

Notice of Meeting and Meeting Agenda Cedar Lane Water Service Commission

Wednesday, October 16, 2024	10:00 AM	SIMS Boardroom
		124 Rainbow Road
		Salt Spring Island BC

Annual General Meeting

MS Teams Link: <u>Click here</u>

G.Holman, T. Boulter, J. Griffin, M. Hobbs

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 2023 fiscal year

1. Territorial Acknowledgment

2. Election of Chair

3. Approval of Agenda

4. Adoption of Minutes

4.1. <u>24-966</u> Minutes of June 06, 2023 Cedar Lane Water Service Commission AGM

Recommendation: That the minutes of the June 06, 2023 meeting be adopted as circulated.

Attachments: Minutes: June 06, 2023

5. Director and Chair's Report

6. Report

6.1. <u>24-701</u> Cedar Lane Water Service Annual Report 2023

<u>Recommendation</u>: There is no recommendation. This report is for information only.

Attachments: Cedar Lane Annual Report 2023

7. Election of Commissioner

8. New Business

None

9. Outstanding Business

None

10. Adjournment

Next Meeting:

-Thursday, October 16, 2024, at 11:00am in the Salt Spring Island Multi Space (SIMS) Boardroom, 124 Rainbow Road, Salt Spring Island, BC V8K 2V5



Minutes of the Annual General Meeting of the Cedar Lane Water Service Commission Held June 5, 2023 for the 2022 Fiscal Year at the Salt Spring Island Multi Space (SIMS) Boardroom, 124 Rainbow Road, Salt Spring Island, BC

DRAFT

Present: Director: Gary Holman Commission Members: Jason Griffin, Marianne Hobbs and Tisha Boulter Staff: Karla Campbell, Senior Manager, Salt Spring Island Electoral Area, Dean Olafson, Manager SSI Engineering, Dan Robson, Manager, Saanich Peninsula and Gulf Islands Operations (Via Zoom), Lia Xu, Manager, Finance Services (Via Zoom), and Shayla Burnham, Recording Secretary

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

1. Territorial Acknowledgement / Call Meeting to Order

A Territorial Acknowledgement was provided by Commissioner Griffin and the meeting was called to order at 12:33pm.

2. Election of Chair

Staff called for nominations from the floor. Commissioner Griffin nominated Commissioner Boulter as Chair. After calling three times and hearing no other nominations, Commissioner Boulter was elected as Chair.

3. Approval of Agenda

MOVED by Commissioner Griffin, **SECONDED** by Commissioner Boulter, that the Cedar Lane Water Service Commission approve the Monday, June 5, 2023 Annual General Meeting agenda for the 2022 fiscal year as presented.

CARRIED

4. Adoption of Minutes of the 2021 Annual General Meeting held on June 20, 2022

MOVED by Commissioner Griffin, **SECONDED** by Commissioner Hobbs, that the Cedar Lane Water Service Commission adopt the minutes of the 2021 Annual General Meeting held on June 20, 2022 as presented.

CARRIED

5. Director and Chairs Report

Director Holman briefly reported:

• Salt Spring Island Local Community Commission elected on Saturday, May 27, with the inaugural meeting scheduled on Tuesday, June 20, 2023.

- Islands Trust hosting Open Houses as part of the engagement process of Proposed Bylaw No. 530 – Accessory Dwelling Units on Tuesday, June 6 and Saturday, June 10, 2023.
- Salt Spring Island Watershed Protection Alliance (SSIWPA) budget approved.

Chair Boulter – no report

Commissioner Griffin briefly reported:

- The service did not run out of water.
- Acknowledged staffs commitment to ongoing operational needs and future service upgrades.

6. Report

6.1 Annual Report for the 2022 Fiscal Year

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

Lia Xu joined the meeting electronically at 12:42pm.

Director Holman joined the meeting at 12:49pm.

- 7. New Business None
- 8. Outstanding Business None
- 9. Next Meeting TBD

10. Adjournment

MOVED By Commissioner Griffin, that the Cedar Lane Water Service Commission adjourn the meeting at 12:59pm.

CHAIR

SENIOR MANAGER

Cedar Lane Water Service

2023 Annual Report

CCD | Drinking Water

INTRODUCTION

This report provides a summary of the Cedar Lane Water Service for 2023. 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 Cedar Lane Water Utility is a rural residential community located on Salt Spring Island. The service was created in 1970 and became a CRD service in 2007. The Cedar Lane Water Utility (Figure 1) is comprised of 37 parcels of land connected to the system with 39 single-family equivalents (SFE) as the use on some parcels represents more than one dwelling.



