



Notice of Meeting and Meeting Agenda Beddis Water Service Commission

Tuesday, June 10, 2025

1:00 PM

SIMS Boardroom
124 Rainbow Road
Salt Spring Island BC

Annual General Meeting

MS Teams Link: [Click here](#)

C. Cheeseman , G. Holman, M. McCormick , C. Smid,

The Capital Regional District strives to be a place where inclusion is paramount and all people are treated with dignity. We pledge to make our meetings a place where all feel welcome and respected.

Purpose of the Annual General Meeting

The agenda for the Annual General Meeting (AGM) is approved by the members of the Commission. The purposes (and hence the agenda items) of the meeting are:

- To have the last year's AGM minutes approved (by Commission members), and to present reports on the work of the Commission on the past year's operation, maintenance, capital upgrades and financial information of the service to the service residents and owners,*
- To nominate members for appointment to the Commission, and*
- To enable the public to share comments on subjects which relate to the work of the Commission. The Commission can identify (under "new business") issues on which it wants feedback at the meeting. Motions raised by the public at the AGM will be considered by the commission at a subsequent regular meeting.*

The Annual General Meeting is for the 2024 fiscal year

1. Territorial Acknowledgement

2. Election of Chair

3. Approval of Agenda

4. Adoption of Minutes

4.1. [25-0716](#) Minutes of November 7, 2024 Beddis Water Commission

Recommendation: That the minutes of the November 7, 2024 meetings be adopted as circulated.

Attachments: [Minutes: November 7, 2025](#)

5. Director and Chair's Report**6. Report****6.1. [25-0597](#) Beddis Water Service Annual Report 2024**

Recommendation: There is no recommendation. This report is for information only.

Attachments: [Beddis Annual Report 2024](#)
 [Appendix A: 2024 Statement of Operations and Reserve Balances](#)

7. Election of Commissioner

3 Positions

8. New Business

None

9. Outstanding Business**9.1. [25-0717](#) Roberts Lake Water Licensing**

Recommendation: There is no recommendation, this report is for information only

Attachments: [Staff Report: Roberts Lake Water Licensing](#)

9.2. [25-0721](#) Blackburn road Transfer Station

Recommendation: Verbal Discussion

10. Adjournment**Next Meeting:**

-TBA

Meeting Minutes - Draft

Beddis Water Service Commission

Thursday, November 7, 2024

1:00 PM

SIMS Boardroom
124 Rainbow Road
Salt Spring Island BC

Annual General Meeting

PRESENT:

COMMISSION MEMBERS: C. Cheeseman , G. Holman, M. McCormick , C. Smid,

STAFF: D. Ovington, Senior Manager, SSI Administration, V. Somosan, Senior Manager, Financial Services/ Deputy CFO, J. Bilodeau, Manager, Local Services Water and Wastewater Ops., D. Olafson, Manager SSI Engineering, D. Robson, Manager Saanich Peninsula Gulf Island Ops, L. Xu, Manager, Finance Services, K. Vincent, Senior Financial Advisor, Finance Services (EP), A. Elliyon Financial Analyst, Finance Services (EP), and M. Williamson, Committee Clerk, (Recorder)

Electronic Participation- (EP)

These minutes follow the order of the agenda although the sequence may have varied.

The meeting was called to order at 01:04 pm.

1. Territorial Acknowledgement

D. Ovington provided a Territorial Acknowledgement.

2. Approval of Agenda

**MOVED By Commissioner McCormick, SECONDED by Commissioner Smid,
That agenda for the November 07, 2024, Annual General Meeting of the Beddis
Water Services Commission be approved as presented.
CARRIED**

3. Adoption of Minutes

3.1. Minutes of June 06, 2023 and June 26, 2024 Beddis Water Service Commission

**MOVED By Commissioner Smid, SECONDED by Director Holman,
That the minutes of the following meetings be adopted as presented:
-June 05, 2023 Annual General Meeting (AGM)
-June 26, 2024 Special Meeting
CARRIED**

4. Director and Chair's Report

Commissioner Cheeseman Spoke regarding:

- PFAS UBC Study
- DAF residuals at Cusheon Lake Treatment Plant Design presentations
- Island Trust meeting regarding Cusheon Creek Watershed protection.
- Donation of Property to Royal Rhodes University
- Meeting with Financial staff regarding tax implications of donation of property
- British Columbia Community Stewardship Award

Director Holman nothing to report.

5. Report

5.1. Beddis Water Service Annual Report 2023

D. Ovington presented the report.

This report was received for information.

- Manganese level in treated water elevated
- Water production decreased on a five year average

6. Election of Commissioner

Request for volunteers was advertised as per the requirements and staff confirmed no new nominations were received.

Commissioners McCormick have emailed his intent to serve on the commission for the January 1, 2025 to December 31, 2026 term.

7. New Business

7.1. Roberts Lake

Discussion regarding Roberts lake water license request.

**MOVED By Director Holman, SECONDED by Commissioner McCormick,
That the Beddis Water Service Commission request staff report back regarding
the process, status, and the apparent lack of consultation of affected stakeholders
regarding water licensing of Roberts Lake.
CARRIED**

7.2. Transfer Station

Discussion regarding the transfer station on Blackburn Road impacts on the watershed.

**MOVED By Commissioner McCormick, SECONDED by Commissioner Smid,
That the Beddis Water Service Commission request staff contact the Island Trust
and report back to ensure that the current operation and collection of used oil at
the transfer station on Blackburn Road is consistent with the Land Use Planning
Bylaw.**

CARRIED

7.3. Salty Dog Business

Discussion regarding the Salty Dog business operation and effects Cusheon Creek Watershed.

8. Outstanding Business

There was no outstanding business.

