CLEARVIEW TOWNSHIP

Drinking Water and Wastewater System

Rate Report, October 21, 2024

Sharratt Water Management Ltd.
Sustainable Water Management Specialists

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1.0 EXECUTIVE SUMMARY

The Township of Clearview is a municipality with a population of approximately 14,814, according to the 2021 Statistics Canada census, and is situated in Simcoe County. The Township's water system is comprised of six separate communities: Stayner, Creemore, New Lowell, Buckingham Woods, Nottawa, and Colling Woodlands. The system has 3,066 water connections as of December 31, 2023. Approximately 80% of the water connections are in Stayner and Creemore. All water users in Clearview are metered. The wastewater system is comprised of separate systems in Creemore and Stayner with 2,307 connections. About 155 water users are not connected to the wastewater systems in Creemore and Stayner. Users in all water and wastewater systems pay the same water and wastewater rates.

The Township has undertaken this project to prepare water rates, which will ensure that sufficient funds will be in place to cover the future water system operating costs, water and wastewater system life-cycle asset renewal and replacement costs, as well as meeting growth needs. It will also provide the basis for the preparation and submission of a water system financial plan. The preparation of a water system financial plan is one of the statutory requirements for obtaining a renewal of the water system operating license.

This rate project carried out the following tasks:

1) Compiled the current and projected operating costs for 2024-2034, and beyond
2) Projected capital renewal and replacement costs to 2123
3) Determined the quantities of water sold, and number of connections
4) Developed water and wastewater rates for 2025 to 2034
5) Estimated the projected bills of various customers using different quantities of water
6) Compared the rates in Clearview with some other communities

The intent of the project is to develop a sustainable financing plan that will fully meet the current financial needs, as well as making full provision for renewing all water system financial assets. The Township has identified the cost of renewing financial assets for the 2024 to the 2123 period, which is about the life of the assets with the longest lifetimes. This means that each year, from 2025-2034, user fees have been set at such a level, that when needed, funds will be available to meet future projected operating, capital renewal and replacement requirements, and growth needs.

The costs of the identified current and long-range capital renewal needs have been combined with the projection of the operating costs needed to produce an overall projection of system cost. Various methods have been utilized to supply the necessary financial resources to pay for this overall cost. These include loans, user fees, and development charges, along with grants, subsidies, local improvement charges and connection fees, as well as reserves. User fees are the key component of the financing plan, as they pay down debt and build up reserves, as well as meeting day-to-day operating and smaller capital costs. Rates are projected in this report for 2025 to 2034. In view of the difficulty of predicting the extent of new development, and in consideration of the substantial impact the anticipated growth could have on future water revenues, it is recommended that rates be monitored annually to determine if projected revenues and expenditures are in line with expectations. If they do not meet expected revenue levels, they should be adjusted. This can be done without undertaking a full rate study.

1.1 WATER RATE

Rates are calculated by considering the user fee requirements, and by considering future water use and the number of connections. User fees are projected to increase. In Clearview, the projected number of new users will offset some or all the projected increase in user fees, depending on the amount of new growth. In 2024, the fee for water sold, including operating costs, reserve transfers and capital investment was $2.81 per cubic metre, with a fixed annual fee of $177 for all users who took water for twelve months.

The Development Charge Background (DC) Study conducted for the Township in 2024 projects a substantial increase in population. However, the Township did not get a grant that would allow all this development, and the projected increase in population was accordingly reduced. The projected number of users is set out in table 5.5. The rates for 2025 to 2034 were developed by assuming that the modified development of 150 new connections would be realized annually from 2025 to 2034. The proposed 2025 to 2034 rates are set out in table 1.1.

Table 1.1 Proposed Two Part Clearview Water Rate 2024-2034 Inflated $

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Fixed Portion per Year	177	186	196	207	219	230	240	248	257	264	273
Variable Portion per M3	2.81	2.93	3.05	3.10	3.15	3.21	3.28	3.35	3.43	3.52	3.61

The proposed rates in table 1.1 represent an increase of 4 to 5% per year from 2025 to 2034. Inflation in operating expenses is over 4% and inflation in capital expenditures is projected at 3%. This increase is needed to cover inflation as well as upcoming large capital renewal and replacement investments. The fixed portion of the rate increases at about 4 to 5%. The variable rate that depends solely on the amount of water used, increases from $2.81 in 2024 to $3.21 in 2029 or about 3-4% through 2025 to 2029 and then levels off at an annual increase of about 3%. Hypothetical water bills associated with these rates are set out in table 1.2.

Table 1.2 Projected Yearly Water Bills with the proposed Rates 2024-2034 Inflated $

Hypothetical User	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Single Person with 70 M3/Year	374	391	409	424	440	454	469	483	497	511	526
Couple with 125 M3 per Year	528	553	577	595	613	631	649	667	686	704	725
Family 300 M3 per Year	1,020	1,065	1,111	1,137	1,164	1,192	1,222	1,253	1,286	1,321	1,357
User with 231431 M3/Year	650,498	678,352	706,296	717,546	729,122	742,923	758,178	776,003	794,475	815,769	836,782

These bills are increasing at about 4-5% per year for 2025 to 2026 and then 3-4% to 2034.

A user taking seventy cubic metres per year is projected to pay $374 in 2024, and $454 by 2029. Someone using 125 cubic metres per year will pay $528 in 2024, and $631 in 2029. A user of three hundred cubic metres per year will pay a water bill of $1020 in 2024, and $1,192 in 2029. A very large user will pay about $650,573 per year in 2024, increasing to $742,923 in 2029. All figures are in inflated dollars.

1.2 WASTEWATER RATE

Wastewater rates are calculated by considering the user fee requirements, and by considering future water use and the number of those connected to the wastewater system. Some water users have their own septic systems. This is taken into consideration. User fees are projected to increase. In Clearview, the anticipated growth in the projected number of new users will offset some of the projected increase in user fees. Wastewater rates are proposed to be surcharged to the water rates. The proposed surcharges for 2025 to 2034 are shown in table 1.3. The rate calculation is shown in appendix D.

Table 1.3 Proposed Clearview Wastewater Surcharge 2024-2034 Inflated $

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Wastewater Surcharge	86.2%	90.1%	94.4%	100.9%	108.0%	117.0%	117.0%	117.0%	117.0%	117.0%	117.0%

The proposed wastewater surcharges depend very much on the level of future growth in the number of new connections. If growth is less than projected, then the surcharge will need to be increased over the longer term. The projected wastewater bills are shown in table 1.4. These projections need to be monitored, and it is assumed that a new rate study will be done in 5 years. Adjustments may be needed more often.

Table 1.4 Projected Clearview Yearly Wastewater Bills 2024-2034 Inflated $

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Single Person with 70 M3/Year	322	353	386	428	475	531	548	565	581	597	615
Couple with 125 M3 per Year	455	498	545	600	662	738	759	780	802	824	848
Family 300 M3 per Year	879	960	1,049	1,147	1,257	1,395	1,430	1,467	1,505	1,546	1,588
User with 36,500 M3/Year	88,564	96,589	105,305	114,332	124,409	137,315	140,139	143,437	146,854	150,791	154,677

A user taking seventy cubic metres per year is projected to pay $322 in 2024, and $531 in 2029. Someone using 125 cubic metres per year will pay $455 in 2024, and $738 in 2029. A user of three hundred cubic metres per year will pay a wastewater bill of $879 in 2024 and 1,395 in 2029. The large user pays a wastewater bill of $88,564 in 2024 and this is projected at $137,315 in 2029. The wastewater bills increase due to the renewal and upgrading of wastewater treatment facilities projected in the next few years.

The wastewater bills increase at about ten percent per year over the next five years, and then level off at 3% after 2029. This catch up rate increase is needed as the projected growth in 2019 did not materialize and revenues have fallen short. Wastewater bills in Clearview are very low compared to other nearby communities as shown in table 6.7. Future increases beyond 2029 will depend on inflation and the number of new users. The short-term increase is due to lower-than-expected past revenues, operating cost inflation and substantial capital renewal and replacements costs. The wastewater revenues should be carefully monitored to ensure that the projected revenues are realized.

2.0 THE TOWNSHIP OF CLEARVIEW RATE DEVELOPMENT PROJECT

2.1 PROJECT PURPOSE

The Township intends to develop full cost life-cycle water rates for the water system in Clearview. This report projects life cycle water system capital replacement costs to 2123 and develops a financing plan for the water system to provide funding for renewal and replacement needs to 2123, as well as financing for the day-to-day operation of the system. The plan was created by setting out a projection of all revenues, relevant operating costs, needed reserve set-asides and debt to fund operating and capital replacement to 2123. Projections of water sold, and the number of connections, are a key part of the analysis. This information serves as the basis for setting simple, smooth, and fair water rates, based on current practice across Ontario, as well as conforming to MOE financial planning guidelines. This report projects the water bills of typical customers associated with the proposed future water rates. All water users pay the same fixed and variable rates; however, water bills vary according to actual water used. Finally, the report compares the water bills of a few communities with those for Clearview.

2.2 LEGISLATIVE CONTEXT FOR THE PREPARATION OF THIS RATE REPORT

There have been several legislative initiatives affecting water system management and operations over the past decade. These commenced with the water borne illness tragedy in Walkerton in 2000. Following this event, the government established a public inquiry to investigate the tragedy, chaired by the Honourable Dennis O'Connor. The Connor Inquiry report recommended a comprehensive approach to the delivery of safe drinking water in Ontario.

The Ministry of Environment (MOE) has responded to the Inquiry recommendations by making legislative changes. One having relevance to the development of rates and financial plans was the passage of the Safe Drinking Water Act, 2002 (SDWA). It requires owners of municipal drinking water systems to apply for and obtain a Municipal Drinking Water Licence. Five elements must be in place for the owner of a drinking water system to obtain a licence:

- A Drinking Water Works Permit to establish or alter a drinking-water system.
- An accepted Operational Plan. The Drinking Water Quality Management Standard (DWQMS) is the standard upon which operational plans are based. The plan documents an operating authority's quality management system (QMS).
- An Accredited Operating Authority. A third-party audit of an operating authority's QMS will be the basis for accreditation.
- A Permit to Take Water.
- A Financial Plan that must be prepared, based on up-to-date rates, and approved in accordance with the prescribed requirements in the Financial Plans Regulation. Up to date rates are a key part Financial Plan foundation. The preparation of rates is the main purpose of this project. The Financial Plan will be presented in a separate document.

Under section 30 of the SDWA, the Financial Plans element of the licence program must either be prepared in accordance with the Sustainable Water and Sewage System Act, 2002 (SWSSA) or in accordance with the requirements set by the Minister of the Environment. SWSSA regulations were not published for ten years and accordingly SWSSA act is no longer in force and has lapsed. Accordingly, the requirements set by the Minister of Environment apply and these are the 2007 MOE Regulation 453/07 and MOE guidelines.

Regulation 453/07 of the Safe Drinking Water Act 2002 was passed in 2007, and contains two key provisions that apply to existing water systems:

- *"A person who makes an application under the Act for a municipal drinking water licence shall, before making the application, prepare and approve Financial Plans for the system that satisfy the requirements of Reg. 453/07."*
- *"As a condition in a municipal drinking water licence that is issued in response to an application made under section 33 of the Act for a municipal drinking water licence, the Director shall include a requirement that the owner of the drinking water system, by the later of July 1, 2010 and the date that is six months after the date the first licence for the system is issued, prepare and approve Financial Plans for the system that satisfy the requirements prescribed Reg. 453/07."*

The review of capital and replacement needs, and the preparation of fully sustainable rates is the foundation for the financial plans. In August 2007, the MOE published "Toward Financially Sustainable Drinking-Water and Wastewater Systems". This document provides an outline of the province's approach and principles for developing the above-mentioned Financial Plans, including the rates. Achieving financial sustainability in the province's municipal and water and wastewater sector is the long-term goal.

The above MOE publication set out nine principles to guide the preparation of Financial Plans and by implication, water rates:

1. *Ongoing public engagement and transparency can build support for, and confidence in, financial plans and the system(s) to which they relate.* The owner of the drinking water system must make the Financial Plan available, on request, to members of the public who are served by the drinking water system without charge, publish them on the internet, if one is available, and provide notice to the public of the availability of the document.

2. *An integrated approach to planning among water, wastewater and storm water systems is desirable given the inherent relationship among these services*. If one entity plans for both water and wastewater, then this arrangement allows owners and operators to make more rational decisions about operations, capital investment and environmental protection – choices that the recognize the inter-relationship between water and wastewater services. Many municipalities, where water users are metered, pay for the costs of wastewater services by levying a surcharge on water rates. This is a valuable linkage, as those who use water will generate equivalent amounts of water. However, the guideline encourages municipalities to structure their accounts to reflect the three separate activity areas: water, wastewater, and storm water. Costs are to be computed on a service basis for water, and separately for wastewater. Separating fire protection costs from other system costs is desirable. Recovering costs for storm water through a surcharge on water bills does not satisfy the user pay principle.

3. *Revenues collected for the provision of water and wastewater services should be used to meet the needs of those services.* This can be done by establishing dedicated reserves, in which excess utility revenues above current cash costs and capital expenditures are saved for future utility needs.

4. *Financial planning with midcourse corrections is preferable to planning over the short term, or not planning at all*. It is recommended that utilities, when they undertake capital

investment planning, adopt a planning horizon that encompasses the entire life cycle of the asset base. This may not be immediately possible, but in the interim, a planning horizon of at minimum 35 years is desirable.

5. *An asset management planning approach is a key input to the development of a financial plan*. An especially useful starting assumption, in preparing capital investment plans is that each asset will need to be replaced at the end of the estimated life that is assigned to it for accounting purposes. The intent of an asset management plan, the rates and accompanying financial plan is to ensure that when assets need to be maintained, rehabilitated, or replaced; municipalities are in a financial position to do so.

6. *A sustainable level of revenue allows for reliable service that meets or exceeds environmental standards, while providing sufficient resources for future rehabilitation and replacement needs.* A sustainable utility is one that can adequately cover current operating costs, maintain, and repair its existing asset base, replace assets when appropriate, fund future growth and service enhancements, and account for inflation and changes in technology. Capital expenditures can be funded through user fees, new debt issuance and cash reserves. The use of debt is limited by the municipality's debt ceiling. Many municipalities wish to avoid the use of debt and, accordingly, need to raise additional revenues from ratepayers today to pay for future investment needs. According to the guidelines, it is a good practice for the funding plan to identify the contribution of various funding sources towards satisfying capital investment plan requirements over the projection periods. A related best practice is for the funding plan to include projected balances for debt and cash reserves in each period of the projection horizon. Additional best practices include:
    - Avoiding large fluctuations in rates from year to year
    - Keeping debt within a sustainable level
    - Avoiding depleting cash reserves or, conversely, building up large cash balances that do not reflect future cash needs

7. *Ensuring users pay for the services they are provided leads to equitable outcomes and can improve conservation. In general, metering and the use of rates can help ensure users pay for services rendered.* Rate structures should promote financial sustainability and water conservation. Metering and the use of rates are preferable to cross subsidization using property taxes.

8. *Financial Plans are living documents that require continuous improvement. Comparing the accuracy of financial projections with actual results can lead to improved planning in the future.* From time to time, it is good practice to review the accuracy of projections in both capital investment and funding plans. The appropriate frequency is likely to be once in 3 to 5 years.

9. *Financial Plans benefit from the close collaboration of various groups, including engineers, accountants, auditors, utility staff, and municipal council*.

In summary, this rate report has been prepared in line with the various pieces of MOE legislation and regulations and with the above-mentioned MOE guideline document.

3.0 WATER SERVICE FINANCING OPTIONS

Municipalities have several alternatives available to fund water and wastewater services:

Development Charges - Such charges are applied to developers and others connecting new non-serviced areas or lots to the existing water systems. Most of the growth-related costs of building additions to the system are passed on to these developers or new customers. Existing users may have to pay some costs of accommodating new growth, as part of these new developments have features that benefit existing users, but are spared the bulk of the capital cost of expanding infrastructure to accommodate new users to the system. The Township, in 2024, commissioned a development charge study in accordance with the development charges act (DC). This report will use the growth numbers as a guide and the funding allocations between existing and new users set out in the 2024 report. Development charge funds are placed in a dedicated reserve fund, separate from user fee-based rates, and used to fund growth-related projects, including new wells, reservoir expansions, new plant components and pipe oversizing.

Connection Charges - Fees are charged to landowners who connect to the system. The fee covers the cost to the water utility associated with installing a service line from the existing water main or large sewer to the edge of the property line. Connection fees are assessed in this study.

Government Grants - The Ontario and Federal governments provide funding on a shared basis with municipalities. The formula is one-third Federal government, one third Provincial government and one third municipal funding. Capital grants have been received to financially assist in projects to accommodate growth. No additional grants are assumed for the water projects set out in this study. Should grants be received in future, they will be applied to the approved projects.

Reserves - Reserves are quantities of funds, drawn from user fees, and set aside to deal with unexpected equipment repairs, and to renew ageing water systems. Increasingly, municipalities are carrying out studies to look out 30 to 100 years to identify capital renewal or replacement projects that need to be sustainably funded, in large part, by reserves. The Township, as of December 31, 2023, has a combined water system reserve surplus of $3,108,921 and the wastewater system has a deficit of $4,638,491. Reserves will need to be replenished in the future and be used to fund future water capital renewal projects. Funds are set aside from the water and wastewater operating plans, and loans are used to sustain these funding needs.

Debentures/Loans – In many Ontario water systems, money has traditionally been borrowed in the form of debentures to provide upgrades to service existing users. Utilizing debentures and loans allows principal and interest to be recovered over a long time, spread over many future water users, rather than having the full cost burden fall on one group of water users at one time. The water and wastewater systems each have outstanding loans currently and more debt is projected soon.

User Fees – Smaller, recurring capital maintenance and renewal projects are often financed out of the annual operating funds of the water system. User fees also contribute to the reserves and cover all the costs not covered by other financing approaches. In 2019, user fees were established based on projected growth. That growth did not materialize due to Covid. Catch up is now needed.

In this project, revenue generation will rely upon user fees, development charges, connection fees, local improvement charges, loans and reserves derived from user fees.

4.0 WATER RATE TYPES

There are several rate types that are in use in Ontario. These are as follows:

Flat Rate - All users are assessed an annual fee that does not depend on the amount of water used. This approach, by necessity, is utilized when users are not metered. All Clearview users are metered, and no flat rates are assessed for water.

Decreasing Block - Users pay less per cubic metre as water use exceeds a certain pre-set amount. This rate provides an economic advantage to large industrial or institutional water users. The Township does not utilize a decreasing block. All Township water system users pay the same volumetric charge.

Increasing Block - Users pay more per cubic metre as water use increases beyond a pre-set amount. This is sometimes called the conservation rate, as it was designed to encourage large users to be more careful with their water use. The Township charges all users the same amount per cubic metre and does not use the increasing block method.

Two-part Constant Unit - The user pays a fixed fee that covers a small amount of the total water costs, usually metering and billing costs, plus the same charge for all users for each cubic metre of water used. Clearview currently utilizes this rate type, and it is recommended that this be continued in the future.

Seasonal Rate – Higher rates in the summer are applied to those who take more water in summer than in winter. This is often used when the system is closest to capacity. This is not utilized by the Township and is not proposed currently.

Flat rates are commonly utilized in less than a tenth of Ontario municipalities that are not metered, and in communities that are only partially metered. Decreasing block rates were formerly exceedingly popular, as they provided some relief for large users. However, the popularity of this rate type is declining. The management of a system that is reaching capacity, and will face expensive expansion, often employs increasing block rates. The two-part constant unit rate is now the most used rate type. It is recommended that the Township continue with the two-part constant unit rate for setting 2024 and future rates. The current rate is set out in table 4.1.

4.1 CLEARVIEW 2023 WATER RATE

Table 4.1 Clearview 2024 Water and Wastewater Rates $

Fixed Meter Charge per Year	$177.00
Volumetric Rate per Cubic Metre (220 gallons)	$2.81
Sewer Surcharge on the Total Water Bill	86.20%
Note: large users will have their sewer surcharge adjusted to actual flows and will be subject to extra strength agreement charges	

The water bill for someone using two hundred cubic metres of water per year would be $177 plus two hundred multiplied by $2.81 ($562) for a total water bill of $739. The wastewater bill would be the total water bill of $739 multiplied by 86.2% or $637.

5.0 PROPOSED WATER SYSTEM RATES FOR 2025-2034

5.1 WATER SYSTEM RATE SETTING ASSUMPTIONS

The water rate setting process in this report begins by establishing a financing plan for 2024-2034. This plan contains information about various system attributes, such as future revenue sources, the projected day-to-day expenditures needed to operate the system, estimated future capital projects to 2123 to provide for system asset renewal and replacement, growth needs, reserves, and debt. Water sold and the number of connections is projected. Several assumptions have been made:

• Inflation (capital)	Capital 3.0% per annum 2025-2123
• Inflation (operating)	Services 4.4% per annum 2025-2123 Equipment 4.8% per annum 2025-2123 Labour 3% per annum 2025 to 2123
• Interest on investments	0%
• New Loan-Debt interest/Loan period	4.5% for a 20-year term
• New connections	150 per year 2025-2034
• Water main life expectancy	105 years for most and longer for cast iron

5.2 CAPITAL RENEWAL EXPENDITURES NEEDED

Projecting future capital renewal and replacement expenditures is a particularly key step in developing sustainable rates. In this project, the Township's asset database prepared by R.J. Burnside and Associates in 2005, and updated by Township staff since then, was a starting point. This database sets out the initial costs of an asset, when the asset was installed, and set the cost of each asset to 2005 costs. Based on the life expectancies of each asset, a future renewal and replacement schedule was developed for 2024-2123. For example, an asset installed in 1994, with a 30-year life, is scheduled for replacement in 2024. The 2005 values were inflated to 2024 replacement costs, the year when the asset is scheduled for replacement. Water mains, with a 105-year life, installed in 1994 will be replaced in 2099, with 2005 original cost values inflated to 2099 costs. This approach was used for all assets out to 2123. The detailed capital costs for 2024-2034 are set out in appendix H. The projected asset replacement schedule, and their future costs for 2024 to 2123, as well as growth projected investment, are summarized in figure 5.1.

