEARS 2023 TO 2032**

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	<u>SEWER</u>										
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Opening Balance January 1st</b>	<b>17,095,623</b>	<b>12,760,732</b>	<b>11,000,152</b>	<b>10,597,068</b>	<b>10,012,457</b>	<b>10,326,424</b>	<b>11,640,879</b>	<b>11,087,556</b>	<b>10,397,967</b>	<b>10,453,907</b>	<b>10,646,857</b>
<b>Source of Funds:</b>											
Budgeted Annual Contribution	1,922,310	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
Contribution from Rate Stabilization Reserve				1,750,000							
Leachate Haldimand Capital component	27,140	27,140	27,140	27,140	27,140	27,140	27,140	27,140	27,140	27,140	
Overstrength Capital Contribution		84,500	84,500	84,500	84,500	84,500	84,500	84,500	84,500	84,500	84,500
Interest Earned											
<b>Total Source of Funds</b>	<b>1,949,450</b>	<b>2,060,120</b>	<b>2,240,796</b>	<b>4,012,039</b>	<b>2,282,967</b>	<b>2,303,895</b>	<b>2,324,737</b>	<b>2,345,751</b>	<b>3,233,490</b>	<b>3,233,490</b>	<b>3,206,350</b>
<b>Use of Funds:</b>											
Commitment for Active Projects	6,284,342										
New Initiative/Enhanced Service		30,000	894,100	1,602,100	263,900	5,700					
Replacement/State of Good Repair		3,790,700	1,749,780	2,994,550	1,705,100	983,740	2,878,060	3,035,340	3,177,550	3,040,540	2,877,490
<b>Total Use of Funds</b>	<b>6,284,342</b>	<b>3,820,700</b>	<b>2,643,880</b>	<b>4,596,650</b>	<b>1,969,000</b>	<b>989,440</b>	<b>2,878,060</b>	<b>3,035,340</b>	<b>3,177,550</b>	<b>3,040,540</b>	<b>2,877,490</b>
<b>Closing Balance December 31st</b>	<b>12,760,732</b>	<b>11,000,152</b>	<b>10,597,068</b>	<b>10,012,457</b>	<b>10,326,424</b>	<b>11,640,879</b>	<b>11,087,556</b>	<b>10,397,967</b>	<b>10,453,907</b>	<b>10,646,857</b>	<b>10,975,717</b>



### Federal Gas Tax Reserve Fund

FORECAST OF FEDERAL GAS TAX REVENUE RESERVE FUND  
FOR THE YEARS 2023 TO 2032

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Opening Balance January 1st</b>	<b>7,422,985</b>	<b>7,015,801</b>	<b>8,081,510</b>	<b>8,406,019</b>	<b>7,921,278</b>	<b>5,071,187</b>	<b>5,837,296</b>	<b>7,116,755</b>	<b>8,000,154</b>	<b>1,652,893</b>	<b>3,152</b>
<b>Source of Funds:</b>											
Budgeted Contribution	2,892,930	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											
<b>Total Source of Funds</b>	<b>2,892,930</b>	<b>3,018,709</b>									
<b>Use of Funds:</b>											
Commitment for Active Projects (Tax)	3,300,114										
Commitment for Active Projects (Water/Wastewater)											
Contribution to State of Good Repair Projects (Tax Supported)		1,953,000	1,623,700	3,503,450	3,415,800	931,900	1,412,700	692,600	763,800	2,947,900	2,054,900
Contribution to New Initiatives/Enhanced Service Projects (Tax Supported)											
Contribution to New Initiatives/Enhanced Service Projects (Water)											
Contribution to State of Good Repair Projects (Water)			1,070,500		2,453,000	1,320,700	326,550	1,442,710	8,602,170	1,720,550	954,480
Gravel Road Conversion One-Time Funding											
<b>Total Use of Funds</b>	<b>3,300,114</b>	<b>1,953,000</b>	<b>2,694,200</b>	<b>3,503,450</b>	<b>5,868,800</b>	<b>2,252,600</b>	<b>1,739,250</b>	<b>2,135,310</b>	<b>9,365,970</b>	<b>4,668,450</b>	<b>3,009,380</b>
<b>Closing Balance December 31st</b>	<b>7,015,801</b>	<b>8,081,510</b>	<b>8,406,019</b>	<b>7,921,278</b>	<b>5,071,187</b>	<b>5,837,296</b>	<b>7,116,755</b>	<b>8,000,154</b>	<b>1,652,893</b>	<b>3,152</b>	<b>12,481</b>

