

Cowichan Bay Waterworks District

Public Information Meeting

Proposed 2024 Water Tolls, Parcel Tax, Budget, Capital Planning Update Draft Commercial Users Water Conservation Program

When: 7:30 pm, Wednesday, November 29, 2023

Where: Gym [use side entrance], Bench Elementary School, 1501 Cowichan Bay Road, Cowichan Bay, BC1

Agenda

1. Welcome and Traditional Territorial Acknowledgement

2. Introductions

3. Presentations

a. Action Plan update

- b. 2024 Proposed Budget
 - Tolls cover the cost of Operations
 - Taxes cover the cost of Capital Upgrades
- c. 2024 Proposed Water Tolls
- d. Proposed Commercial Water Conservation Program
- e. Five Year Capital Plan
- f. 2024 Proposed Parcel Tax
- 4. Community Discussion / Questions and Answers
- 5. Next Steps
- 6. Adjournment

Attachments

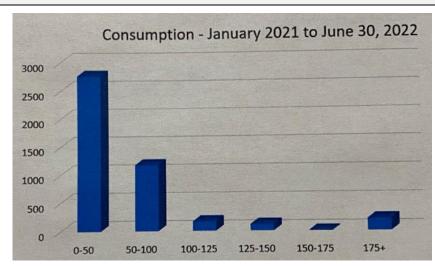
- Water Use Data
- Action Plan
- Proposed 2024 Budget
- Proposed Water Toll Bylaw
- Five Year Capital Plan
- Proposed Parcel Tax Bylaw
- Proposed Water Conservation Program Commercial Users

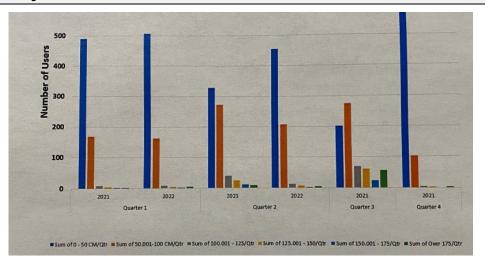
Reference Material – <u>www.cowichanbaywater.com</u>

- Master Plan https://cowichanbaywater.com/documents/342/MasterPlanJan2023.pdf
- Source Water Protection Plan https://cowichanbaywater.com/documents/342/SWPP Final compressed.pdf
- Action Plan https://cowichanbaywater.com/documents/342/summary_table_11x17.pdf
- Current Projects https://cowichanbaywater.com/current-projects
- Letters Patent https://cowichanbaywater.com/letters-patent
- Financial Statements https://cowichanbaywater.com/financial-statements
- Board Minutes https://cowichanbaywater.com/board-meetings
- Annual General Meeting Background https://cowichanbaywater.com/annual-general-meetings
- Other jurisdiction rate comparison

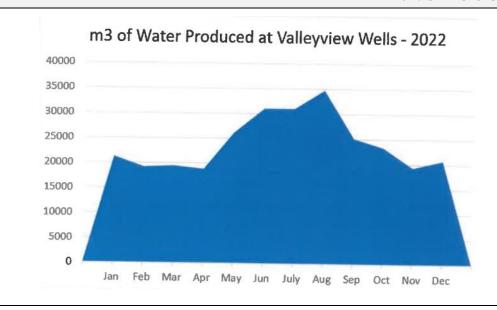
¹ No food or drink is permitted in the Gym. All footwear with heels or hard soles is forbidden. No street shoes nor street runners are allowed in the Gym

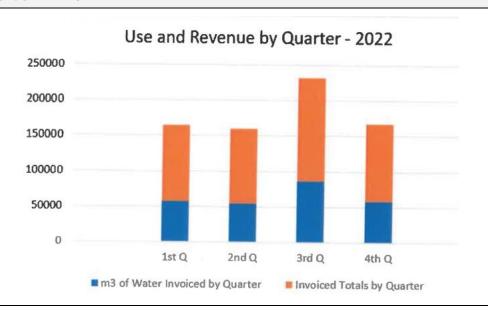
Water Use Data - January 2021 to June 2022

