Capital Regional District

625 Fisgard St.,
Victoria, BC V8W 1R7

Notice of Meeting and Meeting Agenda
Sticks Allison Water Local Service Committee

Tuesday, June 17, 2025 | **2:00 PM** | **Goldstream Conference Room, 479 Island Hwy, Victoria BC V9B 1H7**

Members of the public can view the live meeting via MS Teams link: **Click here**
Alternatively, to hear the meeting via telephone:
Call: 1-877-567-6843 and enter the Participant Code 681 048 058#

H. Schofield (Chair), J. Fenby (Vice Chair), P. Brent (EA Director), D. Pepin, V. Seidel

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.

1. Territorial Acknowledgement

2. Approval of Agenda

3. Adoption of Minutes

3.1. 25-0722 Minutes of the Sticks Allison Water Local Service Committee meeting of February 26, 2025

Recommendation: That the minutes of the Sticks Allison Water Local Service Committee meeting of February 26, 2025, be adopted as circulated.

Attachments: Minutes - February 26, 2025

4. Chair's Remarks

5. Presentations/Delegations

The public are welcome to attend CRD meetings in-person.

Delegations will have the option to participate electronically. Please complete the online application at www.crd.ca/address no later than 4:30 pm two days before the meeting and staff will respond with details.

Alternatively, you may email your comments on an agenda item to the Committee at legserv@crd.bc.ca.

6. Commission Business

6.1. 25-0650 Senior Manager's Verbal Update

Recommendation: There is no recommendation. This verbal update is for information only.

6.2. 25-0669 Capital Projects and Operational Update - June 2025

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

Attachments: Staff Report: Project and Operations Update - June 2025

6.3. 25-0673 2024 Annual Report

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

Attachments: Staff Report: 2024 Annual Report - Cover Report

Appendix A: 2024 Annual Report

Appendix B: Statement of Reserve Balances

7. Notice(s) of Motion

7.1. 25-0506 Motion with Notice: Excess Water Consumption Fee (P.Brent)

Recommendation: [At the February 26, 2025 Sticks Alison Water Local Service Committee meeting, the following notice was read by Director Brent into record to be discussed at the next meeting:]

WHEREAS the Sticks Allison Water Local Service Committee passed a Motion on November 5, 2024, which reduced the metered water excess consumption level from 110 cubic meters per quarter to 90 cubic meters per quarter due to concerns regarding annual reductions in well water levels;

AND WHEREAS leak detection work may reduce the amount of water required for the system;

AND WHEREAS the committee would like to seek input on the reduced excess consumption level from stakeholders via delegation or written submission at a Sticks Alison Water Local Service Committee meeting:

THEREFORE BE IT RESOLVED that the Sticks Alison Water Local Service Committee direct staff to provide a report assessing the effectiveness of the 20 cubic meter per quarter water reduction alongside the leak detection findings after a one-year trial at the reduced consumption level.

8. New Business

9. Adjournment

The next meeting is Thursday October 30, 2025 at 9:30 am.

To ensure quorum, please advise Megan MacDonald (mmmacdonald@crd.bc.ca) if you or your alternate cannot attend.

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Capital Regional District

625 Fisgard St.,
Victoria, BC V8W 1R7

Meeting Minutes

Sticks Allison Water Local Service Committee

Wednesday, February 26, 2025 **9:30 AM** **Goldstream Conference Room**
479 Island Hwy
Victoria BC V9B 1H7

PRESENT:
P. Brent (EA Director), J. Fenby, D. Pepin (9:37 am) (EP), H. Schofield (9:38 am) (EP), V. Seidel (EP)

Staff: D. Robson, Manager, Saanich Peninsula Gulf Island Operations; D. Dionne, Manager, Business Support Services; M. MacDonald, Legislative Services Coordinator (Recorder)

EP - Electronic Participation

The meeting was called to order at 9:37 am.

1. Territorial Acknowledgement

D. Robson provided a Territorial Acknowledgement.

2. Election of Chair

D. Robson called for nominations for the position of Chair of the Sticks Allison Water Local Service Committee for 2025.

J. Fenby nominated H. Schofield. H. Schofield accepted the nomination.

D. Robson called for nominations a second and third time.

Hearing no further nominations, D. Robson declared Holly Schofield Chair of the Sticks Allison Water Local Service Committee for 2025 by acclamation.

3. Election of Vice Chair

Chair Schofield called for nominations for the position of Vice Chair of the Sticks Allison Water Local Service Committee for 2025.

Chair Schofield nominated J.Fenby. J. Fenby accepted the nomination.

Chair Schofield called for nominations a second and third time.

Hearing no further nominations, Chair Schofield declared Jan Fenby the Vice Chair of the Sticks Allison Water Local Service Committee for 2025 by acclamation.

4. Approval of Agenda

MOVED by P. Brent, SECONDED by J. Fenby,
That the agenda of the Sticks Allison Water Local Service Committee meeting of February 26, 2025 be approved as amended with the addition of the following items:
- 10.1. New Member Orientation
- 10.2. 2025 Meeting Schedule
CARRIED

5. Adoption of Minutes

5.1 25-0193 Minutes of the Sticks Allison Water Local Service Committee of November 5, 2024

MOVED by P. Brent, SECONDED by J. Fenby,
That the minutes of the Sticks Allison Water Local Service Committee meeting of November 5, 2024 be adopted as amended:
- Item 4. be amended by inserting the words "a Zoom meeting on August" following the words "August 10 and" and before "13 of this year"
- Item 7.1 be amended by adding the word "most" before "homeowners within the Sticks Allison Water Service can easily secure a mortgage to finance projects if needed."
- Item 9.1 be amended by inserting the phrase "As requested by some stakeholders," to the beginning of the first sentence
- Item 9.2 be amended by inserting the words "As requested by a Committee member," to the beginning of the first sentence
CARRIED

6. Chair's Remarks

The Chair expressed gratitude for new committee members and staff. Residents are encouraged to conserve water given the dry conditions in December and the ongoing climate crisis. It was also noted that nearby development may impact the amount of water available in the well.