The Township is also anticipated to experience very substantial growth over the next twenty years. This is included set out in table 5.1. The user fee supported growth costs are set out in figure 5.2:

Figure 5.1 Future Costs of Water Asset Renewal and Replacement 2024-2124 Inflated $

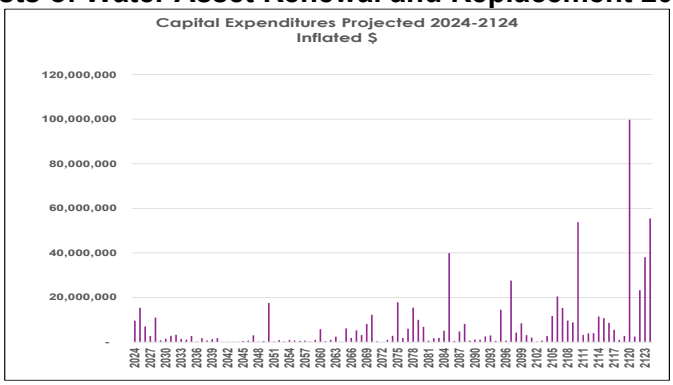


Table 5.1 Clearview Water System Capital Expenditures and Sources of Financing 2024-2034 Inflated $

		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
	Capital Renewal and Replacement for Assets reaching the end of their useful lives											
1	Projected Capital Renewal - Inflated $	314,500	2,724,350	875,773	2,721,437	114,239	809,173	1,477,043	2,815,796	3,279,034	1,461,346	1,079,837
2		-	-	-	-	-	-	-	-	-	-	-
3	**Financing**	-	-	-	-	-	-	-	-	-	-	-
4	Grants	-	-	-	-	-	-	-	-	-	-	-
5	Loan	-	-	-	-	-	-	-	-	-	-	-
6	Other Revenues	-	-	-	-	-	-	-	-	-	-	-
7	User Fees	314,500	2,724,350	875,773	2,721,437	114,239	809,173	1,477,043	2,815,796	3,279,034	1,461,346	1,079,837
8	Sub-Total Renewal Financing	314,500	2,724,350	875,773	2,721,437	114,239	809,173	1,477,043	2,815,796	3,279,034	1,461,346	1,079,837
9												
10	**Capital Investments for Growth Supported Largely by Non-User Fee Revenue Sources to 2034 as per the 2024 DC Study**											
11												
12	Projected Growth Expenditures	7,875,500	12,709,376	6,079,594	-	10,894,250	-	-	-	-	-	-
13												
14	**Proposed Financing (As per the 2024 DC Study)**											
15	Grants	-	-	-	-	-	-	-	-	-	-	-
16	Development Charges	6,471,004	-	1,008,754	-	10,894,250	-	-	-	-	-	-
17	Local Imp.	1,404,496	-	1,703,161	-	-	-	-	-	-	-	-
18	Developer Contributions	-	12,709,376	-	-	-	-	-	-	-	-	-
19	User Fees	-	-	3,367,679	-	-	-	-	-	-	-	-
20	Sub Total Projected Financing	7,875,500	12,709,376	6,079,594	-	10,894,250	-	-	-	-	-	-
22												
23	**Capital Expense Funding Summary**											
24	Total User Fee Funding Needed	314,500	2,724,350	4,243,451	2,721,437	114,239	809,173	1,477,043	2,815,796	3,279,034	1,461,346	1,079,837
25	Total Development Charge Funding	6,471,004	-	1,008,754	-	10,894,250	-	-	-	-	-	-
26	Local Improvement Charges	1,404,496	-	1,703,161	-	-	-	-	-	-	-	-
27	Developer Contributions	-	12,709,376	-	-	-	-	-	-	-	-	-
28	Total Capital Expenditures Inflated $	8,190,000	15,433,726	6,955,366	2,721,437	11,008,489	809,173	1,477,043	2,815,796	3,279,034	1,461,346	1,079,837
29												
30	**Revenues**											
31	Total User Fee Funding Provided from Capital Reserve	- 314,500	- 2,724,350	- 4,243,451	- 2,721,437	- 114,239	- 809,173	- 1,477,043	- 2,815,796	- 3,279,034	- 1,461,346	- 1,079,837
32	Total Development Charges from Operating Plan	- 6,471,004	-	- 1,008,754	-	- 10,894,250	-	-	-	-	-	-
33	Other Revenues from Operating Plan	- 1,404,496	-	- 1,703,161	-	-	-	-	-	-	-	-
34	Developer Contributions from Operating Plan	-	- 12,709,376	-	-	-	-	-	-	-	-	-
35	Total Financing	- 8,190,000	- 15,433,726	- 6,955,366	- 2,721,437	- 11,008,489	- 809,173	- 1,477,043	- 2,815,796	- 3,279,034	- 1,461,346	- 1,079,837
36	Total Capital Cost Inflated $	8,190,000	15,433,726	6,955,366	2,721,437	11,008,489	809,173	1,477,043	2,815,796	3,279,034	1,461,346	1,079,837
37												
38	Net	-	-	0	-	-	-	-	-	-	-	-

Figure 5.2 Projection of Capital and User Fee Financed Capital Projects 2024-2050 Inflated $

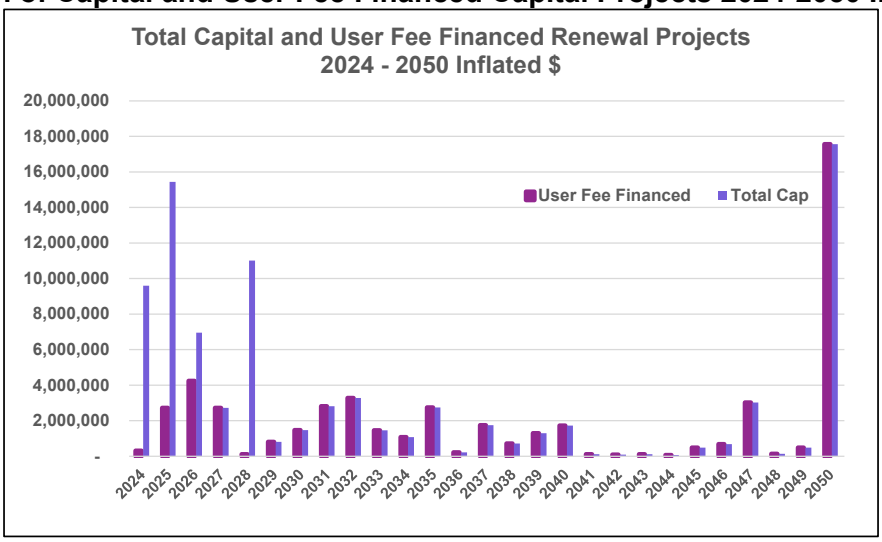


Figure 5.2 provides a medium-term perspective on capital needs. There is substantial capital spending projected for 2024 to 2028, due to new development, with a major water main replacement scheduled for 2025. The exact timing of this replacement will depend upon an engineering assessment of their condition. The increases in the 2040s and 2050s are due to water main replacement in Creemore, and major main replacement in Stayner, as well as replacement of a well and pumping station. There are very substantial capital needs in the latter part of the century, as buildings and underground assets are projected to have reached the end of their life and need replacing. There may be additional capital expenditure in the future for growth not currently shown beyond ten years. That need for growth capital will become clearer when the next development charge study is undertaken in the next ten years.

The capital investment needed for ongoing capital replacement and renewal needs represents a substantial cost pressure on rates over many years, however, the increase in projected numbers of new users will help offset some of these cost pressures. The financing plan is designed to finance all of these and other projected renewals to 2123. Not included are capital expenditures needed to comply with new regulations that may be implemented in the future.

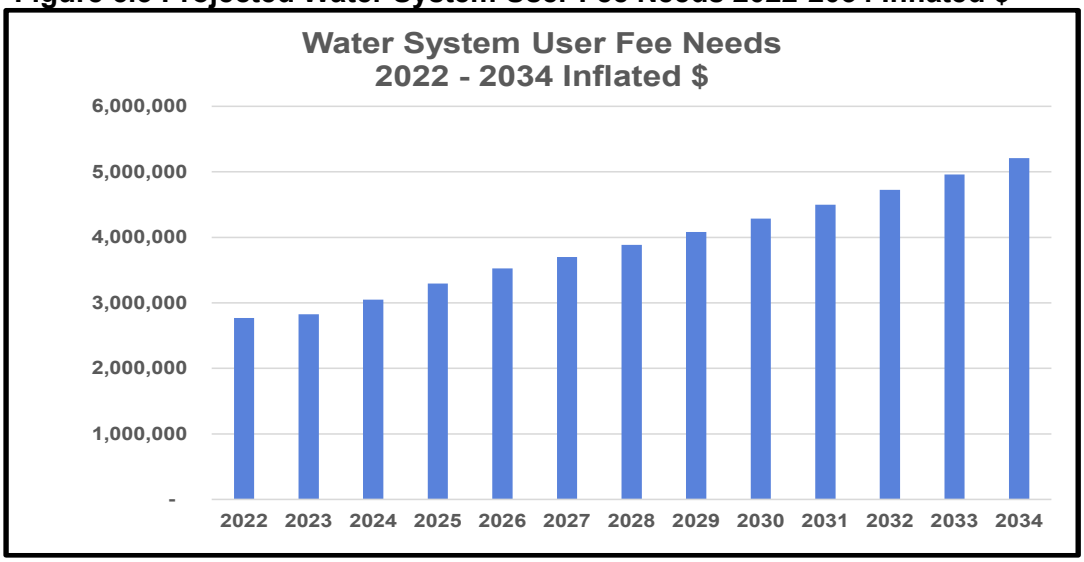
5.3 SUMMARY OPERATING PLAN

The summary operating financial plan for the water system sets out the revenues and expenditures and summarizes the financing strategy for the water system. The objective, adopted in this study, is that development charges pay for much of the growth components of projects. This was identified in the development charges review study undertaken in 2024. Following that, user fees are utilized to finance projected asset renewal expenditures, with loans used to finance major projects in the near term. The summarized operating financial transactions for 2020 to 2034 are shown in table 5.2. Detailed transactions setting out various revenue sources, routine day-to-day expenses, transfers, and debt repayment are shown in appendix A.

5.3.1 User Fee Requirements

Revenues are comprised primarily of revenues from user fees, development charges, and to a lesser degree, from hook-up fees and late payment charges on overdue accounts. Contributions from the capital reserve augment revenues in particular years when large capital expenditures occur. The projected user fee revenue needs are set out in line 1 of table 5.2, and are illustrated graphically in Figure 5.3 below:

Figure 5.3 Projected Water System User Fee Needs 2022-2034 Inflated $

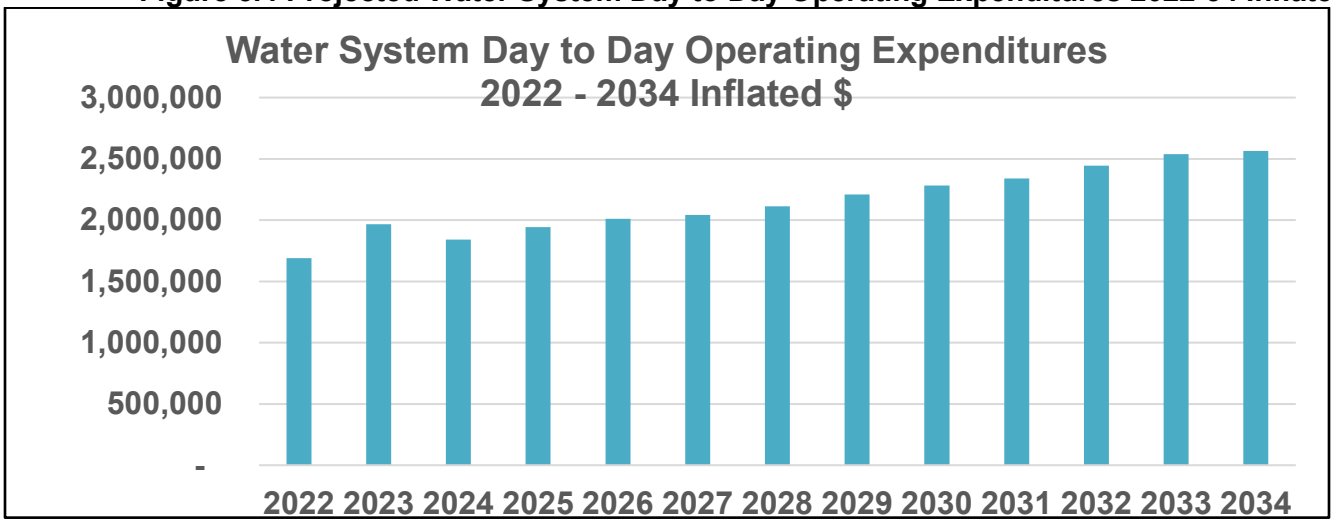


User fees are projected to increase on a yearly average of 7-8% per year from 2025-2026, and about 5% per year to 2034 and 4% to 2123. Included in the user fee increase is provision for the inflation of operating costs of 3 to 4% per year, and inflation of currently projected capital costs of 3% per year. The proposed schedule of user fee increases funds all routine projected operating costs and provides sufficient revenue to cover the currently projected capital asset renewal and replacement needs, as well as the user fee portion of growth expenditures to 2034 and beyond.

5.3.2 Operating Expenses

Operating expenditures represent the routine day-to-day costs of operating the system, and include electrical, chemical, testing and a variety of other costs. Excluded, for purposes of this analysis, are debt payments, consulting costs, and transfers to capital or reserves. Projected day-to-day operating expenditures are summarized in line 3 in table 5.2, shown in appendix A, and are illustrated in figure 5.4.

Figure 5.4 Projected Water System Day to Day Operating Expenditures 2022-34 Inflated $



Fluctuations in expenditures are normal. Day-to-day operating costs are projected to increase overall at the rate of inflation to 2034. Year to year fluctuations in 2023 are due to one time consultant studies that are partially or fully offset with development charges.

5.3.3 Debt

The water system has four outstanding loans currently. One is a $3 million 20-year loan taken out for Stayner water in 2006, to be paid off in 2026. This loan is 55% recovered through development charges. The second is a Creemore water loan for $800,000 taken out in 2009 for 20 years and is paid for by user fees. A third Stayner loan for $1.15 million was taken out in 2017. DCs pay 80% of the cost of this this loan. The fourth loan is for $6 million for the Airport Road watermain taken out in 2019. It has an interest rate of 2.6% and DCs pay for 90% of the cost of this loan.

A 20-year $1.6 million loan at 4.5% is proposed for 2025 to fund capital renewal from user fees. No further long-term debt is projected. All debt will be paid off in 2039. Utilizing long-term loans is a sound strategy, as the benefits of the capital renewal will last many years, and it is appropriate that the cost be spread over both current and future users.

5.3.4 Reserves

The combined capital and operating reserve total as of December 31, 2023, had a surplus of $3,108,921.

This reserve, as shown in table 5.3, The full reserve year ends to 2123 is shown graphically in appendix F.

Table 5.2 Clearview Summary Water System Financial Plan 2020-2034 Actual $ 2021-23 and inflated $ 2020-2034

		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
	Operational															
1	User Fees	- 2,596,487	- 2,892,131	- 2,767,936	- 2,824,328	- 3,050,274	- 3,294,296	- 3,524,896	- 3,701,141	- 3,886,198	- 4,080,508	- 4,284,534	- 4,498,760	- 4,723,698	- 4,959,883	- 5,207,877
2	Earned DC Revenues	- 585,984	- 499,000	- 585,984	- 585,984	- 7,043,255	- 564,924	- 1,502,358	- 422,286	- 11,309,746	- 401,226	- 394,206	- 387,339	- 380,000	- 373,000	- 366,000
3	Local Improvement	-	-	-	-	- 1,404,496	- 73,023	- 1,776,184	- 161,574	- 161,574	- 161,574	- 161,574	- 161,574	- 161,574	- 161,574	- 161,574
4	Developer Contributions	-	-	-	-	-	- 12,709,376	-	-	-	-	-	-	-	-	-
5	Other	- 66,826	- 73,809	- 168,134	- 127,183	- 135,383	- 143,274	- 144,127	- 144,995	- 145,878	- 146,776	- 147,690	- 148,620	- 149,565	- 150,527	- 151,506
6	Loan/Debentures - User Fee Based	-	-	-	-	-	- 1,600,000	-	-	-	-	-	-	-	-	-
7	Total Revenues	- 3,249,297	- 3,464,940	- 3,522,054	- 3,537,495	- 13,037,071	- 18,384,892	- 6,947,565	- 4,429,996	- 15,503,396	- 4,790,084	- 4,988,003	- 5,196,292	- 5,414,837	- 5,644,984	- 5,886,957
8	Day to Day Expenses	1,659,082	1,681,505	1,688,474	1,966,835	1,840,142	1,940,846	2,010,259	2,042,246	2,112,762	2,208,664	2,282,189	2,339,483	2,443,044	2,538,033	2,564,529
9	Debt Charges	827,871	820,882	810,127	803,825	2,204,179	865,395	823,876	787,720	780,176	739,603	699,287	691,487	683,857	677,065	669,376
10	Transfer to Capital Reserves	664,970	915,995	1,009,007	761,836	1,117,251	2,869,274	1,401,516	1,600,030	1,716,208	1,841,817	2,006,528	2,165,323	2,287,935	2,429,886	2,653,052
11	Transfer to Capital Local Improvement	-	-	-	-	1,404,496	-	1,703,161	-	-	-	-	-	-	-	-
12	Transfer to Capital - Developer Contr.	-	-	-	-	-	12,709,376	-	-	-	-	-	-	-	-	-
13	Development Charges - Earned DC Rev	-	-	-	-	6,471,004	-	1,008,754	-	10,894,250	-	-	-	-	-	-
14	Total Expenses	3,151,923	3,418,382	3,507,607	3,532,497	13,037,072	18,384,891	6,947,566	4,429,996	15,503,396	4,790,084	4,988,003	5,196,292	5,414,837	5,644,984	5,886,957
15	Net	- 97,374	- 46,558	- 14,447	- 4,998	0	- 0	0	-	- 0	-	-	-	-	-	-

Table 5.3 Clearview Water System Combined Reserve 2024-2034 in Inflated $

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Opening Value	3,108,921	3,911,672	4,056,596	1,214,660	93,254	1,695,223	2,727,867	3,257,352	2,606,878	1,615,779	2,584,320
Addition (Withdrawl) from (to) Ops	1,117,251	2,869,274	1,401,516	1,600,030	1,716,208	1,841,817	2,006,528	2,165,323	2,287,935	2,429,886	2,653,052
Transfer (to) from Capital	(314,500)	(2,724,350)	(4,243,451)	(2,721,437)	(114,239)	(809,173)	(1,477,043)	(2,815,796)	(3,279,034)	(1,461,346)	(1,079,837)
Close	3,911,672	4,056,596	1,214,660	93,254	1,695,223	2,727,867	3,257,352	2,606,878	1,615,779	2,584,320	4,157,535
Close in 2024$	3,911,672	3,938,443	1,144,934	$ 85,341	$ 1,506,184	$ 2,353,082	$ 2,727,981	$ 2,119,631	$ 1,275,511	$ 1,980,666	$ 3,093,596

Table 5.4 Past and Projected Water Sales in the Clearview Water System 2020-2034

Summary Water Use	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Total Sold (M3)	911,132	914,359	897,010	822,867	890,002	908,022	926,117	944,056	962,045	980,095	998,148	1,016,190	1,034,259	1,052,347	1,070,445
Reinehart/Brewery Usage (M3)	266,582	302,814	278,496	231,431	264,170	264,170	264,170	264,170	264,170	264,170	264,170	264,170	264,170	264,170	264,170
Other Industrial	49,940	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial	100,969	107,531	112,597	101,898	105,374	104,847	104,323	103,801	103,282	102,766	102,252	101,741	101,232	100,726	100,222
Institutional	12,018	12,217	14,721	22,131	21,904	21,961	22,073	22,014	21,985	22,009	22,020	22,007	22,006	22,011	22,011
Muncipal MR	9,353	10,494	9,379	8,023	9,312	9,285	9,280	9,284	9,290	9,285	9,285	9,286	9,286	9,285	9,286
Municipal	733	1,162	1,353	1,506	1,189	1,207	1,211	1,205	1,203	1,207	1,206	1,205	1,205	1,206	1,206
Residential Usage Pre 2024 User Group	471,534	484,555	470,160	457,721	468,106	465,766	463,437	461,120	458,814	456,520	454,237	451,966	449,706	447,458	445,221
Number of New Residential Users/Yr post 2023	0	0	0	0	144	151	151	151	151	151	151	151	151	151	151
Cumulative Number of Residential Users Post 2023	0	0	0	0	144	295	446	597	747	898	1,049	1,200	1,350	1,501	1,652
Total Residential Use Post 2023	0	0	0	0	21,215	43,377	65,538	87,699	109,860	132,022	154,183	176,344	198,505	220,666	242,828
Total	911,129	918,773	886,706	822,710	891,270	910,612	930,031	949,292	968,605	987,978	1,007,353	1,026,719	1,046,111	1,065,522	1,084,942

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5.4 TOWNSHIP WATER SALES/CONNECTIONS

5.4.1 Water Sales 2020 - 2034

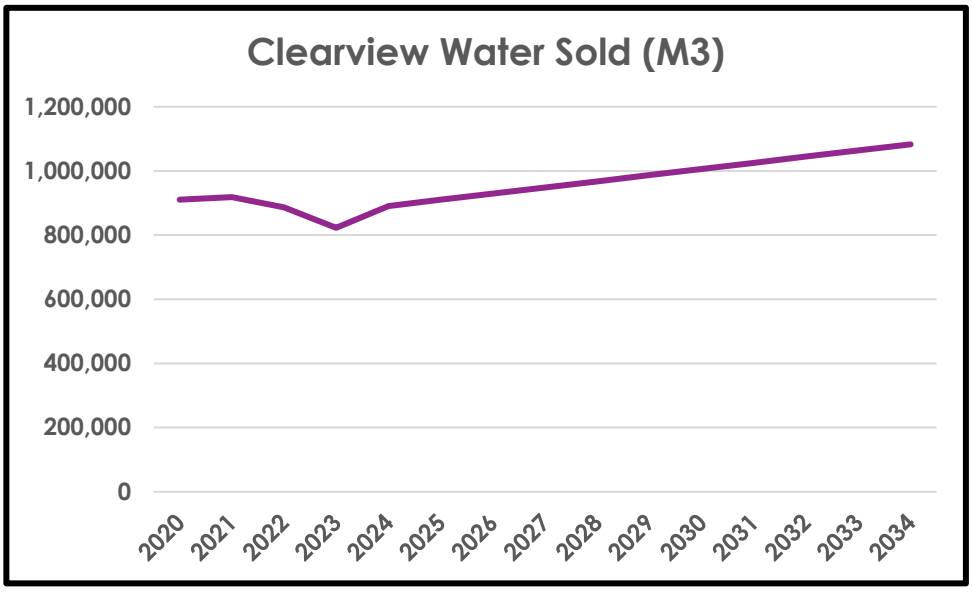
Water sold is water that a user had paid for. The actual sales from 2020-2023, and projected sales from 2024 to 2034 are set out in table 5.4 (above):

The water sold data are based on Clearview yearly billing summaries for 2020 to 2023. The use by large industrial users has some year-to-year fluctuations. The usage for the past five years has been averaged to yield a projection of future water use. Large industrial use accounts for about 30%, and smaller industrial, commercial, and institutional use account for about 10% of the amount of water sold. The balance is residential usage. The very large users have no doubt adopted some water conservation measures already, based on previous years water use trends. There is a low probability that these users may take additional steps to further improve their water efficiency over the next decade.

From 2024 to 2034, the rate setting period, total water sold to existing residential and smaller industrial commercial and institutional (ICI) users is projected to decline slightly due to conservation. This is a result of provincial plumbing regulations, enacted in 1991, requiring installation of water efficient fixtures (toilets, showers, and faucets) in all new connections, and the restrictions on the sale of toilets that use more than six litres per flush. In addition, people conducting renovations will replace currently inefficient fixtures with more water efficient ones. Highly efficient front-load washing machines are now immensely popular with homeowners. An annual improvement in water use efficiency of .05% per annum is assumed in all connections, meaning a decline in water sold of about .05% per year. According to the 2024 DCA study, there will be some growth in ICI users over the next ten years. However, there has been no increase in commercial water use over the past four years, and no increase is projected in the future.
,
The big change in the next ten years is the major projected increase of 150 new residential units connected to the water system per year for 2025 to 2034. New residential users added to the system post 2023 will be using water efficient fixtures required by the changes to the plumbing code. They will use significantly less per person per day than those using older model fixtures and fittings. This assumption is included in the estimates above. New users, as a group, even though they have more efficient fixtures than existing users, will add significantly to overall water sales by the Township.

This growth in projected water use helps reduce some impact on rates associated with the increase in user fees. The actual water use for 2020-23, and the projected water sales to all water users from 2024 to 2034 are set out graphically in figure 5.5.

Figure 5.5 Projected Water Sales in the Clearview Water System 2020-2034 in M3



5.4.2 Projected Number of Customers

The current number of customers, and the projected customers, are set out in table 5.5. The increase is made up of residential as well as industrial, commercial, and institutional (ICI) connections.

Table 5.5 Total Number of Clearview Water System Customers 2020-2034

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Stayner	1,737	1,773	1,810	1,916	2,013	2,115	2,217	2,319	2,421	2,524	2,626	2,728	2,830	2,932	3,034
Creemore	540	545	544	546	559	574	588	602	616	630	644	658	672	686	700
New Lowell	333	334	334	334	358	384	410	435	461	487	512	538	563	589	615
Buckingham Woods	37	38	46	49	49	49	49	49	49	49	49	49	49	49	49
Nottawa (McKean)	138	138	138	138	147	156	165	174	183	192	201	210	219	228	237
Collingwoodlands	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
Rural					0	0	0	0	0	0	0	0	0	0	0
Total	2,868	2,911	2,955	3,066	3,210	3,360	3,511	3,662	3,813	3,964	4,114	4,265	4,416	4,567	4,717
Increase in Accounts		43	44	111	144	150	150	150	150	150	150	150	150	150	150

The number of connections by 2034 is 60% higher than the number in 2020, if the projected growth materializes. This is based on a projected increase of 150 per year in the number of new residential customers from 2025 to 2034. There will also be a minor increase in the number of ICI customers, as well as the loss of some of the pre-2024 customers. This will result in constant use by commercial and institutional use. The increase in the number of residential customers will help keep rates lower than would be the case otherwise.

5.5 WATER RATE CALCULATIONS

Rates are calculated by considering the user fee revenue requirements, and by considering future projected water use and the number of connections. As illustrated in figure 5.3, user fees are projected to increase. This would normally cause rates to rise substantially. However, the number of new users will help offset some of the projected increase in user fees. For purposes of computing rates for the next ten years, this report will assume that 150 residential users are added to the system each year. The numbers used in this report are less than shown in the 2024 DC study due to the lack of success in obtaining a large, requested capital grant. The resulting water usage and numbers of users are set out in tables 5.4 and 5.5.