Figure 1: Cedar Lane Water Service

The Cedar Lane water system is primarily comprised of:

- two ground water source wells (#1 and #5)
- a water treatment plant (WTP) that provides primary disinfection with ultraviolet

- (UV) radiation and residual disinfection using sodium hypochlorite
- 1 water reservoir 136 m³ (30,000 lg)
- 1,260 metres of water distribution pipe
- fire hydrant, standpipes, and gate valves
- water service connections complete with water meters

WATER PRODUCTION AND DEMAND

Referring to Figure 2, 3,430 cubic meters (m³) of water was extracted (water production) from two groundwater wells in 2023; a 6% increase from the previous year and a 2% decrease in the five-year rolling average. Water demand (customer water billing) for the service totalled 3,264 m³ of water; a 1% increase from the previous year and a 1% decrease in the five-year rolling average.



Figure 2: Cedar Lane Water Service Annual Water Production and Demand

Water production by month for the past five years is shown in Figure 3. Water consumption, for most water systems, is greatest during the summer months. Water usage for Cedar Lane is fairly consistent throughout the year likely the result of conservative indoor and outdoor water use.





Figure 3: Cedar Lane Water Service Monthly Water Production

The Cedar Lane 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 for 2023 is under 5% which is an indicator of a very tight water system with no appreciable leaks.

WATER QUALITY

The analytical results (biological, chemical and physical parameters) of water samples collected in 2023 from the Cedar Lane Water System indicated that the water was biologically safe to drink. Naturally high manganese concentrations in the well water remain insufficiently treated and regularly exceeded the aesthetic limits in most parts of the system, and frequently, in certain parts of the system, the health limits established in the Guidelines for Canadian Drinking Water Quality (GCDWQ). Particularly, areas immediately downstream from the treatment plant are vulnerable to manganese concentrations in exceedance of the health limit. Iron and manganese precipitates have been a significant nuisance problem in parts of the Cedar Lanewater system and have caused discolouration of the drinking water. In order to meet the newly introduced health limit for manganese concentrations in drinking water, the existing treatment system must be upgraded, or a new water source must be found. A public advisory for manganese exceedance in the drinking water has been in place since July 2021.

Both wells ran very low during the dry summer and fall months. Well #1 exhibited repeatedly elevated turbidity throughout the summer and fall and cause turbidity excursions at the treatment plant and at the far end of the distribution system.

Typical Cedar Lane Water System drinking water quality characteristics for 2023 are summarized as follows:

- Source water from both wells was free of *E. coli* bacteria. One sample in December collected from Well #5 recorded a very low concentration of total coliform bacteria.
- Well #1 registered periods with elevated turbidity throughout the year. The periods were as usual predominantly during the summer months when the well levels were the lowest. The highest turbidity peak in the water from this well occurred in September with 15 NTU recorded. A treated water turbidity exceedance at the treatment plant occurred on November 15 when the turbidity in Well #1 reached 7.9 NTU. While this event was short-lived and the risk of inadequate disinfection was low due to a low pathogen load in groundwater, the increasing frequency and severity of turbidity excursions in the source water may become a public health concern for this utility. Well #5 registered for the first time in several years no turbidity greater than 1 NTU.
- Source water is characterized as hard (137.5 mg/L CaCO₃).
- Both wells exhibited elevated iron and especially high manganese concentrations throughout the year.
- Treated water was bacteriologically safe to drink. No sample tested positive for *E.coli* bacteria. One sample from the distribution system on May 17 registered a low concentration of total coliform bacteria. The resample was free of total coliforms and therefore no actual drinking water contamination occurred.
- Besides the one aforementioned turbidity exceedance at the treatment plant, there were several turbidity exceedances in the distribution system at the end of Mansell Road during the summer and fall, indicating an accumulation of particles in the far ends of the piping system. This should be addressed by regular flushing in strategic locations.
- Free chlorine residual concentrations, albeit lower than in previous years, were still acceptable and within the desired range (i.e., 0.23 1.27 mg/L)
- Disinfection by-products: annual average trihalomethanes (THM) were well below (28 μg/L) the GCDWQ limit of 100 μg/L, haloacetic acids (HAA) were not tested in 2023. Typically, when THM concentrations are low, HAA concentrations are also low.
- Metals were typically below all limits except for elevated manganese concentrations. The median annual manganese concentration of 69 µg/L in the treated water indicates consistent exceedance of the aesthetic objective in the GCDWQ (20 µg/L) and also frequent exceedances of the health limit 120 µg/L. The health concerning exceedances occurred mostly in parts of the system that are immediately downstream of the treatment plant. A public health advisory has been in place since July 2021. CRD staff are working on mitigation strategies for this issue.
- Between June and September, the water temperature was in exceedance of the aesthetic objective (15°C) in the distribution system.