9. Adjournment

**MOVED By Commissioner Smid, SECONDED by Commissioner McCormick,
That the Beddis Water Service Commission adjourn the meeting at 2:13pm.**
CARRIED

CHAIR

SENIOR MANAGER

Beddis Water Service

2024 Annual Report



INTRODUCTION

This report provides a summary of the Beddis Water Service for 2024. It includes a description of the service, summary of the water supply, demand, and production, drinking water quality, operations highlights, capital project updates and financial report.

SERVICE DESCRIPTION

The Beddis Water Utility is a rural residential community located on Salt Spring Island. The service was created in 1969 as the Beddis Waterworks District and became a CRD service in 2004. The Beddis Water Utility (Figure 1) is comprised of 137 parcels of land of which 128 are presently connected to the system.

The utility obtains its drinking water from Cusheon Lake, a relatively small lake that lies within an uncontrolled multi-use watershed. The Capital Regional District (CRD) holds two licenses to divert a total of up to 102,850 m³ per year. Cusheon Lake is subject to seasonal water quality changes and is affected by periodic algae blooms.

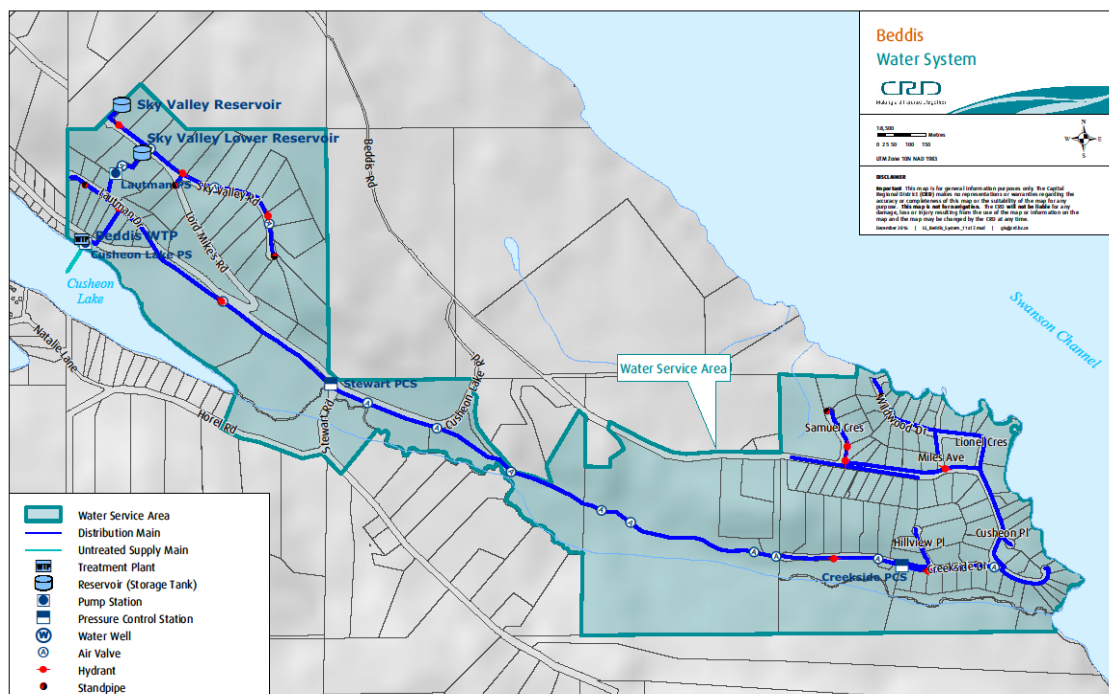


Figure 1: Beddis Water Service

The Beddis water system is primarily comprised of:

- water treatment plant (WTP) that draws water from Cusheon Lake and treats it at a location on Cusheon Road approximately 250m west of Lautman Drive. The water is treated using a rapid mix system, flocculation, dissolved air floatation (DAF) and filters, then chlorination prior to being pumped, via the distribution system to reservoirs. The water treatment plant (WTP) design flow is rate is 16.35 m³/hour (60 l/gpm)
- approximately 7,200 m of water distribution pipe
- 1 pump station/re-chlorination station
- 2 water reservoirs – one 45 m³ (10,000 lgal) and one 76 m³ (16,700 lgal)
- fire hydrants, standpipes, and gate valves
- water service connections complete with water meters
- 2 pressure regulating stations (PCS) Stewart Road and Creekside Drive

WATER PRODUCTION AND DEMAND

Referring to Figure 2, 19,855 cubic meters (m³) of water was extracted (water production) from Cusheon Lake in 2024; a 4% decrease from the previous year and is 21% decrease from the five-year rolling average. Water demand (customer water billing) for the service totalled 15,845 m³ of water; an 12% decrease from the previous year and a 17% decrease from the five-year rolling average. Both production and demand were historic lows for the service area.