7. Presentations/Delegations

7.1. 25-0218 Delegation - Kirstine Knight; Resident of Sticks Allison Water System: Re: Agenda Item: 5.1. Minutes of the Sticks Allison Water Local Service Committee of November 5, 2024

K. Knight spoke to item 5.1.

7.2. 25-0217 Delegation - Dr. Brian Russell; Resident of Sticks Allison Water System: Re: Agenda Item: 5.1. Minutes of the Sticks Allison Water Local Service Committee of November 5, 2024

B. Russell spoke to item 5.1.

8. Committee Business

8.1 25-0203 Senior Manager's Verbal Update

D. Robson presented Item 8.1. for information and provided the following updates:
- CRD Evolves and related staff support changes for the committee
- implementation of a new stage four water restriction
- installation of water conservation signage

8.2 25-0178 Capital Projects and Operational Update - February 2025

D. Robson presented Item 8.2. for information.

Discussion ensued regarding:
- the recent high Heterotrophic Plate Count (HPC)
- new requests to connect to the water system

9. Notice(s) of Motion

9.1. 25-0506 Notice of Motion: Excess Water Consumption Fee (P.Brent)

The following notice was read by Director Brent into record to be discussed at the next meeting:

WHEREAS the Sticks Allison Water Local Service Committee passed a Motion on November 5, 2024, which reduced the metered water excess consumption level from 110 cubic meters per quarter to 90 cubic meters per quarter due to concerns regarding annual reductions in well water levels;

AND WHEREAS leak detection work may reduce the amount of water required for the system;

AND WHEREAS the committee would like to seek input on the reduced excess consumption level from stakeholders via delegation or written submission at a Sticks Alison Water Local Service Committee meeting:

THEREFORE BE IT RESOLVED that the Sticks Alison Water Local Service Committee direct staff to provide a report assessing the effectiveness of the 20 cubic meter per quarter water reduction alongside the leak detection findings after a one-year trial at the reduced consumption level.

10. New Business

10.1. New Member Orientation

Committee members expressed their desire for an orientation session for new members. Staff will explore opportunities to provide information to new members.

10.2. 2025 Meeting Schedule

Members inquired about the dates of the June and November committee meetings. Staff are currently working on scheduling the meetings, details will be sent as soon as possible.

11. Adjournment

MOVED by J. Fenby, SECONDED by D. Pepin,
That the Sticks Allison Water Local Service Committee meeting of February 26, 2025 be adjourned at 10:32 am.
CARRIED

_____
Chair

_____
Recorder

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REPORT TO STICKS ALLISON WATER LOCAL SERVICE COMMITTEE
MEETING OF TUESDAY, JUNE 17, 2025

SUBJECT **Capital Projects and Operational Update – June 2025**

ISSUE SUMMARY

To provide the Sticks Allison Water Local Service Committee with capital project status reports and operational updates.

BACKGROUND

The Sticks Allison Water System is located on the north shore of Galiano Island in the Southern Gulf Islands Electoral Area and provides drinking water to approximately 37 customers. Capital Regional District (CRD) Infrastructure and Water Services is responsible for the overall operation of the water system with day-to-day operation, design and construction of water system facilities provided by the CRD Infrastructure, Planning and Engineering and Infrastructure Water Operations divisions. The quality of drinking water provided to customers in the Sticks Allison Water System is overseen by the CRD Water Quality division.

Capital Project Update

22-01 | Service Line Replacement (Provisional)

Project Description: Provisional account available to replace failed/leaking water service lines if/when required.

Project Rationale: Funds are required to be available to address potential water service leaks promptly if identified. This funding is considered provisional and will only be utilized if leaks are identified.

Project Update and Milestones:

Milestone	Completion Date
Operations will utilize funds to replace failed or leaking service lines.	As and when needed basis.

Operational Update

This is an operational update reporting period from February through April 2025.

- Regular operations and maintenance during this reporting period including the following preventative maintenance activities:
  - Annual electrical and instrumentation equipment.
  - Hydrant/standpipe equipment

- Routine operational formal safety inspections.
- Repairs and replacement of the corroded galvanized piping at the well and water treatment plant is underway. Work is anticipated to be completed by the end of May.

RECOMMENDATION

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

Submitted by:	Jared Kelly, P.Eng., Manager, Capital Projects
Submitted by:	Dan Robson, A.Sc.T., Manager, Saanich Peninsula and Gulf Islands Operations
Concurrence:	Joseph Marr, P.Eng., Senior Manager, Infrastructure Planning and Engineering
Concurrence:	Jason Dales, B.Sc., WD IV., Senior Manager, Wastewater Infrastructure Operations
Concurrence:	Alicia Fraser, P.Eng., General Manager, Infrastructure and Water Services

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REPORT TO STICKS ALLISON WATER LOCAL SERVICE COMMITTEE
MEETING OF TUESDAY, JUNE 17, 2025

SUBJECT **2024 Annual Report - Cover Report**

ISSUE SUMMARY

Per the *Drinking Water Protection Act*, a water supplier must prepare and make public, within 6 months of the end of the calendar year, an annual report. The Annual Report provides a summary of the Sticks Allison Water Service for 2024.