The rates recommended in this study will utilize the two-part rate structure currently in use. One part of this rate is a fixed cost applied to all users regardless of water use. The second part is the cost per cubic metre that depends on the amount of water used. The more that is used, the higher the water bill. All costs that are not included in the fixed portion of the rate are included in this rate component. The fixed costs usually generate about 20% of revenues, while the variable charge generates the balance of the revenue. The proposed rates are set out in table 5.6.

Table 5.6 Clearview Proposed Two-Part Water Rate 2024-2034 Inflated $

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Fixed Portion per Year	177	186	196	207	219	230	240	248	257	264	273
Variable Portion per M3	2.81	2.93	3.05	3.10	3.15	3.21	3.28	3.35	3.43	3.52	3.61

The proposed rates in table 1.1 represent an increase of 4 to 5% per year from 2025 to 2034. Inflation in operating expenses is over 4% and inflation in capital expenditures is projected at 3%. This rate increase is needed to cover inflation as well as upcoming large capital renewal and replacement investments. Hypothetical water bills associated with these rates are set out in table 1.2.

If the increase in number of residential users added to the system is less than projected, and capital expenditures remain as projected, then the rates will have to adjusted upward to maintain the needed revenue flow to renew infrastructure.

Rates and the annual increase in rates is very much related to the number of new users in the future. The revenues generated by the new rates are set out in appendix C.

5.6 SAMPLE MONTHLY WATER BILLS FOR VARIOUS USER GROUPS

A few hypothetical user groups were selected to determine the impacts of the two proposed rate options. Both options produce the required operating and future capital needs of the system. The water bills are set out in table 5.7.

Table 5.7 Annual Projected Water Bills of Various Hypothetical Users 2024-34 Inflated $

Hypothetical User	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Single Person with 70 M3/Year	374	391	409	424	440	454	469	483	497	511	526
Couple with 125 M3 per Year	528	553	577	595	613	631	649	667	686	704	725
Family 300 M3 per Year	1,020	1,065	1,111	1,137	1,164	1,192	1,222	1,253	1,286	1,321	1,357
User with 231431 M3/Year	650,498	678,352	706,296	717,546	729,122	742,923	758,178	776,003	794,475	815,769	836,782

A user taking seventy cubic metres per year is projected to pay $374 in 2024, and $454 by 2029. Someone using 125 cubic metres per year will pay $528 in 2024, and $631 in 2029. A user of three hundred cubic metres per year will pay a water bill of $1020 in 2024, and $1,192 in 2029. A very large user will pay about $650,573 per year in 2024, increasing to $742,923 in 2029. All figures are in inflated dollars.

5.7 WATER BILL COMPARISONS WITH OTHER COMMUNITIES

The projected water bill for Clearview user is compared with water bills for several communities in Ontario. The usage for all communities is 200 cubic metres per year. All users are assumed to have a standard 15mm (5/8 by ¾") meter. The bill comparisons are set out in table 5.8.

Table 5.8 Water Bills of Communities in Simcoe County or have Small Systems 2024

Utility	Water Bill
Collingwood	$442
Barrie	$434
Penetanguishene	$446
Springwater Residential	$618
Clearview	$739
Springwater Commercial	$916
Kawartha Lakes	$1,006
Adjala-Tosorontio	$1,037
Based on family usage of 200 M3 per Year	

Clearview's bills are based on full life-cycle capital renewal of all assets to 2123.

6.0 Proposed Wastewater System Rates for 2025-2034

6.1 WASTEWATER RATE SETTING ASSUMPTIONS

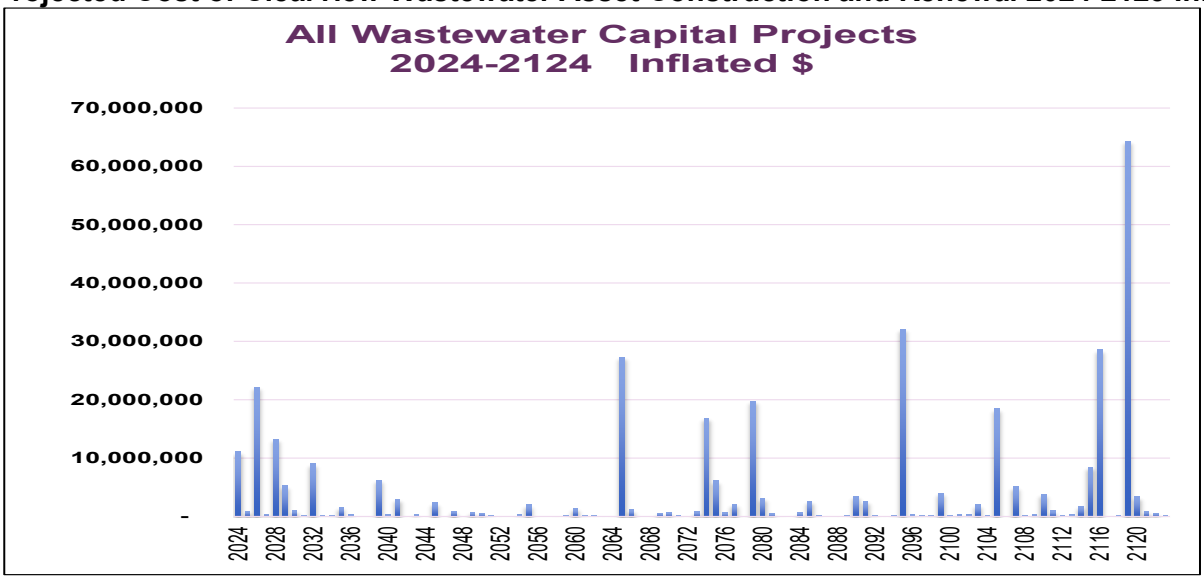
The wastewater rate setting approach begins by establishing a capital and major maintenance-financing plan, as well as an operating plan for 2024-2034. The capital plan is based on the capital needs estimates prepared by Burnside in 2005 and updated by Township staff. They cover the period from 2024 to 2123. The operating plan contains information about various system attributes, such as currently available information concerning various revenue sources, the day-to-day expenditures needed to operate the system, debt-servicing requirements, and existing reserve levels. The capital needs projections include funding for capital investments to renew assets as well as supporting growth. This is combined with the operating plan to produce an overall wastewater capital and operating financing plan, with user-fee revenues and loans adjusted to ensure sustainability. Users in both Creemore and Stayner pay the same wastewater rates. Several assumptions were made in preparing the capital and major maintenance programs as well as the operating plan:

Inflation	Capital and major maintenance 3% per Year Labour 3.0% per annum 2025-2123 Services 4.4% per annum 2025-2123 Equipment 4.8% per annum 2025-2123
Interest on reserve balances	0%
Interest on post 2023 loans	4.5%
Population growth/new connections	150 residential connections per year 2025 to 2034

6.2 CAPITAL AND MAJOR MAINTENANCE EXPENDITURES

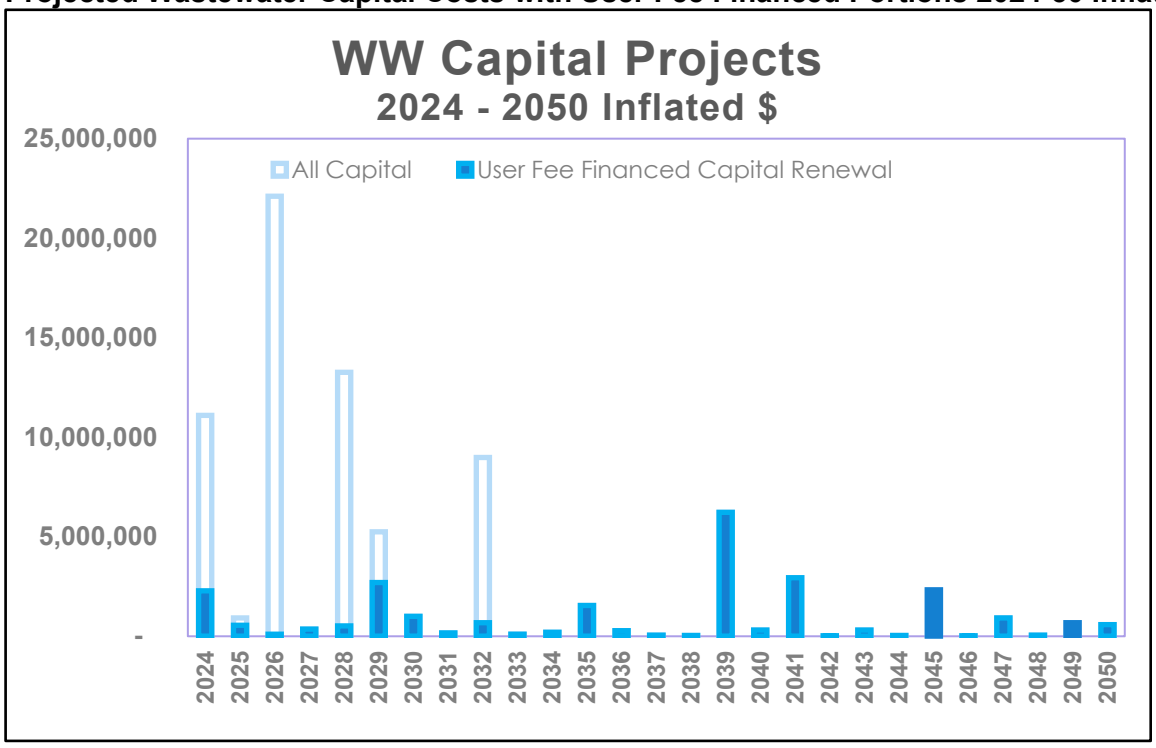
Projected capital and major maintenance renewals cost estimates were prepared by R.J. Burnside and Associates in 2005 and updated by Township staff since then. Also included are some of the projects anticipated in the 2024 DC study covering the next five years. Capital costs in the 2024 DC study that were dependent on a significant grant have been deleted. The detailed capital costs for 2024-2034 are set out in appendix I. The cost of all capital costs for the 2024 to 2123, in inflated dollars, are shown graphically in Figure 6.1.

Fig. 6.1 Projected Cost of Clearview Wastewater Asset Construction and Renewal 2024-2123 Inflated $



The long-term outlook presented in Figure 6.1 shows some near-term growth investments, and then large expenditures in the 2040s, and then again in the 2064-2079 period, as major existing system components need to be replaced. The short-term capital needs are set out in Figure 6.2. This shows the total cost of all projects, including those anticipated from 2024 to 2050 in the DC study in the light shade, and the user fee paid portion in the darker color.

Figure 6.2 Projected Wastewater Capital Costs with User Fee Financed Portions 2024-50 Inflated $



Much of the cost of the above, from 2024-2034, is projected to come from development charges and other fees. User fees, while they are responsible for a small portion of the project costs are still substantial. This is shown in table 6.1 and figure 6.2. Growth and development beyond 2034 will be covered in a future DC and rate study scheduled for 2029.

Table 6.1 Clearview Wastewater System Capital Renewal and Construction of New Infrastructure 2024-2034 Inflated $

		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
1	**Capital Renewal and Replacement Needs**											
2												
3												
4												
5	Total Renewal Investment	1,187,028	216,096	103,126	355,136	512,107	376,764	1,002,287	157,424	678,989	97,858	189,492
6												
7	**Financing**											
8	Grants	-	-	-	-	-	-	-	-	-	-	-
9	User Fees (Reserve)	1,187,028	216,096	103,126	355,136	512,107	376,764	1,002,287	157,424	678,989	97,858	189,492
10	Grants,Subsidies, Dev Fee	-	-	-	-	-	-	-	-	-	-	-
11	Total Financing	1,187,028	216,096	103,126	355,136	512,107	376,764	1,002,287	157,424	678,989	97,858	189,492
12												
13	**Capital Growth New Infrastructure Supported Largely by Non-User Fee Revenue Sources to 2034 as per the 2024 DC Study**											
16	Total New Infrastructure Invest.	9,913,938	697,516	22,016,327	-	12,752,015	4,876,023	-	-	8,304,594	-	-
17												
18	Financing											
19	Grants, Subsidies etc.	-	-	-	-	-	-	-	-	-	-	-
20	Development Charges	6,713,925	372,036	22,016,327	-	12,752,015	2,559,909	-	-	8,304,594	-	-
21	Post Benefit	-	-	-	-	-	-	-	-	-	-	
22	Local Improvement Charges	2,113,933	-	-	-	-	-	-	-	-	-	-
23	User Fees (reserve)	1,086,080	325,480	-	-	-	2,316,114	-	-	-	-	-
24												
25	Total Revenues	9,913,938	697,516	22,016,327	-	12,752,015	4,876,023	-	-	8,304,594	-	-
27												
28	Total User Fees Needed	2,273,108	541,576	103,126	355,136	512,107	2,692,878	1,002,287	157,424	678,989	97,858	189,492
29	Total Grants, Subsidies etc. Needed	2,113,933	-	-	-	-	-	-	-	-	-	-
30	Total Development Charges	6,713,925	372,036	22,016,327	-	12,752,015	2,559,909	-	-	8,304,594	-	-
31	Total Revenues Needed	11,100,966	913,612	22,119,453	355,136	13,264,121	5,252,787	1,002,287	157,424	8,983,583	97,858	189,492
32												
33	Total Capital Expenditures	11,100,966	913,612	22,119,453	355,136	13,264,121	5,252,787	1,002,287	157,424	8,983,583	97,858	189,492
34												
35	**Revenues**											
36	Total User Fee Funding Provided from Capital Reserve	2,273,108	541,576	103,126	355,136	512,107	2,692,878	1,002,287	157,424	678,989	97,858	189,492
37	Total Development Charges from Operating Plan	6,713,925	372,036	22,016,327	-	12,752,015	2,559,909	-	-	8,304,594	-	-
38	Local Impr Revenues from Operating Plan	2,113,933	-	-	-	-	-	-	-	-		
39	Developer Contributions from Operating Plan	-	-	-	-	-	-	-	-	-		
40	Loan	-	-	-	-	-	-	-	-	-		
41	Total Financing	11,100,966	913,612	22,119,453	355,136	13,264,121	5,252,787	1,002,287	157,424	8,983,583	97,858	189,492
42												
43	Total Revenues Less Expenditures	-	-	-	-	-	-	-	-	-	-	-

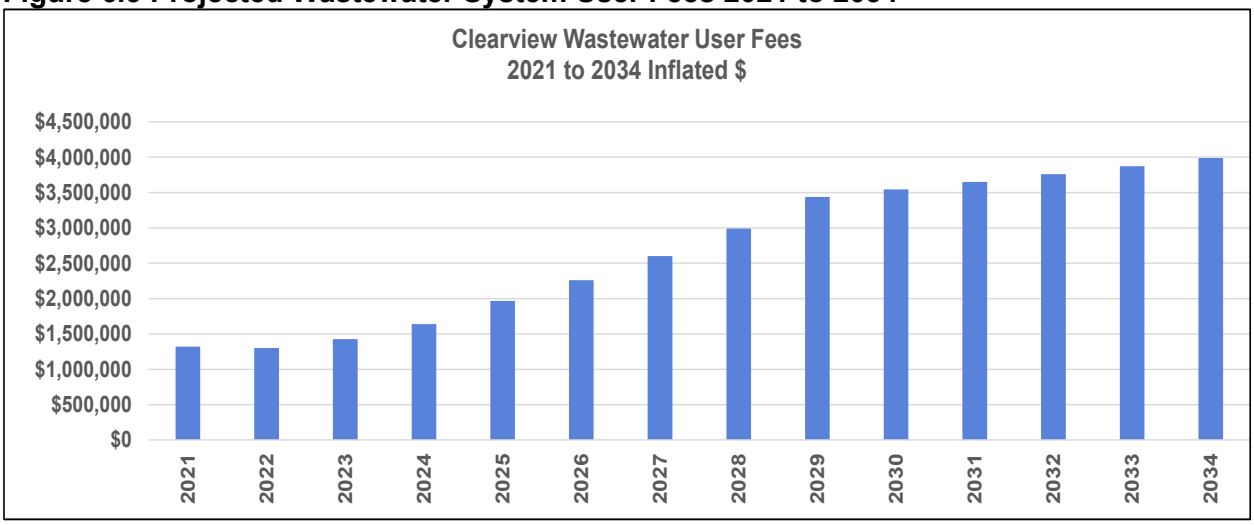
6.3 WASTEWATER OPERATING PLAN

The summary operating financial statement for the wastewater system is set out in table 6.2. The operating fund numbers for 2020-2023 are based on actual year-end values, the figures for 2024 are budgeted, and those for 2025 to 2034 and beyond are based on the trends established in 2020-23. All figures for 2025 to 2034 are inflated.

6.3.1 User Fee Requirements

User fee needs projections are set out in line 4 of table 6.2 and are shown in figure 8 below:

Figure 6.3 Projected Wastewater System User Fees 2021 to 2034

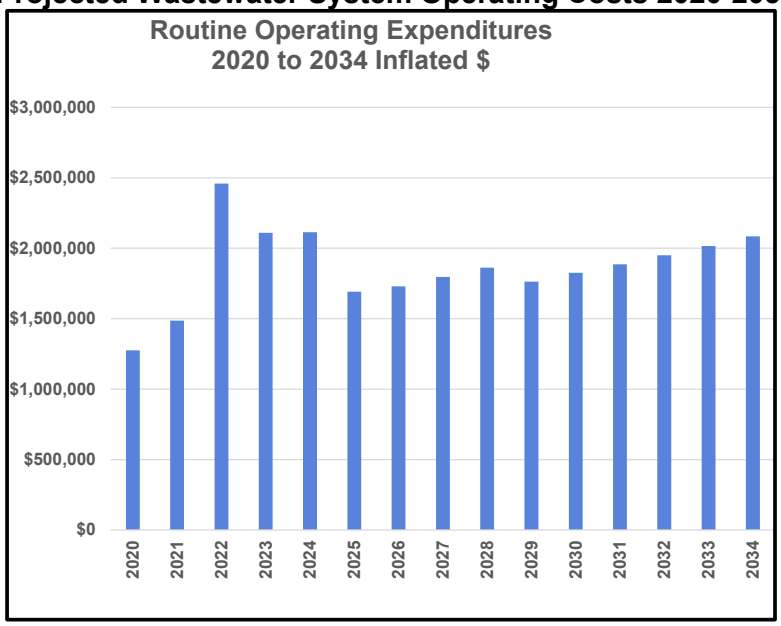


User fee revenues have been stable through the pandemic and since, with substantial increases starting in 2025 to 2029 and then leveling off. The increase is projected at 15% per year until 2029, and then level off at about a 3.5% per annum to 2123. Short-term increases are needed to offset the projected inflation of 4% per annum, to fund the renewal and replacement of infrastructure that has come to the end of its working life, to cover the user fee financed portion of new growth projects, and to operate the system.

6.3.2 Routine Operating Expenses

Future routine operating expenditures are summarized in table 6.2, and are illustrated in figure 6.4:

Figure 6.4 Projected Wastewater System Operating Costs 2020-2034 Inflated $



Operating costs are projected to increase with inflation, with additional costs needed to operate the expanded system. The increases in 2022-24 are due to major facility maintenance, additional fees to the Town of Collingwood, sludge haulage and the Creemore master servicing study. Otherwise, projecting forward beyond 2024, the increase is uniform and is due to inflation of 4% per year.

6.3.3 Debt

As of December 31, 2023, there are four loans outstanding:
2016 Mowat servicing loan with a principal of $48,592. This will be paid off in 2035
2017 Stayner servicing loan with a principal of $1,379,401. This will be paid off in 2036.
Two energy efficiency loans with a combined principal of $561,000. These will be paid off in 2036.

One new loan is projected for late 2024. An $11.0 million 20-year loan at 4.5% is projected that will clear the current capital deficit and finance impending capital renewal and the benefit to existing user portion of new developments to the end of 2028. It is proposed to have an interest rate of 4.5%, and all have 20-year term. The long-term loan has been chosen to assist in spreading these one-time costs over a large group of future users. A second loan of $1.0 million at 4.5% over 10 years is proposed for late 2029 to cover the estimated benefit to existing users of a wastewater plant upgrade. No additional loans are foreseen.

Table 6.2 Wastewater System Operating Financial Statement 2020 to 2034 Inflated $