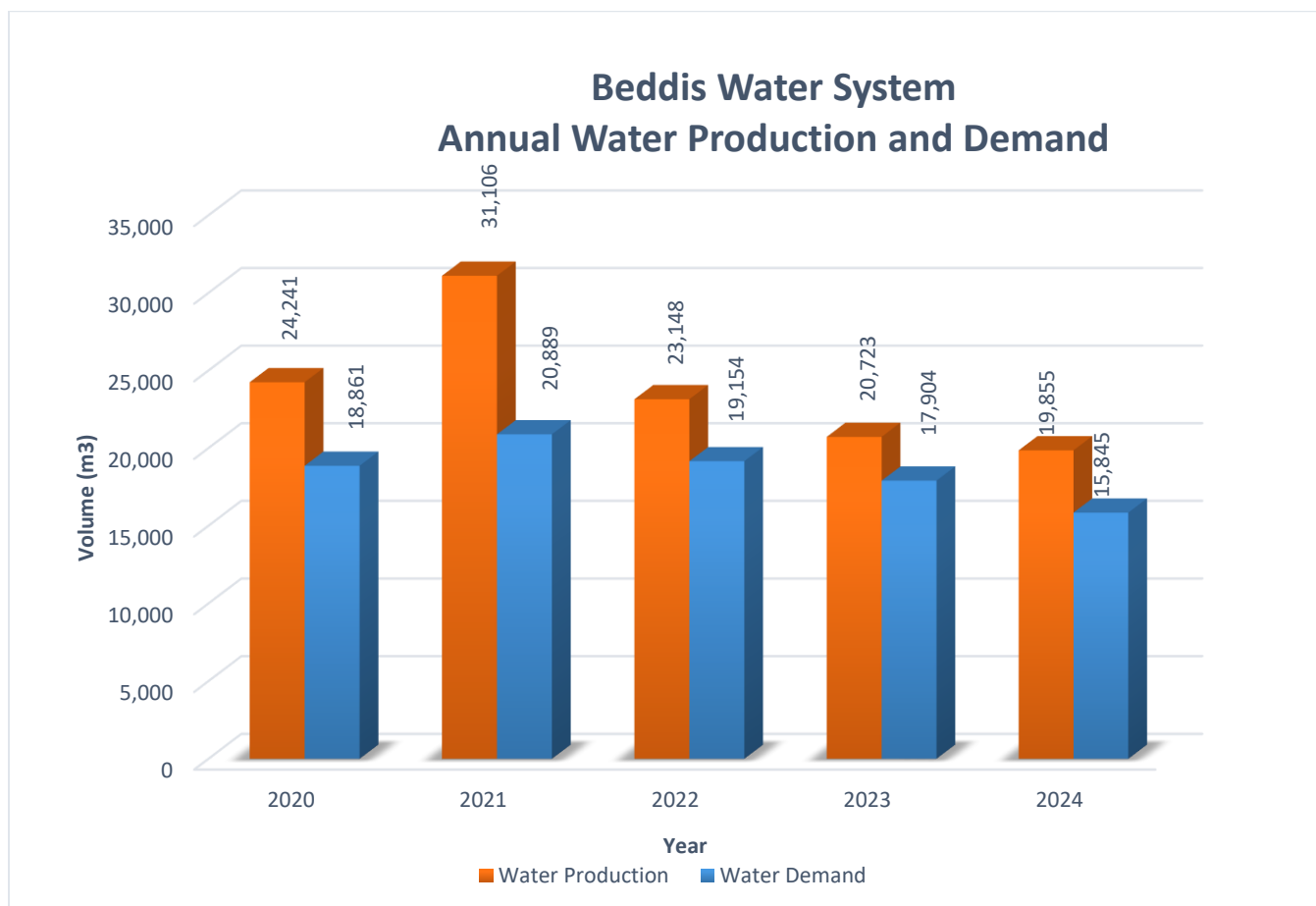


Figure 2: Beddis Water Service Annual Water Production and Demand

Water production by month for the past five years is shown in Figure 3. The monthly water production trends are typical for small water systems such as the Beddis water service.

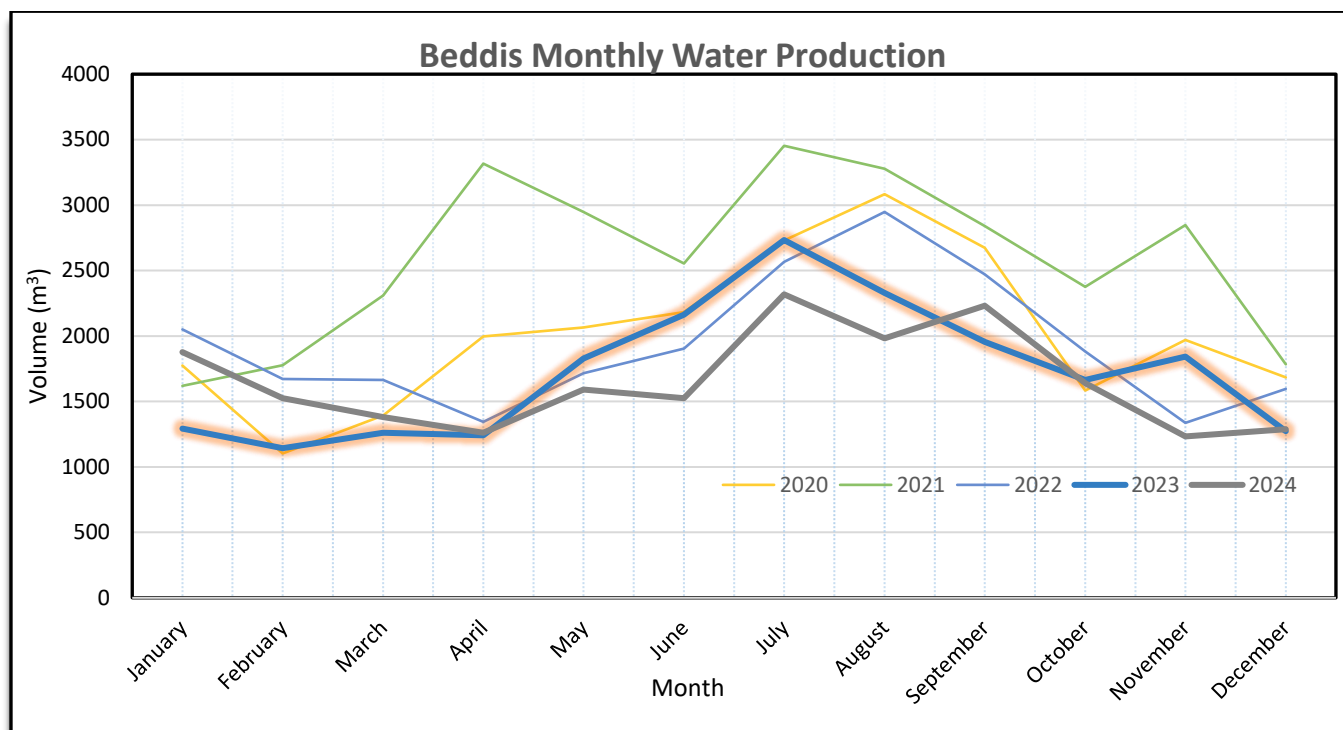


Figure 3: Beddis Water Service Monthly Water Production

The Beddis Water System is fully metered, and water meters are read quarterly. Water meter information enables water production and consumption to be compared in order to estimate leakage losses in the distribution system. The difference between water produced and water demand (total metered consumption) is called non-revenue water and includes distribution leaks, meter error, and unmetered uses such as fire hydrant usage, distribution system maintenance, and process water for the treatment plant. Non-revenue water is approximately 20%. Water loss is estimated to be approximately 14% which is considered acceptable for small water systems.