BACKGROUND

The Sticks Allison Water System is located on the north shore of Galiano Island in the Southern Gulf Islands Electoral Area and provides drinking water to approximately 37 service connections. Capital Regional District (CRD) is responsible for the operation and maintenance of the system and the overall quality of the drinking water provided to customers in the Sticks Allison Water System.

RECOMMENDATION

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

Submitted by:	Jason Dales, B. SC., WD IV, Senior Manager, Wastewater Infrastructure Operations
Submitted by:	Joseph Marr, P. Eng., Senior Manager, Infrastructure Engineering & Planning
Submitted by:	Varinia Somosan, CPA, CGA, Senior Manager, Financial Services / Deputy CFO
Concurrence:	Glenn Harris, Ph.D., R.P.Bio., Acting General Manager, Parks, Recreation and Environmental Services
Concurrence:	Alicia Fraser, P. Eng., General Manager, Infrastructure and Water Services

ATTACHMENT(S)

Appendix A: 2024 Annual Report
Appendix B: 2024 Statement of Operations and Reserve Balances

Sticks Allison Water System

2024 Annual Report

CRD | Drinking Water

Introduction

This report provides a summary of the Sticks Allison Water Service for 2024 and 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 community of Sticks Allison is a rural residential development located on the north side of Galiano Island in the Southern Gulf Islands Electoral Area which was originally serviced by a private water utility. In 1996 the service converted to the Capital Regional District (CRD). The Sticks Allison water service (Figure 1) is made up of 38 parcels encompassing a total area of approximately 23 hectares. Of the 38 parcels, 37 were customers connected to the water system in 2024.

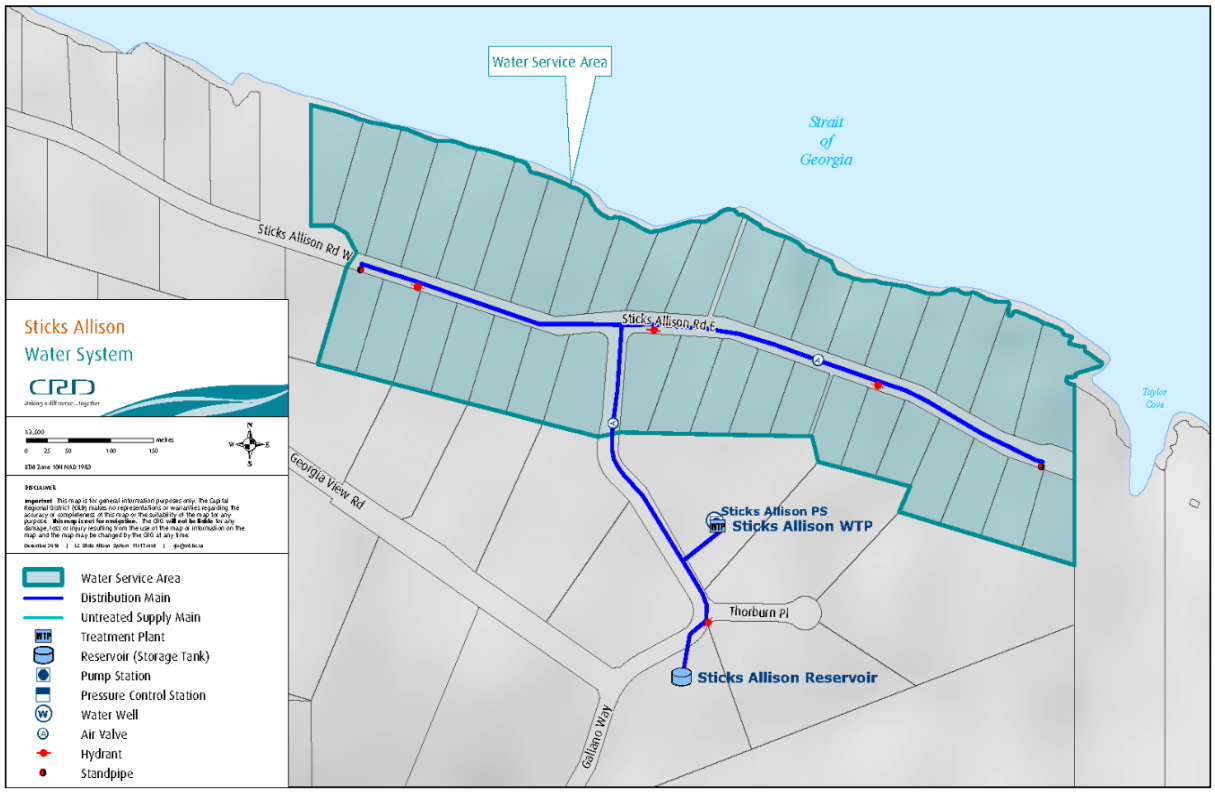

Figure 1: Map of Sticks Allison Water System

The Sticks Allison water system is primarily comprised of:

- One groundwater well, related pumping and control equipment and building.
- Disinfection process equipment (ultraviolet light and chlorine).
- One steel storage tank (total volume is 90 cubic meters).
- Distribution system (approx.1,400 meters of water mains).
- Other water system assets: service connections and meters, five hydrants, two standpipes, 10 gate valves, Supervisory Control and Data Acquisition (SCADA) system and auxiliary generator.