Table 1 and 2 below provide a summary of the 2023 raw and treated water test results.

Water Quality data collected from this drinking water system can be reviewed on the CRD website: <u>https://www.crd.bc.ca/about/data/drinking-water-quality-reports</u>



OPERATIONAL HIGHLIGHTS

The following is a summary of the major operational issues that were addressed during the 2023 operating period:

- Water meters were individually flushed and cleaned in addition to routine annual water system flushing.
- Well Pump 1 was inspected and cleaned.
- Replacement of failed Variable Frequency Drive (VFD)
- Some additional monitoring and sampling during elevated raw water turbidity event that occurred in early January.

CAPITAL IMPROVEMENTS

The following is a summary of the major capital improvements, including year-end spending for 2023:

<u>Back-up Power Design (CE.735.4503)</u>: The work scope includes a study to provide back-up power to the service.

Project	Spending
Budget	\$5,000
Project Management	(\$49)
Balance Remaining	\$4,951

<u>Manganese Treatment System Design (CE.780.4501)</u>: This work scope includes the preliminary and detailed design for a manganese treatment system for the service.

Project	Spending
Budget	\$156,500
Project Management	(\$25,933)
Study and Design	(\$52,097)
Balance Remaining	\$78,470

<u>Public Engagement for Manganese Treatment Project (CE.780.4502)</u>: Prepare and conduct public engagement presentations to inform residents of the project to seek their approval.

Project	Spending
Budget	\$5,000
Project Management	(\$0)
Balance Remaining	\$5,000

<u>Referendum or AAP for Manganese Treatment Project (CE.780.4503)</u>: Undertake a referendum or AAP to borrow funds to carry out the construction of the manganese treatment project.

Project	Spending
Budget	\$5,000
Project Management	(\$0)
Balance Remaining	\$5,000



2023 FINANCIAL REPORT

Please refer to the attached 2023 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 includes 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, 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 the next year's financial plan.

WATER SYSTEM PROBLEMS - WHO TO CALL:

To report any event or to leave a message regarding the Cedar Lane 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.

Culture itte al hum	Jason Dales, Senior Manager B.Sc, WD IV, Infrastructure Operations					
Submitted by.	Glenn Harris, Ph.D., R.P.Bio., Senior Manager, Environmental Protection					
	Dan Ovington, BBA , Senior Manager, Salt Spring Island Electoral Area					
	Angela Linwood, CPA, CMA, Controller, Financial Services					
Concurrence:	Ted Robbins, B. Sc., C. Tech., Chief Administrative Officer					

Attachment: 2023 Statement of Operations and Reserve Balances

For questions related to this Annual Report please email <u>saltspring@crd.bc.ca</u>