WATER QUALITY

In 2024, the analytical results of water samples collected from the Beddis Water System indicated that the drinking water was of good quality. The source water from Cusheon Lake was of good quality throughout the year with low concentrations of algae, most metals and generally low turbidity. Indicator bacteria concentrations (total coliforms) in the raw water were very low between November and May and higher during the warm weather season. Manganese and iron concentrations were elevated in Cusheon Lake throughout all seasons but summer. Due to a lack of specific metal removal treatment, the aesthetic objective for manganese in the Guidelines for Canadian Drinking Water Quality (GCDWQ) was exceeded in the treated water during the quarterly sampling events in November and February and was likely exceeded to the entire period between these sampling events. Manganese concentrations in exceedance of the aesthetic objectives can lead to water discolouration and become a nuisance for customers. The maximum acceptable concentration (MAC) in the GCDWQ for manganese was never reached. Besides this, the DAF treatment system functioned very well under these source water conditions. The annual average of the disinfection by-product concentrations was below the limit in the GCDWQ in both sampled locations. However, a few individual results in 2024 came very close to or even slightly exceeded the MAC for the disinfection by-product trihalomethanes (THM) indicating the potential for exceedances if

source water conditions are not ideal and chlorine dosage is not carefully managed. Other than water temperature during the summer months, there have been no exceedances of any monitored water quality parameter in the system.

The data below provides a summary of the water quality characteristics in 2024:

Raw Water:

- The raw water exhibited typically low concentrations of total coliform and *E. coli* bacteria throughout the year with significantly higher concentrations during the summer months. These higher bacteria concentrations during summer are easily addressed by the water treatment process.
- No *Giardia* cysts or *Cryptosporidium* oocysts were detected in 2024.
- The raw water samples indicated fluctuating and elevated concentrations of iron and manganese. Iron and manganese concentrations were typically above the aesthetic objectives during all seasons but summer.
- The raw water was soft (median hardness 37.2 mg/L CaCO₃).
- The raw water turbidity (cloudiness) was often below 1 NTU with some higher peaks in the winter. Highest recorded raw water turbidity was 4.0 NTU on January 18, 2024. Higher turbidity levels during the fall is typical for this water source.
- The median annual total organic carbon, an indicator of organic compounds and material in the lake water, was a moderate 4.95 mg/L. This demonstrates a slightly upward trend in recent years potentially indicating increasing algal activity in Cusheon Lake.
- Cusheon Lake raw water had a high colour rating all year in 2024, which is typical.
- CRD staff tested raw water entering the treatment plant for per- and polyfluoroalkyl substances (PFAS) in the fall of 2024. The result was non-detect with a detection limit of 4 ng/L or less.

Treated Water:

- The treated water was bacteriologically safe to drink. No sample tested positive for *E. coli* or total coliform bacteria.
- The treated water turbidity was always well below the turbidity limit of 1.0 NTU with an annual median of <0.15 NTU. This indicates the high efficacy of the existing water treatment process and overall good drinking water quality.
- The annual average levels of the disinfection by-products trihalomethanes (TTHM = 67.3 µg/L) across the distribution system were below the MAC limits in the GCDWQ (100 µg/L). Individual results however were close or even above the MAC during May and June. Haloacetic acids (HAA) were not tested in 2024; historic data has shown that HAA concentrations are typically low when TTHM concentrations are low.
- The treated water total organic carbon (TOC) was in line with historical trends, with a median value of 2.2 mg/L. There is currently no guideline in the GCDWQ for TOC levels, however the USEPA suggests a treated water TOC concentration of < 2 mg/L as confirmation of effective treatment and disinfection by-product control.
- All treated water sampled were low in iron concentrations. Manganese concentrations exceeded the aesthetic limit as per GCDWQ in November and February at the water treatment plant. It is likely that this exceedance extended throughout this entire winter period. The manganese health limit MAC was never reached. Cusheon Lake is known for the potential of seasonally high iron and manganese concentrations. Such exceedances can lead to water discolouration.
- The aesthetic limit for water temperature (15°C) was exceeded from May until October. This is a

common occurrence in this water system during the summer months.

Table 1 and 2 below provide a summary of the 2024 raw and treated water test results.

Water Quality data collected from this drinking water system can be reviewed on the CRD website:

<https://www.crd.bc.ca/about/data/drinking-water-quality-reports>

OPERATIONAL HIGHLIGHTS

The following is a summary of the major operational issues that were addressed during the 2024 operating period:

- Water System leak repairs:
 - 131 Lionel Creek service line repair
 - 211 Creekside Drive service line repair
 - 1475/1483 Beddis Rd service line repair
- Water Treatment Plant corrective maintenance:
 - Replaced failed backwash and rinse to waste valve actuators
 - Uninterrupted power supply (UPS) maintenance and replacement
 - Replaced failed booster pump variable frequency drive (VFD) capacitors
 - Troubleshoot and repair flow sensors
 - Saturator pump repair

CAPITAL IMPROVEMENTS

The following is a summary of the major capital improvements, including year-ending spending for 2024:

Water Intake Assessment/Design (CE.676.7501): The intake pumps have been drawing in air/gas, resulting in reduced flow and even air-locking of the pump(s). This project will be complete in Q2 2025.