Water Supply

Groundwater supply monthly water levels are highlighted for 2024 in Figure 2. Groundwater levels for the most part during 2024 are within the typical historical range.

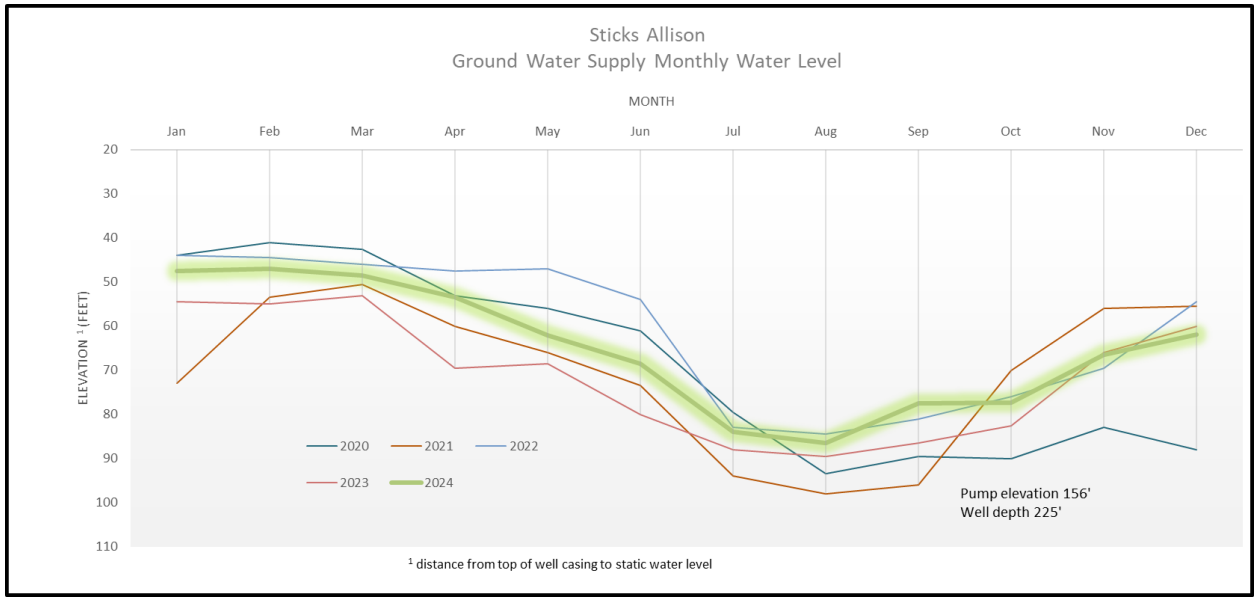

Figure 2: Sticks Allison Monthly Groundwater Water Level

Water Production and Demand

Referring to Figure 3; 5,944, cubic meters of water were extracted (water production) from the ground water source in 2024. This is an 6% decrease from the previous year and a 15% decrease from the five-year average. Water demand (customer water billing) for the service totaled 4,461cubic meters of water; a 9% decrease from the previous year and a 12% decrease from the five-year average.

