

**2025-2029**  
**Financial Planning**  
**Core Services**  
Water Supply

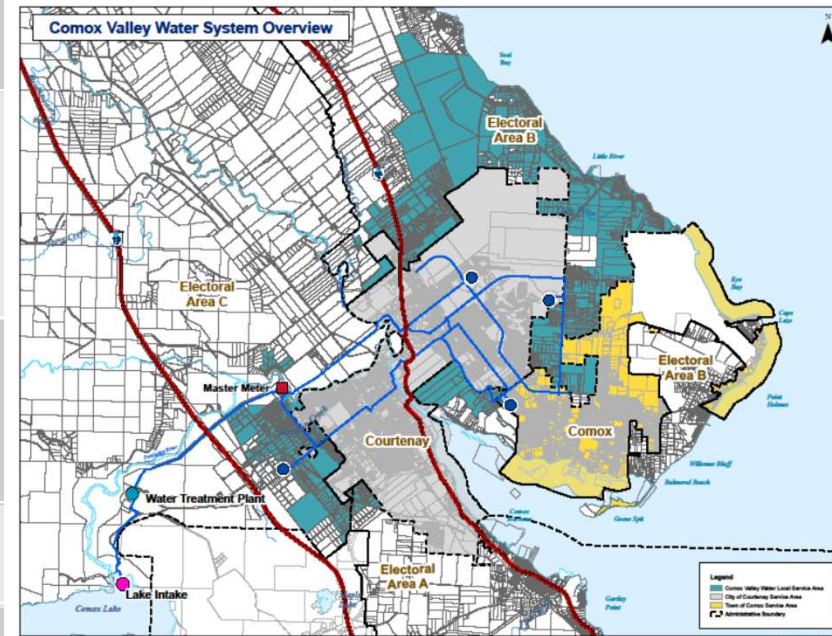
300 Comox Valley Water  
Supply Service





# Core Service Water Supply

Core Service	Water Supply
Service Name	Comox Valley Water Supply System
Service Sub-functions	301 – CV Watershed Protection Plan 302 – CV Water Treatment Plant & Raw Water Intake 303 – CVRD Water Distribution Operations 304 – CVRD Water Treatment Operations
Purpose	To design, construct, reconstruct, purchase, maintain & operate facilities for the supply, treatment, conveyancing, storage & distribution of water
Participants	Comox, Courtenay, Defined Areas within Electoral Areas A, B & C
2025 Proposed Changes to Service	None