		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
	Revenues															
1	Grants	-	-	-	-	-	-	-								
2	Sewer Connection Fee	-	- 9,495	- 41,500	- 9,018	- 9,108	- 9,199	- 9,291	- 9,384	- 9,478	- 9,572	- 9,668	- 9,765	- 9,862	- 9,961	- 10,061
3	Extra Strength Sewer Surcharge					-	-	-	-	-	-	-	-	-	-	-
4	User Fees Stayner	- 908,349	- 1,001,624	- 972,839	- 1,085,830	- 1,248,705	- 1,498,446	- 1,723,212	- 1,981,694	- 2,278,948	- 2,620,791	- 2,699,414	- 2,780,397	- 2,863,809	- 2,949,723	- 3,038,215
6	Extra Strength Sewer Surcharge	- 169,954	- 135,341	- 51,575	- 61,230	- 62,761	- 64,330	- 65,938	- 67,587	- 69,276	- 71,008	- 72,783	- 74,603	- 76,468	- 78,380	- 80,339
7	User Fees Creemore	- 294,687	- 320,117	- 327,797	- 339,254	- 390,143	- 468,171	- 538,397	- 619,156	- 712,030	- 818,834	- 843,399	- 868,701	- 894,762	- 921,605	- 949,253
8	Extra Strength Sewer Surcharge	- 110,225	- 79,674	- 73,159	- 75,639	- 77,530	- 79,468	- 81,455	- 83,491	- 85,578	- 87,718	- 89,911	- 92,159	- 94,463	- 96,824	- 99,245
9	Discounts	621	486	337	342	-	-	-	-	-	-	-	-	-	-	-
10	Cost Recovery	-	-	- 75,143	-	-	-	-	-	-	-	-	-	-	-	-
11	Cost Recovery	- 103,326	- 60,551	- 103,326	- 108,456	-	-	-	-	-	-	-	-	-	-	-
12	Total User Fees	- 1,203,036	- 1,321,741	- 1,300,636	- 1,425,085	- 1,638,847	- 1,966,617	- 2,261,609	- 2,600,850	- 2,990,978	- 3,439,625	- 3,542,814	- 3,649,098	- 3,758,571	- 3,871,328	- 3,987,468
13	Loan					- 11,000,000					- 1,000,000					
14	Earned DC Revenues					- 6,713,925	- 372,036	- 22,016,327	-	- 12,752,015	- 2,559,909	-	-	- 8,304,594	-	-
15	Local Improvement					- 2,113,933										
16	DC Reserves Creemore 32% Cost	- 79,483	- 159,135	- 1,029,273	-	-	-	-	-	-	-	-	-	-	-	-
17	Sewer Debenture Charge (LIC Cree)	- 242,295	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Reserve Interest	-	-	-	-											
19	Total Revenues with Reserves	- 1,907,698	- 1,765,451	- 2,674,275	- 1,679,085	- 21,618,103	- 2,493,649	- 24,436,620	- 2,763,312	- 15,909,325	- 7,169,832	- 3,717,176	- 3,827,624	#########	- 4,058,493	- 4,179,112
20																
21	**Expenditures for all Systems**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**
22	**Salaries**															
23	406 Salaries Regular	99,243	90,236	123,835	120,235	123,842	127,557	131,384	135,325	139,385	143,567	147,874	152,310	156,879	161,586	166,433
24	406 Benefits	29,769	27,294	35,568	31,909	32,866	33,852	34,867	35,913	36,991	38,101	39,244	40,421	41,633	42,882	44,169
25	406 Accrual Vacation Pay	- 886	- 2,356	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Sub Total	128,127	115,174	159,404	152,144	156,708	161,409	166,251	171,239	176,376	181,667	187,117	192,731	198,513	204,468	210,602
27	**Administration**															
28	Small Tools and Equip	1,093	217	1,781	4,487	1,351	1,415	1,483	1,554	1,629	1,707	1,789	1,875	1,965	2,059	2,158
29	Postage and courier	4,424	6,198	6,969	6,344	6,623	6,915	7,219	7,537	7,868	8,215	8,576	8,953	9,347	9,759	10,188
30	Answering Service	-	-	1,249	592	618	645	673	703	734	766	800	835	872	910	950
31	Printing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Photocopy	496	61	9	-	-	-	-	-	-	-	-	-	-	-	-
33	Advertising and Publicity	1,281	269	-	-	760	793	828	865	903	942	984	1,027	1,072	1,119	1,169
34	Office Supplies	852	848	183	158	407	425	443	463	483	504	527	550	574	599	626
38	Training and Courses	4,935	768	4,882	1,057	3,111	3,248	3,391	3,540	3,696	3,858	4,028	4,205	4,390	4,583	4,785
39	Transfer Admin Fee	64,164	64,164	64,164	64,164	65,126	66,103	67,095	68,101	69,123	70,160	71,212	72,280	73,364	74,465	75,582
40	Sewer Line Maintenance	48,836	77,848	69,259	53,317	55,876	58,558	61,369	64,315	67,402	70,637	74,028	77,581	81,305	85,207	89,297
41	Telephone	9,111	5,702	2,681	3,753	5,874	6,133	6,402	6,684	6,978	7,285	7,606	7,940	8,290	8,655	9,035
42	Laboratory Analysis	-	-	306	-	-	-	-	-	-	-	-	-	-	-	-
43	PIL Property Taxes	22,439	77,599	79,031	81,460	82,274	83,097	83,928	84,767	85,615	86,471	87,336	88,209	89,091	89,982	90,882
44	CR Aeration Principal	280,215	129,071	51,219	43,395	44,303	18,015	-	-	-	-	-	-	-	-	-
45	CR Aeration Interest	17,743	9,816	8,060	1,714	815	85	-	-	-	-	-	-	-	-	-
46	Debt Principal 2016-17 Mow/Styn Ind	71,342	73,680	76,093	66,211	80,944	83,823	86,569	89,406	92,337	95,362	98,488	101,622	108,243	113,300	117,600
47	Debt Interest 2016-7 Mow/Styn Ind	52,880	49,047	46,630	37,041	41,634	38,965	36,227	33,390	30,461	27,435	24,309	21,175	14,554	9,497	5,197
48	Debt P and Int 2024 Loan	-	-	-	-		845,638	845,638	845,638	845,638	845,638	845,638	845,638	845,638	845,638	845,638
49	Debt P and Int 2029 Loan					-	-	-	-	-	-	126,379	126,379	126,379	126,379	126,379
50	Sub Total	579,812	495,326	412,517	363,692	389,716	1,213,858	1,201,266	1,206,962	1,212,866	1,218,981	1,351,698	1,358,270	1,365,085	1,372,153	1,379,486
51	Wastewater Operating	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**
52	**Contracted Services**															
53	Legal	1,075	-	8,568	22,013	5,864	6,122	6,391	6,672	6,966	7,272	7,592	7,926	8,275	8,639	9,019
54	Audit	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55	Consulting	145,292	122,491	88,475	122,813	128,217	133,858	139,748	145,897	152,316	5,000	5,220	5,450	5,689	5,940	6,201
56	Consulting	7,229	2,996	68,270	13,283	13,867	14,477	15,114	15,779	16,474	17,198	17,955	18,745	19,570	20,431	21,330
57	Consulting	-	-	5,470	-	-	-	-	-	-	-	-	-	-	-	-
58	Consulting	-	-	- 2,331	-	-	-	-	-	-	-	-	-	-	-	-
59	Creemore Master Servicing	-	-	73,102	202,741	202,741	-	-	-	-	-	-	-	-	-	-
60	Creemore Master Servicing	-	-	8,388	-	-	-	-	-	-	-	-	-	-	-	-
68	Town of Collingwood	346,198	439,200	566,708	393,567	436,418	445,147	454,050	463,131	472,393	481,841	491,478	501,307	511,334	521,560	531,991
69	Town of Collingwood	-	7,321	-	-	-	-	-	-	-	-	-	-	-	-	-
70	Contract WB Infrastructure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
71	Sludge Haulage	-	-	-	48,524	55,000	56,650	58,350	60,100	61,903	63,760	65,673	67,643	69,672	71,763	73,915
72	Sub Total	499,911	572,007	816,649	802,941	842,107	656,254	673,652	691,579	710,052	575,072	587,918	601,072	614,540	628,333	642,457
73																
74	Hydro	300,577	298,585	306,765	306,958	320,464	334,564	349,285	364,653	380,698	397,449	414,937	433,194	452,254	472,154	492,928
75	Gas	15,446	28,833	17,559	14,380	19,055	19,893	20,768	21,682	22,636	23,632	24,672	25,757	26,891	28,074	29,309
76	Sub Total	316,023	327,417	324,325	321,337	339,518	354,457	370,053	386,336	403,334	421,081	439,609	458,951	479,145	500,228	522,238
77																
78	Facility Maintenance	4,007	5,447	2,837	-	-	-	-	-	-	-	-	-	-	-	-
79	Facility Maintenance	47,773	93,774	560,609	193,287	100,000	104,800	109,830	115,102	120,627	126,417	132,485	138,845	145,509	152,494	159,813
80	Facility Maintenance	-	-	57,998	-	-	-	-	-	-	-	-	-	-	-	-
81	Facility Maintenance	-	-	209,841	274,600	274,600	-	-	-	-	-	-	-	-	-	-
82	Insurance	19,625	25,197	15,547	7,996	8,348	8,715	9,098	9,499	9,917	10,353	10,808	11,284	11,781	12,299	12,840
83	Insurance	30,543	39,513	18,731	60,667	63,336	66,123	69,032	72,070	75,241	78,551	82,008	85,616	89,383	93,316	97,422
84	407 Vehicle Expense	35	86	-	-	-	-	-	-	-	-	-	-	-	-	-
85	407 Equipment Expense	57,078	60,459	63,624	67,584	70,828	74,228	77,791	81,524	85,438	89,539	93,836	98,341	103,061	108,008	113,192
86	Major Maintenance (from Cap Listing)	-	-	-	-	130,700	73,108	10,609	10,927	5,628	18,548	19,941	2,706	-	5,871	19,756
87	408 Vehicle Expense	14,896	13,583	15,683	13,403	14,047	14,721	15,427	16,168	16,944	17,757	18,610	19,503	20,439	21,420	22,448
88	Vehicle Expense	-	-		634											
89	Sub Total	173,956	238,061	944,870	618,170	661,858	341,695	291,788	305,290	313,794	341,166	357,688	356,294	370,173	393,408	425,471
90	Depreciaton	654,135	664,749	672,464	-	-	-	-	-	-	-	-	-	-	-	-
91	Total All Expenses (Excluding Reserve	2,351,964	2,412,735	3,330,228	2,258,284	2,389,907	2,727,672	2,703,011	2,761,406	2,816,422	2,737,967	2,924,031	2,967,318	3,027,456	3,098,590	3,180,255
92																
93	Total All Expenses less Amortization	1,697,829	1,747,986	2,657,764	2,258,284	2,389,907	2,727,672	2,703,011	2,761,406	2,816,422	2,737,967	2,924,031	2,967,318	3,027,456	3,098,590	3,180,255
94																
95	Revenue Less Expenses	- 209,869	- 17,464	- 16,510	579,199	- 19,228,196	234,023	- 21,733,609	- 1,906	- 13,092,903	- 4,431,865	- 793,145	- 860,306	- 9,218,502	- 959,903	- 998,858
	Transfer to Capital DC Funding					6,713,925	372,036	22,016,327	-	12,752,015	2,559,909	-	-	8,304,594	-	-
	Transfer to Capital Loc Improv					2,113,933										
###	Transfer to Operating Reserves	528	-	-	- 604,451	- 10,400,339	606,059	282,718	- 1,906	- 340,888	- 1,871,956	- 793,145	- 860,306	- 913,908	- 959,903	- 998,858
###	Transfer to Operating Reserves	190,783	-	-	-	-	-	-	-	-	-	-	-	-	-	-
###																
###	Net	- 18,558	- 17,464	- 16,510	- 25,252	-	-	-	-	-	-	-	-	-	-	-

6.3.4 Reserves

The combined operating and capital reserve had a deficit of $4.638,491 on December 31, 2023. It is proposed that this deficit plus financing for new capital expenditures be covered in the $11.0 million loan proposed for late 2024. A second loan for $1.0 million is proposed for 2029. The projected wastewater reserve fund, after provision of the two loans, for the 2023-2034 period is shown in table 6.3. The loans mentioned above, plus substantial contributions from user fees, keep the reserve in balance for the next ten years and beyond. The reserves are utilized to carry out the renewal and replacement of infrastructure that has reached the end of its life. The reserve is viable beyond 2034 to 2123, provided the rates are increased as proposed herein. This is shown in appendix G. Projecting the longer term, beyond even five years, with any reliability is challenging due to the large amount of renewal, upgrading and new development that is currently projected for the next few years in the Township.

Table 6.3 Clearview Wastewater System Capital Reserve 2024-2034 Inflated $

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Opening Value	$ (4,638,491)	$ 3,488,740	$ 2,341,105	$ 1,955,261	$ 1,602,030	$ 1,430,812	$ 609,890	$ 400,748	$ 1,103,630	$ 1,338,549	$ 2,200,594
Addition (Withdrawal) from (to) Ops	10,400,339	(606,059)	(282,718)	1,906	340,888	1,871,956	793,145	860,306	913,908	959,903	998,858
User Fee Capital Cost from (to) Capital	(2,273,108)	(541,576)	(103,126)	(355,136)	(512,107)	(2,692,878)	(1,002,287)	(157,424)	(678,989)	(97,858)	(189,492)
Transfer from Capital	-	-	-	-	-	-	-	-	-	-	-
Close	3,488,740	2,341,105	1,955,261	1,602,030	1,430,812	609,890	400,748	1,103,630	1,338,549	2,200,594	3,009,960
Close in 2024$	3,488,740	2,272,917	1,843,021	1,466,085	1,271,258	526,097	335,620	897,352	1,056,663	1,686,572	2,239,693

6.4 WASTEWATER RATE CALCULATIONS

The Township recovers its wastewater costs through a surcharge on water bills. Computing this surcharge requires that a calculation be made of the water used only by those connected to the wastewater system. This excludes the water taken by users living outside Stayner and Creemore, the water used by 155 water users not connected to the wastewater system, and a large industrial user that pays wastewater charges on about 20% of the water used. The methodology for the calculation of the rates is shown in appendix D. The summary results of this calculation are shown in table 6.4. The 2025 surcharge on the water bill is proposed to be 90.1%. The proposed surcharge for 2025-2034 is shown in table 6.4:

Table 6.4 Clearview Proposed Wastewater Surcharge on Water Bills 2024-2034 in %

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Wastewater Surcharge	86.2%	90.1%	94.4%	100.9%	108.0%	117.0%	117.0%	117.0%	117.0%	117.0%	117.0%

The revenues generated by the above surcharge are shown in appendix E.

6.5 WASTEWATER BILLS FOR SELECTED CUSTOMERS

Sample wastewater bills have been prepared for various hypothetical user groups. This shows the impact on wastewater bills. The bills are set out in table 6.5:

Table 6.5 Wastewater System Hypothetical Annual Wastewater Bills 2024-2034 Inflated $

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Single Person with 70 M3/Year	322	353	386	428	475	531	548	565	581	597	615
Couple with 125 M3 per Year	455	498	545	600	662	738	759	780	802	824	848
Family 300 M3 per Year	879	960	1,049	1,147	1,257	1,395	1,430	1,467	1,505	1,546	1,588
User with 36,500 M3/Year	88,564	96,589	105,305	114,332	124,409	137,315	140,139	143,437	146,854	150,791	154,677

A user taking seventy cubic metres per year is projected to pay $322 in 2024, and $531 in 2029. Someone using 125 cubic metres per year will pay $455 in 2024, and $738 in 2029. A user of three hundred cubic metres per year will pay a wastewater bill of $879 in 2024 and 1,395 in 2029. The large user pays a wastewater bill of $88,564 in 2024 and this is projected at $137,315 in 2029. The wastewater bills increase due to the renewal and upgrading of wastewater treatment facilities projected in the next few years.

6.6 WASTEWATER BILL COMPARISONS WITH OTHER COMMUNITIES

The projected wastewater water bills for Clearview are compared with bills for several communities. The water usage, the basis for a wastewater surcharge, for all communities is 200 cubic metres per year. This is the amount that a small family might use. All users are assumed to have a standard 15mm (5/8 by ¾") meter. The bill comparisons are set out in table 6.6.

Table 6.6 Comparison of Wastewater Rates with Other Communities 2024

Utility	Wastewater Bill
Clearview 2024	$584
Barrie	$620
Collingwood	$648
Clearview 2025	$696
Kawartha Lakes	$753
Penetanguishene	$885
Springwater Residential	$1,099
Springwater Commercial	$1,226
Adjala-Tosorontio	$1,483
Based on family water use of 200 M3 per Year	

Clearview's rates are based on full life-cycle capital renewal of all assets to 2123.

APPENDICES

Sharratt Water Management Ltd.
Sustainable Water Management Specialists

APPENDIX A - CLEARVIEW WATER SYSTEM OPERATING PLAN 2020-2034 PAGE 1 OF 2 INFLATED $

		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
	Revenues															
1	Grants Canada	-	- 2,994	- 1,575	- 2,170	-	-	-	-	-	-	-	-	-	-	-
2	Grants Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Water Meter Fees - Admin	- 39,100	- 52,900	- 90,576	- 47,085	- 86,233	- 92,700	- 92,700	- 92,700	- 92,700	- 92,700	- 92,700	- 92,700	- 92,700	- 92,700	- 92,700
4	Penalties and Interest	- 11,705	- 12,798	- 38,816	- 46,816	- 13,001	- 13,857	- 14,134	- 14,417	- 14,705	- 14,999	- 15,299	- 15,605	- 15,917	- 16,236	- 16,560
5	Cost Recovery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Stayner Water Hookup Fees	- 2,500	- 1,060	- 16,505	- 523	- 2,500	- 2,550	- 2,601	- 2,653	- 2,706	- 2,760	- 2,815	- 2,872	- 2,929	- 2,988	- 3,047
7	Stayner Billing Revenue	- 1,791,317	- 1,998,582	- 1,938,805	- 1,944,146	-	-	-	-	-	-	-	-	-	-	-
8	Discounts	789	636	429	420	-	-	-	-	-	-	-	-	-	-	-
9	Creemore Water Hookup Fees	- 5,000	- 2,500	- 12,936	-	- 2,500	- 2,550	- 2,601	- 2,653	- 2,706	- 2,760	- 2,815	- 2,872	- 2,929	- 2,988	- 3,047
10	Water Meter Fees - Creemore			-	320	-	-	-	-	-	-	-	-	-	-	-
11	Creemore Billing Revenue	- 417,708	- 467,417	- 456,739	- 463,124	-	-	-	-	-	-	-	-	-	-	-
12	New Lowell Billing Revenue	- 196,931	- 206,107	- 167,205	- 202,375	-	-	-	-	-	-	-	-	-	-	-
13	New Lowell Hookup Fees			-	5,000	-	-	-	-	-	-	-	-	-	-	-
14	Buckingham Billing Revenue	- 24,527	- 35,340	- 41,516	- 47,676	-	-	-	-	-	-	-	-	-	-	-
15	McKean Billing Revenue	- 97,014	- 111,109	- 106,797	- 101,693	-	-	-	-	-	-	-	-	-	-	-
16	Woodlands Billing Revenue	- 68,990	- 73,576	- 56,873	- 65,314	-	-	-	-	-	-	-	-	-	-	-
17	Total Water Billing Revenue	- 2,596,487	- 2,892,131	- 2,767,936	- 2,824,328	- 3,050,274	- 3,294,296	- 3,524,896	- 3,701,141	- 3,886,198	- 4,080,508	- 4,284,534	- 4,498,760	- 4,723,698	- 4,959,883	- 5,207,877
18	Misc Revenue	- 9,309	- 2,193	- 3,155	- 30,689	- 31,149	- 31,617	- 32,091	- 32,572	- 33,061	- 33,557	- 34,060	- 34,571	- 35,090	- 35,616	- 36,150
19	Loan	-	-	-	-	-	- 1,600,000	-	-	-	-	-	-	-	-	-
20	Loc Impr Loan Principal Sunni/Gr Trunk	-	-	-	-	- 1,404,496	- 67,756	- 68,010	- 68,265	- 68,521	- 68,778	- 69,036	- 69,295	- 69,554	- 69,815	- 70,077
21	Local Imp Loan Interest Sunni/Gr Trunk	-	-	-	-	-	- 5,267	- 5,013	- 4,758	- 4,502	- 4,245	- 3,987	- 3,728	- 3,468	- 3,207	- 2,945
22	Loc Impr Loan Principal Edward/Geo	-	-	-	-	-	-	- 1,703,161	- 82,164	- 82,472	- 82,781	- 83,092	- 83,403	- 83,716	- 84,030	- 84,345
23	Local Improvement Loan Interest	-	-	-	-	-	-	-	- 6,387	- 6,079	- 5,769	- 5,459	- 5,147	- 4,835	- 4,521	- 4,206
24	Developer Contributions	-	-	-	-	-	- 12,709,376	-	-	-	-	-	-	-	-	-
25	DC Funded Growth Related Studies					- 1,403,664										
26	DC Reserves - Earned DC Revenue	-	-	-	-	- 6,471,004	-	- 1,008,754	-	- 10,894,250	-	-	-	-	-	-
27	DCA Reserves - Earned Revenue	- 585,984	- 499,000	- 585,984	- 585,984	- 572,250	- 564,924	- 493,605	- 422,286	- 415,496	- 401,226	- 394,206	- 387,339	- 380,000	- 373,000	- 366,000
28	Total Revenues	- 3,249,297	- 3,464,940	- 3,522,054	- 3,537,495	- 13,037,071	- 18,384,892	- 6,947,565	- 4,429,996	- 15,503,396	- 4,790,084	- 4,988,003	- 5,196,292	- 5,414,837	- 5,644,984	- 5,886,957
29																
32	**Expenditures WaterWorks Admin**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**
33	Salaries	261,439	261,524	263,731	282,258	290,726	299,448	308,431	317,684	327,214	337,031	347,142	357,556	368,283	379,331	390,711
34	Benefits	75,644	85,768	84,487	84,164	86,689	89,290	91,968	94,727	97,569	100,496	103,511	106,617	109,815	113,109	116,503
35	Accrual Vacation Pay	18,504	- 40,561	7	-	-	-	-	-	-	-	-	-	-	-	-
36	Standby Pay	-	-	9,500	-	-	-	-	-	-	-	-	-	-	-	-
37	Equip Maintenance	-	153	2,906	877	916	956	998	1,042	1,088	1,136	1,186	1,238	1,292	1,349	1,409
38	Veh Maintenance	117	21,405	105,678	92,397	96,462	100,707	105,138	109,764	114,593	119,636	124,900	130,395	136,133	142,122	148,376
39	Facility Maintenance 420	3,061	12,935	1,130	38	40	42	43	45	47	49	52	54	56	59	61
40	Water Meters	38,833	34,625	85,663	139,742	86,233	92,700	92,700	92,700	92,700	92,700	92,700	92,700	92,700	92,700	92,700
41	Clothing	123	133	1,405	2,202	2,268	2,337	2,407	2,479	2,553	2,630	2,709	2,790	2,874	2,960	3,049
42	Small Misc Tools	5,186	7,088	8,172	1,730	1,813	1,900	1,991	2,086	2,186	2,291	2,401	2,517	2,637	2,764	2,897
43	Legal Fees	11,177	1,895	193	926	967	1,009	1,054	1,100	1,148	1,199	1,252	1,307	1,364	1,424	1,487
44	Audit	8,356	2,951	2,951	7,926	8,275	8,639	9,019	9,416	9,830	10,262	10,714	11,185	11,677	12,191	12,728
45	Consulting Services 420	154,497	110,450	60,999	71,467	121,683	127,037	132,626	138,462	144,554	150,915	157,555	164,487	171,725	179,281	187,169

	Water System Operating Plan Page 2	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
47	**Expenditures WaterWorks Admin (cont)**															
48	Contract - Software Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	Postage	6,704	9,377	10,458	9,708	10,135	10,581	11,046	11,532	12,040	12,569	13,122	13,700	14,303	14,932	15,589
50	Telephone 420	1,699	3,364	1,384	62	64	67	70	73	76	80	83	87	91	95	99
51	Answering Service	6,903	6,982	5,746	6,076	6,344	6,623	6,914	7,219	7,536	7,868	8,214	8,575	8,953	9,347	9,758
52	Printing	-	769	1,289	1,277	1,333	1,392	1,453	1,517	1,584	1,654	1,726	1,802	1,882	1,964	2,051
53	Photocopy	496	61	9	-	100	104	109	114	119	124	129	135	141	147	154
54	Adv and Publicity	1,748	1,407	1,715	346	361	377	394	411	429	448	468	488	510	532	556
55	Office Supplies	2,933	2,837	44	2,421	2,527	2,639	2,755	2,876	3,003	3,135	3,273	3,417	3,567	3,724	3,888
56	Book, Publications	92	81	-	-	100	104	109	114	119	124	129	135	141	147	154
57	Memberships	1,825	1,920	2,747	949	1,928	2,013	2,102	2,194	2,291	2,392	2,497	2,607	2,721	2,841	2,966
58	Conferences and Seminars	2,674	- 900	1,563	13,729	4,493	4,691	4,897	5,113	5,338	5,573	5,818	6,074	6,341	6,620	6,911
59	Courses and Training	10,752	11,737	11,225	14,490	15,127	15,793	16,488	17,213	17,971	18,761	19,587	20,449	21,348	22,288	23,268
60	Transfer - Admin Fee	79,164	79,164	79,164	79,164	81,539	81,539	81,539	81,539	81,539	81,539	81,539	81,539	81,539	81,539	81,539
61	DC Funded Growth Related Studies					1,403,664										
62	Local Impr. Loan Sunni/Grand Tr															
63	Loc Impr Loan Principal Sunni/Gr Trunk	-	-	-	-		67,756	68,010	68,265	68,521	68,778	69,036	69,295	69,554	69,815	70,077
64	Local Imp Loan Interest Sunni/Gr Trunk	-	-	-	-	-	5,267	5,013	4,758	4,502	4,245	3,987	3,728	3,468	3,207	2,945
65	Local Imp Loan Edward/Geo															
66	Loc Impr Loan Principal Edward/Geo	-	-	-	-	-	-		82,164	82,472	82,781	83,092	83,403	83,716	84,030	84,345
67	Local Improvement Loan Interest	-	-	-	-	-	-	-	6,387	6,079	5,769	5,459	5,147	4,835	4,521	4,206
68	Perry Street Watermain Loan Princl	-	-	-	-	-	-	77,187	77,477	77,767	78,059	78,352	78,645	78,940	79,236	79,534
69	Perry Street Watermain Loan Interest	-	-	-	-	-	-	6,000	5,711	5,420	5,128	4,836	4,542	4,247	3,951	3,654
70	Debt Principal	518,971	528,802	539,084	550,726	561,078	572,836	468,226	355,802	357,637	359,533	361,491	363,513	365,601	367,671	369,741
71	Debt Interest	244,830	227,962	206,956	189,084	174,404	154,504	134,407	122,123	112,745	102,793	93,035	83,213	73,495	64,633	54,874
72	Debt Principal	40,307	42,446	44,700	47,073	49,572	52,203	54,974	57,893	60,966	31,686	-	-	-	-	-
73	Debt Interest	23,763	21,671	19,387	16,942	15,461	12,830	10,059	7,140	4,067	830	-	-	-	-	-
74	**Waterworks Operations**															
75	Salaries Regular	252,544	269,101	274,839	270,654	278,773	287,136	295,750	304,623	313,762	323,174	332,870	342,856	353,141	363,736	374,648
76	Benefits	61,149	71,006	69,069	70,297	72,406	74,578	76,816	79,120	81,494	83,939	86,457	89,050	91,722	94,474	97,308
77	Accrual Vacation Pay	-														
78	Equipment Maintenance	93,587	83,913	62,763	264,709	81,878	85,808	89,927	94,243	98,767	103,508	108,476	113,683	119,140	124,858	130,851
79	Major Maintenance- from Capital (Inf)					25,000	58,195	63,654	29,176	30,614	54,718	53,613	33,330	56,245	67,392	6,720
80	Vehicle Expense	67,945	91,525	72,793	61,129	73,348	76,869	80,558	84,425	88,478	92,725	97,175	101,840	106,728	111,851	117,220
81	Facility Maintenance 421	60,975	55,524	29,198	36,684	45,595	47,784	50,078	52,481	55,000	57,640	60,407	63,307	66,345	69,530	72,867
82	Water Line Maintenance 421	121,767	67,144	83,588	101,810	92,699	97,148	101,812	106,699	111,820	117,187	122,812	128,707	134,885	141,360	148,145
83	Utilities	74,194	81,614	84,850	89,960	82,654	85,134	87,688	90,319	93,028	95,819	98,694	101,654	104,704	107,845	111,081
84	Chemicals	26,523	33,920	25,550	29,230	30,516	31,859	33,261	34,724	36,252	37,847	39,513	41,251	43,066	44,961	46,939
85	Small tools and Equipment	174	128	-	1,043	500	-	-	-	-	-	-	-	-	-	-
86	Consulting Services	23,637	112,638	47,265	13,031	13,605	14,203	14,828	15,481	16,162	16,873	17,615	18,391	19,200	20,044	20,926
87	TWT Agreement	72,275	69,298	81,278	72,999	76,211	79,564	83,065	86,720	90,536	94,519	98,678	103,020	107,553	112,285	117,226
88	Contract Lab Testing	31,540	41,490	31,516	36,582	38,192	39,872	41,627	43,458	45,370	47,367	49,451	51,627	53,898	56,270	58,746
89	Telephone	16,055	11,977	14,693	24,473	25,550	26,674	27,848	29,073	30,353	31,688	33,082	34,538	36,058	37,644	39,301
90	Insurance	39,383	51,442	43,428	56,057	58,523	61,098	63,787	66,593	69,523	72,582	75,776	79,110	82,591	86,225	90,019
91	PIL of Property Taxes	23,388	23,595	23,455	24,205	24,568	24,936	25,310	25,690	26,075	26,467	26,864	27,267	27,676	28,091	28,512
92	Software Fees				-	-		-	-	-	-	-	-	-	-	-
93	Amortization of Water Works	435,145	499,578	511,011	-	-	-	-	-	-	-	-	-	-	-	-
94	Grand Total Including Amort.	2,922,097	3,001,965	3,009,612	2,770,661	4,044,321	2,806,241	2,834,135	2,829,965	2,892,938	2,948,267	2,981,475	3,030,969	3,126,902	3,215,098	3,233,905
95	Grand Total Excl Amort.	2,486,952	2,502,387	2,498,600	2,770,661	4,044,321	2,806,241	2,834,135	2,829,965	2,892,938	2,948,267	2,981,475	3,030,969	3,126,902	3,215,098	3,233,905
96																
97	Revenue Less Expenditures	- 762,345	- 962,553	- 1,023,454	- 766,834	- 8,992,751	- 15,578,650	- 4,113,430	- 1,600,030	- 12,610,458	- 1,841,817	- 2,006,528	- 2,165,323	- 2,287,935	- 2,429,886	- 2,653,052
98	Transfer to Capital DC Revenue	-	-	-	-	- 6,471,004	-	- 1,008,754	-	- 10,894,250	-	-	-	-	-	-
99	Transfer to Capital - Local Improv	-	-	-	-	- 1,404,496	-	- 1,703,161	-	-	-	-	-	-	-	-
100	Transfer to Capital Dev Contributions	-	-	-	-	-	- 12,709,376	-	-	-	-	-	-	-	-	-
101	Transfer to Capital Reserves	- 664,970	- 915,995	- 1,009,007	- 761,836	- 1,117,251	- 2,869,274	- 1,401,516	- 1,600,030	- 1,716,208	- 1,841,817	- 2,006,528	- 2,165,323	- 2,287,935	- 2,429,886	- 2,653,052
102																
103	Net Excluding Amortization	- 97,374	- 46,558	- 14,447	- 4,998	0	- 0	0	-	- 0	-	-	-	-	-	-