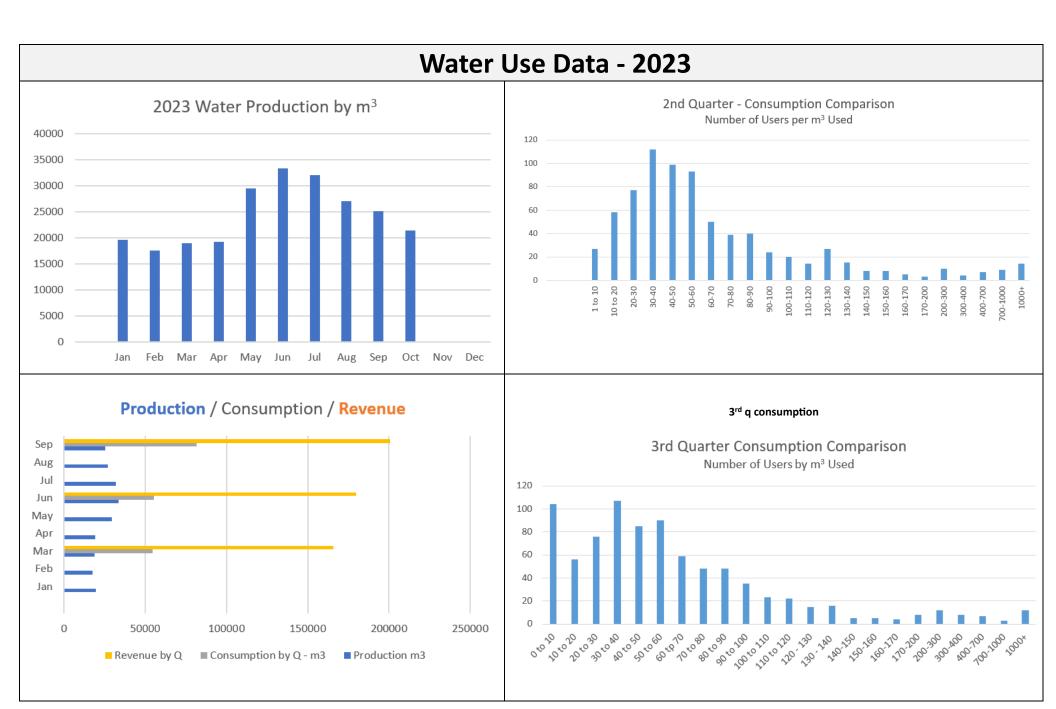




Water Use Data - 2022







Cowichan Bay Waterworks District Water Toll and Parcel Tax Framework

Cowichan Bay Waterworks District is an Improvement District incorporated under the provincial *Local Government Act* [s. 17] in 1946. Improvement Districts are autonomous local government bodies, akin to a city or town, responsible for providing one service [i.e. community water]. Cowichan Bay Waterworks District is administered by an elected board of five trustees, each elected for a rotating a three-year term by eligible landowners of the improvement district.

The current water supply system serves approximately 3000 residents in Cowichan Bay [and includes Valleyview Centre in Cobble Hill]. The water supply system consists of two active wells, three reservoirs, two booster pumps, one fire pump, one treatment station, two pressure zones, two pressure reducing valves, 80+ fire hydrants and 20 km of watermains. A new Treatment System is being developed for the Pavenham Well. The water is treated with minor amounts of sodium hypochlorite.

Cowichan Bay Waterworks District is entitled to levy water tolls to recover the costs of administering, operating, and maintaining the water supply system.

Cowichan Bay Waterworks District is also entitled to levy an annual parcel tax to cover the cost of capital upgrades, new infrastructure and replacing aging infrastructure. These upgrades are informed by a Water System Master Plan and Action Plan. The District collects Capital Expenditure Charges, Latecomer Fees and a variety of application and service fees to recover the costs for new development [as per the *Local Government Act*].

Review of the Water Toll Framework continues as the District encourages conservation. The water toll serves three purposes, (i) to monitor water usage, (ii) to encourage conservation and (iii) to recover water production and delivery costs. With the principles of fairness and consistency being the cornerstone of Cowichan Bay Waterworks District, it is imperative that the water toll framework achieve these objectives on a user pay basis.

- The <u>2023</u> water toll framework recovered water production costs based upon consumption, cost recovery and climate change [the 3-C's].
- The 2024 water toll framework proposes to continue recovering water production costs based upon the 3-C's and proposes a Commercial Users Water Conservation Program to lower use and cost
 - eliminates the unintended consequence of the base rate penalizing users of less than 25 m³ per quarter.
 - reduces the impact of the upper tier by reducing it to \$4/m³ thereby recognizing conservation efforts made by commercial users and those with brown, crunchy lawns.