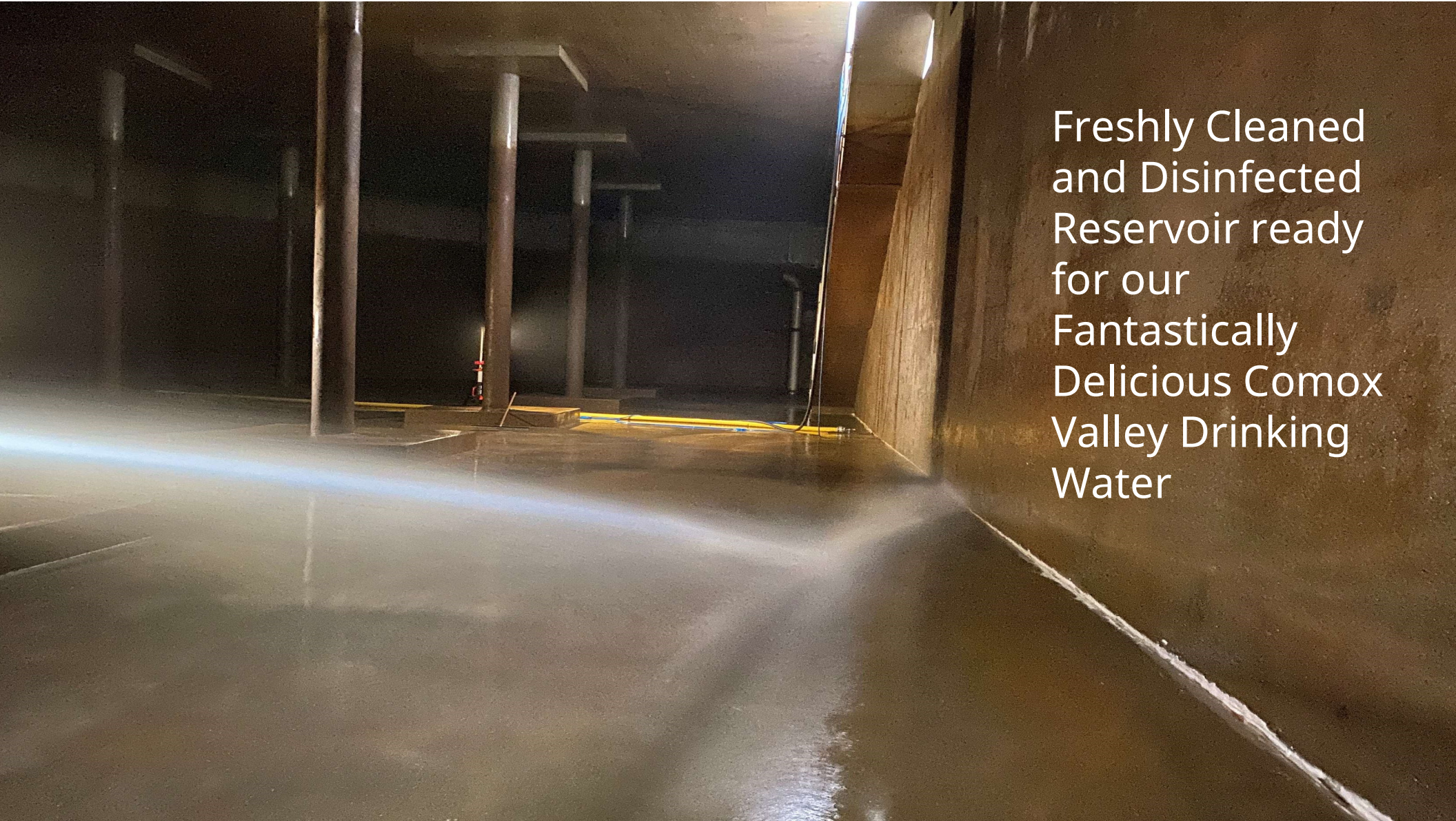




# 300 Comox Valley Water Supply 2024 Accomplishments

- Chlorine Scrubber removal at the old Chlorination Station
  - Budgeted at 100k for 2025
  - Developed procedures to do this safely ourselves and completed successfully for under 15k.
- Cleaned and inspected West Courtenay Reservoir (2 cells)
- Auto-Dialers installed, tested and operational for back-up comms
- Bulk Water Meter kiosk cellular connectivity for data logging/alarms at first site
- Initiated reservoir repair program





Freshly Cleaned  
and Disinfected  
Reservoir ready  
for our  
Fantastically  
Delicious Comox  
Valley Drinking  
Water



# 300 Comox Valley Water Supply 2025 Work Plan

- East Courtenay Control System Upgrades
  - Instrumentation, VFDs, PLC
- East Courtenay Steel Reservoir Painting
- Cellular communications package for up to five Bulk Meter kiosks
- Ryan Rd Bulk Meter replacement
- Comox Reservoir repairs
- Greaves Crescent watermain connection

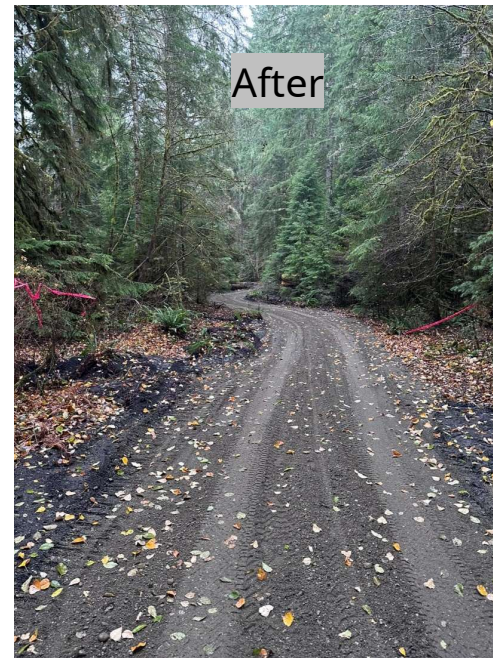


# 301 Watershed Protection Plan 2024 Accomplishments

- Completed the draft conservation plan for lands at Comox Lake & Perseverance Creek
- Initiated access management project for Coal Beach
- Continued work with VIU/UNBC on snow surveys and water availability modeling
- CBW curriculum into high schools: approximately 890 students directly engaged through field trips and school visits; 1700 through indirect/teacher-led use of CBW curriculum
- Additional community engagement through events and presentations
- Implementation of water dashboard for monitoring drought conditions
- Initiated Proper functioning condition assessment of Black Lake in Comox Lake Watershed