Table 1: 2023 Summary of Ra	w Water Test Re	sults Ceda	r I ane W	ater Syste	m		1			
PARAMETER	w water restrict	201			5111 TS	CANADIAN GUIDELINES	20	13 - 2022 A		
Parameter	Linite of		Complee		10	CANADIAN GOIDELINES	20	Complee		
Name	Measure	Median	Analyzed	Minimum	Maximum	\leq = Less than or equal to	Median	Analyzed	Minimum	Maximum
ND means Not Detected by analytical n	nethod used	modian	7 1101 / 200		martinani		moulan	7 (1)(1) 200		
		Р	hysical	Paramet	ers/Biolo	ogical		·		
Colour, True	TCU		Last analy:	zed in 2013	_	≤ 15 AO	2.785	2	2.49	3.08
Hardness as CaCO ₃	mg/L	137.5	8	105	166	No Guideline Required	131	68	98.1	188
рН	pH Units	7.3	2	7.2	7.4	7.0-10.5 AO	7.4	52	6.1	8.6
Total Organic Carbon	mg/L	0.99	8	0.82	1.2	Guideline Archived	1.1	48	< 0.5	2.35
Turbidity	NTU	0.675	24	0.1	15	1.0 NTU	0.55	119	0.05	23
Water Temperature	Degrees C	13	72	10	17	≤ 15 AO	12.5	270	5	17
			Micr	obial Par	ameters					
Indicator Bacter	ia	1		e biui i ui	amotoro					
		İ								
Coliform, Total	CFU/100 mL	<1	24	<1	1	0 MAC	< 1	222	<1	800
E. coli	CFU/100 mL	<1	24	< 1	< 1	0 MAC	< 1	221	<1	19
Hetero. Plate Count, 35C (2 day)	CFU/1 mL		Last teste	ed in 2014			28	1	28	28
Parasitos										
Falasiles										
Cryptosporidium, Total oocysts	oocysts/100 L		Last teste	ed in 2014		Zero detection desirable	<1	1	<1	<1
Giardia, Total cysts	cysts/100 L		Last teste	ed in 2014		Zero detection desirable	<1	1	<1	<1
				Metal	\$					
			1	motal						
Aluminum	ud/Las Al	- 3	8	< 3	31	2000 MAC / 100 OC	< 3	68	< 3	96
Antimony	ug/L as Ch	.05	0	.05	.0.5	2900 MAC7 100 0G	.05	60	- 0.5	.0.5
Anumbry		0.32	0	< 0.5	< 0.5		< 0.5	68	0.14	2 0.5
Barium	ug/L as Ra	8.15	8	4.7	11.5	1000 MAC	9.1	68	4.4	1.04
Bonullium	ug/L as Ba	- 0.1	8	4.7	-0.1	1000 MAC	-01	68	4.4	13
Bismuth	ug/L as Be	< 0.1	0	< 0.1	< 0.1		< 0.1	64	< 0.1	< 3
Boron	ug/L as Di	54	0	< 50	62	5000 MA C	56	69	< 50	404
Cadmium	ug/Las D	54 < 0.01	0	< 0.01	< 0.01	7 MAC	- 0.01	68	< 0.01	494
Calcium	mg/L as Ca	41 75	8	31	51.2	No Guideline Required	39.65	68	20.01	58.3
Chromium	ug/Las Cr	-1	8	- 1	- 1		- 1	68	20.1	- 10
Cobalt		<02	8	< 0.2	<02	30 MAC	< 0.2	68	< 0.2	< 20
Coppor	ug/L as Cu	2 115	8	0.83	7.05	2000 MAC / < 1000 AO	2 32	68	0.46	21.5
kon	ug/L as Cu	2.115	0	0.03	026	2000 IVAC/ \$ 1000 AO	2.32	68	11.4	4170
Lood	ug/Las Pb	0.41	8	0.23	2.00	5 MAC	< 0.5	68	< 0.2	9.20
Lithium	ug/Las Fi	18.5	8	16.5	19.7	JIMAG	17.5	30	14.5	9.29 21 A
Magnesium	mg/Las Mg	8 045	8	6 56	9.32	No Guideline Required	7 94	68	6.15	10.8
Manganese	ug/Las Mn	396	8	354	419	120 MAC / < 20 AO	395.5	78	4 1	1140
Molybdenum	ug/Las Mo	<1	8	< 1	<1		< 1	68	< 1	< 20
Nickel	ug/Las Ni	1.05	8	<1	4.6		< 1	68	<1	< 50
Potassium	mg/Las K	0.246	8	0.211	0.286		0.255	68	< 0.03	0.44
Selenium	ug/Las Se	< 0.1	8	< 0.1	< 0.1	50 MAC	< 0.1	68	< 0.00	< 0.5
Silicon	mg/Las Si	9875	8	8620	11000	00.000	9645	68	7260	11700
Silver	ug/Las An	< 0.02	8	< 0.02	< 0.02	No Guideline Required	< 0.02	68	< 0.02	< 10
Sodium	mg/Las Na	53.4	8	47 1	60.4	≤ 200 A O	53.2	68	37.6	78.9
Strontium	ug/L as Sr	427.5	8	335	530	7000 MAC	401.5	68	294	578
Sulphur	mg/L as Si	5.6	8	4.5	77		64	64	3.7	8.8
Tin	ug/Las Sn	< 5	8	< 5	< 5		< 5	68	< 5	< 20
Titanium	ug/L as Ti	< 5	8	< 5	< 5		< 5	68	< 5	< 10
Thallium	ug as Ti	< 0.01	8	< 0.01	< 0.01		< 0.01	64	< 0.01	< 0.05
Uranium	ug/L as U	< 0.1	8	< 0.1	< 0.1	20 MAC	< 0.1	64	< 0.1	0.14
Vanadium	ug/L as V	< 5	8	< 5	< 5		< 5	68	< 5	< 10
Zinc	ug/L as Zn	6.3	8	< 5	13.9	≤ 5000 AO	9.2	68	<1	211
Zirconium	ug/L as Zr	< 0.1	8	< 0.1	< 0.1		< 0.1	64	< 0.1	< 0.5

