CORPORATION OF THE TOWN OF COCHRANE



DRINKING WATER QUALITY MANAGEMENT SYSTEM

FINANCIAL PLAN

DWWP NUMBER: 207-201

O.REG. 453/07

Approved by Town of Cochrane Council Resolution 35-2021

INTRODUCTION

Purpose

Corporation of the Town of Cochrane staff prepared the Water Financial Plan as part of the five elements the Ministry requires to issue a municipal drinking water license as per the Safe Drinking Water Act, 2002. These elements include:

- 1. A drinking water works permit (DWWP): A permit to establish or alter a drinking water system
- 2. **An acceptable operational plan**: The Drinking Water Quality Management Standard (DWQMS) will be the standard upon which operational plans will be based. The plan will document an operating authority's quality management system (QMS).
- 3. **An accredited operating authority**: A third-party audit of an operating authority's QMS will be the basis for accreditation.
- 4. **A Financial Plan**: This must be prepared in accordance with the prescribed requirement in the Financial Plans Regulation, including an indication that the drinking water system is viable.
- 5. A permit to take water (PTTW): Requirements as outlined in the Ontario Water Resources Act.

The Town encloses its Financial Plan herein. It is prepared in accordance with the Ministry of the nvironment Financial Plans Regulation (O. Reg. 453/07).

Financial Plan Requirements

The O.Reg. 453/07 provides details with regards to the Financial Plans for existing water systems. The requirements for existing systems are summarized as follows:

- Must indicate financial viability of the system
- Must be approved by resolution of Council (or governing body)
- Must apply to a period of at least six years (commencing the year of license expiry)
- Details of the proposed or projected financial position
- Details of the proposed or projected financial operations
- Details of the proposed or projected gross cash receipts and gross cash payments
- Financial plans applicable to two or more solely-owned drinking water systems can be prepared as if they are for one drinking water system
- Financial plans are to be made available to the public upon request and at no charge
- Made available to the public through publication on the internet
- Notice of availability to be given to the public
- Submitted to the Ministry of Municipal Affairs and Housing

Town of Cochrane Drinking Water System Background

The Corporation of the Town of Cochrane is the owner and operating authority of the drinking water system which services approximately 4,500 residents, including industrial, commercial and institutional establishments.

The drinking water system is comprised of a treatment facility (Lime softening Treatment Plant) and distribution system. The distribution system is comprised of approximately:

- > 45 km of distribution watermain
- > 207 fire hydrants
- > 434 valves (not including the service valves or hydrant valves)
- > One elevated water storage tank

The 45 km of distribution watermain is constructed with a combination of PVC, cast iron and ductile iron.

WATER CONSUMPTION, RATES AND REVENUES - HISTORY

Water Consumption:

The following chart outlines the Treated Water Flows for the Town of Cochrane. The Town's current permit to take water (PTTW) from the Three Wells is for 11,784.96 m3/day.

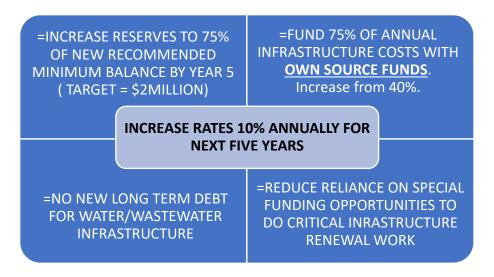
	TREATED WATE	R FLOWS	
Year	Daily Monthly Average (m³)	Daily Maximum (I/s)	Yearly Total (m³)
2014	2,735		1,005,856
2015	2,336	79.1	851,348
2016	1,777	81.5	647,352
2017	1,561	77.8	570,011
2018	1,453	81.4	524,541
2019	1,414	82.4	515,901
2020	1,342	80.4	491,161

Water Rates and Revenues

Since the last financial plan was filed in 2015 the Town has seen significant changes to its water consumption, revenues and rates. These changes are summarized as follows:

- A significant water user closed its operations in mid 2015. This resulted in an annual reduction to water consumption of 297,000 m3, and represented 23% of annual water revenues.
- ➤ In 2015/2016 The municipality installed water meters to all residential premises and what was thought to be "Revenue Neutral" rates were established and implemented. As residential consumption was monitored, it became evident that the per household usage used to develop rates was higher than what was actually being used, putting additional downward pressure on revenues.
- ➤ In 2016/2017 a rate adjustment/increase was implemented to re-set the new metered residential rates to generate same level of residential revenues as pre-metered scenario.