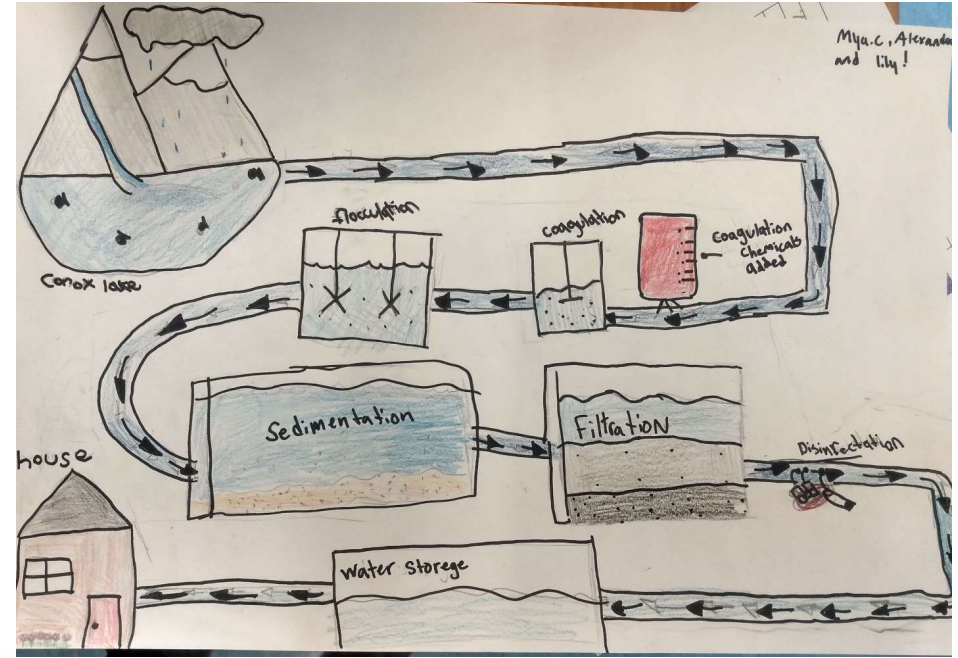
# Emergency access at Coal Beach







# Over 2,500 students engaged with Connected by Water in 2024





# Black Lake: In Comox Lake Watershed between Bevan Industrial Lands and Comox Lake.



Proper functioning condition assessment carried out in 2024 to better understand the value and risks associated with this natural asset and provide recommendations for protection.



Ongoing water quality monitoring & deployment of 2<sup>nd</sup> thermistor





# 301 Watershed Protection Plan 2025 Work Plan Highlights

- Update water efficiency plan
- Implement stewardship program at Coal Beach and Comox Lake
- Begin restoration planning/implementation at Coal Beach
- Update water conservation rebate program
- Continue Connected by Water community education programs
- Co-hosting *Watersheds, Wildfire, and Changing Forest Landscapes* practitioners workshop
- Deployment of second thermistor in Comox Lake
- Comox Lake emergency response plan
- Continued partnership with VIU to continue climate change and water availability data collection and research



## 302 Water Treatment Plant 2024 Accomplishments

- Internally designed and constructed a filter aid polymer system
- Initiated CityWorks for asset capture and preventative maintenance planning
- Cleaned the solids out of the Process Overflow Pond and constructed an improved access for future cleaning
- Received two of our remaining art installations
  - Carved, cedar boardroom doors
  - Education and interpretive model installation



**A Healthy Watershed Means Health**

High quality drinking water is produced by a watershed. To ensure the water reaching our tap is safe and good to not only treat the water, but also protect it.