Project	Spending
Budget	\$302,725
Project Management	(\$44,820)
Design (Engineering, Drafting, etc.)	(\$72,792)
Construction	(\$71,842)
Balance Remaining	\$113,271

Safe Work Procedures (CE.699.4503): The work includes reviewing and developing safe work procedures for operational and maintenance tasks, and ongoing capital improvements.

Project	Spending
Budget	\$12,000
Project Management	(\$605)
Contract	(\$2,478)
Supplies/Materials	(\$209)
Balance Remaining	\$8,708

Back-up Power Design (CE.735.4502): Complete electrical designs for new onsite backup power. This project was included in Project 26-02 so this project was closed at the end of 2024 and funds were returned back to the source.

Project	Spending
Budget	\$10,000
Project Management	(\$0)
Balance Remaining	\$10,000

Sky Valley New Booster Pump & Reservoir (CE.831.5101): The work includes designs for a new booster pump and reservoir as the Sky Valley Upper Reservoir is reaching the end of its useful life. A new reservoir will be built next to the existing Sky Valley Lower Reservoir as well as a booster pump to service the Upper Sky Valley pressure zone.

Project	Spending
Budget	\$33,000
Project Management	(\$2,361)
Contract	(\$0)
Supplies/Materials	(\$0)
Balance Remaining	\$30,639

Beddis WTP Lifting Apparatus (CE.836.2001): Support for a lifting apparatus is required at ceiling level to lift the 80lb lid for the saturator and for a confined space entry apparatus over the DAF system. This project will be completed in Q1 of 2025.

Project	Spending
Budget	\$55,000
Project Management	(\$7,040)
Design	(\$9,528)
Construction	(\$7,008)
Balance Remaining	\$31,424

Beddis PRV Strainers (CE.836.2002): Install inline strainer Stewart Road PRS and Creekside Road PRS. Strainers provide a measure of filtration to minimize maintenance and assurance of supply of water. Operations has determined that this project is no longer required so it will be closed out in 2025.

Project	Spending
Budget	\$11,000
Project Management	(\$1,864)
Contract	(\$0)
Supplies/Materials	(\$0)
Balance Remaining	\$9,136

Replacement of Variable Frequency Drives (CE.836.2003): The VFDs require replacement. This project results in new capacitors for the VFDs for the two booster pumps. New capacitors will extend the life of the VFDs several more years. This project was closed at the end of 2024 and surplus funds returned to source.

Project	Spending
Budget	\$9,000
Project Management	(\$3,172)
Supplies/Materials	(\$4,023)
Balance Remaining	\$1,805

Referendum for Borrowing (CE.836.4601): Referendum for borrowing for debt funded projects.

Project	Spending
Budget	\$20,000
Project Management	(\$27)
Balance Remaining	\$19,973

Public Engagement for Debt Funded Projects (CE.836.4602): Public engagement for projects requiring debt funding.

Project	Spending
Budget	\$10,000
Project Management	(\$54)
Balance Remaining	\$9,946

2024 FINANCIAL REPORT

Please refer to the attached 2024 Statement of Operations and Reserve Balances.

Revenue includes parcel taxes (Transfers from Government), fixed user fees (User Charges), water sales (Sale-Water), interest on savings (Interest earnings), transfers from the Operating Reserve Fund, and miscellaneous revenue such as late payment charges (Other revenue).

Expenses include all costs of providing the service. General Government Services include budget preparation, financial management, utility billing and risk management services. CRD Labour and Operating Costs include CRD staff time as well as the costs of equipment, tools, and vehicles. Debt servicing costs are interest and principal payments on long-term debt. Other Expenses include all other costs to administer and operate the water system, including insurance, water testing, and electricity.

The difference between Revenue and Expenses is reported as Net revenue (expenses). Any transfers to or from capital or reserve funds for the service (Transfers to own funds) are deducted from this amount, and it is then added to any surplus or deficit carried forward from the prior year, yielding an Accumulated Surplus (or deficit). In alignment with Local Government Act Section 374 (11), any deficit must be carried forward and included in the next year's financial plan.

WATER SYSTEM PROBLEMS - WHO TO CALL:

To report any event or to leave a message regarding the Beddis Water System, call either:

CRD water system emergency call centre: **1-855-822-4426 (toll free)**

1-250-474-9630 (toll)

CRD water system general enquiries (toll free): **1-800-663-4425**

When phoning with respect to an emergency, please specify to the operator, the service area in which the emergency has occurred.

Submitted by:	Jason Dales, Senior Manager B.Sc, WD IV, Infrastructure Operations
	Glenn Harris, Ph.D., R.P.Bio., Senior Manager, Environmental Protection
	Dan Ovington, BBA , Senior Manager, Salt Spring Island Electoral Area
	Varinia Somosan, CPA, CGA, Sr. Mgr., Financial Services / Deputy CFO

Concurrence:	Ted Robbins, B. Sc., C. Tech., Chief Administrative Officer
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Appendix A : [2024 Statement of Operations and Reserve Balances](#)