A review of the Parcel Tax rate also occurred in order to plan for implementation of the Master Plan [see the Action Plan]. The water distribution system is designed for average use and is adequate for the current population. Given some ratepayers tend to use amounts well in excess of North American averages, a new source of water is required to meet increased demand. Water conservation efforts have been strongly encouraged to reduce water use, and, to date, in 2023 data indicates that most ratepayers and some commercial users have reduced water use, in compliance with conservation measures and outdoor watering restrictions. The parcel tax rate has been determined by using the identified priorities and cost estimates in the Master Plan and then dividing that by the number of parcels on the tax roll [1040 parcels].

The parcel tax roll also underwent a tri-party review this year [CBWD, BCAA, Land Title Office and the Ministry of Municipal Affairs]. This review identified parcels that were not previously on the parcel tax roll, resulting in the addition of several parcels to the tax roll and an increase in projected tax revenue.

	Cowichan Bay Waterworks District	2022- 2024 Action Plan Summary					
	Project by Priority	Status	2022	2023	2024	AC Pipe Replacement Program	2026~2040
1.	Office Filing System	Complete					
2.	Demolish / Dispose George Rd Station	Complete					
3.	Source Water Protection Plan	Complete					
4.	Telegraph Reservoir Repairs	Complete					
5.	System Water Quality Review / Pavenham Well Commission	In progress	х				
6.	Scada – Ordano	In progress (Cowichan Bay Estates warranty)	×				
7.	Scada – Valleyview	In progress	х				
8.	Office Heat Pump	Complete					
9.	Safety Upgrades	Complete	х				
10.	Hyrdant Upgrades/Maintenance	Fall 2023		×			
11.	Valleyview Transducers	Planning phase	×				
12.	Back up Generator	Planning phase	х				
13.	New Water Source	Consultation initiated	х				
14.	Chlorine Analyzer Bi annual Maintenance	Complete		×			
15.	Cubic Feet to Cubic Meter Replacement	In progress – 80% complete	x	×			
16.	Valve Assessment / Repair / Upgrade / Mapping	In progress – 50% complete	x	×			
17.	Ordano Chlorine Analyzer – no longer necessary	Removed					
18.	Valleyview Station Upgrade	Planning phase with Valleyview Mall upgrade &	sewage permit applijs.		x		
19.	Flush Stations	To do		×			
20.	SWPP Recommendations [well fence, signage, bentonite seal]	In progress		×	x		
21.	Cow Bay Rd [Hecate to Botwood]	Design phase		×			
22.	Cow Bay Rd [Glen to Longwood]	Complete		×			
23.	Wilmot Rd [Pritchard to Cow Bay Rd]	Spring 2024			x		
24.	Kidd Well Assessment	Complete		×			
25.	Wessex Road	Fall 2023		×			
26.	Engineering Specifications	In progress		×			
27.	Engineering Model	In progress		×			
28.	Bicks Rd	Design complete		×		х	
29.	Pavenham Rd – 1964	To do				х	
30.	Glen Rd [east of McGill] - 1964	To do				х	
31.	George Rd – 1965	To da				х	
32.	Longwood Rd – 1970	To do				х	
33.	Fenwick Rd – 1972	To do				х	
34.	Austin Place – 1972	To do				х	
35.	McGill Rd – 1974	To do				х	
36.	Glen Rd [west of McGill] - 1974	To do				к	
37.	Alder Glen Rd – 1974	To do				х	
38.	Maple Glen Rd - 1976	To do				к	
39.	Wilmot Rd [George to Falcon]	To do				х	
40.	Nelson Rd [prior to Booster]	To do					х
41.	Woods Rd [prior to Booster]	To do					x
42.	Sears Rd [prior to Booster]	To do					×
43.	Telegraph Booster Station [after AC pipe replacements]	To do					x
44.	<u>Demolish Ordano</u> shed and Pavenham cement reservoir	TBD					х