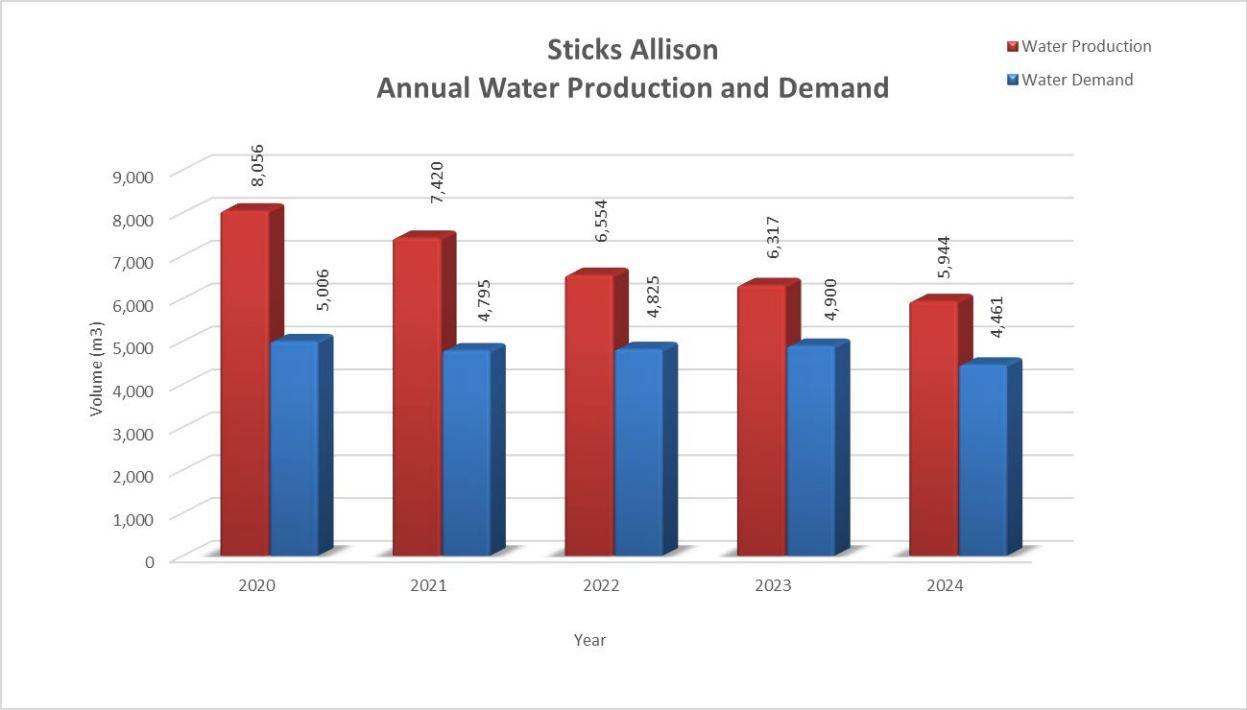

Figure 3: Sticks Allison Water Service Annual Water Production and Demand

The difference between annual water production and annual water demand is referred to as non-revenue water and can include water system leaks, water system maintenance and operational use (e.g. water main flushing, filter system backwashing), potential unauthorized use and fire-fighting use.

The 2024 non-revenue water (1,483 cubic meters) represents approximately 25% of the total water production for the service area. However, approximately 80 cubic meters can be attributed to operational use resulting in a non-revenue water of approximately 24%. Historically, non-revenue water for the service has been about 8%-10%. The higher percentage of non-revenue water for 2024 continues to suggest there is likely ongoing water system leak or leaks that require further investigation.

Figure 4 below illustrates the monthly water production for 2024 along with the historical water production information. The monthly water production trends are typical for small water systems such as the Sticks Allison water system.

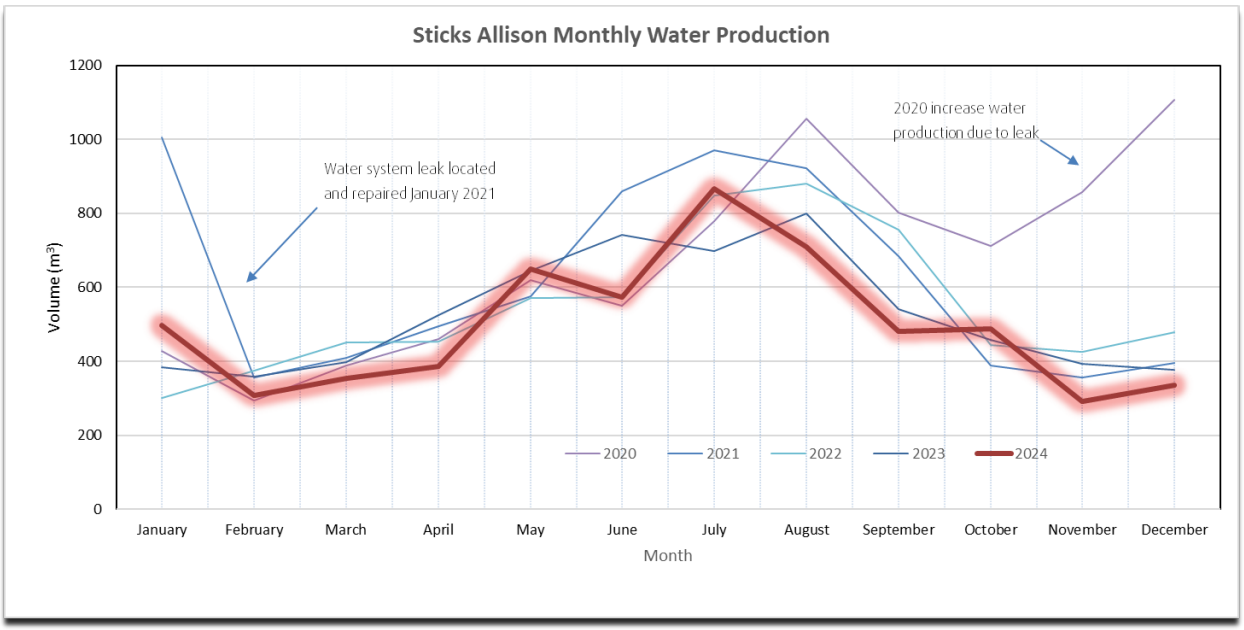

Figure 4: Sticks Allison Water Service Monthly Water Production

Drinking Water Quality

Staff completed the water quality monitoring program at Sticks Allison based on the regulatory requirements and system specific risks. Samples were collected at regular frequencies from the raw water as well as from several sampling stations at the treatment plant and in the distribution system. The samples were shipped for various analyses to the CRD's Water Quality Lab or to external laboratories for special analyses, including disinfection by-products or metals.

The water system performed well in 2024 and consistently supplied safe drinking water to its customers. The groundwater well produced generally good quality source water. It contained medium levels of iron and manganese concentrations. Accumulation effects at the end of the system have occasionally exacerbated these metal concentrations and led to a few exceedances of the aesthetic objectives in the Guidelines for Canadian Drinking Water Quality (GCDWQ). Regular spot flushing efforts usually mitigated this issue. Manganese and or iron exceedances can lead to brown/yellow water discoloration. The well water was free of indicator bacteria in 2024.

