



DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, (year)

Water System

Water System Owner

Primary Contact Name (Operator or Manager)

Phone Number (Operator or Manager)

E-mail (Operator or Manager)

DESCRIBE YOUR WATER SUPPLY SYSTEM

What is the Source(s) of Raw Water?

Deep Well Shallow Well Surface Water Other

If other, specify details:

Does the Drinking Water System have Primary Disinfection? Yes No

Chlorination Ultraviolet Light Ozone Other

If other, specify details:

Does the Drinking Water System have Secondary Disinfection? Yes No

Chlorination Other

If other, specify details:

Does the Drinking Water System have Filtration? Yes No

Check all boxes that apply

Cartridge Filter(s) Carbon Filter Sand Filtration Reverse Osmosis Other

If other, specify details:

PUBLIC REPORTING

Emergency Response & Contingency Plan (ERCP)

Is your ERCP up to Date? Yes No

How do you Inform the System Users of the ERCP?

Hand Delivered Bulletin Board Newspaper Utility Bill Insert Website

Other (specify details) Radio, Social Media

Drinking Water System Annual Report

How do you Inform the System Users of the Annual Report?

Hand Delivered Bulletin Board Utility Bill Insert Website

Newspaper Other (specify details) Radio, Social Media

COMPLIANCE WITH OPERATING PERMIT

List the conditions of your Operating Permit (Contact the DWO for a copy if needed):

Are you in compliance with your Operating Permit? Yes No

BACTERIOLOGICAL TESTING AND DRINKING WATER PROTECTION REGULATION WATER QUALITY STANDARDS

How many bacteriological samples were collected during this reporting period? _____

What is the minimum required sampling frequency for this system? (#samples/month) _____

Additional sampling details:

Was the minimum required sampling frequency achieved? Yes No

Comments:

Bacteriological summary attached to this report? Yes No

If no, how do the users of the system view the results?

WATER QUALITY STANDARDS FOR POTABLE WATER

Parameter:	Standard:	Did this system meet standard?	
Escherichia coli (for all samples)	No detectable <i>Escherichia coli</i> per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No

If the system did not meet any of above Drinking Water Protection Regulation standards, record the results in the table below; attach additional sheets if necessary.

Date	TC/100ml	E.coli/100ml	Reason	Corrective Action

CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD

Was any chemical sampling conducted during reporting period? Yes No

If no, when were the last chemical samples conducted for this system? (date) Don't know

If yes, attach a list of the chemical results

If any water samples did not meet the Guidelines for Canadian Drinking Water Quality, record the results in the table below; attach additional sheets if necessary.

Next scheduled full chemical test (date)

Parameter	Result	Corrective Action / Treatment / Comments

ADDITIONAL TESTING

Does the system have analyzers for continuous monitoring? Yes No

If yes, check all boxes that apply:

Chlorine Turbidity Other (details)

Are the results available on request? Yes

If any additional testing or sampling was conducted, record results in the table below; attach additional sheets if necessary.

Additional Testing & Reason for Sampling	Corrective Action Taken

WATER QUALITY COMPLAINTS

Were there any water quality complaints in this reporting period? (e.g. taste, odour, colour etc.) Yes No

If yes, complete the table below; attach additional sheets if necessary.

Date	Water Quality Complaint	Corrective Action / Treatment

OPERATIONAL PROBLEMS

Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of disinfection equipment, line breaks, elevated turbidity etc.). Yes No

If yes, complete the table below; attach additional sheets if necessary.

Incident Date	Type of Operational Problem	Corrective Action Taken

MAJOR UPGRADES/REPAIRS & EXPENSES

Were there any major upgrades/repairs or any major costs incurred during this reporting period? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Major Upgrades/Expenses	Details
Improvements required by DWO	
Additions/changes to system	
Purchase or install new equipment	
Equipment repair or replacement	
Annual maintenance of system	
Specialist report	
Other	

FUTURE IMPROVEMENTS

Are there any plans for future improvements? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Future Upgrades or Improvements	Estimated Date of Completion

Click here to enter a date. DATE COMPLETED:	COMPLETED BY: Tai Williams
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APPENDIX A

WATER SYSTEM OPERATING CONDITIONS FOR

NORTH SHAWNIGAN LAKE COMMUNITY WATER SYSTEM

2660 Decca Road

Shawnigan Lake, BC, V0R 2W0

By July 1, 2014, this system will provide two treatments processes acceptable to the Vancouver Island Health Authority, achieve a 4-log removal/inactivation of viruses and 3-log removal/inactivation of Giardia cysts and Cryptosporidium oocysts and produce a finished water with less than 1 NTU turbidity. Design and approvals are to be completed by July 1, 2013.