		2024	RAFT BUDGET	
OPERATIONS INCOME			CAPITAL INCOME	
Water Tolls	\$	625,000	Taxes \$ 350,00	00
Fees & Charges	\$	3,000	Interest \$ 10,00	00
Bank Interest	\$	4,000	Grant Income \$	-
Penalties	\$	6,000		
Pre-Paid Admin	\$	10,000		
Transfers - Capital Projects	\$	330,000		
TOTAL OPERATIONS INCOME	<u>\$</u>	978,000	TOTAL CAPITAL INCOME \$ 360,00	<u>0</u>
ADMINISTRATION			OPERATIONS	
Salaries Wages Benefits	\$	160,000	Salaries Wages Benefits \$ 150,00	00
Training	\$	3,000	Training \$ 5,00	
Trustee Remuneration	\$	13,500	Capital Projects \$ 330,00	
AGM & Trustee Mtgs	\$	1,000		00
Memberships & Licenses	\$	20,000	Memberships/Licenses \$ 3,00	00
Computer Services [office]	\$	5,000	Computer Services - Stations \$ 5,00	00
Office Supplies	\$	5,000	Truck Insurance \$ 1,50	00
Office Equipment	\$	1,000	Truck Fuel \$ 1,50	00
Office Maintenance/Repairs	\$	1,000	Truck Repairs / Maintenance \$ 1,50	00
Bank Charges	\$	500	Tool Rental \$ 2,50	00
Audit	\$	24,000	Tools/ Equipment \$ 8,00	00
Conventions Seminars	\$	1,000	Materials & Supplies \$ 23,00	00
Insurance	\$	40,000	Engineering Services \$ 10,00	00
Legal Services	\$	5,000	Contractors \$ 25,00	00
Advertising	\$	500	Station Maintenance \$ 15,00	00
Janitor	\$	2,000	Reservoir Maintenance \$ 15,00	00
Copier	\$	2,000	Hydrant Maintenance \$ 5,00	00
Postage Courier	\$	5,500	PRV Maintenance \$ 5,00	00
Sewer	\$	300	System Repairs \$ 23,55	50
Security	\$	600	Safety \$ 5,00	00
Land Title Search Fees	\$	500	BC Hydro \$ 25,00	00
Internet (Pavenham)	\$	1,000	Internet (vv, Ordano) \$ 1,00	00
Telephone	\$	550	Telus (cell) \$ 2,50	
			Water Treatment \$ 20,00	00
			Lab Fees \$ 1,00	30
			BC One Call \$ 50	00
Subtotal - Administration	\$	292,950	Subtotal - Operations \$ 685,05	<u>o</u>
			TOTAL EXPENSES \$ 978,00	00

Existing Water Toll Rates - 2023

Tier	Usage	Cost	Water Tax in Lieu
	Quarterly Rate ¹	\$85 per	\$70 per
	[includes the first 25m ³]	connection and/or unit.	connection
1	25.0001 m³ to 49.99 m³	\$0.50 / m ³	
2	50 m³ to 74.99 m³	\$0.75 / m ³	
3	75 m³ to 99.99 m³	\$1.00 / m ³	
4	100 m ³ to 124.99 m ³	\$3.00 / m ³	
5	Over 125 m ³	\$5.00 / m ³	

Proposed Water Toll Rates - 2024

Tier	Usage	Cost	Water Tax in Lieu
	Quarterly Rate ¹	\$80 per	\$170 per
	[includes the first 15m³]	connection and/or unit.	connection
1	15.0001 m³ to 49.99 m³	\$0.50 / m ³	\$0.50 / m ³
2	50 m³ to 74.99 m³	\$0.75 / m ³	\$0.75 / m ³
3	75 m³ to 99.99 m³	\$1 / m³	\$1 / m³
4	100 m³ to 149.99 m³	\$3 / m ³	\$3 / m³
5	150 m³ and over	\$4 / m³	\$4 / m³



<u>2022 to 2030 Capital Expenditure Plan – Cowichan Bay Waterworks District</u> <u>2022-2030</u>