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

Raw Water:

- The Sticks Allison well water was free of the indicator bacteria *E.coli* and total coliforms.
- The raw water had a median manganese concentration of 15.2 µg/L which is consistent with previous years. It was also below the aesthetic objectives in the GCDWQ. The median annual iron concentration was 30.6 µg/L and therefore well below the aesthetic objective.
- The raw well water had a median hardness of 34.1 mg/L ($CaCO_3$). pH was not tested in 2024 but is typically between 7.5 and 8.0.
- The raw water turbidity was consistently under 1 Nephelometric Turbidity Unit (NTU) with an annual median of 0.25 NTU.

Treated Water:

- The treated water was safe to drink and free of *E.coli* and total coliform bacteria.
- The treated water turbidity was consistently below 1 NTU with an annual median of 0.45 NTU.
- The iron and manganese concentrations in the distribution system exceeded the aesthetic limits in the GCDWQ at the east end of Sticks Allison Road in May and October. While the manganese concentrations exceeded the aesthetic limit, they never reached the health limit. It is expected that the west end of Sticks Allison Road experienced similar effects, but this was not tested. No customer complaints were received. Regular spot flushes were carried out by the operators.
- The annual average levels of the disinfection by-product total trihalomethanes (TTHM) were well below the maximum allowable concentration. Haloacetic acids (HAA) were not tested in 2024 but are typically low when TTHM are low.
- The free chlorine residual concentrations in the distribution system ranged from 0.03 to 1.17 mg/L with a median of 0.21 mg/L indicating that on occasion the secondary disinfection could be insufficient at the ends of the system. Staff will try to balance the need for proper secondary disinfection and the risk of disinfection by-product formation through higher chlorine levels.

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

- Completed the draining, cleaning and inspection of the water tank. This preventative maintenance activity is tyically performed on a five-year frequency.
- Replaced failed water meter at 362 Sticks Allison Way.
- Emergency response to frozen sodium hypochlorite chemical feed line at the water treatment plant. The event occurred during a cold weather event in January. Corrective work included additional freeze protection of the piping.

Capital Projects Updates

No capital works were planned or completed in 2024. In alignment with the approved capital plan, funds were held for replacement of failed/leaking service lines, which did not end up being utilized.

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), and interest on savings (Interest earnings), a transfer 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. Other Expenses include all other costs to administer and operate the water system, including insurance, supplies, 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 carry 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 next year's financial plan.

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

Table 1

Table 1: 2024 Summary of Raw Water Test Results, Sticks Allison Water System										
PARAMETER		**2024 ANALYTICAL RESULTS**				**CANADIAN GUIDELINES**	**2014-2023 RESULTS**			