le 2: 2023 Summary of I	reated Water T	est Results	, Cedar L	ane Water	system					
PARAMETER		202	23 ANALYT	ICAL RESUL	TS	CANADIAN GUIDELINES		2013 - 2023	ANALYTIC	AL RESULTS
Parameter	Units of	Annual	Samples	Rai	nge	\leq = Less than or equal to		Samples		Range
Name	Measure	Median	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum	Maximum
	i metrioù usea		F	hysical	Paramet	ers				
				nysicar	aramet					
Alkalinity, Total	mg/L		Last analy	zed in 2012			211	1	211	211
Carbon, Total Organic	mg/L as C	0.98	4	0.83	1.1		1.1	30	< 0.3	2.52
Colour, True	TCU		Last analy	zed in 2009		≤ 15 AO				
Conductivity @ 25C	uS/cm		Last analy	zed in 2009						
Hardness as CaCO ₃	mg/L	143	18	104	147	No Guideline Required	142	83	62.9	161
pН	pH units	7.575	2	7.55	7.6	7.0-10.5 AO	7.64	33	6.4	8.1
Turbidity	NTU	0.55	25	0.1	5.8	1 MAC and ≤ 5 AO	0.4	110	< 0.14	1.2
Water Temperature	Degress C	11	164	6	22.5	≤ 15 AO	12	2534	4	23
	_		N	licrobial	Paramet	ers				
Indicator Bacte	ria									
Coliform. Total	CFU/100 mL	<1	49	< 1	6	0 MAC	< 1	346	<1	120
E. coli	CFU/100 mL	<1	49	<1	<1	0 MAC	<1	345	<1	< 1
Hetero. Plate Count 7 day	CFU/1 mL	20	1	20	20	No Guideline Required	< 10	44	< 10	2600
				Dicinf	ootonto					
Disinfectants	6			DISIIII	ecianis					
<u> </u>								0.5-1		
Chlorine, Free Residual	mg/L as Cl2	0.61	172	0.23	1.27	No Guideline Required	0.64	2574	0.18	2.2
Chiorine, Total Residual	mg/L as Cl ₂	0.82	32	0.4	1.51	No Guideline Required	0.73	2254	0.22	2.2
			Dis	infection	By-Pro	ducts				
Tribalamathanaa										
maiomethanes										
Bromodichloromethane	ug/L	9.9	4	9.5	13		10.45	33	5.29	15
Bromoform	ua/L	<1	4	< 1	1.1		< 1	33	< 0.1	1.1
Chloroform	ug/L	12	4	11	18		17	33	5.89	180
Chlorodibromomethane	ug/L	6.15	4	4.7	8.1		5.4	33	<0.1	8.3
Total Trihalomethanes	ug/L	28	4	26	39	100 MAC	30.5	32	20	185
Haloacetic Acids	(HAA)	1								
HAA5	ug/L		Not teste	ed in 2023		80 MAC	6.025	6	0.958	7.4
	1	i		Ме	etals	7		1		
Aluminum		-2	19	- 3	15.2		- 2	92	- 2	72
Antimoni			10	.05	10.0	2900 MAC / 100 OG	< 3 . 0 5	00	105	13
Antimony	ug/L as Sb	< 0.5	18	< 0.5	< 0.5	6 MAC	< 0.5	83	< 0.5	< 0.5
Arsenic	ug/L as As	0.285	10	0.21	9.4	10 MAC	0.28	83	0.19	0.819
Bervilium	ug/Las Ba	- 0.1	10	4.9 ~ 0.1	0.70	TOODIWAC	< 0.0	82	< 0.1	28
Bismuth	ug/L as Bi	< 1	18	< 1	0.75		< 1	80	< 0.1	< 1
Boron	ug/L as B	52.5	18	< 50	67	5000 MAC	53	83	< 50	448
Cadmium	ug/L as Cd	< 0.01	18	< 0.01	< 0.01	5 MAC	< 0.01	83	< 0.01	< 0.1