Tax Income	Tax Project [as per Master Plan]	Cost	Year	Funding Source	Reserve / Levy / Borrow / Grant Project [as per Master Plan, SWPP, Order, other identified priority]
2022 tax - \$180 000	Wessex Main	\$160 000	Fall 2023	tax	
2023 tax - \$225 000	Wilmot Main	\$260 000	Spring 2024	Tax + high interest savings	
2024 tax - \$350 000 ¹	Pavenham Main	\$300 000	2025	tax	
2025 tax - \$350 0001	Glen Main – McGill east	\$300 000	2026	tax	
2026 tax - \$350 0001	George Main	\$300 000	2027	tax	
2027 tax - \$350 0001	Longwood & Bicks Main	\$500 000	2028	Tax + high interest savings	
2028 tax - \$350 000 ¹	Fenwick Main Demo Pavenham/Ordano	\$300 000	2029	tax	
2029 tax - \$400 000 ¹	Austin & McGill Mains	\$500 000	2030	Tax [+ 2028 surplus] + high interest savings	
		\$142 000	2022	Bylaw 351	Misc projects (safety, Valleyview, hydrants, valves, SWPP)
		\$71 000	2023	Bylaw 352	Misc capital [generator, heat pump, George demo]
		\$176 000	2023	Bylaw 367	Cow Bay Rd waterline - Longwood to Glen Valleyview pump. Scada Server
		\$600 000	2023/2024		Pavenham treatment
		\$65 000	Fall 2023		Village Main design
		\$	2024	Tbd ²	New water source design
		\$	2024	150	Valleyview Station design
		\$1 000 000	2025		Village main install
		\$1 000 000	2026		New water source

¹ Equates to a parcel tax of \$350 [\$400 in 2029]

² Options include loans, grants, levies, partnerships, bylaw, operations funds

Draft 2024 Tax Rates

The Trustees of Cowichan Bay Waterworks District ENACT AS FOLLOWS:

1. For the year 2024, there are hereby levied the following taxes:

i.	A tax of \$ 350 on all parcels of land classified into Group A.	SFD
ii.	A tax of \$ 350 on all parcels of land classified into Group A1.	Wood Rd
iii.	A tax of \$ 300 on all parcels of land classified into Group B.	Vacant
iv.	A tax of \$ 300 on all parcels of land classified into Group C.	Water not supplied
v.	A tax of \$ 700 on all parcels of land classified into Group D.	Two dwellings
vi.	A tax of \$ 350 on all parcels of land classified into Group E.	Commercial
vii.	A tax of \$ 700 on all parcels of land classified into Group F.	Commercial multi
viii.	A tax of \$ 8 500 on all parcels of land classified into Group G.	Valleyview
ix.	A tax of \$ 10 150 on all parcels of land classified into Group H.	Wessex
x.	A tax of \$ 350 on all parcels of land classified into Group I.	Ocean Front
xi.	A tax of \$3 900 on all parcels of land classified into Group J.	4 ways
xii.	A tax of \$0 on all parcels of land classified as tax exempt.	Tax exempt

<u>Draft - Cowichan Bay Waterworks District</u> Water Conservation Program

Cowichan Bay Waterworks heard the concerns expressed by the commercial users and is investigating offering water use audits to commercial facilities within the Waterworks District boundary. Water audits are an effective way to determine water use and efficiencies, and can help to identify conservation opportunities, reduce use, cost and measure water savings. Water use audits can help to identify the most cost-effective ways to increase savings and to reduce water use. There are certain areas for savings that generally have a quick and high Return on Investment:

Type of Facility	Areas for Water Savings
Food Services	Once through cooling in walk in coolers and freezers and ice machines, toilets, taps, kitchen equipment, outdoor landscaping
Office	Toilets, server room once-through water cooled air conditioners, irrigation systems, cooling towers, outdoor landscaping
Retail	Toilets, irrigation systems, refrigeration, outdoor landscaping
Institutional	Toilets, continuous flush urinals, irrigation systems, outdoor landscaping

No matter the type of facility, areas that will always show water savings are removing once-through water cooled equipment, and removing old, water wasting faucets and toilets.

Contact the District Administrator if you would be interested in this program – c.wirsz@cowichanbaywater.com

An example of water savings efforts by a local business resulted in savings of over 700 m³ [\$3500] and included staff education and understanding by team members on water usage and conservation, water on/off solenoids that run inline with on/off commands for equipment that uses the water, rebuilds of equipment, lower flow capacity sprayer heads, changing rinse stations to knee activated paddles and utilization of high pressure washing for sanitation.

Once this program has been established, the District will review options for water use audits in multi-family and residential settings.

While the aquifer will fill up during rainy periods, water use doubles in the summer—primarily due to lawn and garden watering.

The effects of climate change include longer dry spells in the summer months and shorter, more intense rain events are expected.

Having as much water available as possible provides the assurance that not only will there be a sufficient quantity of drinking water for the year, but provides the flexibility to deal with drought and forest fires.

Population growth will eventually require expansion of our water supply system, but ongoing water conservation can delay upgrades.

Rate Comparisons Other Local Jurisdictions

[see separate package]