Appendix B Clearview Water System - Water Sold by System 2020-2034 in M3

Stayner	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Total Sold (M3)	647,817	653,969	635,290	578,659	624,991	638,302	651,622	664,950	678,286	691,631	704,984	718,345	731,715	745,093	758,478
Industrial Total	296,173	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rinehart Usage (M3)	246,233	282,288	254,190	209,381	242,617	242,617	242,617	242,617	242,617	242,617	242,617	242,617	242,617	242,617	242,617
Other Industrial	49,940	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial	57,876	63,985	66,034	63,537	62,858	62,544	62,231	61,920	61,610	61,302	60,996	60,691	60,387	60,085	59,785
Institutional	11,079	11,203	13,005	20,572	20,572	20,572	20,572	20,572	20,572	20,572	20,572	20,572	20,572	20,572	20,572
Muncipal MR	8,290	9,544	8,470	7,123	8,357	8,357	8,357	8,357	8,357	8,357	8,357	8,357	8,357	8,357	8,357
Municipal	600	953	1,101	1,273	982	982	982	982	982	982	982	982	982	982	982
Residential Usage Pre 2024 User Group	273,797	290,410	282,181	276,615	275,231	273,855	272,486	271,124	269,768	268,419	267,077	265,742	264,413	263,091	261,775
Number of New Residential Users/Yr post 2023	0	0	0	0	98	102	102	102	102	102	102	102	102	102	102
Cumulative Number of Residential Users Post 2023	0	0	0	0	98	200	302	404	506	608	710	812	914	1,016	1,118
Residential Use Per Connection Post 2023/Yr	0	0	0	0	147	147	147	147	147	147	147	147	147	147	147
Total Residential Use Post 2023	0	0	0	0	14,374	29,375	44,377	59,379	74,380	89,382	104,384	119,385	134,387	149,389	164,390
ICI Users Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ICI use per Conn per Year	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ICI Water Use Post 2013 in M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Check row	647,815	376,095	370,791	369,120	624,991	638,302	651,622	664,950	678,286	691,631	704,984	718,345	731,715	745,093	758,478

Creemore	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Total Sold (M3)	147,674	140,203	147,352	132,347	143,623	145,164	146,753	148,176	149,642	151,154	152,659	154,142	155,641	157,148	158,654
Industrial Total	20,349	20,526	24,306	22,050	21,552	21,552	21,552	21,552	21,552	21,552	21,552	21,552	21,552	21,552	21,552
Brewery	20,349	20,526	24,306	22,050	21,552	21,552	21,552	21,552	21,552	21,552	21,552	21,552	21,552	21,552	21,552
Other Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial	39,980	42,170	44,888	36,571	40,902	40,698	40,494	40,292	40,090	39,890	39,690	39,492	39,295	39,098	38,903
Institutional	352	272	1,051	854	632	702	810	750	724	746	757	744	743	748	748
Muncipal MR	1,063	950	909	900	955	929	923	927	934	928	928	929	930	929	929
Municipal	134	209	252	233	207	225	229	224	221	225	225	224	224	224	224
Residential Usage Pre 2024 User Group	85,796	76,077	75,946	71,740	77,390	77,003	76,618	76,235	75,854	75,474	75,097	74,721	74,348	73,976	73,606
Number of New Residential Users/Yr post 2023	0	0	0	0	13	14	14	14	14	14	14	14	14	14	14
Cumulative Number of Residential Users Post 2023	0	0	0	0	13	28	42	56	70	84	98	112	126	140	154
Residential Use Per Connection Post 2023/Yr	0	0	0	0	147	147	147	147	147	147	147	147	147	147	147
Total Residential Use Post 2023	0	0	0	0	1,984	4,055	6,126	8,196	10,267	12,338	14,409	16,480	18,550	20,621	22,692
ICI Users Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ICI use per Conn per Year	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ICI Water Use Post 2013 in M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Use Per Connection Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Persons per Residential Unit Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Use per Person per Day (M3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ICI Users Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ICI use per Conn per Year	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ICI Water Use Post 2013 in M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

New Lowell	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Total Water Use	53,289	54,607	51,910	51,500	56,054	59,557	63,062	66,569	70,076	73,585	77,095	80,607	84,120	87,634	91,149
Industrial Total	0	0	0	0	0	0	0	0	0	0					
Brewery	0	0	0	0	0	0	0	0	0	0					
Other Industrial	0	0	0	0	0	0	0	0	0	0					
Commercial	2,946	1,261	1,546	1,664	1,490	1,483	1,475	1,468	1,461	1,453	1,446	1,439	1,432	1,425	1,417
Institutional (IN)	43	62	48	76	57	57	57	57	57	57	57	57	57	57	57
Muncipal MR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Municipal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Usage Pre 2024 User Group	50,299	53,283	50,321	49,760	50,916	50,661	50,408	50,156	49,905	49,656	49,407	49,160	48,915	48,670	48,427
Number of New Residential Users/Yr post 2023	0	0	0	0	24	26	26	26	26	26	26	26	26	26	26
Cumulative Number of Residential Users Post 2023	0	0	0	0	24	50	76	101	127	153	178	204	229	255	281
Residential Use Per Connection Post 2023/Yr	0	0	0	0	147	147	147	147	147	147	147	147	147	147	147
Total Residential Use Post 2023	0	0	0	0	3,590	7,356	11,122	14,887	18,653	22,419	26,185	29,950	33,716	37,482	41,248
Residential Usage Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Residential Users post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Use Per Connection Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Persons per Residential Unit Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Use per Person per Day (M3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ICI Users Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ICI use per Conn per Year	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ICI Water Use Post 2013 in M3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
check row	53,288	54,606	51,915	51,500											

Buckingham Woods	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Total Water Use	8,073	11,215	12,535	14,213	14,142	14,071	14,001	13,931	13,861	13,792	13,723	13,654	13,586	13,518	13,451
Industrial Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rinehart Usage (M3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional (IN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muncipal MR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Municipal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Usage Pre 2024 User Group	8,073	11,215	12,535	14,213	14,142	14,071	14,001	13,931	13,861	13,792	13,723	13,654	13,586	13,518	13,451
Number of New Residential Users/Yr post 2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Number of Residential Users Post 2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Use Per Connection Post 2023/Yr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Residential Use Post 2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Usage Post 2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Residential Users post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Use Per Connection Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Persons per Residential Unit Post 2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Use per Person per Day (M3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8,073														

Nottawa (McKean)	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Total Water Use	32,240	32,950	30,875	28,038	31,040	30,875	30,728	30,579	30,427	30,279	30,131	29,983	29,836	29,690	29,545
Industrial Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rinehart Usage (M3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial	167	115	129	126	123	123	122	121	121	120	120	119	118	118	117
Institutional (IN)	543	680	617	629	642	629	633	635	633	634	634	633	634	634	633
Muncipal MR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Municipal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Usage Pre 2024 User Group	31,530	32,155	30,129	27,283	30,274	30,123	29,972	29,822	29,673	29,525	29,377	29,230	29,084	28,939	28,794
Number of New Residential Users/Yr post 2023	0	0	0	0	9	9	9	9	9	9	9	9	9	9	9
Cumulative Number of Residential Users Post 2023	0	0	0	0	9	18	27	36	45	54	63	72	81	90	99
Residential Use Per Connection Post 2023/Yr	0	0	0	0	147	147	147	147	147	147	147	147	147	147	147
Total Residential Use Post 2023	0	0	0	0	1,268	2,591	3,914	5,237	6,560	7,883	9,206	10,529	11,852	13,175	14,498
Residential Usage Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Residential Users post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Use Per Connection Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Persons per Residential Unit Post 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Use per Person per Day (M3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
check row	32,240	32,950	30,875	28,038											

Colling Woodlands	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Total Water Use	22,039	21,415	19,048	18,110	20,153	20,052	19,952	19,852	19,753	19,654	19,556	19,458	19,361	19,264	19,168
Industrial Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rinehart Usage (M3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional (IN)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muncipal MR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Municipal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Usage Pre 2024 User Group	22,039	21,415	19,048	18,110	20,153	20,052	19,952	19,852	19,753	19,654	19,556	19,458	19,361	19,264	19,168
Number of New Residential Users/Yr post 2023															
Cumulative Number of Residential Users Post 2023	0	0	0	0											
Residential Use Per Connection Post 2023/Yr	0	0	0	0											
Total Residential Use Post 2023	0	0	0	0											
Other Use Per Connection Post 2013	0	0	0	0											
Total Water Sold - All Communities	911,132	914,359	897,010	822,867	890,002	908,022	926,117	944,056	962,045	980,095	998,148	1,016,190	1,034,259	1,052,347	1,070,445

APPENDIX C - WATER REVENUE CALCULATION 2024-2034 INFLATED $

		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
1												
2												
4	**Fixed Charge Revenues**											
5	Number of Connections	3,210	3,360	3,511	3,662	3,813	3,964	4,114	4,265	4,416	4,567	4,717
6	Annual fixed Rate	$177	$186	$196	$207	$219	$230	$240	$248	$257	$264	$273
7	Total Fixed Revenue	$568,121	$625,916	$687,355	$758,734	$835,533	$909,953	$985,443	$1,057,209	$1,133,688	$1,205,252	$1,286,346
8												
9	**Variable Rate Revenues**											
10	Amount of Water Sold (M3)	891,270	910,612	930,031	949,292	968,605	987,978	1,007,353	1,026,719	1,046,111	1,065,522	1,084,942
11	Cost/Cubic Metre	$2.81	$2.93	$3.05	$3.10	$3.15	$3.21	$3.28	$3.35	$3.43	$3.52	$3.61
12	Total Variable Revenue	$ 2,504,468	$ 2,668,380	$ 2,837,542	$ 2,942,407	$ 3,050,666	$ 3,170,555	$ 3,299,091	$ 3,441,552	$ 3,590,011	$ 3,754,632	$ 3,921,532
13												
14	**Total All User Fee Revenues**	**$3,072,589**	**$3,294,296**	**$3,524,896**	**$3,701,141**	**$3,886,198**	**$4,080,508**	**$4,284,534**	**$4,498,760**	**$4,723,698**	**$4,959,883**	**$5,207,877**
15												
16	**Projected Needed Revenues**	**3,050,274**	**3,294,296**	**3,524,896**	**3,701,141**	**3,886,198**	**4,080,508**	**4,284,534**	**4,498,760**	**4,723,698**	**4,959,883**	**5,207,877**

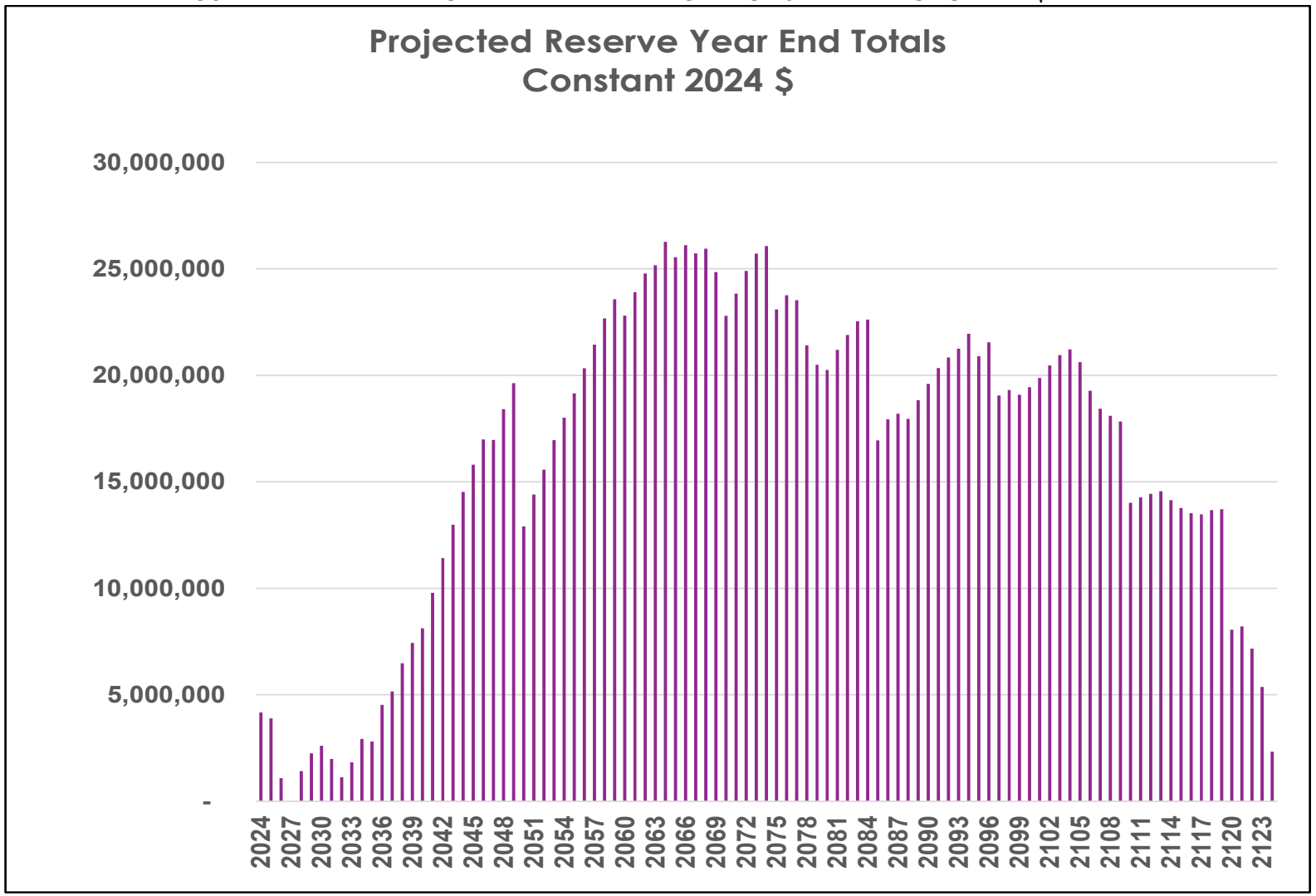
APPENDIX D – WASTEWATER SURCHARGE CALCULATION 2025-34 - INFLATED $

	Stayner and Creemore Users Only	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
	Water Sold to Pre 2024 Users										
1	Total Water Sold in Creemore and Stayner	783,466	798,374	813,125	827,928	842,785	857,643	872,488	887,356	902,241	917,132
2	Reinhart Usage	242,617	242,617	242,617	242,617	242,617	242,617	242,617	242,617	242,617	242,617
3	Water Sold to Pre 2024 Users (Excluding all Reinhart Sales)	540,849	555,757	570,508	585,311	600,168	615,025	629,870	644,739	659,624	674,515
4	Number of Pre 2024 Water Users (Assume 2 disconnections/yr)	2,458	2,456	2,454	2,452	2,450	2,448	2,446	2,444	2,442	2,440
5	Billing Adjustment due to Number paying LT Fixed										
6	Number of Water Users Not Connected to Sewer	155	155	155	155	155	155	155	155	155	155
7	Number of Water Users who Pay Wastewater Bills	2,303	2,301	2,299	2,297	2,295	2,293	2,291	2,289	2,287	2,285
8	Annual Water User Per Water User not Connected to Sewer	175	175	175	175	175	175	175	175	175	175
9	Total Water Sales to those not Connected to Sewer	27,125	27,125	27,125	27,125	27,125	27,125	27,125	27,125	27,125	27,125
10	Total Water Sales to those Connected to Sewer (Excl Reinhart)	513,724	528,632	543,383	558,186	573,043	587,900	602,745	617,614	632,499	647,390
11											
12	**Water Sales to Post 2023 Users In Stayner and Creemore**										
13	Water Sales to Post 2023 Connections	33,430	50,503	67,575	84,648	101,720	118,793	135,865	152,937	170,010	187,082
14	Water Sold to Reinehart Subject to Sewer Surcharge	36,467	36,467	36,467	36,467	36,467	36,467	36,467	36,467	36,467	36,467
15	Total Water Sales Subject to WW Surcharge (M3)	583,621	615,602	647,425	679,300	711,230	743,160	775,077	807,018	838,975	870,939
16	Total Number of Post 2023 Water users paying WW Fixed Charge	227	344	460	576	692	808	924	1,040	1,157	1,273
17	Total Number of Wastewater Users Paying Fixed Charge	2,530	2,645	2,759	2,873	2,987	3,101	3,215	3,329	3,444	3,558
18	Water Revenue from Fixed Water Charge (those paying WW bills)	471,311	517,695	571,579	629,558	685,758	742,775	796,994	854,774	908,856	970,132
19	Water Revenue from Vol Sales (those paying WW bills)	1,710,193	1,878,212	2,006,746	2,139,488	2,282,433	2,433,855	2,598,053	2,769,501	2,956,340	3,148,017
20	Total Water Revenue Subject to Sewer Surcharge	2,181,503	2,395,907	2,578,324	2,769,046	2,968,191	3,176,630	3,395,047	3,624,275	3,865,196	4,118,150
21	Wastewater Revenue Needs	1,966,617	2,261,609	2,600,850	2,990,978	3,439,625	3,542,814	3,649,098	3,758,571	3,871,328	3,987,468
22	Wastewater Revenue as % of Water Revenue	90.1%	94.4%	100.9%	108.0%	115.9%	111.5%	107.5%	103.7%	100.2%	96.8%
23	Final Wastewater Surcharge	90.1%	94.4%	100.9%	108.0%	117.0%	117.0%	117.0%	117.0%	117.0%	117.0%

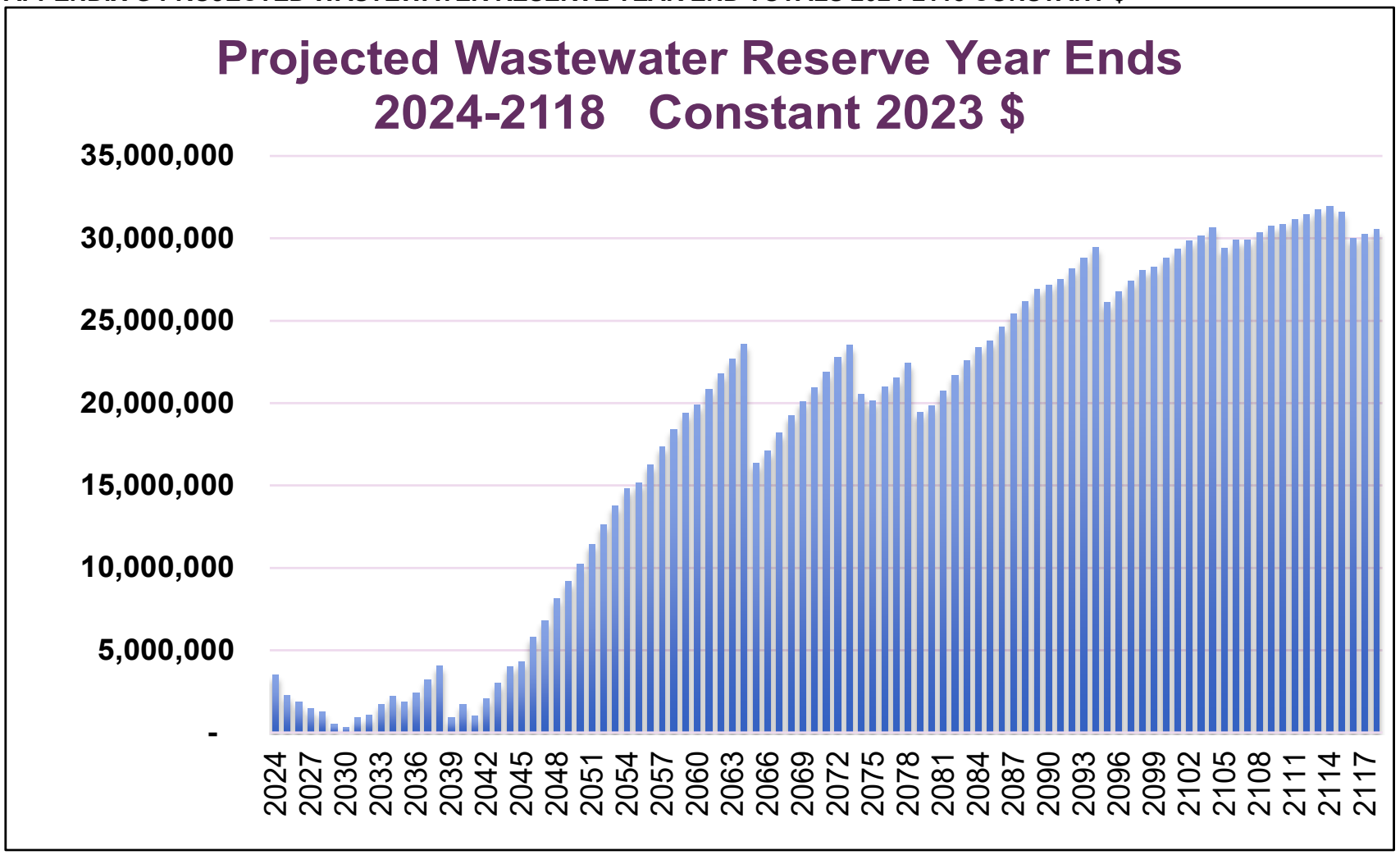
APPENDIX E – WASTEWATER REVENUE CALCULATION