- 2017/2018/2019 the municipality continued to monitor the impact of residential meters and other operational changes affecting the water financial results. In order to mitigate rate increases from the financial pressures of the loss of gross profit from the 2015 closure of the large user, the municipality altered its financial strategy and used long term debt as a means of paying for some of its water infrastructure renewal needs.
- ➤ 2020 The 2020 Budget to Council was highlighted with a recommendation that it is time to "reset" the financial plan for **both water and wastewater services**. The recommendation is essentially recapped as follows:



This Water Financial Plan largely follows the recommendations made in the 2020 budget. It includes:

- ✓ Reach 100% of Recommended Target Minimum Reserve by 2026
- ✓ No new Long Term Debt by 2026
- √ 100% of Capital Funding needs from OWN SOURCE Funds by 2026
- ✓ No reliance on special funding opportunities
- √ 10% annual increase to rates

SUSTAINABLE FINANCIAL PLAN

FINANCIAL PLAN RECAP

Schedule 1 - Projected Statement of Operations - REVENUES AND EXPENSES

Schedule 2 – Projected Statement of Cash Flow

Schedule 3- Projected Statement of Financial Position

Schedule 4 – Projected Tangible Capital Asset Schedule

Schedule 5 – Projected Rates

As required, these statements are in accordance with the new Public Sector Accounting Standards. Actual results will vary from the projections herein and the differences may be material.

KEY INPUTS

This section discussed the key inputs and documents used to develop the financial plan consistent with governing legislation. The costs, revenues and assumptions used in preparing the financial projections are based on the Town's data such as the 2020 approved and 2021 draft operating budget and capital plan, year end reserve continuity schedules and other relevant information provided by staff. The five key financial inputs below drive the prescribed statements in this plan.

1. Expenditure and Revenue Forecast

The expenditure and revenue forecast is based on information obtained from the Town's 2020 operating budget. Some main assumptions used to derive the operating and revenues projections are as follows:

- Expenditures will increase annually as follows:
 - o Salaries, Wages and Benefits 2.5% per annum
 - o Operating and Maintenance Costs 2.5% per annum
 - Interest on long term debt in accordance with existing or forecast financing needs and rates
- Revenues see section 5. RATES

2. Capital Expenditure and Funding

The Town's capital budget forecast used in preparing the financial plan is outlined in the attached schedules. The schedule identifies the cumulative cost for capital infrastructure renewal projects over the planning period and identifies the annual funding sources as outlined by Town staff and Council. This schedule does not include any growth related projects as none have been identified as part of the multi year capital plan as provided by staff.

Asset Management – The asset inventory that has been compile includes asset original. The Town is actively reviewing its water inventory and facilities assessments with the goal to determine the appropriate level of detail for the facility assets, as well as compile the level of detail for the assets including asset conditions, life expectations, risk assessments and replacement costs. The Town has

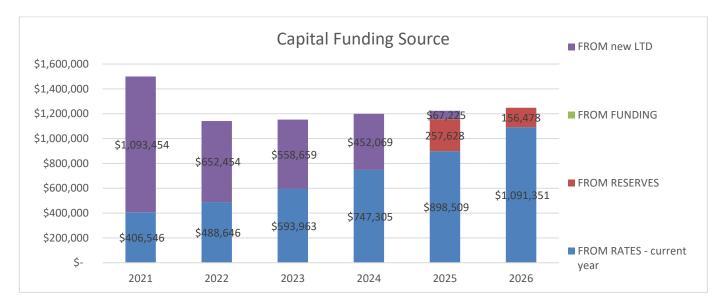
implemented an asset management system to track and analyse the data and assist with long term life cycle planning.