In order to do that, we map, and you'll notice where the Corvus Water monitoring and water important information areas we know about protect it in the face of





# 302 Water Treatment Plant 2025 Work Plan

- Backwash Aid Polymer optimization upgrade
- Railings around second level roof
- Ladders into Flocculation Tanks
- Complete the CityWorks asset inventory and O&M scheduling
- Electric car chargers in front parking lot including fast charger for on-call vehicle





## Sub-functions 303 & 304

- 303 captures all shared water distribution costs
- 304 captures all shared water treatment costs
- Triggered by completion of new ops center & WTP
- Facilitates planning & allocation of costs between CVRD managed water services
- Allocated using three year rolling average of actual time spent between water services





# Trends, Challenges & Opportunities

- Long lead times on supplies is now the norm and utilities are adjusting
- Primary challenge is cost of goods and services
- We have a skilled and innovative team that is constantly striving to develop things internally





# Strategic Priorities & Initiatives

Type	Initiative	Comment
Board	Complete Water South Extension	Tripartite agreement under development with partner review and approvals expected in spring 2025
Board	Continue Water Master Planning	Working with municipal planning and engineering staff to incorporate implications of new provincial multi-family legislation. Draft plan expected back to Water Committee in fall 2025.



## Human Resources

	2025	2026
Opening FTE Balance	15.73	16.17
Addition Request		
Full time	0.33	1.00
Part Time		
Temporary /Casual		
Adjustments	-0.05	
Total Change	0.28	1.00
Ending FTE Balance	16.17	17.17

- Shift of a part time operator to full time in 2025
- One third funding for new Health and Safety Coordinator in 2025
- Reallocation of manager salary between CVRD water services
- New internal archeologist in 2026 but shared between all water services and Parks



# Expenses

## Year over Year Change

## Key Notes

- DCC cost study [+30K], Climate change and water avail. study [+40K]
- Repairs and Mtce [+20K] and landscaping costs [+13.1K] increases
- Transfer to PMO [-14.3K]
- Transfer to IT Fibre Project [-100K]

Expense Category	2024 Approved Budget	2025 Proposed Budget	Increase (Decrease)	
			(\$)	(%)
Support Services	\$986,907	\$1,174,786	\$187,879	19.0%
Personnel Costs	1,974,644	2,274,310	299,666	15.2%
Materials, Supplies, Utilities	1,215,002	1,224,140	9,138	0.8%
Contract & General Services	1,420,869	1,542,772	121,903	8.6%
Debt Charges	2,534,656	2,340,645	(194,011)	(7.7%)
Transfer to Reserves	2,369,305	312,716	(2,056,589)	(86.8%)
Transfer to Other Services	136,174	18,388	(117,786)	(86.5%)
Transfer to Other Governments	-	20,000	20,000	100.0%
Minor Capital	165,000	146,000	(19,000)	(11.5%)
<b>Total Expenses</b>	<b>\$10,802,557</b>	<b>\$9,053,756</b>	<b>(\$1,748,801)</b>	<b>(16.2%)</b>



# Revenue

## Year over Year Change

## Key Notes

- Telus revenue for cell infrastructure at reservoir sites [-60K]

	2024 Approved Budget	2025 Proposed Budget	Increase (Decrease)	
			(\$)	(%)
Sale of Services	\$8,722,292	\$8,908,539	\$186,247	2.1%
Other Revenue	110,000	55,000	(55,000)	(50.0%)
Recoveries from Other Functions	49,967	50,217	250	0.5%
Transfers From Reserve	100,000	40,000	(60,000)	(60.0%)
Prior Year Surplus	1,820,298	-	(1,820,298)	(100.0%)
<b>Total Revenue</b>	<b>\$10,802,557</b>	<b>\$9,053,756</b>	<b>(\$1,748,801)</b>	<b>(16.2%)</b>



## Funding Sources

Year	2024-2028 Financial Plan		2025-2029 Proposed Financial Plan	
	Bulk Water Rate (\$/m3)	Revenue	Bulk Water Rate (\$/m3)	Revenue
2024	\$1.00	\$8.7M	-	-
2025	\$1.00	\$8.8M	\$1.00	\$8.9M
2026	\$1.00	\$8.9M	\$1.00	\$8.9M
2027	\$1.00	\$9.0M	\$1.00	\$9.1M
2028	\$1.00	\$9.1M	\$1.00	\$9.3M
2029	-	-	\$1.00	\$9.4M