Parameter Name	Units of Measure	Annual Median	Samples Analyzed	Range Minimum	Range Maximum	≤ = Less than or equal to	Median	Samples Analyzed	Range Minimum	Range Maximum
ND means Not Detected by analytical method used										
Physical Parameters										
Carbon, Total Organic	mg/L	Not tested in 2024					5.2	1	5.2	5.2
Conductivity @ 25 C	uS/cm	439	4	428	444		391	1	391	391
Hardness as $CaCO_3$	mg/L	**34.05**	4	30.6	38.5	No Guideline Required	31	23	26.6	41.3
pH	pH units	Not tested in 2024				7.0 - 10.5 AO	7.92	11	7.4	8.3
Turbidity	NTU	**0.25**	11	0.15	0.55		0.25	73	0.1	0.95
Water Temperature	°C	Not tested in 2024					10.5	59	9.5	12
Metals										
Aluminum	ug/L as Al	**6.3**	4	3.6	11	2900 MAC / 100 OG	5	23	3.4	24.6
Antimony	ug/L as Sb	**< 0.5**	4	< 0.5	< 0.5	6 MAC	< 0.5	23	< 0.5	< 0.5
Arsenic	ug/L as As	**0.495**	4	0.48	0.51	10 MAC	0.53	23	0.45	1.29
Barium	ug/L as Ba	**< 1**	4	< 1	< 1	1000 MAC	< 1	23	< 1	< 9
Beryllium	ug/L as Be	**< 0.1**	4	< 0.1	< 0.1		< 0.1	23	< 0.1	< 3
Bismuth	ug/L as Bi	**< 1**	4	< 1	< 1		< 1	22	< 1	< 1
Boron	ug/L as B	**368.5**	4	339	433	5000 MAC	356	23	325	404
Cadmium	ug/L as Cd	**< 0.01**	4	< 0.01	0.032	7 MAC	< 0.01	23	< 0.01	< 0.1
Calcium	mg/L as Ca	**11.6**	4	10.5	13.2	No Guideline Required	10.5	23	9.04	15.5
Chromium	ug/L as Cr	**< 1**	4	< 1	< 1	50 MAC	< 1	23	< 1	< 10
Cobalt	ug/L as Co	**< 0.2**	4	< 0.2	< 0.2		< 0.2	23	< 0.2	< 20
Copper	ug/L as Cu	**1.185**	4	1.02	10.1	2000 MAC / ≤ 1000 AO	1.53	23	0.65	10.9
Iron	ug/L as Fe	**30.55**	4	18.5	45.9	≤ 100 AO	33.2	23	12.5	395
Lead	ug/L as Pb	**0.205**	4	< 0.2	0.51	5 MAC	0.21	23	< 0.2	0.64
Lithium	ug/L as Li	**12.9**	4	11.2	14.1		12.3	15	11.6	13.9
Magnesium	mg/L as Mg	**1.22**	4	1.08	1.33	No Guideline Required	1.07	23	0.635	1.28
Manganese	ug/L as Mn	**15.2**	4	12.1	19.7	120 MAC / ≤ 20 AO	17.9	23	7.4	84.7
Molybdenum	ug/L as Mo	**3.8**	4	3.5	4.1		4.2	23	3.5	< 20
Nickel	ug/L as Ni	**< 1**	4	< 1	< 1		< 1	23	< 1	< 50
Potassium	mg/L as K	**0.2695**	4	0.258	0.27		0.287	23	0.264	0.587
Selenium	ug/L as Se	**< 0.1**	4	< 0.1	< 0.1	50 MAC	< 0.1	23	< 0.1	< 0.5
Silver	ug/L as Ag	**< 0.02**	4	< 0.02	< 0.02	No Guideline Required	< 0.02	23	< 0.02	< 10
Sodium	mg/L as Na	**82.5**	4	80.4	85.3	≤ 200 AO	84.4	23	80.7	101
Strontium	ug/L as Sr	**47.15**	4	40.3	51.6	7000 MAC	43.6	23	38	65.1
Sulphur	mg/L as Sc	**9.1**	4	8.7	9.5		9.05	22	7.3	10.9
Tin	ug/L as Sn	**< 5**	4	< 5	< 5		< 5	23	< 5	< 20
Titanium	ug/L as Ti	**< 5**	4	< 5	< 5		< 5	23	< 5	< 10
Thallium	ug/L as Tl	**< 0.01**	4	< 0.01	< 0.01		< 0.01	22	< 0.01	< 0.01
Uranium	ug/L as U	**< 0.1**	4	< 0.1	0.12	20 MAC	< 0.1	22	< 0.1	0.22
Vanadium	ug/L as V	**< 5**	4	< 5	< 5		< 5	23	< 5	< 10
Zinc	ug/L as Zn	**6.3**	4	< 5	15.1	≤ 5000 AO	8	23	< 5	34.3
Zirconium	ug/L as Zr	**< 0.1**	4	< 0.1	< 0.1		< 0.1	22	< 0.1	0.16
Non-Metallic Inorganic Chemicals										
Silicon	mg/L as Si	**6525**	4	6390	7790		6640	23	6080	11500
Microbial Parameters										
Indicator Bacteria										
Coliform, Total	CFU/100 mL	**< 1**	12	< 1	< 1		< 1	119	<1	15
E. coli	CFU/100 mL	**< 1**	12	< 1	< 1		< 1	118	<1	2
Hetero. Plate Count, 7 day	CFU/1 mL	Not tested in 2024								
Parasites										
Cryptosporidium, Total oocysts	oocysts/100 L	Not analyzed in 2024				Zero detection desirable	0	1	0	0
Giardia, Total cysts	cysts/100 L	Not analyzed in 2024				Zero detection desirable	0	1	0	0