The capital cost projections built into this financial plan have been provided by the department based on the information it has to date.

It should be noted that the **capital funding plan** includes the following strategy.

- > Generate 100% of Capital Funding needs through own source revenues by year 2026.
- Reduce and eliminate need for new long term debt by the year 2026
- Forecast includes 0% of annual capital infrastructure renewal needs to come from Special Funding opportunities from other levels of government (Federal and Provincial)

The following chart shows the capital funding composition built into this financial plan. As we move from 2021 to 2026, we see the reduction in the need for long term debt and increase in ability to fund from own source revenues (current revenues and reserves in excess of minimum target balance).



3. Water Reserve Fund

The results of the projected transfers to and from the Water Reserve Fund are outlined in the Schedule. The reserve activity includes the following strategy:

Target Minimum Reserve Balance equivalent to average 5 year capital infrastructure needs + average 5 year Special Funding Source Forecast

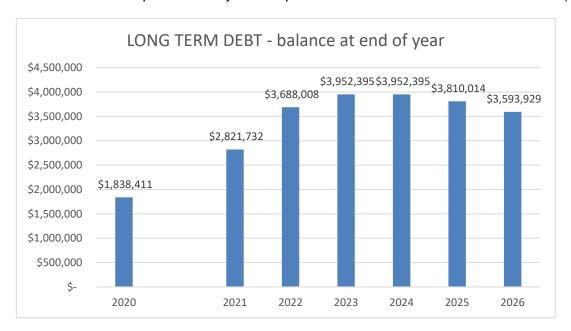
Reserve Target Component	\$
Average 5 year capital infrastructure needs	\$1,250,000
RECOMMENDED TARGET MINIMUM RESERVE BALANCE	\$1,250,000

20% of Annual Cash Based Surplus from Operations to be transferred to Reserve until Recommended Minimum Reserve Balance Target is achieved. The following chart demonstrates the changes to reserves built into this financial plan. This financial plan projects the municipality will reach its Minimum Reserve Balance Target in 2026.



4. Long Term Debt

As of December 31, 2020, the Town had outstanding long term debt related to Water services of \$1,838,211. The forecasts include the need to borrow for capital renewal needs until 2025, at which time the Town is expected to fully fund capital renewal costs from own source funds (100%)

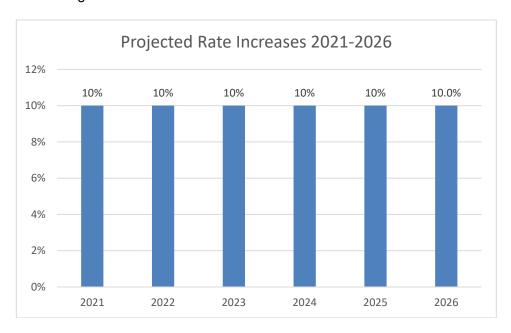


5. Rates

In order for the municipality to:

- 1) meet its infrastructure renewal needs
- 2) reduce/eliminate reliance on long term debt
- 3) eliminate reliance on funding from other levels of government
- 4) establish adequate reserve levels

Significant rate increases are recommended and built into this financial plan, as follows:



TOWN OF COCHRANE WATER OPERATIONS Schedule 1

Schedule 1	PROJECTED STATEMENT OF OPERATIONS												
	2021	2022	2023	2024	2025	2026							
REVENUES													
Water Rates	\$1,909,765	\$2,100,742	\$2,310,816	\$2,541,897	\$2,796,087	\$3,075,696							
TOTAL													
EXPENSES													
Operating Expenses	\$1,207,591	\$1,237,781	\$1,268,726	\$1,300,444	\$1,332,955	\$1,366,279							
Amortization Expense	\$546,002	\$574,530	\$603,345	\$633,329	\$663,913	\$695,109							
Interest Expense	\$56,326	\$55,430	\$65,313	\$72,719	\$77,989	\$75,121							
TOTAL	\$1,809,919	\$1,867,740	\$1,937,383	\$2,006,492	\$2,074,857	\$2,136,509							
EXCESS REVENUES OVER EXPENSES BEFORE OTHER	\$99,846	\$233,001	\$373,432	\$535,405	\$721,230	\$939,186							
OTHER													
Government Transfers related to Capital (Funding)	\$0	\$0	\$0	\$0	\$0	\$0							
EXCESS REVENUES OVER EXPENSES	\$99,846	\$233,001	\$373,432	\$535,405	\$721,230	\$939,186							