Date: October 17, 2012



Mark Hall, Environmental Health Officer

NORTH SHAWNIGAN LAKE COMMUNITY WATER SYSTEM

Facility Information

Facility Sampling History

Location	Date	Total Coliform	E. Coli/Enterococci
S1 2209 McKean Road	18-Dec-2023	LT1	LT1
S4 2032 Sunnybrook Lane	18-Dec-2023	LT1	LT1
S7 3057 Miner Road	18-Dec-2023	LT1	LT1
S1 2209 McKean Road	11-Dec-2023	LT1	LT1
S5 End of Gregory Rd Reservoir	11-Dec-2023	LT1	LT1
S1 2209 McKean Road	04-Dec-2023	LT1	LT1
S4 2032 Sunnybrook Lane	04-Dec-2023	LT1	LT1
S8 LOT 10 Katys Crescent	04-Dec-2023	LT1	LT1
S1 2209 McKean Road	27-Nov-2023	LT1	LT1
S4 2032 Sunnybrook Lane	27-Nov-2023	LT1	LT1
S1 2209 McKean Road	20-Nov-2023	LT1	LT1
S4 2032 Sunnybrook Lane	20-Nov-2023	LT1	LT1
S8 LOT 10 Katys Crescent	20-Nov-2023	LT1	LT1
S1 2209 McKean Road	14-Nov-2023	LT1	LT1
S4 2032 Sunnybrook Lane	14-Nov-2023	LT1	LT1
S8 LOT 10 Katys Crescent	14-Nov-2023	LT1	LT1
S1 2209 McKean Road	07-Nov-2023	LT1	LT1
S5 End of Gregory Road Reservoir	07-Nov-2023	LT1	LT1
S1 2209 McKean Road	30- Oct-2023	LT1	LT1
S4 2032 Sunnybrook Lane	30- Oct-2023	LT1	LT1
S1 2209 McKean Road	23- Oct-2023	LT1	LT1
S7 3057 Miner Road	23- Oct-2023	LT1	LT1
S1 2209 McKean Road	16- Oct-2023	LT1	LT1
S4 2032 Sunnybrook Lane	16- Oct-2023	LT1	LT1
S8 LOT 10 Katys Crescent	16- Oct-2023	LT1	LT1
S1 2209 McKean Road	10- Oct-2023	LT1	LT1
S5 End of Gregory Road Reservoir	10- Oct-2023	LT1	LT1
S1 2209 McKean Road	04- Oct-2023	LT1	LT1
S4 2032 Sunnybrook Lane	04- Oct-2023	LT1	LT1
S1 2209 McKean Road	25-Sep-2023	LT1	LT1
S7 3057 Miner Road	25-Sep-2023	LT1	LT1
S1 2209 McKean Road	18-Sep-2023	LT1	LT1
S4 2032 Sunnybrook Lane	18-Sep-2023	LT1	LT1
S8 LOT 10 Katys Crescent	18-Sep-2023	LT1	LT1
S1 2209 McKean Road	11-Sep-2023	LT1	LT1
S5 End of Gregory Road Reservoir	11-Sep-2023	LT1	LT1
S1 2209 McKean Road	05-Sep-2023	LT1	LT1
S4 2032 Sunnybrook Lane	05-Sep-2023	LT1	LT1
S1 2209 McKean Road	29-Aug-2023	LT1	LT1
S5 End of Gregory Road Reservoir	29-Aug-2023	LT1	LT1
S1 2209 McKean Road	22-Aug-2023	LT1	LT1
S4 2032 Sunnybrook Lane	22-Aug-2023	LT1	LT1
S8 LOT 10 Katys Crescent	22-Aug-2023	LT1	LT1
S1 2209 McKean Road	14-Aug-2023	LT1	LT1