		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
1	Number of Connections	2,416	2,530	2,645	2,759	2,873	2,987	3,101	3,215	3,329	3,444	3,558
2	Annual Water fixed Rate Charge	177	186	196	207	219	230	240	248	257	264	273
3	Wastewater Surcharge	86.2%	90.1%	94.4%	100.9%	108.0%	117.0%	117.0%	117.0%	117.0%	117.0%	117.0%
4	Total Fixed Revenue	368,661	424,885	488,676	576,572	680,016	802,337	869,046	932,483	1,000,086	1,063,362	1,135,055
	Variable Rate Revenues											
5	Water Sold to WW Connected Users	551,697	583,621	615,602	647,425	679,300	711,230	743,160	775,077	807,018	838,975	870,939
6	Cost/Cubic Metre	2.81	2.93	3.05	3.10	3.15	3.21	3.28	3.35	3.43	3.52	3.61
7	Wastewater Surcharge	86.2%	90.1%	94.4%	100.9%	108.0%	117.0%	117.0%	117.0%	117.0%	117.0%	117.0%
8	Total Variable Revenue	1,336,330	1,541,732	1,772,933	2,024,278	2,310,962	2,670,447	2,847,611	3,039,722	3,240,316	3,458,917	3,683,180
9												
10	**Total All User Fee Revenues**	**1,704,992**	**1,966,617**	**2,261,609**	**2,600,850**	**2,990,978**	**3,472,784**	**3,716,657**	**3,972,205**	**4,240,402**	**4,522,279**	**4,818,235**
11												
12	**Projected Needed Revenues**	**1,638,847**	**1,966,617**	**2,261,609**	**2,600,850**	**2,990,978**	**3,439,625**	**3,542,814**	**3,649,098**	**3,758,571**	**3,871,328**	**3,987,468**

APPENDIX F PROJECTED WATER RESERVE YEAR END TOTALS 2024-2124 CONSTANT $



APPENDIX G PROJECTED WASTEWATER RESERVE YEAR END TOTALS 2024-2118 CONSTANT $



APPENDIX- H- WATER CAPITAL PROJECTS 2024-3034

2024 Township of Clearview Proposed CAPITAL Projects 2024

Dept.		Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
		Capital Expenditures Investment in Infrastructure			**Sources of Financing**										
Municipal Waterworks Services															
Admin, Bldg, and Equip															
		Hydrants Valves CR & ST combined		$ 14,500	$ 14,500										$ 14,500
		Staff Computers (SS, DL)		$ 10,000	$ 10,000										$ 10,000
		Growth Studies Capital	Y	$ 23,200							$ 23,200				$ 23,200
		Trench Box		$ 35,000	$ 35,000										$ 35,000
															$ -
Stayner Waterworks															$ -
		Main Street Water Service Replacment		$ 60,000	$ 60,000										$ 60,000
		KPR Project Management	Y	$350,000							$350,000				$ 350,000
		KPR Debt Charges	Y	$440,764							$440,764				$ 440,764
		Sunnidale St. Water	Y	$ 2,293,500						$ 755,296	$ 1,538,204				$ 2,293,500
		Grand Trunk from Hwy 26 to Nottawasaga Stn.	Y	$ 1,082,000						$ 649,200	$ 432,800				$ 1,082,000
		Stayner Well 1&3 Lane Improvement		$ 20,000	$ 20,000										$ 20,000
															$ -
Creemore Waterworks															$ -
															$ -
		Well Pump House	Y	$ 4,500,000							$ 4,500,000				$ 4,500,000
2023 Project incomplete		Water Servicing Master Plan Update		$ 125,000							$ 125,000				$ 125,000
2023 Project incomplete		EA & SWP Plan	Y	$ 216,100							$ 216,100				$ 216,100
2023 Project incomplete		Well Supply Investigation	Y	$ 248,600							$ 248,600				$ 248,600
															$ -
New Lowell Waterworks															$ -
		Reservoir Level Transducer Replacements		$ 7,500	$ 7,500										$ 7,500
		SCADA PLC, Electrical upgrade		$ 50,000	$ 50,000										$ 50,000
															$ -
Nottawa Waterworks															$ -
															$ -
Colling-Woodlands Waterworks															$ -
		Pressure Tanks (5)		$ 7,500	$ 7,500										$ 7,500
		SCADA PLC & Highlift pumping upgrade		$ 35,000	$ 35,000										$ 35,000
		Well #2 Replacement		$ 100,000	100000										$ 100,000
Buckingham Woods															
		Municipal Waterworks Subtotal		**$ 9,618,664**	**$ 339,500**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,404,496**	**$ 7,874,668**	**$ -**	**$ -**	**$ -**	**$ 9,618,664**
											$2,761,768	$ 5,089,700			
2024 $															$ -
Major Maintenance (Items under $11,000)				25,000	25,000	-					0				$ 25,000
Growth Related Studies - Move to Operating				1,403,664						-	1,403,664				$ 1,403,664
Total Projects															$ -
Capital with a Growth Element as per 2024 DC Study				7,875,500	-	-				$ 1,404,496	$ 6,471,004				$ 7,875,500
Capital Renewal				314,500	314,500	-				0	0				$ 314,500
Total Cap Expenditures (2019$)				8,190,000	314,500	-		-	-	1,404,496	7,874,668	-	-	-	8,190,000
Inflated $	**0.00%**														
Major Maintenance (Items under $5,000)				25,000	25,000	-	-	-	-	-	-				$ 25,000
Growth Related Studies - Move to Operating				1,403,664							1,403,664				$ 1,403,664
Total Projects				-	-	-	-	-	-	-	-				$ -
Capital with a Growth Element as per 2024 DC Study				7,875,500	-	-	-	-	-	1,404,496	6,471,004				$ 7,875,500
Capital Renewal				314,500	314,500	-	-	-	-	-	-				$ 314,500
Total Capital				8,190,000	314,500	-		-	-	1,404,496	7,874,668				$ 9,618,664

2025 Township of Clearview Proposed CAPITAL Projects 2025

		Capital Expenditures Investment in Infrastructure			Sources of Financing											
	Cost Code	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Municipal Waterworks Services															
		Admin, Bldg, and Equip														
		Hydrants Valves CR & ST combined		$ 14,500	$ 14,500											$ 14,500
		Submersible Pumps (2)		$ 6,000	$ 6,000											$ 6,000
		Hydrant Flushing Equipment		$ 5,000	$ 5,000											$ 5,000
		Portable Cl2 Kits (3)		$ 3,000	$ 3,000											$ 3,000
		Staff Computers (TP)		$ 5,000	$ 5,000											$ 5,000
																$ -
		Stayner Waterworks														$ -
		ST Reservoir Water Meter		$ 18,000	$ 18,000											$ 18,000
		ST Reservoir Jockey pumps		$ 2,000	$ 2,000											$ 2,000
2-4-421-845		ST RES SCADA PLC up-grade		$ 99,000	$ 99,000											$ 99,000
		Perry St. Watermain		$ 970,000	$ 970,000											$ 970,000
		Warrington Road Watermain		$ 480,000	$ 480,000											$ 480,000
		Creemore Waterworks														$ -
2-4-422-845	WT2302	Water Reservoir Expansion	Y	$ 4,851,300					$ 4,851,300							$ 4,851,300
2-4-422-845	WT2303	Well Water Supply & Pumphouse	Y	$ 7,487,900					$ 7,487,900							$ 7,487,900
		Reservoir Repairs		$ 115,000	$ 115,000											$ 115,000
		Caroline St. Watermain, Library to Mary		$ 208,500	$ 208,500											$ 208,500
		Francis St. Watermain, Mill to Mary		$ 500,000	$ 500,000											$ 500,000
		New Lowell Waterworks														$ -
		Pressure Transducers (3)		$ 5,500	$ 5,500											$ 5,500
																$ -
		Nottawa Waterworks														$ -
		CL2 Analyzer		$ 10,000	$ 10,000											$ 10,000
		PLC & SCADA upgrades		$ 40,000	$ 40,000											$ 40,000
																$ -
		Collingwoodlands Waterworks														$ -
		CL2 Analyzer		$ 10,000	$ 10,000											$ 10,000
		Well 1 and 3 Replacement		$ 200,000	$ 200,000											$ 200,000
		Buckingham Woods														$ -
		CL2 Analyzer		$ 10,000	$ 10,000											$ 10,000
																$ -
																$ -
		Municipal Waterworks Subtotal		**$ 15,040,700**	**$ 2,701,500**	**$ -**	**$ -**	**$ -**	**$ 12,339,200**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 15,040,700**
		2024 $														$ -
		Major Maintenance (Items under $11,000)		56,500	56,500	-	-	-	-	-	-	0				$ -
		Total Capital Projects		14,984,200	2,645,000	-	-	-	12,339,200	-	-					$ 14,984,200
		Capital with a Growth Element as per 2024 DC Study		12,339,200	-	-	-	-	12,339,200	-	-	$ -				$ 12,339,200
		Capital Renewal		2,645,000	2,645,000	-	-	-	-	-	-	0				$ 2,645,000
		Total All Expenditures (2019$)		14,984,200	2,645,000	-	-		12,339,200	-	-	-	-	-	-	$ 14,984,200
		Infl **3.00%**														
		Major Maintenance (Items under $5,000)		58,195	58,195	-	-	-	-	-	-	-				$ -
		Total Capital Projects		15,433,726	2,724,350	-	-	-	12,709,376	-	-	-				$ 12,709,376
		Growth Capital as per 2014 and 2019 DC Studies		12,709,376	-	-	-	-	12,709,376	-	-	-				$ 12,709,376
		Capital Renewal		2,724,350	2,724,350	-	-	-	-	-	-	-				$ 2,724,350
		Total Capital		15,433,726	2,724,350	-	-	-	12,709,376	-	-	-				$ 15,433,726

2026 Township of Clearview Proposed CAPITAL Projects 2026

Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Capital Expenditures Investment in Infrastructure			**Sources of Financing**										
Municipal Waterworks Services														
	Admin, Bldg, and Equip													
	Hydrants Valves CR & ST combined		$ 14,500	$ 14,500										$ 14,500
														$ -
	Stayner Waterworks													$ -
	Well 1		$ 465,000	$ 465,000										$ 465,000
	CL2 Analyzer - ST 1		$ 10,000	$ 10,000										$ 10,000
	Flow Meter - ST 3		$ 10,000	$ 10,000										$ 10,000
	Flow Meter - ST 1		$ 10,000	$ 10,000										$ 10,000
														$ -
	Creemore Waterworks													$ -
	Mary St. Watermain Edward to WWTP	Y	$ 1,197,400	$ 558,790					$ 638,610					$ 1,197,400
	Edward St. Watermain Mill to Mary	Y	$ 962,200	$ 599,520					$ 120,893	$ 241,787				$ 962,200
	Edward St. Watermin Mary to East end	Y	$ 1,304,400	$ 240,810					$ 354,530	$ 709,060				$ 1,304,400
	George St. Watermain Mill to Mary	Y	$ 962,200	$ 753,610					$ 208,590					$ 962,200
	George St. Watermain Mary to East end	Y	$ 1,304,400	$ 1,021,630					$ 282,770					$ 1,304,400
	CL2 Analyzer		$ 10,000	$ 10,000										$ 10,000
	Air Relief Valves (2)		$ 11,000	$ 11,000										$ 11,000
														$ -
	New Lowell Waterworks													$ -
	CL2 Analyzer		$ 10,000	$ 10,000										$ 10,000
	Pressure Tanks (9)		$ 15,000	$ 15,000										$ 15,000
														$ -
	Nottawa Waterworks													$ -
	Well Pump 1, 2 & 3		$ 20,000	$ 20,000										$ 20,000
														$ -
	Buckingham Woods Waterworks													$ -
	Wells 1 and 2 Replacement		$ 300,000	$ 300,000										$ 300,000
														$ -
	Collingwoodlands Waterworks													$ -
	Well Pump 1, 2 & 3		$ 10,000	$ 10,000										$ 10,000
														$ -
	Municipal Waterworks Subtotal		**$ 6,616,100**	**$ 4,059,860**	$ -	$ -	$ -	$ -	**$ 1,605,393**	**$ 950,847**	$ -	$ -	$ -	**$ 6,616,100**
	2024 $													$ -
	Major Maintenance (Items under $11,000)		60,000	60,000	-	-	-	-	-	0				$ 60,000
	Total Capital Projects		6,556,100	3,999,860	-	-	-	-	1,605,393	$ 950,847				$ 6,556,100
	Capital with a Growth Element as per 2024 DC Study		5,730,600	3,174,360	-	-	-	-	1,605,393	$ 950,847				$ 5,730,600
	Capital Renewal		825,500	825,500	-	-	-	-	-	0				$ 825,500
	Total All Expenditures (2019$)		6,556,100	3,999,860	-		-	-	1,605,393	950,847	-	-	-	$ 6,556,100
	Inf 6.09%													
	Major Maintenance (Items under $5,000)		63,654	63,654	-	-	-	-	-	-				$ 63,654
	Total Capital Projects		6,955,366	4,243,451	-	-	-	-	1,703,161	1,008,754				$ 6,955,366
	Growth Capital as per 2014 and 2019 DC Studies		6,079,594	3,367,679	-	-	-	-	1,703,161	1,008,754				$ 6,079,594
	Capital Renewal		875,773	875,773	-	-	-	-	-	-				$ 875,773
	Total Capital		**$ 6,955,366**	**$ 4,243,451**	-	-	-	-	1,703,161	1,008,754				$ 6,955,366

2027 Township of Clearview Proposed CAPITAL Projects 2027

Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Capital Expenditures Investment in Infrastructure			**Sources of Financing**												
Municipal Waterworks Services																
	Admin, Bldg, and Equip															
	Hydrants Valves CR & ST combined		$ 14,500	$ 14,500												$ 14,500
	Communications Towers Upgrades (all systems)		$ 95,000	$ 95,000												$ 95,000
	Metal detector		$ 1,200	$ 1,200												$ 1,200
	ipad		$ 2,000	$ 2,000												$ 2,000
	Staff Computers (Operators)		$ 5,000	$ 5,000												$ 5,000
																$ -
	Stayner Waterworks															$ -
	ST Well 2 Pump		$ 20,000	$ 20,000												$ 20,000
	ST Well 4 Pump		$ 20,000	$ 20,000												$ 20,000
	ClearHib Transfer pump		$ 2,000	$ 2,000												$ 2,000
	ST 3 Chlorine Analyzer		$ 11,000	$ 11,000												$ 11,000
	John St. Watermain, Cedar to Huron (1917 Cast Iron)		$ 725,000	$ 725,000												$ 725,000
	CR 42 Watermain, John to Point (1917 Cast Iron)		$ 620,000	$ 620,000												$ 620,000
	Hwy 26 Watermain, Cherry to Superior (1917 Cast Iron)		$ 500,000	$ 500,000												$ 500,000
	Oak St. Watermain, William to John		$ 320,000	$ 320,000												$ 320,000
	William St. Watermain, Pine to Cedar (1917 Cast Iron)		$ 165,000	$ 165,000												$ 165,000
	Creemore Waterworks															$ -
																$ -
																$ -
	New Lowell Waterworks															$ -
																$ -
																$ -
	Nottawa Waterworks															$ -
																$ -
																$ -
																$ -
	Collingwoodlands Waterworks															$ -
																$ -
																$ -
	Buckingham Woods															$ -
	Treated Water Flow Meter		$ 6,500	$ 6,500												$ 6,500
	Well 3 Level Logger		$ 2,000	$ 2,000												$ 2,000
	Well 1 Pump		$ 8,000	$ 8,000												$ 8,000
																$ -
																$ -
	Municipal Waterworks Subtotal		$ 2,517,200	$ 2,517,200	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,517,200
	2024 $														$ -	
	Major Maintenance (Items under $11,000)		26,700	26,700	-	-	-	-	-	0					$ 26,700	
	Total Capital Projects		2,490,500	2,490,500	-	-	-	-	-	$ -					$ 2,490,500	
	Capital with a Growth Element as per 2024 DC Study		-		-	-	-	-	-	$ -					$ -	
	Capital Renewal		2,490,500	2,490,500	-	-	-	-	-	0					$ 2,490,500	
	Total All Expenditures (2019$)		2,490,500	2,490,500	-		-	-	-	-	-	-	-		$ 2,490,500	
	Inf **9.27%**															
	Major Maintenance (Items under $5,000)		29,176	29,176	-	-	-	-	-	-					$ 29,176	
	Total Capital Projects		2,721,437	2,721,437	-	-	-	-	-	-					$ 2,721,437	
	Growth Capital as per 2014 and 2019 DC Studies		-	-	-	-	-	-	-	-					$ -	
	Capital Renewal		2,721,437	2,721,437	-	-	-	-	-	-					$ 2,721,437	
	Total Capital		2,721,437	2,721,437	-	-	-	-	-	-					$ 2,721,437	2,721,437

2028 Township of Clearview Proposed CAPITAL Projects 2028

Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Capital Expenditures Investment in Infrastructure			**Sources of Financing**												
Municipal Waterworks Services																
Admin, Bldg, and Equip																
	Hydrants Valves CR & ST combined		$ 14,500	$ 14,500												$ 14,500
	Portable Cl2 Kits (2)		$ 2,000	$ 2,000												$ 2,000
	Metal Detector		$ 1,200	$ 1,200												$ 1,200
	Staff Computers (SS, DL)		$ 10,000	$ 10,000												$ 10,000
Stayner Waterworks																$ -
	Well 3 Flow Meter		$ 17,000	$ 17,000												$ 17,000
	Bulk Cl2 Tank		$ 3,000	$ 3,000												$ 3,000
																$ -
Creemore Waterworks																$ -
																$ -
New Lowell Waterworks																$ -
	Well Pump # 1		$ 5,000	$ 5,000												$ 5,000
	NL Well 6		$ 70,000	$ 70,000												$ 70,000
	1675 m3 Reservoir	Y	$ 5,693,300									$ 5,693,300				$ 5,693,300
	971 m3/day CNT Water Supply	Y	$ 3,986,100									$ 3,986,100				$ 3,986,100
Nottawa Waterworks																$ -
																$ -
Collingwoodlands Waterworks																$ -
	Sequestering Pump		$ 6,000	$ 6,000												$ 6,000
																$ -
Buckingham Woods																$ -
																$ -
																$ -
																$ -
																$ -
	Municipal Waterworks Subtotal		$ 9,808,100	$ 128,700	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,679,400	$ -	$ -	$ -	$ 9,808,100
	2024 $														$ -	
	Major Maintenance (Items under $11,000)		27,200	27,200	-	-	-	-	-	0					$ 27,200	
	Total Capital Projects		9,780,900	9,780,900	-	-	-	-	-	$ -					$ 9,780,900	
	Capital with a Growth Element as per 2024 DC Study		9,679,400	-	-	-	-	-	-	$ -		9,679,400			$ 9,679,400	
	Capital Renewal		101,500	101,500	-	-	-	-	-	0					$ 101,500	
	Total All Expenditures (2019$)		9,780,900	101,500	-		-	-	-	-	-	9,679,400	-		$ 9,780,900	
	Infl 12.55%															
	Major Maintenance (Items under $5,000)		30,614	30,614	-	-	-	-	-	-	-	-			$ 30,614	
	Total Capital Projects		11,008,489	11,008,489	-	-	-	-	-	-	-	-			$ 11,008,489	
	Growth Capital as per 2014 and 2019 DC Studies		10,894,250	-	-	-	-	-	-	-	-	10,894,250			$ 10,894,250	
	Capital Renewal		114,239	114,239	-	-	-	-	-	-	-	-			$ 114,239	
	Total Capital		11,008,489	114,239	-	-	-	-	-	-	-	10,894,250			$ 11,008,489	$ 11,008,489

2029 Township of Clearview Proposed CAPITAL Projects 2029

Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Capital Expenditures Investment in Infrastructure			**Sources of Financing**												
Municipal Waterworks Services																
	Admin, Bldg, and Equip															
	Hydrants Valves CR & ST combined		$ 14,500	$ 14,500												$ 14,500
	Confined Space Equipment		$ 20,000	$ 20,000												$ 20,000
	Metal Detector		$ 1,200	$ 1,200												$ 1,200
	Staff Computers (TP)		$ 5,000	$ 5,000												$ 5,000
																$ -
	Stayner Waterworks															$ -
	ST 2 Cl2 Pumps		$ 12,000	$ 12,000												$ 12,000
	ST 2 Sequestering Pumps		$ 12,000	$ 12,000												$ 12,000
	ST 2 Cl2 Analyzer		$ 12,000	$ 12,000												$ 12,000
	Well 2		$ 610,000	$ 610,000												$ 610,000
	Creemore Waterworks															$ -
	Flow Meter		$ 10,000	$ 10,000												$ 10,000
	Pressure Transducer		$ 2,000	$ 2,000												$ 2,000
	New Lowell Waterworks															$ -
	Flow Meter TNT Line		$ 7,000	$ 7,000												$ 7,000
	Flow Meter Distribution		$ 17,500	$ 17,500												$ 17,500
	Flow Meter Raw (1&2 Pumphouse)		$ 6,000	$ 6,000												$ 6,000
	Nottawa Waterworks															$ -
	Flow Meter Treated Water		$ 10,000	$ 10,000												$ 10,000
	Collingwoodlands Waterworks															$ -
	Flow Meter Treated Water		$ 6,000	$ 6,000												$ 6,000
																$ -
	Buckingham Woods															$ -
																$ -
	Municipal Waterworks Subtotal		$ 745,200	$ 745,200	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 745,200
	2024 $														$ -	
	Major Maintenance (Items under $11,000)		47,200	47,200	-	-	-	-	-	-	-	-	-	-	$ 47,200	
	Total Capital Projects		698,000	698,000	-	-	-	-	-	-	-	-	-	-	$ 698,000	
	Capital with a Growth Element as per 2024 DC Study		-	-	-	-	-	-	-	-	-	-	-	-	$ -	
	Capital Renewal		698,000	698,000	-	-	-	-	-	-	-	-	-	-	$ 698,000	
	Total All Expenditures (2019$)		698,000	698,000	-		-	-	-	-	-	-	-		$ 698,000	
	Infl **15.93%**															
	Major Maintenance (Items under $5,000)		54,718	54,718	-	-	-	-	-	-	-	-			$ 54,718	
	Total Capital Projects		809,173	809,173	-	-	-	-	-	-	-	-			$ 809,173	
	Growth Capital as per 2014 and 2019 DC Studies		-	-	-	-	-	-	-	-	-	-			$ -	
	Capital Renewal		809,173	809,173	-	-	-	-	-	-	-	-			$ 809,173	
	Total Capital		809,173	809,173	-	-	-	-	-	-	-	-			$ 809,173	$ 809,173