Calcium	mg/L as Ca	44.35	18	30.6	47.5	No Guideline Required	44.6	83	20.7	51.5
Chromium	ug/L as Cr	<1	18	< 1	13	50 MAC	<1	83	< 1	< 10
Cobalt	ug/L as Co	< 0.2	18	< 0.2	< 0.2		< 0.2	83	< 0.2	< 20
Copper	ug/L as Cu	14.1	18	8.02	31.9	2000 MAC / ≤ 1000 AO	16.7	83	5.83	48.8
Iron	ug/L as Fe	36.8	18	7.3	58.4	≤ 300 AO	22.3	83	< 5	65
Lead	ug/L as Pb	0.445	18	< 0.2	2.32	5 MAC	0.535	82	< 0.2	2.27
Lithium	ug/L as Li	17.25	18	16.4	19.1		17.1	52	9.4	19.7
Potassium	ug/L as K	0.2595	18	0.235	0.301		0.261	83	0.236	0.467
Magnesium	mg/Las Mg	7.795	18	6.61	8.16	No Guideline Required	7.56	83	2.71	9.39
Manganese	ug/L as Mn	68.95	18	20.4	266	120 MAC / ≤ 20 AO	79.4	103	< 1	1790
	ug/L as Mo	<1	18	< 1	< 1		< 1	83	< 1	< 20
Molybdenum	ug/Las Ni	<1	18	< 1	3.9		< 1	83	<1	< 50
Molybdenum Nickel		01	18	< 0.1	< 0.1	50 MAC	< 0.1	83	< 0.1	< 0.5
Molybdenum Nickel Selenium	ug/L as Se	< 0.1			12000		9700	83	5370	10400
Molybdenum Nickel Selenium Silicon	ug/L as Se ug/L as Si	10000	18	9410	0.000	Ne Ouidelie - Dominist		00	.0.00	40
Molybdenum Nickel Selenium Silicon Silver	ug/L as Se ug/L as Si ug/L as Ag	< 0.1 10000 < 0.02	18 18	9410 < 0.02	0.022	No Guideline Required	< 0.02	83	< 0.02	< 10
Molybdenum Nickel Selenium Silicon Silver Sodium	ug/L as Se ug/L as Si ug/L as Ag mg/L as Na	< 0.1 10000 < 0.02 52.6	18 18 18	9410 < 0.02 49.3	0.022	No Guideline Required ≤ 200 AO	< 0.02 52.9	83 83	< 0.02	< 10
Molybdenum Nickel Selenium Silicon Silver Sodium Strontium	ug/L as Se ug/L as Si ug/L as Ag mg/L as Na ug/L as Sr	< 0.1 10000 < 0.02 52.6 424.5	18 18 18 18	9410 < 0.02 49.3 354	0.022 57.2 458	No Guideline Required ≤ 200 AO 7000 MAC	< 0.02 52.9 424	83 83 83	< 0.02 25.9 196	< 10 68 497
Molybdenum Nickel Selenium Silicon Silver Sodium Strontium Sulphur Tin	ug/L as Se ug/L as Si ug/L as Ag mg/L as Na ug/L as Sr mg/L as S	< 0.1 10000 < 0.02 52.6 424.5 5.65	18 18 18 18 18 18	9410 < 0.02 49.3 354 5.1	0.022 57.2 458 6.3	No Guideline Required ≤ 200 AO 7000 MAC	< 0.02 52.9 424 6.35	83 83 83 80	< 0.02 25.9 196 4.8	< 10 68 497 8.9
Molybdenum Nickel Selenium Silicon Silver Sodium Strontium Sulphur Tin	ug/L as Se ug/L as Si ug/L as Ag mg/L as Na ug/L as Sr mg/L as S ug/L as Sn	< 0.1 10000 < 0.02 52.6 424.5 5.65 < 5	18 18 18 18 18 18 18	9410 < 0.02 49.3 354 5.1 < 5	0.022 57.2 458 6.3 < 5	No Guideline Required ≤ 200 AO 7000 MAC	< 0.02 52.9 424 6.35 < 5	83 83 83 80 83 83	< 0.02 25.9 196 4.8 < 5	< 10 68 497 8.9 < 20