TOWN OF COCHRANE WATER OPERATIONS Schedule 2

Schedule 2	PROJECTED STATEMENT OF CASH FLOW												
	2021	2022	2023	2024	2025	2026							
PROJECTED EXCESS REVENUES OVER EXPENSES Add back Amortization	\$99,846 \$546,002	\$233,001 \$574,530	\$373,432 \$603,345	\$535,405 \$633,329	\$721,230 \$663,913	\$939,186 \$695,109							
_													
CASH PROVIDED BY OPERATIONS	\$645,848	\$807,531	\$976,777	\$1,168,734	\$1,385,143	\$1,634,295							
CAPITAL TRANSACTIONS													
Acquisition of Tangible Capital Assets	-\$1,500,000	-\$1,141,100	-\$1,152,622	-\$1,199,374	-\$1,223,362	-\$1,247,829							
FINANCIAL TRANSACTIONS													
Proceeds from new debt	\$1,093,454	\$652,454	\$558,659	\$452,069	\$67,225	\$0							
Debt Repayment	-\$110,132	-\$157,379	-\$187,459	-\$187,682	-\$209,606	-\$216,085							
TOTAL Financing Transactions	\$983,322	\$495,075	\$371,200	\$264,387	-\$142,381	-\$216,085							
_													
Increase(Decrease) in Cash Equivalents	\$129,170	\$161,506	\$195,355	\$233,747	\$19,401	\$170,381							
Cash Equivalents (Reserve Fund) beginnning of period	\$500,000	\$629,170	\$790,676	\$986,031	\$1,219,778	\$1,239,179							
Cash Equivalents (Reserve Fund) end of period	\$629,170	\$790,676	\$986,031	\$1,219,778	\$1,239,179	\$1,409,560							

TOWN OF COCHRANE WATER OPERATIONS Schedule 3

Schedule 3	PROJECTED STATEMENT OF FINANCIAL POSITION												
	2021	2022	2023	2024	2025	2026							
FINANCIAL ASSETS													
Cash and cash equivalents	\$629,170	\$790,676	\$986,031	\$1,219,778	\$1,239,179	\$1,409,560							
Long Term Debt	-\$2,821,732	-\$3,688,008	-\$3,952,395	-\$3,952,395	-\$3,810,014	-\$3,593,929							
Net Financial Assets (Liabilities)	-\$2,192,563	-\$2,897,332	-\$2,966,364	-\$2,732,617	-\$2,570,835	-\$2,184,369							
NON FINANCIAL ASSETS													
Tangible Capital Assets	\$10,397,535	\$10,964,106	\$11,513,382	\$12,079,427	\$12,638,876	\$13,191,596							
ACCUMULATED SURPLUS	\$8,204,972	\$8,066,773	\$8,547,019	\$9,346,811	\$10,068,040	\$11,007,227							
The ACCUMULATED SURPLUS IS COMPRISED OF:													
Surplus Invested in tangible capital assets	\$10,397,535	\$10,964,106	\$11,513,382	\$12,079,427	\$12,638,876	\$13,191,596							
TCA Debt	-\$2,821,732	-\$3,688,008	-\$3,952,395	-\$3,952,395	-\$3,810,014	-\$3,593,929							
Reserves set aside by Council	\$629,170	\$790,676	\$986,031	\$1,219,778	\$1,239,179	\$1,409,560							
	\$8,204,972	\$8,066,773	\$8,547,019	\$9,346,811	\$10,068,040	\$11,007,227							

TOWN OF COCHRANE WATER OPERATIONS

Schedule 4

Tangible Capital As	sets - COST
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Opening Balance Additions