2030 Township of Clearview Proposed CAPITAL Projects 2030

Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Capital Expenditures Investment in Infrastructure			**Sources of Financing**												
Municipal Waterworks Services																
	Admin, Bldg, and Equip															
	Hydrants Valves CR & ST combined		$ 14,500	$ 14,500												$ 14,500
	Meter Reading Equipment		$ 21,000	$ 21,000												$ 21,000
	Portable Generator		$ 5,000	$ 5,000												$ 5,000
	Trash Pumps (2)		$ 8,000	$ 8,000												$ 8,000
	Hydrant Diffusers (2)		$ 3,500	$ 3,500												$ 3,500
	Pressure Relief Valve		$ 3,000	$ 3,000												$ 3,000
	Hydrant Meter & Backflow Set Up		$ 6,000	$ 6,000												$ 6,000
	Portable Gas Detector		$ 1,200	$ 1,200												$ 1,200
	Locating Equipment		$ 7,500	$ 7,500												$ 7,500
	Metal Detector		$ 1,200	$ 1,200												$ 1,200
	Stayner Waterworks															$ -
	ST 1 Chemical Tanks		$ 250	$ 250												$ 250
	Well 3		$ 630,000	$ 630,000												$ 630,000
	ST Res Cl2 Analyzer		$ 12,500	$ 12,500												$ 12,500
	Creemore Waterworks															$ -
	Well 2 Pump		$ 21,000	$ 21,000												$ 21,000
	Well 2 Level Transducer		$ 2,000	$ 2,000												$ 2,000
	County Road 9 Watermain, Mill to Mary		$ 505,000	$ 505,000												$ 505,000
	New Lowell Waterworks															$ -
	Jockey Pump		$ 3,000	$ 3,000												$ 3,000
	HLP 2		$ 17,000	$ 17,000												$ 17,000
	Nottawa Waterworks															$ -
																$ -
	Collingwoodlands Waterworks															$ -
	Well 5 Pump		$ 4,000	$ 4,000												$ 4,000
																$ -
	Buckingham Woods															$ -
	HLP's 1 & 2		$ 16,000	$ 16,000												$ 16,000
	Chemical Tanks (2)		$ 250	$ 250												$ 250
																$ -
																$ -
	Municipal Waterworks Subtotal		$ 1,281,900	$ 1,281,900	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,281,900
	2024 $														$ -	
	Major Maintenance (Items under $11,000)		44,900	44,900	-	-	-	-	-	-	-	-	-	-	$ 44,900	
	Total Capital Projects		1,237,000	1,237,000	-	-	-	-	-	-	-	-	-	-	$ 1,237,000	
	Capital with a Growth Element as per 2024 DC Study		-	-	-	-	-	-	-	-	-	-	-	-	$ -	
	Capital Renewal		1,237,000	1,237,000	-	-	-	-	-	-	-	-	-	-	$ 1,237,000	
	Total All Expenditures (2019$)		1,237,000	1,237,000	-		-	-	-	-	-	-	-		$ 1,237,000	
	Infl **19.41%**															
	Major Maintenance (Items under $5,000)		53,613	53,613	-	-	-	-	-	-	-	-			$ 53,613	
	Total Capital Projects		1,477,043	1,477,043	-	-	-	-	-	-	-	-			$ 1,477,043	
	Growth Capital as per 2014 and 2019 DC Studies		-	-	-	-	-	-	-	-	-	-			$ -	
	Capital Renewal		1,477,043	1,477,043	-	-	-	-	-	-	-	-			$ 1,477,043	
	Total Capital		1,477,043	1,477,043	-	-	-	-	-	-	-	-			$ 1,477,043	1,477,043

2031 Township of Clearview Proposed CAPITAL Projects 2031

Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Capital Expenditures Investment in Infrastructure			**Sources of Financing**												
Municipal Waterworks Services																
	Admin, Bldg, and Equip															
	Hydrants Valves CR & ST combined		$ 14,500	$ 14,500												$ 14,500
	Staff Computers (Operators)		$ 5,000	$ 5,000												$ 5,000
	ipad		$ 2,200	$ 2,200												$ 2,200
	Backflow Test Kit		$ 2,200	$ 2,200												$ 2,200
	Metal Detector		$ 1,300	$ 1,300												$ 1,300
	Stayner Waterworks															$ -
	ST 1 Chlorine Analyzer		$ 13,000	$ 13,000												$ 13,000
	ST1 Pressure Transducer		$ 2,000	$ 2,000												$ 2,000
	ST 1 PLC / SCADA		$ 43,000	$ 43,000												$ 43,000
	ST 3 Pressure Transducer		$ 2,000	$ 2,000												$ 2,000
	ST 3 PLC / SCADA		$ 43,000	$ 43,000												$ 43,000
	ST 3 Chemical Tanks		$ 250	$ 250												$ 250
	Superior St. Watermain, Oak to Hwy 26		$ 1,373,000	$ 1,373,000												$ 1,373,000
																$ -
	Creemore Waterworks															$ -
	Well 1 Pump and Motor		$ 22,000	$ 22,000												$ 22,000
	Well 1 Level Transducer		$ 2,000	$ 2,000												$ 2,000
	Chlorine Day Tank		$ 150	$ 150												$ 150
	Reservoir Repairs		$ 750,000	$ 750,000												$ 750,000
	New Lowell Waterworks															$ -
	HLP 2 Motor		$ 2,000	$ 2,000												$ 2,000
	HLP 3 Pump and Motor		$ 20,000	$ 20,000												$ 20,000
	Fire Pump Motor		$ 11,000	$ 11,000												$ 11,000
																$ -
	Nottawa Waterworks															$ -
																$ -
	Collingwoodlands Waterworks															$ -
																$ -
																$ -
	Buckingham Woods															$ -
	HLP 3 Pump and Motor		$ 8,000	$ 8,000												$ 8,000
																$ -
																$ -
																$ -
	Municipal Waterworks Subtotal		$ 2,316,600	$ 2,316,600	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,316,600
	2024 $														$ -	
	Major Maintenance (Items under $11,000)		27,100	27,100	-	-	-	-	-	-	-	-	-	-	$ 27,100	
	Total Capital Projects		2,289,500	2,289,500	-	-	-	-	-	-	-	-	-	-	$ 2,289,500	
	Capital with a Growth Element as per 2024 DC Study		-	-	-	-	-	-	-	-	-	-	-	-	$ -	
	Capital Renewal		2,289,500	2,289,500	-	-	-	-	-	-	-	-	-	-	$ 2,289,500	
	Total All Expenditures (2019$)		2,289,500	2,289,500	-		-	-	-	-	-	-	-		$ 2,289,500	
	Inf **22.99%**															
	Major Maintenance (Items under $5,000)		33,330	33,330	-	-	-	-	-	-	-	-			$ 33,330	
	Total Capital Projects		2,815,796	2,815,796	-	-	-	-	-	-	-	-			$ 2,815,796	
	Growth Capital as per 2014 and 2019 DC Studies		-	-	-	-	-	-	-	-	-	-			$ -	
	Capital Renewal		2,815,796	2,815,796	-	-	-	-	-	-	-	-			$ 2,815,796	
	Total Capital		2,815,796	2,815,796	-	-	-	-	-	-	-	-			$ 2,815,796	2,815,796

2032 Township of Clearview Proposed CAPITAL Projects 2032

Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Capital Expenditures Investment in Infrastructure			**Sources of Financing**												
Municipal Waterworks Services																
	Admin, Bldg, and Equip															
	Hydrants Valves CR & ST combined		$ 14,500	$ 14,500												$ 14,500
	Portable Chlorine Kits (3)		$ 3,500	$ 3,500												$ 3,500
	Portable Turbidity Kit		$ 4,000	$ 4,000												$ 4,000
	Portable Gas Detector		$ 1,300	$ 1,300												$ 1,300
	Staff Computers (SS, DL)		$ 10,000	$ 10,000												$ 10,000
																$ -
	Stayner Waterworks															$ -
	Observation Well Level Loggers (2)		$ 4,500	$ 4,500												$ 4,500
	ST 2 Pressure Transducer		$ 2,200	$ 2,200												$ 2,200
	ST 2 PLC / SCADA		$ 45,000	$ 45,000												$ 45,000
	Hwy 26 Watermain, CR 42 to Cherry (1917 Cast Iron)		$ 1,506,000	$ 1,506,000												$ 1,506,000
																$ -
	Creemore Waterworks															$ -
	Residential Water Meter Replacements		$ 280,000	$ 280,000												$ 280,000
	Mill St. Watermain, George to south across river		$ 706,000	$ 706,000												$ 706,000
	New Lowell Waterworks															$ -
	Cl2 Pumps		$ 13,000	$ 13,000												$ 13,000
	CL2 Analyzer TNT Line		$ 13,000	$ 13,000												$ 13,000
	Nottawa Waterworks															$ -
	Observation Well Level Logger		$ 2,200	$ 2,200												$ 2,200
	HLP 4 Pump and Motor		$ 8,000	$ 8,000												$ 8,000
	Pressure Transducer		$ 2,200	$ 2,200												$ 2,200
																$ -
	Collingwoodlands Waterworks															$ -
	HLP 3 Pump motor		$ 6,500	$ 6,500												$ 6,500
																$ -
	Buckingham Woods															$ -
	Residential Water Meter Replacements (original section)		$ 11,000	$ 11,000												$ 11,000
																$ -
																$ -
																$ -
	Municipal Waterworks Subtotal		**$ 2,632,900**	**$ 2,632,900**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 2,632,900**
	2024 $														$ -	
	Major Maintenance (Items under $11,000)		44,400	44,400	-	-	-	-	-	-	-	-	-	-	$ 44,400	
	Total Capital Projects		2,588,500	2,588,500	-	-	-	-	-	-	-	-	-	-	$ 2,588,500	
	Capital with a Growth Element as per 2024 DC Study		-	-	-	-	-	-	-	-	-	-	-	-	$ -	
	Capital Renewal		2,588,500	2,588,500	-	-	-	-	-	-	-	-	-	-	$ 2,588,500	
	Total All Expenditures (2019$)		2,588,500	2,588,500	-		-	-	-	-	-	-	-		$ 2,588,500	
	Infl **26.68%**															
	Major Maintenance (Items under $5,000)		56,245	56,245	-	-	-	-	-	-	-	-			$ 56,245	
	Total Capital Projects		3,279,034	3,279,034	-	-	-	-	-	-	-	-			$ 3,279,034	
	Growth Capital as per 2014 and 2019 DC Studies		-	-	-	-	-	-	-	-	-	-			$ -	
	Capital Renewal		3,279,034	3,279,034	-	-	-	-	-	-	-	-			$ 3,279,034	
	Total Capital		3,279,034	3,279,034	-	-	-	-	-	-	-	-			$ 3,279,034	3,279,034

2033 Township of Clearview Proposed CAPITAL Projects 2033

Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Capital Expenditures Investment in Infrastructure			**Sources of Financing**												
Municipal Waterworks Services																
	Admin, Bldg, and Equip															
	Hydrants Valves CR & ST combined		$ 14,500	$ 14,500												$ 14,500
	3" Trash Pump		$ 6,000	$ 6,000												$ 6,000
	Staff Computers (TP)		$ 5,000	$ 5,000												$ 5,000
																$ -
	Stayner Waterworks															$ -
	Wells 2 & 4 level transducers		$ 4,600	$ 4,600												$ 4,600
	Cedar St. Watermain, William to John (1917 Cast Iron)		$ 422,000	$ 422,000												$ 422,000
																$ -
	Creemore Waterworks															$ -
																$ -
																$ -
	New Lowell Waterworks															$ -
	Cl2 Pumps - TNT Line		$ 14,000	$ 14,000												$ 14,000
	Wells 1 & 2		$ 130,000	$ 130,000												$ 130,000
	Well 2 Pump		$ 17,000	$ 17,000												$ 17,000
	Well 2 Level Sensor		$ 2,300	$ 2,300												$ 2,300
	Jockey Pump motor		$ 4,500	$ 4,500												$ 4,500
	Pumphouse 1 & 2 Flow control valve		$ 3,500	$ 3,500												$ 3,500
	TNT Line motorized valve		$ 11,500	$ 11,500												$ 11,500
	TNT Line backflow preventor		$ 4,500	$ 4,500												$ 4,500
	Electrical and Piping Upgrades		$ 135,000	$ 135,000												$ 135,000
	Nottawa Waterworks															$ -
	Cl2 Pumps		$ 14,000	$ 14,000												$ 14,000
	Cl2 tank		$ 150	$ 150												$ 150
	Collingwoodlands Waterworks															$ -
	Cl2 Pumps		$ 14,000	$ 14,000												$ 14,000
	Well # 4 Pump		$ 4,000	$ 4,000												$ 4,000
	HLPs 1 & 2 Pumps and Motors		$ 17,000	$ 17,000												$ 17,000
	Reservoir Level Transducer		$ 4,500	$ 4,500												$ 4,500
	Pressure Transducer		$ 2,300	$ 2,300												$ 2,300
	Chemical Tanks		$ 300	$ 300												$ 300
	Electrical and Piping Upgrades		$ 225,000	$ 225,000												$ 225,000
	Buckingham Woods															$ -
	Cl2 Pumps		$ 14,000	$ 14,000												$ 14,000
	Wells 1 & 2		$ 92,000	$ 92,000												$ 92,000
	Well 3 Pump		$ 10,000	$ 10,000												$ 10,000
																$ -
	Municipal Waterworks Subtotal		**$ 1,171,650**	**$ 1,171,650**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,171,650**

2024 $													$ -
Major Maintenance (Items under $11,000)	51,650	51,650	-	-	-	-	-	-	-	-	-	-	$ 51,650
Total Capital Projects	1,120,000	1,120,000	-	-	-	-	-	-	-	-	-	-	$ 1,120,000
Capital with a Growth Element as per 2024 DC Study	-	-	-	-	-	-	-	-	-	-	-	-	$ -
Capital Renewal	1,120,000	1,120,000	-	-	-	-	-	-	-	-	-	-	$ 1,120,000
Total All Expenditures (2019$)	1,120,000	1,120,000	-	-	-	-	-	-	-	-	-		$ 1,120,000
Infl **30.48%**													
Major Maintenance (Items under $5,000)	67,392	67,392	-	-	-	-	-	-	-	-			$ 67,392
Total Capital Projects	1,461,346	1,461,346	-	-	-	-	-	-	-	-			$ 1,461,346
Growth Capital as per 2014 and 2019 DC Studies	-	-	-	-	-	-	-	-	-	-			$ -
Capital Renewal	1,461,346	1,461,346	-	-	-	-	-	-	-	-			$ 1,461,346
Total Capital	1,461,346	1,461,346	-	-	-	-	-	-	-	-	-	-	$ 1,461,346	1,461,346

2034 Township of Clearview Proposed CAPITAL Projects 2034

Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Capital Expenditures Investment in Infrastructure			**Sources of Financing**												
Municipal Waterworks Services																
	Admin, Bldg, and Equip															
	Hydrants Valves CR & ST combined		$ 14,500	$ 14,500												$ 14,500
																$ -
	Stayner Waterworks															$ -
	ST 1 Cl2 Pumps		$ 14,000	$ 14,000												$ 14,000
	ST 3 Cl2 Pumps		$ 14,000	$ 14,000												$ 14,000
	Creemore Waterworks															$ -
	Cl2 Pumps		$ 14,000	$ 14,000												$ 14,000
	Well 1		$ 700,000	$ 700,000												$ 700,000
	New Lowell Waterworks															$ -
																$ -
																$ -
	Nottawa Waterworks															$ -
	Reservoir Level Transducer		$ 5,000	$ 5,000												$ 5,000
	Collingwoodlands Waterworks															$ -
																$ -
																$ -
	Buckingham Woods															$ -
	Well 3		$ 47,000	$ 47,000												$ 47,000
																$ -
																$ -
																$ -
	Municipal Waterworks Subtotal		**$ 808,500**	**$ 808,500**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 808,500**
	2024 $														$ -	
	Major Maintenance (Items under $11,000)		5,000	5,000	-	-	-	-	-	-	-	-	-	-	$ 5,000	
	Total Capital Projects		803,500	803,500	-	-	-	-	-	-	-	-	-	-	$ 803,500	
	Capital with a Growth Element as per 2024 DC Study		-	-	-	-	-	-	-	-	-	-	-	-	$ -	
	Capital Renewal		803,500	803,500	-	-	-	-	-	-	-	-	-	-	$ 803,500	
	Total All Expenditures (2019$)		803,500	803,500	-		-	-	-	-	-	-	-		$ 803,500	
	Infl **34.39%**															
	Major Maintenance (Items under $5,000)		6,720	6,720	-	-	-	-	-	-	-	-			$ 6,720	
	Total Capital Projects		1,079,837	1,079,837	-	-	-	-	-	-	-	-			$ 1,079,837	
	Growth Capital as per 2014 and 2019 DC Studies		-	-	-	-	-	-	-	-	-	-			$ -	
	Capital Renewal		1,079,837	1,079,837	-	-	-	-	-	-	-	-			$ 1,079,837	
	Total Capital		1,079,837	1,079,837	-	-	-	-	-	-	-	-	-	-	$ 1,079,837	1,079,837

![Sharratt Water Management Ltd. — Sustainable Water Management Specialists]

APPENDIX-I- WASTEWATER CAPITAL PROJECTS 2024-2034

Township of Clearview Proposed CAPITAL Projects — **Wastewater** — **2024**

Capital Expenditures Investment in Infrastructure — Sources of Financing

2024		Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
		Municipal Wastewater Services														
		Admin, Building & Equipment														
		Stayner Wastewater														
2-4-408-840	SW2105		Stayner Blower Upgrades (Design)		$ 150,000	$ 150,000										$ 150,000
2-4-408-840	SW2105		Stayner Blower Upgrades (Build)		$ 300,000	$ 300,000										$ 300,000
2-4-408-840	SW2221		PLC Replacement - ST Sewage Treatment Plant		$ 80,000	$ 80,000										$ 80,000
2-4-408-840	SW2204		Phillips Sanitary	Y	$ 1,618,329						$ 534,049	$ 1,084,281				$ 1,618,329
2-4-408-840	SW2205		SE Stayner SPS and FM (Build)	Y	$ 5,096,400						$ 1,579,884	$ 3,516,516				$ 5,096,400
2-4-408-840	SW2206	in 2019 at 1.912?	Sunnidale St. Sanitary	Y	$ 2,049,208	$ 1,086,080						$ 963,128				$ 2,049,208
2-4-408-840	SW2306		Aeration Automatic Valves		$ 20,000	$ 20,000										$ 20,000
			DO Probes (East & West Tanks)		$ 14,028	$ 14,028										$ 14,028
			Sludge P1 Pump		$ 3,000	$ 3,000										$ 3,000
			SPS 1 Scada / PLC		$ 88,000	$ 88,000										$ 88,000
		Creemore Wastewater														$ -
2-4-407-840			WAS PUMP		$ 5,000	$ 5,000										$ 5,000
2-4-407-840			VACUUM PUMP		$ 3,500	$ 3,500										$ 3,500
2-4-407-840			RAS PUMP		$ 10,000	$ 10,000										$ 10,000
2-4-407-840			SAMPLER		$ 4,000	$ 4,000										$ 4,000
2-4-407-840			B-85-S CONTROL VALVE		$ 3,000	$ 3,000										$ 3,000
2-4-407-840			B-85-S CONTROL VALVE		$ 3,000	$ 3,000										$ 3,000
2-4-407-840			Electrode PH Meter		$ 2,000	$ 2,000										$ 2,000
2-4-407-840			Chemical Pump # 3 - P-54-1		$ 5,500	$ 5,500										$ 5,500
2-4-407-840			Chemical Pump # 4 - P-54-2		$ 5,500	$ 5,500										$ 5,500
2-4-407-840	SW2213		MILLTRONIC MULTI RANGER - LEVEL MONITOR		$ 4,000	$ 4,000										$ 4,000
2-4-407-840	SW2213		MILLTRONIC MULTI RANGER - LEVEL MONITOR		$ 6,000	$ 6,000										$ 6,000
2-4-407-840	SW2215		FLOW METER		$ 3,000	$ 3,000										$ 3,000
2-4-407-840	SW217		PNEUMATIC ACTUATOR		$ 2,500	$ 2,500										$ 2,500
2-4-407-840	SW217		PNEUMATIC ACTUATOR		$ 2,500	$ 2,500										$ 2,500
2-4-407-840	SW217		PNEUMATIC ACTUATOR		$ 2,500	$ 2,500										$ 2,500
2-4-407-840	SW217		PNEUMATIC ACTUATOR		$ 2,500	$ 2,500										$ 2,500
2-4-407-840	SW217		PNEUMATIC ACTUATOR		$ 2,500	$ 2,500										$ 2,500
2-4-407-840	SW217		PNEUMATIC ACTUATOR		$ 2,500	$ 2,500										$ 2,500
2-4-407-840	SW217		PNEUMATIC ACTUATOR		$ 2,500	$ 2,500										$ 2,500
2-4-407-840	SW217		PNEUMATIC ACTUATOR		$ 2,500	$ 2,500										$ 2,500
2-4-407-840	SW217		PNEUMATIC ACTUATED B-VALVE		$ 1,100	$ 1,100										$ 1,100
2-4-407-840	SW217		PNEUMATIC ACTUATED B-VALVE		$ 1,100	$ 1,100										$ 1,100
2-4-407-840	SW2218		VFD CONTROL PANEL		$ 5,000	$ 5,000										$ 5,000
2-4-407-840	SW2218		VFD CONTROL PANEL		$ 5,000	$ 5,000										$ 5,000
2-4-407-840	SW2218		VFD CONTROL PANEL		$ 5,000	$ 5,000										$ 5,000
2-4-407-840	SW2218		VFD CONTROL PANEL		$ 5,000	$ 5,000										$ 5,000
2-4-407-840	SW2218		VFD CONTROL PANEL		$ 5,000	$ 5,000										$ 5,000
2-4-407-840	SW2219		Citric Diaphram Pump # 2		$ 4,000	$ 4,000										$ 4,000
2-4-407-840	SW2219		Citirc Diaphram Pump # 3		$ 4,000	$ 4,000										$ 4,000
2-4-407-840	SW2301		DO Controller & Probe		$ 5,000	$ 5,000										$ 5,000
2-4-407-840	SW2302		Facility Lighting		$ 10,000	$ 10,000										$ 10,000
2-4-407-840	SW2303		MLSS DO CONTROL BOX		$ 1,500	$ 1,500										$ 1,500
2-4-407-840	SW2303		MLSS TSS CONTROL BOX		$ 1,500	$ 1,500										$ 1,500
			Creemore WWTP Upgrades to 860 (Design)		$ 750,000							$ 750,000				$ 750,000
2-4-407-840	SW2223		RAS Piping Modifications (Design)		$ 50,000							$ 50,000				$ 50,000
2-4-407-840	SW2223		RAS Piping Modifications (Construciton & CA/CI)		$ 200,000							$ 200,000				$ 200,000
2-4-407-840	SW2224		CR WWTP Screen Upgrades (Design & Permitting)		$ 150,000							$ 150,000				$ 150,000
2-4-407-840	SW2225		Eq. Tank PS/Controls (Design & Permitting)		$ 150,000	$ 150,000										$ 150,000
2-4-407-840	SW2226		Additional / Replacement Membrane Cassettes		$ 385,000	$ 385,000										$ 385,000
																$ -
2-4-407-820	SW2229															$ -
																$ -
		New Lowell Wastewater				$ -										$ -
			Waiting on developer contributions		$ -	$ -										$ -
						$ -										$ -
		Nottawa Wastewater				$ -										$ -
			Waiting on developer contributions		$ -	$ -										$ -
						$ -										$ -
																$ -
			Municipal Wastewaterworks Subtotal		$ 11,231,666	$ 2,403,808	$ -	$ -	$ -	$ -	$ 2,113,933	$ 6,713,925	$ -	$ -	$ -	$ 11,231,666
		2024 $														$ -
		Major Maintenance (Items under $11,000)			130,700	130,700	-	-	-	-	-	-	-	-	-	130,700
		Total Capital Projects			11,100,966	2,273,108	-	-	-	-	2,113,933	6,713,925	-	-	-	$ 11,100,966
		Capital with a Growth Element as per 2024 DC Study			9,913,938	1,086,080	-	-	-	-	2,113,933	6,713,925	-	-	-	$ 9,913,938
		Capital Renewal			1,187,028	1,187,028	-	-	-	-	-	-	-	-	-	$ 1,187,028
		Total All Expenditures (2019$)			11,100,966	2,273,108	-		-	-	2,113,933	6,713,925	-	-	-	$ 11,100,966
					11,231,666	**2,403,808**										
		Inflated $		**0.00%**												
		Major Maintenance (Items under $5,000)			130,700	130,700	-	-	-	-	-	-				$ 130,700
		Total Capital Projects			11,100,966	2,273,108	-	-	-	-	2,113,933	6,713,925				$ 11,100,966
		Capital with a Growth Element as per 2024 DC Study			9,913,938	1,086,080	-	-	-	-	2,113,933	6,713,925				$ 9,913,938
		Capital Renewal			1,187,028	1,187,028	-	-	-	-	-	-				$ 1,187,028
		Total Capital			11,100,966	2,273,108	-		-	-	2,113,933	6,713,925				$ 11,100,966