For questions related to this Annual Report please email: saltspring@crd.bc.ca

Table 1: 2024 Summary of Raw Water Test Results, Beddis Water System

PARAMETER		2024 ANALYTICAL RESULTS				CANADIAN GUIDELINES	2014 - 2023 ANALYTICAL RESULTS			
Parameter Name	Units of Measure	Annual Median	Samples Analyzed	Range Minimum Maximum		≤ = Less than or equal to	Median	Samples Analyzed	Range Minimum Maximum	
Physical Parameters/Biological										
Colour, True	TCU	20	17	13.9	29	≤ 15 AO	16	147	6	35
Hardness as CaCO ₃	mg/L	37.2	4	35.3	39.7	No Guideline Required	35.7	41	17.9	42
pH	pH Units	7.35	3	6.1	7.1	7.0-10.5 AO	7.2	33	6.1	7.7
Carbon, Total Organic	mg/L	4.95	12	4.4	9		4.34	81	1.5	6.57
Turbidity	NTU	0.65	17	0.35	4		0.865	174	< 0.14	11
Water Temperature	Degrees C	13.75	48	3.9	25.5	≤ 15 AO	14.85	498	3	26.6
Microbial Parameters										
Indicator Bacteria										
Coliform, Total	CFU/100 mL	65	17	4	870		67	171	<1	4600
<i>E. coli</i>	CFU/100 mL	< 1	17	< 1	3		< 1	173	<1	122
Hetero. Plate Count, 7 day	CFU/1 mL	Not tested in 2024					1200	64	170	11900
Parasites										
<i>Cryptosporidium</i> , Total oocysts	oocysts/100 L	<1	2	<1	<1	Zero detection desirable	< 1	24	< 1	2.45
<i>Giardia</i> , Total cysts	cysts/100 L	<1	2	<1	<1	Zero detection desirable	< 1	25	< 1	< 1
Algal Toxins										
Microcystin (Abraxis)	ug/L	Not tested in 2024				1.5 MAC	<1	19	<1	<1
Anatoxin A	ug/L	Last analyzed in 2014					< 0.01	1	< 0.01	< 0.01
Cylindrospermopsin	ug/L	Last analyzed in 2014					< 0.01	1	< 0.01	< 0.01
Microcystin-RR	ug/L	Last analyzed in 2014					< 0.01	1	< 0.01	< 0.01
Microcystin-YR	ug/L	Last analyzed in 2014					< 0.01	1	< 0.01	< 0.01
Microcystin-LR	ug/L	Last analyzed in 2014					< 0.02	1	< 0.02	< 0.02
Total Microcystins	ug/L	Last analyzed in 2016				1.5 MAC	< 0.14	4	< 0.01	0.2
Nodularin	ug/L	Last analyzed in 2014					< 0.01	1	< 0.01	< 0.01
Metals										
Aluminum	ug/L as Al	17.15	4	< 3	72.8	2900 MAC / 100 OG	13.4	41	< 3	267
Antimony	ug/L as Sb	< 0.5	4	< 0.5	< 0.5	6 MAC	< 0.5	41	< 0.5	1.8
Arsenic	ug/L as As	0.295	4	0.24	0.37	10 MAC	0.29	41	< 0.1	0.76
Barium	ug/L as Ba	5.85	4	5	7.6	100 MAC	6.4	41	4.1	13
Beryllium	ug/L as Be	< 0.1	4	< 0.1	< 0.1		< 0.1	41	< 0.1	< 3
Bismuth	ug/L as Bi	< 1	4	< 1	< 1		< 1	39	< 1	< 1
Boron	ug/L as B	< 50	4	< 50	< 50	5000 MAC	< 50	41	< 5	412
Cadmium	ug/L as Cd	< 0.01	4	< 0.01	< 0.01	7 MAC	< 0.01	41	< 0.01	< 0.1
Calcium	mg/L as Ca	10.25	4	9.8	10.9	No Guideline Required	9.84	41	5.34	11.6
Chromium	ug/L as Cr	< 1	4	< 1	< 1	50 MAC	< 1	41	< 1	< 10
Cobalt	ug/L as Co	< 0.2	4	< 0.2	< 0.2		< 0.2	41	< 0.2	< 20
Copper	ug/L as Cu	9.025	4	6.02	11.5	2000 MAC / ≤ 1000 AO	7.11	41	4.21	32.5
Iron	ug/L as Fe	143.5	4	62.5	187	≤ 100 AO	138	41	< 10	389
Lead	ug/L as Pb	0.685	4	0.45	1.09	5 MAC	<0.5	39	0.28	2.76
Lithium	ug/L as Li	< 2	4	< 2	< 2		< 2	28	< 2	< 5
Magnesium	mg/L as Mg	2.835	4	2.64	2.99	No Guideline Required	2.7	41	1.1	3.14
Manganese	ug/L as Mn	36.9	4	13.7	75.5	120 MAC / ≤ 20 AO	35.3	41	10.5	111
Molybdenum	ug/L as Mo	< 1	4	< 1	< 1		< 1	41	< 1	< 20
Nickel	ug/L as Ni	< 1	4	< 1	< 1		< 1	41	< 1	< 50
Potassium	mg/L as K	0.5525	4	0.468	0.591		0.53	41	0.148	0.754
Selenium	ug/L as Se	< 0.1	4	< 0.1	< 0.1	50 MAC	< 0.1	41	< 0.1	< 0.5
Silicon	mg/L as Si	4190	4	3700	4440		3840	41	1710	5880
Silver	ug/L as Ag	< 0.02	4	< 0.02	< 0.02	No Guideline Required	< 0.02	41	< 0.02	< 10
Sodium	mg/L as Na	6.465	4	6.19	7.01	≤ 200 AO	6.085	40	1.71	8.19
Strontium	ug/L as Sr	72.45	4	68.1	82.3	7000 MAC	69	41	18.1	86
Sulfur	mg/L as S	3.05	4	< 3	3.3		< 3	39	< 3	5.7
Tin	ug/L as Sn	< 5	4	< 5	< 5		< 5	41	< 5	< 20
Titanium	ug/L as Ti	< 5	4	< 5	< 5		< 5	41	< 5	10.5
Thallium	ug/L as Tl	< 0.01	4	< 0.01	< 0.01		< 0.01	39	< 0.01	< 0.05
Uranium	ug/L as U	< 0.1	4	< 0.1	< 0.1	20 MAC	< 0.1	39	< 0.1	< 0.1
Vanadium	ug/L as V	< 5	4	< 5	< 5		< 5	41	< 5	< 10
Zinc	ug/L as Zn	8.5	4	6.6	10.9	≤ 5000 AO	9	41	< 5	200
Zirconium	ug/L as Zr	< 0.1	4	< 0.1	< 0.1		< 0.1	39	< 0.1	< 0.5