Closing Balance

Tangible Capital Assets - ACCUMULATED DEPRECIATION

Opening Balance

Additions

Closing Balance

NET BOOK VALUE

Change in net book value

Tangible Capital Asset Schedule													
	20)21-2026 FIN	NANCIAL PLA	AN									
2021	2022	2023	2024	2025	2026								
\$ 23,361,457	\$ 24,861,457	\$ 26,002,557	\$ 27,155,179	\$ 28,354,553	\$ 29,577,915								
\$ 1,500,000 \$24,861,457	\$ 1,141,100 \$26,002,557	\$ 1,152,622 \$27,155,179	\$ 1,199,374 \$28,354,553	\$ 1,223,362 \$29,577,915	\$ 1,247,829 \$30,825,745								
\$13,917,920	\$ 14,463,922	\$ 15,038,452	\$ 15,641,797	\$ 16,275,126	\$ 16,939,039								
\$ 546,002	\$ 574,530	\$ 603,345	\$ 633,329	\$ 663,913	\$ 695,109								
\$14,463,922	\$15,038,452	\$ 15,641,797	\$16,275,126	\$16,939,039	\$ 17,634,149								
\$10,397,535	\$10,964,106	\$11,513,382	\$12,079,427	\$12,638,876	\$ 13,191,596								
\$ 953,998	\$ 566.571	\$ 549.277	\$ 566.045	\$ 559,448	\$ 552.72								

TOWN OF COCHRANE WATER OPERATIONS

		WATER RATES									
Schedule 5	Current		202	21-2026 FII	NANCIAL PL	AN					
	2020	2021	2022	2023	2024	2025	2026				
Rate Increase % from prior>>>	10%	10%	10%	10%	10%	10%	10.0%				
METERED SERVICES											
Water Rates (water line size)			Fix	ed Monthly Charç	j e						
.75" (3/4)	\$ 39.88	\$ 43.87	\$ 48.26	\$ 53.08	\$ 58.39	\$ 64.23	\$ 70.65				
1.00"	\$ 55.82	\$ 61.41	\$ 67.55	\$ 74.30	\$ 81.73	\$ 89.90	\$ 98.89				
1.5"	\$ 71.78	\$ 78.95	\$ 86.85	\$ 95.53	\$ 105.09	\$ 115.60	\$ 127.15				
2.0"	\$ 115.60	\$ 127.16	\$ 139.88	\$ 153.86	\$ 169.25	\$ 186.17	\$ 204.79				
3.0"	\$ 438.63	\$ 482.49	\$ 530.74	\$ 583.82	\$ 642.20	\$ 706.42	\$ 777.06				
4.0"	\$ 558.26	\$ 614.09	\$ 675.50	\$ 743.05	\$ 817.35	\$ 899.09	\$ 989.00				
Sprinkler Systems	\$ 94.56	\$ 104.02	\$ 114.42	\$ 125.86	\$ 138.45	\$ 152.29	\$ 167.52				
Unit Hydrant Rental	\$ 51.26	\$ 56.38	\$ 62.02	\$ 68.22	\$ 75.05	\$ 82.55	\$ 90.80				
			Volume	charge per cubic	meter						
Any metered service	\$ 2.43	\$ 2.67	1		T	\$ 3.91	\$ 4.30				
NON-METERED SERVICES	<u> </u>										
Water Rates			Fix	ed Monthly Charç	je						
Residential - Water	\$ 71.83	\$ 79.02	\$ 86.92	\$ 95.61	\$ 105.17	\$ 115.69	\$ 127.26				
Commercial - Water	\$ 74.55	\$ 82.01	\$ 90.21	\$ 99.23	\$ 109.15	\$ 120.07	\$ 132.07				