# Operating Budget: 2026-2029 Projections

Category	2026	2027	2028	2029
Water Sales	\$8,908,539	\$9,089,382	\$9,274,123	\$9,425,782
Other Revenue	55,000	55,000	55,000	55,000
Transfers from Reserve	40,000	40,000	40,000	-
Recoveries from Other Functions	50,468	481,251	481,454	481,658
<b>Total Revenue</b>	<b>\$9,054,007</b>	<b>\$9,665,633</b>	<b>\$9,850,577</b>	<b>\$9,962,440</b>
Support Services	\$1,174,786	\$1,174,786	\$1,174,786	\$1,174,786
Personnel Costs	2,367,015	2,449,397	2,534,998	2,623,959
Materials, Supplies, Utilities	1,227,589	1,258,712	1,290,621	1,322,038
Contract & General Service	1,257,267	1,281,124	1,305,610	1,290,737
Debt Charges	2,123,832	1,740,543	1,740,543	1,740,543
Transfer to Reserve	810,982	1,667,974	1,712,538	1,721,116
Transfer to Other Services	18,210	17,414	14,406	10,759
Minor Capital	74,326	75,683	77,075	78,502
<b>Total Expenses</b>	<b>\$9,054,007</b>	<b>\$9,665,633</b>	<b>\$9,850,577</b>	<b>\$9,962,440</b>





## 2025-2029 Debt by MFA Issue

	2025	2026	2027	2028	2029
MFA Issue 95 (Expires 2025)	\$99,549	--	--	--	
MFA Issue 99 (Expires 2026)	317,494	158,747	--	--	
MFA Issue 156 (Expires 2041)	16,678,616	15,875,775	\$15,072,093	\$14,270,093	\$13,467,252
1MFA Issue 160 (Expires 2043)	4,647,188	4,473,986	4,300,784	4,127,582	3,954,380
<b>Total</b>	<b>\$21,742,847</b>	<b>\$20,508,508</b>	<b>\$19,372,877</b>	<b>\$18,397,675</b>	<b>\$17,421,632</b>



## 2025-2029 Debt Servicing

	2025	2026	2027	2028	2029
Long Term Debt – Principal	\$1,234,339	\$1,134,790	\$976,043	\$976,043	\$976,043
Long Term Debt – Interest	1,106,306	989,042	764,500	764,500	764,500
<b>Total</b>	<b>\$2,340,645</b>	<b>\$2,123,832</b>	<b>\$1,740,543</b>	<b>\$1,740,543</b>	<b>\$1,740,543</b>
Operating Costs	6,400,395	6,119,193	6,257,116	6,397,496	6,500,781
<b>Debt as % of Operating Costs</b>	<b>36.6%</b>	<b>34.7%</b>	<b>27.8%</b>	<b>27.2%</b>	<b>26.8%</b>

# 300 Comox Valley Water Supply

2025-2034 Capital Planning





# Asset Management Update

- Asset inventory/replacement schedule
- Support corporate AM program development
- Risk/criticality assessment
- Integration to GIS
- Continue implement of CMMS
- Select and start implementation of DSS software
- Development of condition assessment program





# 2025-2029 Capital Plan

	2025	2026	2027	2028	2029
1023 - Annual Capital Equipment	\$154,500	\$20,000	\$20,000	\$20,000	\$20,000
1033 - Vehicle Purchase	260,000	160,000	160,000	-	295,000
1063 - Annual Capital Projects	595,000	60,000	510,000	60,000	60,000
1141 - Water South Extension	1,200,000	11,792,177	6,289,523	-	-
<b>Total</b>	<b>\$2,209,500</b>	<b>\$12,032,177</b>	<b>\$6,979,523</b>	<b>\$80,000</b>	<b>\$375,000</b>