Table 2: 2024 Summary of Treated Water Test Results, Beddis Water System										
PARAMETER		2024 ANALYTICAL RESULTS				CANADIAN GUIDELINES	2014 - 2023 ANALYTICAL RESULTS			
Parameter Name	Units of Measure	Annual Median	Samples Analyzed	Range Minimum Maximum		≤ = Less than or equal to	Median	Samples Analyzed	Range Minimum Maximum	
ND means Not Detected by analytical method used										
Physical Parameters										
Carbon, Total Organic Colour, True	mg/L as C TCU	2.2 3	12 51	1.9 < 2	2.8 8	Guideline Archived ≤ 15 AO	2 < 2	102 211	0.27 0.8	5.3 7
Hardness as CaCO ₃ pH	mg/L pH units	38.55 7.01	16 3	35 6.96	51.1 7.07	No Guideline Required 7.0-10.5 AO	37.55 6.8	118 39	<1 6.2	53.1 7.5
Turbidity	NTU	0.15	51	0.05	1.7	1.0 MAC	0.15	262	0.07	3.6
Water Temperature	Degress C	11.5	265	2	24.5	≤ 15 AO	11.5	3547	0.5	26.5
Microbial Parameters										
Indicator Bacteria										
Coliform, Total	CFU/100 mL	< 1	85	< 1	< 1	0 MAC	< 1	704	<1	4
<i>E. coli</i>	CFU/100 mL	< 1	85	< 1	< 1	0 MAC	< 1	703	<1	< 1
Hetero. Plate Count, 7 day	CFU/1 mL	Not tested in 2024					< 10	126	<1	280
Algal Toxins										
Microcystin (Abraxis)	ug/L	Not tested in 2024								
Anatoxin A	ug/L	Last analyzed in 2014					<0.16	1	<0.16	<0.16
Cylindrospermopsin	ug/L	Last analyzed in 2014					< 0.16	1	< 0.16	< 0.16
Microcystin-RR	ug/L	Last analyzed in 2014					< 0.1	1	< 0.1	< 0.1
Microcystin-YR	ug/L	Last analyzed in 2014					< 0.16	1	< 0.16	< 0.16
Microcystin-LR	ug/L	Last analyzed in 2014					< 0.16	1	< 0.16	< 0.16
Total Microcystins	ug/L	Last analyzed in 2015				1.5 MAC	< 0.16	1	< 0.16	< 0.16
Nodularin	ug/L	Last analyzed in 2014					< 0.14	4	< 0.14	< 0.16
Disinfectants										
Disinfectants										
Chlorine, Free Residual	mg/L as Cl2	0.7	265	0.2	2.17	No Guideline Required	0.92	3732	0.04	2.5
Chlorine, Total Residual	mg/L as Cl ₂	Not tested in 2024				No Guideline Required	1.07	3218	0.07	7
Disinfection By-Products										
Trihalomethanes (THMs)										
Bromodichloromethane	ug/L	11	24	8.9	15		11	137	<0.1	20
Bromoform	ug/L	< 1	24	< 1	< 1		< 1	137	< 0.1	< 1
Chloroform	ug/L	50.5	24	38	91		55.5	137	6.91	130
Chlorodibromomethane	ug/L	1.25	24	< 1	2		1.2	137	<0.1	6.88
Total Trihalomethanes	ug/L	60.5	24	50	110	100 MAC	68.1	137	6.91	150
Haloacetic Acids (HAAs)										
HAA5	ug/L	Not tested in 2023				80 MAC	31.59	20	13	81.5
Metals										
Aluminum	ug/L as Al	6.85	16	3.1	11.9	2900 MAC / 100 OG	< 10	119	< 3	346
Antimony	ug/L as Sb	< 0.5	16	< 0.5	< 0.5	6 MAC	< 0.5	118	< 0.5	1.33
Arsenic	ug/L as As	0.22	16	0.13	0.26	10 MAC	0.19	118	<0.1	0.993
Barium	ug/L as Ba	5.7	16	5.1	6.8	100 MAC	5.7	118	4	11
Beryllium	ug/L as Be	< 0.1	16	< 0.1	< 0.1		< 0.1	118	< 0.1	< 3
Bismuth	ug/L as Bi	< 1	16	< 1	< 1		< 1	116	< 1	< 1
Boron	ug/L as B	< 50	16	< 50	< 50	5000 MAC	< 50	118	< 50	505
Cadmium	ug/L as Cd	< 0.01	16	< 0.01	< 0.01	7 MAC	< 0.01	118	< 0.01	0.1
Calcium	mg/L as Ca	11.2	16	9.74	17.7	No Guideline Required	10.75	118	8.06	19.4
Chromium	ug/L as Cr	< 1	16	< 1	< 1	50 MAC	< 1	118	< 1	10
Cobalt	ug/L as Co	< 0.2	16	< 0.2	< 0.2		< 0.2	118	< 0.2	20
Copper	ug/L as Cu	7.44	16	2.41	29.8	2000 MAC / ≤ 1000 AO	9.755	118	0.66	127
Iron	ug/L as Fe	23.5	16	< 5	71	≤ 100 AO	18.4	118	< 5	2650
Lead	ug/L as Pb	0.4	16	< 0.2	1.28	5 MAC	0.29	118	< 0.2	2.9
Lithium	ug/L as Li	< 2	16	< 2	< 2		< 2	68	< 2	< 5
Magnesium	mg/L as Mg	2.61	16	1.33	3.03	No Guideline Required	2.505	118	0.586	3.07
Manganese	ug/L as Mn	5.8	16	1.1	22.4	120 MAC / ≤ 20 AO	7.75	118	< 1	73.9
Molybdenum	ug/L as Mo	< 1	16	< 1	< 1		< 1	118	< 1	< 1
Nickel	ug/L as Ni	< 1	16	< 1	< 1		< 1	118	< 1	<50
Potassium	mg/L as K	0.5345	16	0.489	0.577		0.536	118	< 0.03	0.735
Selenium	ug/L as Se	< 0.1	16	< 0.1	< 0.1	50 MAC	< 0.1	118	< 0.1	< 0.1
Silicon	mg/L as Si	4050	16	3420	4360		3660	117	2180	6070
Silver	ug/L as Ag	< 0.02	16	< 0.02	< 0.02	No Guideline Required	< 0.02	118	< 0.02	< 0.02
Sodium	mg/L as Na	10.205	16	8.32	12.5	≤ 200 AO	8.73	118	7.13	10.9
Strontium	ug/L as Sr	72.65	16	66.9	88.6	7000 MAC	72.8	118	58.3	92.3
Sulfur	mg/L as S	3.05	16	< 3	4.2		< 3	116	< 3	4.2
Tin	ug/L as Sn	< 5	16	< 5	< 5		< 5	118	< 5	< 20
Titanium	ug/L as Ti	< 5	16	< 5	< 5		< 5	118	< 5	< 10
Thallium	ug/L as Tl	< 0.01	16	< 0.01	< 0.01		< 0.01	116	< 0.01	< 0.01
Uranium	ug/L as U	< 0.1	16	< 0.1	< 0.1	20 MAC	< 0.1	116	< 0.1	< 0.1
Vanadium	ug/L as V	< 5	16	< 5	< 5		< 5	118	< 5	< 10
Zinc	ug/L as Zn	5.7	16	< 5	24.5	≤ 5000 AO	7.2	118	< 5	1160
Zirconium	ug/L as Zr	< 0.1	16	< 0.1	< 0.1		< 0.1	116	< 0.1	< 0.5