**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 2023 TO 2032

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Opening Balance January 1st</b>	<b>767,374</b>	<b>544,660</b>	<b>649,524</b>	<b>835,564</b>	<b>207,867</b>	<b>(1,753,091)</b>	<b>(4,040,158)</b>	<b>(5,720,997)</b>	<b>(7,761,679)</b>	<b>(9,723,918)</b>	<b>(12,417,875)</b>
<b>Source of Funds:</b>											
Actual Receipts to December 31											
Receipts expected per DC study (prorated if part year)	709,370	723,560	738,030	752,790	793,680	809,560	825,750	842,260	859,110	862,030	879,270
Interest Earned	9,880	9,654	12,006	6,454	(18,561)	(64,732)	(109,069)	(150,652)	(195,379)	(247,407)	(306,376)
<b>Total Source of Funds</b>	<b>719,250</b>	<b>733,214</b>	<b>750,036</b>	<b>759,244</b>	<b>775,119</b>	<b>744,828</b>	<b>716,681</b>	<b>691,608</b>	<b>663,731</b>	<b>614,623</b>	<b>572,894</b>
<b>Use of Funds:</b>											
DC debt repayment (note 1)	501,930	502,050	502,096	501,671	502,197	501,775					
Forecasted DC debt repayment (note 2)			0	830,370	2,141,280	2,343,320	2,255,320	2,480,150	2,381,260	3,036,470	2,909,680
Proposed Projects-Capital Forecast (Tax)	23,895	13,500				15,300					
Proposed Projects-Capital Forecast (WWW) (note 3)	416,139	112,800	61,900	54,900	92,600	171,500	142,200	252,140	244,710	272,110	246,750
<b>Total Use of Funds</b>	<b>941,963</b>	<b>628,350</b>	<b>563,996</b>	<b>1,386,941</b>	<b>2,736,077</b>	<b>3,031,895</b>	<b>2,397,520</b>	<b>2,732,290</b>	<b>2,625,970</b>	<b>3,308,580</b>	<b>3,156,430</b>
<b>Closing Balance December 31st</b>	<b>544,660</b>	<b>649,524</b>	<b>835,564</b>	<b>207,867</b>	<b>(1,753,091)</b>	<b>(4,040,158)</b>	<b>(5,720,997)</b>	<b>(7,761,679)</b>	<b>(9,723,918)</b>	<b>(12,417,875)</b>	<b>(15,001,411)</b>

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 2023-2032: Caledonia Elevated Tank Replacement (2031-2040), 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 2023 10 year capital forecast (2023-2032). 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 - Water 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.



## Development Charges Reserve Fund - Wastewater

### DEVELOPMENT CHARGES RESERVE FUND - WASTEWATER FOR THE YEARS 2023 TO 2032

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Opening Balance January 1st</b>	<b>838,761</b>	<b>(108,434)</b>	<b>(60,608)</b>	<b>(1,366,813)</b>	<b>(2,203,810)</b>	<b>(7,809,982)</b>	<b>(13,765,254)</b>	<b>(19,610,050)</b>	<b>(25,242,203)</b>	<b>(30,653,914)</b>	<b>(35,926,925)</b>
<b>Source of Funds:</b>											
<hr/>											
Actual Receipts to December 31											
Receipts expected per DC study (prorated if part year)	2,133,640	2,176,310	2,219,840	2,264,230	2,387,160	2,434,910	2,483,610	2,533,280	2,583,940	2,592,760	2,644,610
Interest Earned	2,935	(2,044)	(15,950)	(39,897)	(111,891)	(241,076)	(372,927)	(501,167)	(624,568)	(743,957)	(850,554)
<b>Total Source of Funds</b>	<b>2,136,575</b>	<b>2,174,266</b>	<b>2,203,890</b>	<b>2,224,333</b>	<b>2,275,269</b>	<b>2,193,834</b>	<b>2,110,683</b>	<b>2,032,113</b>	<b>1,959,372</b>	<b>1,848,803</b>	<b>1,794,056</b>
<b>Use of Funds:</b>											
<hr/>											
DC debt repayment (note 1)	1,337,490	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
Forecasted DC debt repayment (note 2)			1,287,071	1,239,775	6,016,501	6,293,738	6,103,506	5,912,209	5,727,165	5,531,397	5,340,840
Proposed Projects-Capital Forecast (Tax)	23,187	13,800				15,300					
Proposed Projects-Capital Forecast (WWW) (note 3)	1,723,094	182,800	528,800	163,100	241,300	251,400	381,400	316,800	345,100	324,050	265,000
<b>Total Use of Funds</b>	<b>3,083,771</b>	<b>2,126,440</b>	<b>3,510,095</b>	<b>3,061,329</b>	<b>7,881,441</b>	<b>8,149,106</b>	<b>7,955,479</b>	<b>7,664,265</b>	<b>7,371,082</b>	<b>7,121,814</b>	<b>6,060,983</b>
<b>Closing Balance December 31st</b>	<b>(108,434)</b>	<b>(60,608)</b>	<b>(1,366,813)</b>	<b>(2,203,810)</b>	<b>(7,809,982)</b>	<b>(13,765,254)</b>	<b>(19,610,050)</b>	<b>(25,242,203)</b>	<b>(30,653,914)</b>	<b>(35,926,925)</b>	<b>(40,193,852)</b>

- 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 2023 - 2032; Hagersville Grit Removal System (2026-2035), McClung Pump Station Upgrades (2027-2036), McClung Pump Station Forcemain Extension (2027-2036), Nairne Pump Station Forcemain Extension (2027-2036), New Caledonia Wastewater Treatment Plant Phase 1 & 2 (2024-2033 and 2026-2045); Cayuga Ouse St Pumping Station Replacement (2026-2035); Cayuga Ouse St Forcemain Twinning (2026-2035); Caledonia WTP Wetwell Expansion (2024-2033).
- Note 3: Proposed project expenditures are based on the 2023 10 year capital forecast (2023-2032). 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.