Table 2

Table 2: 2024 Summary of Treated Water Test Results, Sticks Allison Water System										
PARAMETER		**2024 ANALYTICAL RESULTS**				**CANADIAN GUIDELINES**	**2014-2023 ANALYTICAL RESULTS**			
Parameter Name	Units of Measure	Annual Median	Samples Analyzed	Range Minimum	Range Maximum	≤ = Less than or equal to	Median	Samples Analyzed	Range Minimum	Range Maximum
ND means Not Detected by analytical method used										
Physical Parameters										
Carbon, Total Organic	mg/L as C	**2.05**	4	2	2.2		2.555	28	1.08	5.95
Hardness as CaCO3	mg/L	**38.4**	4	34.2	40		33.55	24	29.7	39.9
pH	No Units	**8.05**	4	7.8	8.2		7.89	18	7.6	8.3
Turbidity	NTU	**0.45**	12	0.25	0.95	>1 MAC	0.35	109	0.2	4.8
Water Temperature	°C	**10.95**	132	3.8	16.1	≥15 AO	10.5	2176	0.45	22
Microbial Parameters										
Indicator Bacteria										
Coliform, Total	CFU/100 mL	**< 1**	48	< 1	< 1	0 MAC	< 1	335	<1	64
E. coli	CFU/100 mL	**< 1**	48	< 1	< 1	0 MAC	< 1	335	<1	< 1
Hetero. Plate Count, 7 day	CFU/1 mL	**80**	9	20	4200	No Guideline Required	80	74	< 10	11000
Disinfectants										
Disinfectants										
Chlorine, Free Residual	mg/L as Cl2	**0.205**	132	0.03	1.17		0.36	2192	0	1.88
Chlorine, Total Residual	mg/L as Cl2	**0.23**	8	0.08	0.93		0.39	2195	0	1.98
Disinfection By-Products										
Trihalomethanes (THMs)										
Bromodichloromethane	ug/L	**12.5**	4	2.6	19		147	30	6.4	19.3
Bromoform	ug/L	**< 1**	4	< 1	< 1		< 1	30	< 0.1	1.6
Chloroform	ug/L	**18.5**	4	4.9	29		19	30	7.4	33
Chlorodibromomethane	ug/L	**5.75**	4	1.4	8.5		6.8	30	2.5	13
Total Trihalomethanes	ug/L	**36.5**	4	8.9	56	100 MAC	39.6	29	18	59.3
Haloacetic Acids (HAAs)										
HAA5	ug/L	Not tested in 2022				80 MAC				
Metals										
Aluminum	ug/L as Al	**7.65**	4	7.1	23.3	2900 MAC / 100 OG	15.1	24	5	39.4
Antimony	ug/L as Sb	**< 0.5**	4	< 0.5	< 0.5	6 MAC	< 0.5	24	< 0.5	< 0.5
Arsenic	ug/L as As	**0.485**	4	0.46	0.51	10 MAC	0.57	24	0.46	0.89
Barium	ug/L as Ba	**< 1**	4	< 1	2.1	1000 MAC	1.25	24	< 1	2.2
Beryllium	ug/L as Be	**< 0.1**	4	< 0.1	< 0.1		< 0.1	24	< 0.1	< 0.1
Bismuth	ug/L as Bi	**< 1**	4	< 1	< 1		< 1	24	< 1	< 1
Boron	ug/L as B	**390**	4	335	410	5000 MAC	367	24	319	416
Cadmium	ug/L as Cd	**< 0.01**	4	< 0.01	0.035	7 MAC	< 0.01	24	< 0.01	< 0.01
Calcium	mg/L as Ca	**13.9**	4	12.3	14.5	No Guideline Required	11.9	24	10.7	14.4
Chromium	ug/L as Cr	**< 1**	4	< 1	< 1	50 MAC	< 1	24	< 1	< 1
Cobalt	ug/L as Co	**< 0.2**	4	< 0.2	< 0.2		< 0.2	24	< 0.2	< 0.5
Copper	ug/L as Cu	**24.85**	4	12.4	36.6	2000 MAC / ≤ 1000 AO	13.35	24	0.87	49
Iron	ug/L as Fe	**32.05**	4	17.9	190	≤ 100 AO	160.5	24	21.5	EXG 747
Lead	ug/L as Pb	**1.23**	4	0.53	1.62	5 MAC	0.795	24	0.22	2.32
Lithium	ug/L as Li	**12.3**	4	10.7	13.5		12.5	16	11.5	13.3
Magnesium	mg/L as Mg	**0.875**	4	0.833	0.95	No Guideline Required	0.8715	24	0.476	1.3
Manganese	ug/L as Mn	**15**	4	8	110	120 MAC / ≤ 20 AO	51.4	24	6.8	200
Molybdenum	ug/L as Mo	**3.5**	4	2.1	4		3.6	24	1	5.6
Nickel	ug/L as Ni	**< 1**	4	< 1	< 1		< 1	24	< 1	< 1
Potassium	mg/L as K	**0.2795**	4	0.277	0.308		0.2955	24	0.27	0.351
Selenium	ug/L as Se	**< 0.1**	4	< 0.1	< 0.1	50 MAC	< 0.1	24	< 0.1	0.11
Silicon	ug/L as Si	**6780**	4	6350	7580		6965	24	6340	7950
Silver	ug/L as Ag	**< 0.02**	4	< 0.02	< 0.02	No Guideline Required	< 0.02	24	< 0.02	< 0.02
Sodium	mg/L as Na	**84.35**	4	79.6	85.7	≤ 200 AO	84.25	24	79.6	92
Sulphur	ug/L as S	**8.9**	4	8.4	9.5		8.9	24	6.7	11.6
Strontium	ug/L as Sr	**57.35**	4	47.5	58.6	7000 MAC	52.6	24	46.3	60.3
Tin	ug/L as Sn	**< 5**	4	< 5	< 5		< 5	24	< 5	< 5
Thallium	ug/L as Tl	**< 0.01**	4	< 0.01	< 0.01		< 0.01	24	< 0.01	< 0.05
Titanium	ug/L as Ti	**< 5**	4	< 5	< 5		< 5	24	< 5	< 5
Uranium	ug/L as U	**< 0.1**	4	< 0.1	0.11	20 MAC	< 0.1	24	< 0.1	0.16
Vanadium	ug/L as V	**< 5**	4	< 5	< 5		< 5	24	< 5	< 5
Zinc	ug/L as Zn	**11.65**	4	8.6	17.9	≤ 5000 AO	14.25	24	5.9	34.1
Zirconium	ug/L as Zr	**< 0.1**	4	< 0.1	0.14		0.15	24	< 0.1	< 0.5

CAPITAL REGIONAL DISTRICT

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

	2024	2023
Revenue		
Transfers from government	5,100	5,100
User Charges	62,977	64,740
Other revenue from own sources:		
Interest earnings	197	126
Transfer from Operating Reserve	7,000	-
Other revenue	663	2,107
Total Revenue	75,937	72,073
Expenses		
General government services	2,825	2,626
CRD Labour and Operating costs	43,853	36,320
Other expenses	11,022	12,449
Total Expenses	57,700	51,395
Net revenue (expenses)	18,237	20,678
Transfers to own funds:		
Capital Reserve Fund	8,250	13,178
Operating Reserve Fund	9,987	7,500
Annual surplus/(deficit)	-	-
Accumulated surplus/(deficit), beginning of year	-	-
Accumulated surplus/(deficit), end of year $	-	-

CAPITAL REGIONAL DISTRICT

STICKS ALLISON WATER
Statement of Reserve Balances (Unaudited)
For the Year Ended December 31, 2024

	Capital Reserve 2024	2023
Beginning Balance	25,053	11,392
Transfer from Operating Budget	8,250	13,178
Transfer from Operating Reserve	-	(93)
Interest Income	1,205	576
Ending Balance	34,508	25,053

	Operating Reserve 2024	2023
Beginning Balance	15,443	7,433
Transfer from Operating Budget	9,987	7,500
Transfer to Operating Budget	(7,000)	-
Interest Income	623	510
Ending Balance	19,053	15,443