CAPITAL REGIONAL DISTRICT

BEDDIS WATER

Statement of Operations (Unaudited)
For the Year Ended December 31, 2024

	2024	2023
Revenue		
Transfers from government	85,940	80,318
User Charges	140,930	130,693
Sale - Water	56,040	73,580
Other revenue from own sources:		
Interest earnings	76	92
Transfer from Operating Reserve	-	14,000
MFA Debt Reserve Earning	-	4,820
Other revenue	655	564
Total Revenue	283,641	304,067
Expenses		
General government services	9,556	9,002
Contract for Services	2,960	7,742
CRD Labour and Operating costs	125,598	110,784
Debt Servicing Costs	-	35,408
Supplies	26,444	25,472
Capital Purchases	8,856	21,661
Other expenses	35,044	38,936
Total Expenses	208,458	249,005
Net revenue (expenses)	75,183	55,062
Transfers to own funds:		
Capital Reserve Fund	75,183	55,062
Operating Reserve Fund	-	-
Annual surplus/(deficit)	-	-
Accumulated surplus/(deficit), beginning of year	-	-
Accumulated surplus/(deficit), end of year	\$ -	-

CAPITAL REGIONAL DISTRICT

BEDDIS WATER

Statement of Reserve Balances (Unaudited)

For the Year Ended December 31, 2024

	Capital Reserve	
	2024	2023
Beginning Balance	15,873	4,198
Transfer from Operating Budget	75,183	55,062
Transfers from Completed Capital Projects	10,829	-
Transfer to Capital Project	(54,000)	(43,000)
Interest Income (Expense)	329	(387)
Ending Balance	48,214	15,873

	Operating Reserve	
	2024	2023
Beginning Balance	4,016	17,170
Transfer from Operating Budget	-	-
Transfer to Operating Budget	-	(14,000)
Interest Income	242	846
Ending Balance	4,258	4,016

**REPORT TO BEDDIS WATER SERVICE COMMISSION
MEETING OF TUESDAY, JUNE 10, 2025**

SUBJECT ROBERTS LAKE WATER LICENSING

ISSUE SUMMARY

To report back on water licensing of Roberts Land and consideration of the Commissions interests.

BACKGROUND

On June 5th, 2023, the following motion was carried by the Beddis Water Service Commission:

That the Beddis Water Service Commission request staff contract the Ministry of Forest Land and Natural Resources Operations (FLNRO) regarding water licensing of Roberts Lake and further, to have the Commissions interest considered.

Staff have contacted FLNRO and received the following response:

In review of applications under the Water Sustainability Act (Water License/Use approval/Change Approval) a decision maker must direct an applicant to provide notice in accordance with Section 13(1) and adhere to the requirements as seen below:

Objections to applications and decision maker initiatives

13 (1) *A decision maker must direct that an applicant for a licence, use approval or change approval, or for an amendment to any of them involving a change of works, give notice of the application in accordance with section 117 [delivery and publication of documents and information] or the regulations to*

(a) any of the following whose rights the decision maker considers are likely to be detrimentally affected if the application is granted:

(i)an authorization holder;

(ii)a change approval holder;

(iii)an applicant for an authorization or change approval;

(iv)a riparian owner, and

(b) a land owner whose land is likely to be physically affected if the application is granted.

It's important to note that any application received in the watershed would be reviewed by a decision-maker and they may not require an applicant to provide notice if they are satisfied that the proposed works in the application meet the terms under Section 13 (8) of the WSA.

Regarding issues around Robert's Lake, there are two Natural Resource Violation reports that have been received and are currently under investigation, so I am unable to comment on them.

CONCLUSION

It is FLNRO's position that they may not require an applicant to provide notice if they are satisfied that the proposed works in the application meet the terms of the Water Sustainability Act.

RECOMMENDATION

There is no recommendation, this report is for information only

Submitted by:	Dan Ovington, BBA , Senior Manager, Salt Spring Island Electoral Area
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