TOWN OF COCHRANE WATER OPERATIONS

	OR	IGINAL SPLIT												
Operating % of rates based on budget		66%												
Capital % of rates based on budget (includes debt repayment)		34%												
		100%												
METERED SERVICES - OPERATING COMPONENT		2020		2021		2022		2023		2024		2025		2026
Water Rates (water line size)	Fixed Monthly Charge													
.75" (3/4)	\$	26.32	\$	27.14	\$	27.82	\$	28.75	\$	29.65	\$	30.52	\$	31.22
1.00"	\$	36.84	\$	37.99	\$	38.94	\$	40.25	\$	41.51	\$	42.72	\$	43.70
1.5"	\$	47.37	\$	48.85	\$	50.06	\$	51.75	\$	53.37	\$	54.93	\$	56.19
2.0"	\$	76.30	\$	78.68	\$	80.63	\$	83.35	\$	85.95	\$	88.47	\$	90.50
3.0"	\$	289.50	\$	298.53	\$	305.94	\$	316.25	\$	326.14	\$	335.68	\$	343.38
4.0"	\$	368.45	\$	379.96	\$	389.38	\$	402.51	\$	415.09	\$	427.24	\$	437.03
Sprinkler Systems	\$	62.41	\$	64.36	\$	65.95	\$	68.18	\$	70.31	\$	72.37	\$	74.03
Unit Hydrant Rental	\$	33.83	\$	34.89	\$	35.75	\$	36.96	\$	38.11	\$	39.23	\$	40.13
	Volume charge per cubic meter													
Any metered service	\$	1.60	\$	1.65	\$	1.69	\$	1.75	\$	1.80	\$	1.86	\$	1.90

METERED SERVICES - CAPITAL COMPONENT

Water Rates (water line size)						Fixe	ed Mo	onthly Charg	е					
.75" (3/4)	\$	13.56	\$	16.73	\$	20.44	\$	24.33	\$	28.74	\$	33.71	\$	39.43
1.00"	\$	18.98	\$	23.41	\$	28.61	\$	34.05	\$	40.22	\$	47.18	\$	55.19
1.5"	\$	24.40	\$	30.10	\$	36.79	\$	43.78	\$	51.72	\$	60.67	\$	70.97
2.0"	\$	39.30	\$	48.48	\$	59.25	\$	70.52	\$	83.30	\$	97.71	\$	114.30
3.0"	\$	149.13	\$	183.96	\$	224.81	\$	267.57	\$	316.06	\$	370.74	\$	433.68
4.0"	\$	189.81	\$	234.13	\$	286.12	\$	340.54	\$	402.27	\$	471.85	\$	551.97
Sprinkler Systems	\$	32.15	\$	39.66	\$	48.46	\$	57.68	\$	68.14	\$	79.92	\$	93.49
Unit Hydrant Rental	\$	17.43	\$	21.50	\$	26.27	\$	31.27	\$	36.93	\$	43.32	\$	50.68
	Volume charge per cubic meter													
Any metered service	\$	0.82	\$	1.02	\$	1.24	\$	1.48	\$	1.75	\$	2.05	\$	2.40

TOWN OF COCHRANE

WATER OPERATIONS

Schedule 5		2020	2021		2022		2023		2024		2025		2026
EXAMPLE of Average Residential Customer (12m3/month)]	12		12		12		12		12		12	12
WATER SERVICES ONLY OPERATING COMPONENT													
Fixed service charge	\$	26.32	\$	27.14	\$	27.82	\$	28.75	\$	29.65	\$	30.52	\$ 31.22
Variable charge	\$	19.21	\$	19.81	\$	20.30	\$	20.99	\$	21.64	\$	22.28	\$ 22.79
TOTAL OPERATING COMPONENT	\$	45.53	\$	46.96	\$	48.12	\$	49.74	\$	51.30	\$	52.80	\$ 54.01
CAPITAL COMPONENT													
Fixed service charge	\$	13.56	\$	16.73	\$	20.44	\$	24.33	\$	28.74	\$	33.71	\$ 39.43
Variable charge	\$	9.90	\$	12.21	\$	14.92	\$	17.76	\$	20.98	\$	24.60	\$ 28.78
TOTAL CAPITAL COMPONENT	\$	23.46	\$	28.93	\$	35.36	\$	42.08	\$	49.71	\$	58.31	\$ 68.21
TOTAL WATER SERVICES BILL FOR THE MONTH	\$	68.99	\$	75.89	\$	83.48	\$	91.83	\$	101.01	\$	111.11	\$ 122.22