Molybdenum Nickel Selenium Silicon Silver Sodium Strontium Strontium Sulphur Tin Titanium	ug/L as Se ug/L as Si ug/L as Ag mg/L as Na ug/L as Sr mg/L as Sn ug/L as Ti ug/L as Ti	< 0.1 10000 < 0.02 52.6 424.5 5.65 < 5 < 5 < 5	18 18 18 18 18 18 18 18	9410 < 0.02 49.3 354 5.1 < 5 < 5 < 5	0.022 57.2 458 6.3 < 5 5.6	No Guideline Required ≤ 200 AO 7000 MAC	< 0.02 52.9 424 6.35 < 5 < 5 < 5	83 83 83 80 83 83 83	< 0.02 25.9 196 4.8 < 5 < 5 < 5	< 10 68 497 8.9 < 20 < 10
Molybdenum Nickel Selenium Silicon Silver Sodium Strontium Sulphur Tin Titanium Titanium Iltranium	ug/L as Se ug/L as Si ug/L as Ag mg/L as Ag ug/L as Sr ug/L as Sn ug/L as Sn ug/L as Ti ug/L as Ti	< 0.1 10000 < 0.02 52.6 424.5 5.65 < 5 < 5 < 0.01	18 18 18 18 18 18 18 18 18 18 18	9410 < 0.02 49.3 354 5.1 < 5 < 5 < 5 < 0.01	0.022 57.2 458 6.3 < 5 5.6 < 0.01	No Guideline Required ≤ 200 AO 7000 MAC	< 0.02 52.9 424 6.35 < 5 < 5 < 0.01	83 83 80 83 83 83 83 80 80	< 0.02 25.9 196 4.8 < 5 < 5 < 0.01	<10 68 497 8.9 <20 <10 <0.05
Molybdenum Nickel Selenium Silicon Silver Sodium Strontium Sulphur Tin Titanium Thallium Uranium Vanadium	ug/L as Se ug/L as Si ug/L as Ag mg/L as Na ug/L as Sr ug/L as Sn ug/L as Sn ug/L as Ti ug/L as Ti ug/L as U ug/L as V	<pre>< 0.1 10000 < 0.02 52.6 424.5 5.65 < 5 < 5 < 5 < 0.01 < 0.1 < 5</pre>	18 18 18 18 18 18 18 18 18 18 18 18	9410 < 0.02 49.3 354 5.1 < 5 < 5 < 0.01 < 0.1 < 5	0.022 57.2 458 6.3 < 5 5.6 < 0.01 < 0.1	No Guideline Required ≤ 200 AO 7000 MAC 20 MAC	< 0.02 52.9 424 6.35 < 5 < 5 < 0.01 < 0.1 < 5	83 83 80 83 83 83 83 80 80 80 80	< 0.02 25.9 196 4.8 < 5 < 5 < 0.01 < 0.1 < 5	<pre><10 68 497 8.9 <20 <10 <0.05 <0.1 <10</pre>
Molybdenum Nickel Selenium Silicon Silver Sodium Strontium Strontium Tin Tin Tin Titanium Uranium Uranium Zinc	ug/L as Se ug/L as Si ug/L as Ag mg/L as Na ug/L as Sr mg/L as Sr ug/L as Sn ug/L as Ti ug/L as Ti ug/L as U ug/L as V ug/L as V	< 0.1 10000 < 0.02 52.6 424.5 5.65 < 5 < 5 < 5 < 0.01 < 0.1 < 5 13.1	18 18	9410 < 0.02 49.3 354 5.1 < 5 < 5 < 0.01 < 0.1 < 5 7 2	0.022 57.2 458 6.3 < 5 5.6 < 0.01 < 0.1 < 5 21 9	No Guideline Required ≤ 200 AO 7000 MAC 20 MAC ≤ 5000 AO	< 0.02 52.9 424 6.35 < 5 < 5 < 0.01 < 0.1 < 5 16 5	83 83 80 83 83 83 80 80 80 83 83	<0.02 25.9 196 4.8 <5 <5 <0.01 <0.1 <5 <1	<pre><10 68 497 8.9 <20 <10 <0.05 <0.1 <10 207</pre>

Cedar Lane Water Service 2023 Annual Report