2025 Township of Clearview Proposed CAPITAL Projects — Wastewater — 2025

Cost Code	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Capital Expenditures Investment in Infrastructure			**Sources of Financing**											
	Municipal Wastewater Services														
	Admin, Building & Equipment														
			$ -												$ -
															$ -
	Stayner Wastewater														$ -
	Perry St. Easement to Brock upsizing	Y	$ 677,200	$ 316,000							$ 361,200				$ 677,200
	Alum Pumps (2)		$ 14,449	$ 14,449											$ 14,449
	Alum Pump # 2		$ 2,734	$ 2,734											$ 2,734
	Sludge P1 VFD		$ 3,612	$ 3,612											$ 3,612
	Sludge P2 pump		$ 3,612	$ 3,612											$ 3,612
	Sludge flow meter		$ 9,031	$ 9,031											$ 9,031
	Wasting flow meter		$ 9,031	$ 9,031											$ 9,031
	SCADA / PLC		$ 108,367	$ 108,367											$ 108,367
	SPS 1 Flow Meter		$ 9,031	$ 9,031											$ 9,031
	SPS 1 Gas Detection System		$ 5,418	$ 5,418											$ 5,418
	SPS 1 Level Sensor		$ 5,418	$ 5,418											$ 5,418
	SPS 1 Composite Sampler		$ 18,061	$ 18,061											$ 18,061
	SPS 1 Pump 1		$ 36,122	$ 36,122											$ 36,122
	SPS 2 Sump Pump		$ 786	$ 786											$ 786
	Creemore Wastewater														$ -
	Alum Tank TK-62		$ 1,093	$ 1,093											$ 1,093
	Sodium Hypo Tank TK-54		$ 328	$ 328											$ 328
	Citric Acid Tank TK-60		$ 328	$ 328											$ 328
	Hand Flanged B-Valve HV-8190-A		$ 1,148	$ 1,148											$ 1,148
	Hand Flanged B-Valve HV-8190-B		$ 1,148	$ 1,148											$ 1,148
	Hand Flanged B-Valve HCV-8183-A		$ 1,093	$ 1,093											$ 1,093
	Hand Flanged B-Valve HCV 8183-B		$ 1,093	$ 1,093											$ 1,093
	Tank #1 (Process Room) TK-88-1		$ 2,187	$ 2,187											$ 2,187
	Tank #2 (Process Room) TK-88-2		$ 2,187	$ 2,187											$ 2,187
	Process Pump #1 (Process Room) P-35-1		$ 2,187	$ 2,187											$ 2,187
	Process Pump #2 (Process Room) P-35-2		$ 2,187	$ 2,187											$ 2,187
	Process Pump #3 (Process Room) P-35-S		$ 2,187	$ 2,187											$ 2,187
	Flow Meter #1 (Process Room) EFFLUENT		$ 2,406	$ 2,406											$ 2,406
	Turbidity Meter #2 (Process Room) AIT-3537-2		$ 2,734	$ 2,734											$ 2,734
	Auger & Motor (Influent/Effluent Room)		$ 32,803	$ 32,803											$ 32,803
	New Lowell Wastewater			$ -											$ -
	Waiting on developer contributions		$ -	$ -											$ -
				$ -											$ -
	Nottawa Wastewater			$ -											$ -
	Waiting on developer contributions		$ -	$ -											$ -
				$ -											$ -
															$ -
	Municipal Wastewaterworks Subtotal		**$ 957,981**	**$ 596,781**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 361,200**	**$ -**	**$ -**	**$ -**	**$ 957,981**
	2024 $														$ -
	Major Maintenance (Items under $11,000)		70,979	70,979	-	-	-	-	-	-	0				$ 70,979
	Total Capital Projects		887,002	525,802	-	-	-	-	-	-	$ -				$ 525,802
	Capital with a Growth Element as per 2024 DC Study		677,200	316,000	-	-	-	-	-	-	361,200	-	-	-	$ 677,200
	Capital Renewal		209,802	209,802	-	-	-	-	-	-	0				$ 209,802
	Total All Expenditures (2019$)		887,002	525,802	-	-		-	-	-	361,200	-	-	-	$ 887,002
															$ -
	Infl **3.00%**														$ -
	Major Maintenance (Items under $5,000)		73,108	73,108	-	-	-	-	-	-	-				$ 73,108
	Total Capital Projects		913,612	541,576	-	-	-	-	-	-	-				$ 541,576
	Growth Capital as per 2014 and 2019 DC Studies		697,516	325,480	-	-	-	-	-	-	372,036				$ 697,516
	Capital Renewal		216,096	216,096	-	-	-	-	-	-	-				$ 216,096
	Total Capital		913,612	541,576	-	-	-	-	-	-	372,036				$ 913,612

2026 Township of Clearview Proposed CAPITAL Projects — Wastewater — 2026

Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Capital Expenditures Investment in Infrastructure			**Sources of Financing**										
Municipal Wastewater Services														
	Admin, Building & Equipment													
	Stayner Wastewater													
	Standby Generator	Y	$ 412,000							$ 412,000				$ 412,000
	Stayner WWTP & PS # 2 Computer		$ 10,000	$ 10,000										$ 10,000
	TSS Probes		$ 18,603	$ 18,603										$ 18,603
	SPS 2 Composite Sampler		$ 18,603	$ 18,603										$ 18,603
	Creemore Wastewater													$ -
	Various pumps etc.		$ 60,000	$ 60,000										$ 60,000
	WWTP Upgrades (860 m3/day)	Y	$ 10,300,000							$ 10,300,000				$ 10,300,000
	Forcemain related to SPS	Y	$ 778,700							$ 778,700				$ 778,700
	SPS South East Quadrant	Y	$ 6,022,400							$ 6,022,400				$ 6,022,400
	Trunk Sewer CR 9 to Edward	Y	$ 1,905,500							$ 1,905,500				$ 1,905,500
	Trunk Sewer Edward to SPS	Y	$ 1,333,900							$ 1,333,900				$ 1,333,900
	New Lowell Wastewater			$ -										$ -
	Waiting on developer contributions		$ -	$ -										$ -
				$ -										$ -
	Nottawa Wastewater			$ -										$ -
	Waiting on developer contributions		$ -	$ -										$ -
				$ -										$ -
														$ -
	Municipal Wastewaterworks Subtotal		$ 20,859,706	$ 107,206	$ -	$ -	$ -	$ -	$ -	$ 20,752,500	$ -	$ -	$ -	$ 20,859,706
	2024 $													$ -
	Major Maintenance (Items under $11,000)		10,000	10,000	-	-	-	-	-	-	-	-	-	$ 10,000
	Total Capital Projects		20,849,706	97,206	-	-	-	-	-	20,752,500	-			$ 20,849,706
	Capital with a Growth Element as per 2024 DC Study		20,752,500	-	-	-	-	-	-	20,752,500	-	-	-	$ 20,752,500
	Capital Renewal		97,206	97,206	-	-	-	-	-	-	-	-	-	97,206
	Total All Expenditures (2019$)		20,849,706	97,206	-		-	-	-	20,752,500	-	-	-	$ 20,849,706
			20,859,706	**107,206**	**-**	**-**	**-**	**-**	**-**	**20,752,500**	**-**	**-**	**-**	20,859,706
	Inf 6.09%													
	Major Maintenance (Items under $5,000)		10,609	10,609	-	-	-	-	-	-				$ 10,609
	Total Capital Projects		22,119,453	103,126	-	-	-	-	-	22,016,327				$ 22,119,453
	Growth Capital as per 2014 and 2019 DC Studies		22,016,327	-	-	-	-	-	-	22,016,327				$ 22,016,327
	Capital Renewal		103,126	103,126	-	-	-	-	-	-				$ 103,126
	Total Capital		$ 22,119,453	$ 103,126	-	-	-	-	-	22,016,327				$ 22,119,453

2027 Wastewater

Municipal Wastewater Services																
Admin, Building & Equipment																
Stayner Wastewater																
WWTP Headworks Upgrades	$ 250,000	$ 250,000														$ 250,000
Creemore Wastewater																$ -
WWTP Computers	$ 10,000	$ 10,000														$ 10,000
Various Pumps etc.	$ 65,000	$ 65,000														$ 65,000
		$ -														$ -
New Lowell Wastewater		$ -														$ -
Waiting on developer contributions	$ -	$ -														$ -
		$ -														$ -
Nottawa Wastewater		$ -														$ -
Waiting on developer contributions	$ -	$ -														$ -
		$ -														$ -
																$ -
Municipal Wastewaterworks Subtotal	**$ 325,000**	**$ 325,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 325,000**
2024 $															**$ -**	
Major Maintenance (Items under $11,000)	10,000	10,000	-	-	-	-	-	-	-	-	-	-	-	-	**$ 10,000**	
Total Capital Projects	315,000	315,000	-	-	-	-	-	$ -							**$ 315,000**	
Capital with a Growth Element as per 2024 DC Study	-		-	-	-	-	-	$ -							**$ -**	
Capital Renewal	325,000	325,000	-	-	-	-	-	-	-	-	-	-	-	-	**$ 325,000**	
Total All Expenditures (2019$)	325,000	325,000	-		-	-	-	-	-	-	-				**$ 325,000**	
Infl **9.27%**																
Major Maintenance (Items under $5,000)	10,927	10,927	-	-	-	-	-	-							**$ 10,927**	
Total Capital Projects	344,209	344,209	-	-	-	-	-	-							**$ 344,209**	
Growth Capital as per 2014 and 2019 DC Studies	-	-	-	-	-	-	-	-							**$ -**	
Capital Renewal	355,136	355,136	-	-	-	-	-	-							**$ 355,136**	
Total Capital	355,136	355,136	-	-	-	-	-	-							**$ 355,136**	

Township of Clearview Proposed CAPITAL Projects — Wastewater — 2028

2028	Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
		Capital Expenditures Investment in Infrastructure			**Sources of Financing**												
	Municipal Wastewater Services																$ -
		Admin, Building & Equipment															$ -
																	$ -
																	$ -
		Stayner Wastewater															$ -
		Alum Heat Trace		$ 5,000	$ 5,000												$ 5,000
																	$ -
		Creemore Wastewater															$ -
		Various Pumps etc.		$ 70,000	$ 70,000												$ 70,000
		Train 2 Membranes		$ 385,000	$ 385,000												$ 385,000
		WWTP Upgrades (1400m3/day)	Y	$ 11,330,000							$ 11,330,000						$ 11,330,000
		New Lowell Wastewater			$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
		Nottawa Wastewater			$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
																	$ -
		Municipal Wastewaterworks Subtotal		**$ 11,790,000**	**$ 460,000**	$ -	$ -	$ -	$ -	$ -	$ 11,330,000	$ -	$ -	$ -	$ -	$ -	$ 11,790,000
		2024 $														$ -	
		Major Maintenance (Items under $11,000)		5,000	5,000	-	-	-	-	-	0					$ 5,000	
		Total Capital Projects		11,785,000	11,785,000	-	-	-	-	-	$ -					$ 11,785,000	
		Capital with a Growth Element as per 2024 DC Study		11,330,000	-	-	-	-	-	-	11,330,000	-	-	-	-	$ 11,330,000	
		Capital Renewal		455,000	455,000	-	-	-	-	-	0	$ -				$ 455,000	
		Total All Expenditures (2019$)		11,785,000	455,000	-	-	-	-	-	11,330,000	-	-	-		$ 11,785,000	$ 11,790,000
		Inf **12.55%**															
		Major Maintenance (Items under $5,000)		5,628	5,628	-	-	-	-	-	-	-	-			$ 5,628	
		Total Capital Projects		13,264,121	13,264,121	-	-	-	-	-	-	-	-			$ 13,264,121	
		Growth Capital as per 2014 and 2019 DC Studies		12,752,015	-	-	-	-	-	-	12,752,015	-	-			$ 12,752,015	
		Capital Renewal		512,107	512,107	-	-	-	-	-	-	-	-			$ 512,107	
		Total Capital		13,264,121	512,107	-	-	-	-	-	12,752,015	-	-			$ 13,264,121	$ 13,264,121

Wastewater

Capital Expenditures Investment in Infrastructure — Sources of Financing

2029	Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
	Municipal Wastewater Services																$ -
		Admin, Building & Equipment															$ -
																	$ -
																	$ -
		Stayner Wastewater															$ -
		DO Probes		$ 16,000	$ 16,000												$ 16,000
		Trunk Sewer Upgrade - Brock Easement	Y	$ 4,206,100	$ 1,997,900								$ 2,208,200				$ 4,206,100
		North St. Sewer Improvements / Changes		$ 250,000	$ 250,000												$ 250,000
		Creemore Wastewater															$ -
		Various Pumps		$ 75,000	$ 75,000												$ 75,000
					$ -												$ -
		New Lowell Wastewater			$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
		Nottawa Wastewater			$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
																	$ -
		Municipal Wastewaterworks Subtotal		**$ 4,547,100**	**$ 2,338,900**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ 2,208,200**	$ -	$ -	$ -	**$ 4,547,100**

2024 $														$ -	
Major Maintenance (Items under $11,000)	16,000	16,000	-	-	-	-	-	-	-	-	-	-	$ 16,000	
Total Capital Projects	4,531,100		-	-	-	-	-	-	-		-	-	$ -	
Capital with a Growth Element as per 2024 DC Study	4,206,100	1,997,900	-	-	-	-	-	-	-	2,208,200	-	-	$ 4,206,100	
Capital Renewal	325,000	325,000	-	-	-	-	-	-	-	-	-	-	$ 325,000	
Total All Expenditures (2019$)	4,531,100	2,322,900	-		-	-	-	-	-	2,208,200	-		$ 4,531,100	
Infl **15.93%**															
Major Maintenance (Items under $5,000)	18,548	18,548	-	-	-	-	-	-	-	-			$ 18,548	
Total Capital Projects	5,252,787	-	-	-	-	-	-	-	-	-			$ -	
Growth Capital as per 2014 and 2019 DC Studies	4,876,023	2,316,114	-	-	-	-	-	-	-	2,559,909			$ 4,876,023	
Capital Renewal	376,764	376,764	-	-	-	-	-	-	-	-			$ 376,764	
Total Capital	5,252,787	2,692,878	-	-	-	-	-	-	-	2,559,909	-	-	$ 5,252,787	

2030	Dept.	Capital Expenditures Investment in Infrastructure Project Description	Included in 2024 DC Study	Budget	Sources of Financing Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	
	Municipal Wastewater Services				**Wastewater**												#VALUE!
	Admin, Building & Equipment																$ -
																	$ -
																	$ -
	Stayner Wastewater																$ -
		Stayner WWTP & PS # 2 Computer		$ 10,000	$ 10,000												$ 10,000
		WWTP Blower 1		$ 355,000	$ 355,000												$ 355,000
		Lab Equipment		$ 31,400	$ 31,400												$ 31,400
		Lamont Creek Level Measurement		$ 4,200	$ 4,200												$ 4,200
		Bulk Alum Storage Tank		$ 52,500	$ 52,500												$ 52,500
		SPS1 Grinder		$ 125,500	$ 125,500												$ 125,500
		SPS 2 Hot Water Heater		$ 2,500	$ 2,500												$ 2,500
		SPS 2 SCADA / PLC		$ 200,000	$ 200,000												$ 200,000
	Creemore Wastewater																$ -
		Various Pumps		$ 75,000	$ 75,000												$ 75,000
					$ -												$ -
	New Lowell Wastewater				$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
	Nottawa Wastewater				$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
																	$ -
		Municipal Wastewaterworks Subtotal		**$ 856,100**	**$ 856,100**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ 856,100**
	2024 $															$ -	
	Major Maintenance (Items under $11,000)			16,700	16,700	-	-	-	-	-	-	-	-	-	-	$ 16,700	
	Total Capital Projects			839,400	839,400	-	-	-	-	-	-	-	-	-	-	$ 839,400	
	Capital with a Growth Element as per 2024 DC Study			-	-	-	-	-	-	-	-	-	-	-	-	$ -	
	Capital Renewal			839,400	839,400	-	-	-	-	-	-	-	-	-	-	$ 839,400	
	Total All Expenditures (2019$)			839,400	839,400	-		-	-	-	-	-	-	-		$ 839,400	
	Infl	**0.00%**															
	Major Maintenance (Items under $5,000)			19,941	19,941	-	-	-	-	-	-	-	-			$ 19,941	
	Total Capital Projects			1,002,287	1,002,287	-	-	-	-	-	-	-	-			$ 1,002,287	
	Growth Capital as per 2014 and 2019 DC Studies			-	-	-	-	-	-	-	-	-	-			$ -	
	Capital Renewal			1,002,287	1,002,287	-	-	-	-	-	-	-	-			$ 1,002,287	
	Total Capital			1,002,287	1,002,287	-	-	-	-	-	-	-	-			$ 1,002,287	839,400

2031	Dept.	Capital Expenditures Investment in Infrastructure Project Description	Included in 2024 DC Study	Budget	Sources of Financing Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	
		Municipal Wastewater Services				**Wastewater**											#VALUE!
		Admin, Building & Equipment															$ -
																	$ -
																	$ -
		Stayner Wastewater															$ -
		STP Wasting Valve		$ 2,200	$ 2,200												$ 2,200
		SPS 1 Pump 2		$ 43,000	$ 43,000												$ 43,000
		Creemore Wastewater															$ -
		Various Pumps		$ 75,000	$ 75,000												$ 75,000
		WWTP Computers		$ 10,000	$ 10,000												$ 10,000
					$ -												$ -
		New Lowell Wastewater			$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
		Nottawa Wastewater			$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
																	$ -
		Municipal Wastewaterworks Subtotal		**$ 130,200**	**$ 130,200**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 130,200**
		2024 $														$ -	
		Major Maintenance (Items under $11,000)		2,200	2,200	-	-	-	-	-	-	-	-	-	-	$ 2,200	
		Total Capital Projects		128,000	128,000	-	-	-	-	-	-	-	-	-	-	$ 128,000	
		Capital with a Growth Element as per 2024 DC Study		-	-	-	-	-	-	-	-	-	-	-	-	$ -	
		Capital Renewal		128,000	128,000	-	-	-	-	-	-	-	-	-	-	$ 128,000	
		Total All Expenditures (2019$)		128,000	128,000	-		-	-	-	-	-	-	-		$ 128,000	
		Infl **22.99%**															
		Major Maintenance (Items under $5,000)		2,706	2,706	-	-	-	-	-	-	-	-			$ 2,706	
		Total Capital Projects		157,424	157,424	-	-	-	-	-	-	-	-			$ 157,424	
		Growth Capital as per 2014 and 2019 DC Studies		-	-	-	-	-	-	-	-	-	-			$ -	
		Capital Renewal		157,424	157,424	-	-	-	-	-	-	-	-			$ 157,424	
		Total Capital		157,424	157,424	-	-	-	-	-	-	-	-			$ 157,424	157,424

2032	Dept.	Project Description	Included in 2024 DC Study	Budget	Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	Total
						Wastewater											2032
	Municipal Wastewater Services																$ -
	Admin, Building & Equipment																$ -
																	$ -
																	$ -
	Stayner Wastewater																$ -
		Communications Equipement		$ 11,000	$ 11,000												$ 11,000
																	$ -
	Creemore Wastewater																$ -
		Various Pumps		$ 75,000	$ 75,000												$ 75,000
		Train 1 Membranes		$ 450,000	$ 450,000												$ 450,000
		WWTP Upgrades (2100 m3/day) total incl post 2034 benefit		*$ 16,480,000*							*$ 16,480,000*						$ 16,480,000
		WWTP Upgrades (2100 m3/day) in the 2024-2034 Period		$ 6,555,723							$ 6,555,723						
	New Lowell Wastewater				$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
	Nottawa Wastewater				$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
																	$ -
		Municipal Wastewaterworks Subtotal		**$ 7,091,723**	**$ 536,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 6,555,723**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 17,016,000**
	2024 $															$ -	
	Major Maintenance (Items under $11,000)			-	-	-	-	-	-	-	-	-	-	-	-	$ -	
	Total Capital Projects			7,091,723	7,091,723	-	-	-	-	-	-	-	-	-	-	$ 7,091,723	
	Capital with a Growth Element as per 2024 DC Study			6,555,723	-	-	-	-	-	-	6,555,723	-	-	-	-	$ 6,555,723	
	Capital Renewal			536,000	536,000	-	-	-	-	-	-	-	-	-	-	$ 536,000	
	Total All Expenditures (2019$)			7,091,723	536,000	-		-	-	-	6,555,723	-	-	-		$ 7,091,723	
	Infl	**26.68%**															
	Major Maintenance (Items under $5,000)			-		-	-	-	-	-	-	-	-			$ -	
	Total Capital Projects			8,983,583	8,983,583	-	-	-	-	-	-	-	-			$ 8,983,583	
	Growth Capital as per 2014 and 2019 DC Studies			8,304,594	-	-	-	-	-	-	8,304,594	-	-	-	-	$ 8,304,594	
	Capital Renewal			678,989	678,989	-	-	-	-	-	-	-	-			$ 678,989	
	Total Capital			8,983,583	678,989	-	-	-	-	-	8,304,594	-	-			$ 8,983,583	8,983,583

2033	Dept.	Capital Expenditures Investment in Infrastructure Project Description	Included in 2024 DC Study	Budget	Sources of Financing Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	
		Municipal Wastewater Services			**Wastewater**												#VALUE!
		Admin, Building & Equipment															$ -
																	$ -
																	$ -
		Stayner Wastewater															$ -
		Sludge Pump 2 VFD		$ 4,500	$ 4,500												$ 4,500
																	$ -
		Creemore Wastewater															$ -
		Various Pumps		$ 75,000	$ 75,000												$ 75,000
																	$ -
					$ -												$ -
		New Lowell Wastewater			$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
		Nottawa Wastewater			$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
																	$ -
		Municipal Wastewaterworks Subtotal		**$ 79,500**	**$ 79,500**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 79,500**
		2024 $														$ -	
		Major Maintenance (Items under $11,000)		4,500	4,500	-	-	-	-	-	-	-	-	-	-	$ 4,500	
		Total Capital Projects		75,000	75,000	-	-	-	-	-	-	-	-	-	-	$ 75,000	
		Capital with a Growth Element as per 2024 DC Study		-	-	-	-	-	-	-	-	-	-	-	-	$ -	
		Capital Renewal		75,000	75,000	-	-	-	-	-	-	-	-	-	-	$ 75,000	
		Total All Expenditures (2019$)		75,000	75,000	-		-	-	-	-	-	-	-		$ 75,000	
		Infl **30.48%**															
		Major Maintenance (Items under $5,000)		5,871	5,871	-	-	-	-	-	-	-	-			$ 5,871	
		Total Capital Projects		97,858	97,858	-	-	-	-	-	-	-	-			$ 97,858	
		Growth Capital as per 2014 and 2019 DC Studies		-	-	-	-	-	-	-	-	-	-			$ -	
		Capital Renewal		97,858	97,858	-	-	-	-	-	-	-	-			$ 97,858	
		Total Capital		97,858	97,858	-	-	-	-	-	-	-	-	-	-	$ 97,858	97,858

2034	Dept.	Capital Expenditures Investment in Infrastructure Project Description	Included in 2024 DC Study	Budget	Sources of Financing Taxation/ User Fees	Water	Sewer	Grants Subsidies	Other Gov. Contribs	Developer Contribs	Municipal Act	Other Revenues	DCs	Oth Res Fund Def Rev	Reserves	Debentures	
	Municipal Wastewater Services					**Wastewater**											#VALUE!
	Admin, Building & Equipment																$ -
		Sewer camera		$ 35,000	$ 35,000												$ 35,000
		Sewer rodding machine		$ 12,000	$ 12,000												$ 12,000
	Stayner Wastewater																$ -
		Stayner WWTP & PS # 2 Computer		$ 10,000	$ 10,000												$ 10,000
		Sludge Pump 1		$ 4,700	$ 4,700												$ 4,700
		DO Probes		$ 19,000	$ 19,000												$ 19,000
	Creemore Wastewater																$ -
		Various Pumps		$ 75,000	$ 75,000												$ 75,000
																	$ -
					$ -												$ -
	New Lowell Wastewater				$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
	Nottawa Wastewater				$ -												$ -
		Waiting on developer contributions		$ -	$ -												$ -
					$ -												$ -
																	$ -
		Municipal Wastewaterworks Subtotal		**$ 155,700**	**$ 155,700**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 155,700
	2024 $															$ -	
	Major Maintenance (Items under $11,000)			14,700	14,700	-	-	-	-	-	-	-	-	-	-	$ 14,700	
	Total Capital Projects			141,000	141,000	-	-	-	-	-	-	-	-	-	-	$ 141,000	
	Capital with a Growth Element as per 2024 DC Study			-	-	-	-	-	-	-	-	-	-	-	-	$ -	
	Capital Renewal			141,000	141,000	-	-	-	-	-	-	-	-	-	-	$ 141,000	
	Total All Expenditures (2019$)			141,000	141,000	-		-	-	-	-	-	-	-		$ 141,000	
	Infl	**34.39%**															
	Major Maintenance (Items under $5,000)			19,756	19,756	-	-	-	-	-	-	-	-			$ 19,756	
	Total Capital Projects			189,492	189,492	-	-	-	-	-	-	-	-			$ 189,492	
	Growth Capital as per 2014 and 2019 DC Studies			-	-	-	-	-	-	-	-	-	-			$ -	
	Capital Renewal			189,492	189,492	-	-	-	-	-	-	-	-			$ 189,492	
	Total Capital			189,492	189,492	-	-	-	-	-	-	-	-	-	-	$ 189,492	189,492

The End