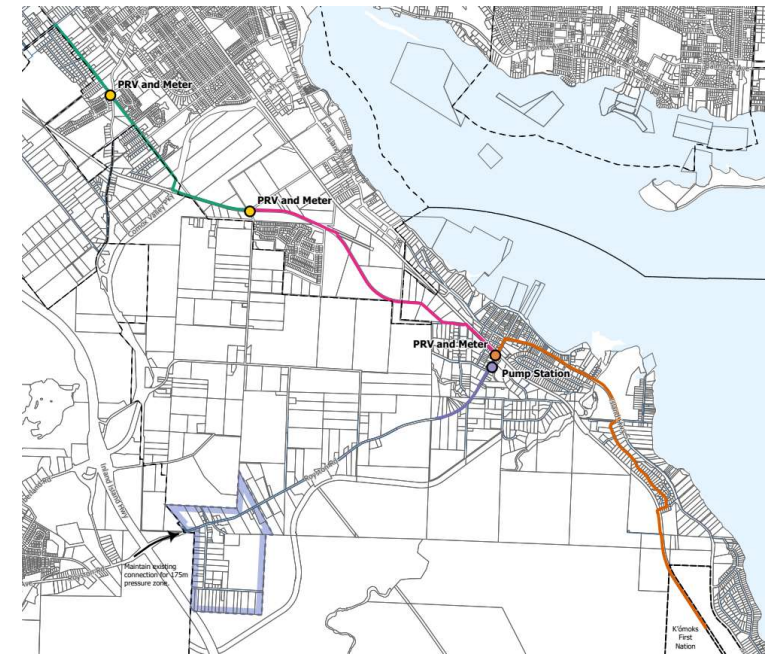
# 2030-2034 Long Term Capital Plan

	2030	2031	2032	2033	2034
1023 - Annual Capital Equipment	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
1033 - Vehicle Purchase	-	-	-	-	120,000
1063 - Annual Capital Projects	60,000	60,000	60,000	60,000	60,000
1141 - Water South Extension	-	-	-	-	-
<b>Total</b>	<b>\$80,000</b>	<b>\$80,000</b>	<b>\$80,000</b>	<b>\$80,000</b>	<b>\$200,000</b>



# Water South Extension Project

Description	Current Cost Estimate
Construction Costs	\$11.7M
Escalation to Midpoint of Construction	2.7M
Engineering Costs	1.7M
L&/Legal/Other	1.1M
Contingency	3.5M
<b>Total Project Costs</b>	<b>\$20.7M</b>
Grant Funding (ICIP – Green Infra. EQ program)	\$7.4M
<b>Total Cost After Grant</b>	<b>\$13.3M</b>
K'ómoks Apportionment	\$7.8M
Royston Apportionment	\$2.0M
City of Courtenay Apportionment	\$3.5M





# Reserves

## Projected Balances

Reserve	2024 Ending Balance
300 – Future Expenditure Reserve	\$701,649
838 – Capital Works Reserve	6,872,938
894 – DCC Reserve	4,908,186
<b>Total</b>	<b>\$12,482,773</b>





## Future Expenditure Reserve (300)

	2025	2026	2027	2028	2029
Opening Balance	\$701,649	\$701,649	\$730,964	\$808,988	\$888,988
Add: Contributions to Reserve	40,000	69,315	118,024	120,000	120,000
Less: Transfers from Reserve	40,000	40,000	40,000	40,000	40,000
Ending Balance	\$701,649	\$730,964	\$808,988	\$888,988	\$1,008,988



## Capital Works Reserve (838)

	2025	2026	2027	2028	2029
Opening Balance	\$6,872,938	\$6,116,154	\$6,597,821	\$7,007,240	\$8,069,247
Add: Contributions to Reserve	252,716	721,667	1,099,419	1,142,007	1,150,585
Less: Transfers from Reserve	1,009,500	240,000	690,000	80,000	375,000
Ending Balance	\$6,116,154	\$6,597,821	\$7,007,240	\$8,069,247	\$8,844,832








## DCC Reserve (894)

	2025	2026	2027	2028	2029
Opening Balance	\$4,908,186	\$4,908,186	\$4,908,186	\$5,338,717	\$5,769,248
Add: Contributions to Reserve*	-	-	430,531	430,531	430,531
Less: Transfers from Reserve	-	-	-	-	-
Ending Balance	\$4,908,186	\$4,908,186	\$5,338,717	\$5,769,248	\$6,199,799

\* Reserve contributions for DCC reserve are included using average annual contributions received



# Summary

<b>Fiscal Responsibility</b> 	<b>Climate Crisis &amp; Environmental Stewardship &amp; Protection</b> 	<b>Community Partnerships</b> 	<b>Indigenous Relations</b> 	<b>Accessibility, Diversity, Equity &amp; Inclusion</b> 
<p>Bulk water rate review planned for 2025 to ensure funding available for future infrastructure liabilities</p>	<p>Implementation of WPP to increase resiliency of the Comox Lake Watershed</p> <p>Courtenay &amp; Comox commercial &amp; some residential properties metered</p> <p>CEEP implementation</p>	<p>WPP guided by multi-stakeholder Watershed Advisory Group</p> <p>Service is a partnership between Courtenay, Comox &amp; Electoral Areas</p>	<p>MBA signed in 2018</p> <p>Working together for servicing K'ómoks development lands through the Water South Extension Project</p>	<p>Consideration for extending regional water services to the south</p> <p>Assess other requests to extend water services</p>



# Options & Recommendations



- That the proposed 2025-2029 financial plan for the Service 300 Comox Valley Water Supply Service be approved.



Questions?