NORTH SHAWNIGAN LAKE COMMUNITY WATER SYSTEM

Facility Information

Facility Sampling History

Location	Date	Total Coliform	E. Coli/Enterococci
S7 3057 Miner Road	14-Aug-2023	LT1	LT1
S1 2209 McKean Road	08-Aug-2023	LT1	LT1
S4 2032 Sunnybrook Lane	08-Aug-2023	LT1	LT1
S1 2209 McKean Road	01-Aug-2023	LT1	LT1
S5 End of Gregory Road Reservoir	01-Aug-2023	LT1	LT1
S1 2209 McKean Road	25-Jul-2023	LT1	LT1
S4 2032 Sunnybrook Lane	25-Jul-2023	LT1	LT1
S8 LOT 10 Katys Crescent	25-Jul-2023	LT1	LT1
S1 2209 McKean Road	18-Jul-2023	LT1	LT1
S7 3057 Miner Road	18-Jul-2023	LT1	LT1
S1 2209 McKean Road	11-Jul-2023	LT1	LT1
S4 2032 Sunnybrook Lane	11-Jul-2023	LT1	LT1
S1 2209 McKean Road	04-Jul-2023	LT1	LT1
S5 End of Gregory Road Reservoir	04-Jul-2023	LT1	LT1
S1 2209 McKean Road	27-Jun-2023	LT1	LT1
S4 2032 Sunnybrook Lane	27-Jun-2023	LT1	LT1
S8 LOT 10 Katys Crescent	27-Jun-2023	LT1	LT1
S1 2209 McKean Road	20-Jun-2023	LT1	LT1
S7 3057 Miner Road	20-Jun-2023	LT1	LT1
S1 2209 McKean Road	12-Jun-2023	LT1	LT1
S4 2032 Sunnybrook Lane	12-Jun-2023	LT1	LT1
S1 2209 McKean Road	05-Jun-2023	LT1	LT1
S5 End of Gregory Road Reservoir	05-Jun-2023	LT1	LT1
S1 2209 McKean Road	29-May-2023	LT1	LT1
S4 2032 Sunnybrook Lane	29-May-2023	LT1	LT1
S8 LOT 10 Katys Crescent	29-May-2023	LT1	LT1
S1 2209 McKean Road	23-May-2023	LT1	LT1
S7 3057 Miner Road	23-May-2023	LT1	LT1
S1 2209 McKean Road	16-May-2023	LT1	LT1
S4 2032 Sunnybrook Lane	16-May-2023	LT1	LT1
S1 2209 McKean Road	08-May-2023	LT1	LT1
S5 End of Gregory Road Reservoir	08-May-2023	LT1	LT1
S1 2209 McKean Road	01-May-2023	LT1	LT1
S4 2032 Sunnybrook Lane	01-May-2023	LT1	LT1
S1 2209 McKean Road	25-Apr-2023	LT1	LT1
S8 LOT 10 Katys Crescent	25-Apr-2023	LT1	LT1
S1 2209 McKean Road	17-Apr-2023	LT1	LT1
S4 2032 Sunnybrook Lane	17-Apr-2023	LT1	LT1
S7 3057 Miner Road	17-Apr-2023	LT1	LT1
S1 2209 McKean Road	11-Apr-2023	LT1	LT1
S5 End of Gregory Road Reservoir	11-Apr-2023	LT1	LT1
S1 2209 McKean Road	03-Apr-2023	LT1	LT1
S4 2032 Sunnybrook Lane	03-Apr-2023	LT1	LT1
S1 2209 McKean Road	27-Mar-2023	LT1	LT1

NORTH SHAWNIGAN LAKE COMMUNITY WATER SYSTEM

Facility Information

Facility Sampling History

Location	Date	Total Coliform	E. Coli/Enterococci
S8 LOT 10 Katys Crescent	27-Mar-2023	LT1	LT1
S1 2209 McKean Road	21-Mar-2023	LT1	LT1
S4 2032 Sunnybrook Lane	21-Mar-2023	LT1	LT1
S1 2209 McKean Road	13-Mar-2023	LT1	LT1
S7 3057 Miner Road	13-Mar-2023	LT1	LT1
S1 2209 McKean Road	07-Mar-2023	LT1	LT1
S4 2032 Sunnybrook Lane	07-Mar-2023	LT1	LT1
S1 2209 McKean Road	01-Mar-2023	LT1	LT1
S1 2209 McKean Road	21-Feb-2023	LT1	LT1
S4 2032 Sunnybrook Lane	21-Feb-2023	LT1	LT1
S8 LOT 10 Katys Crescent	21-Feb-2023	LT1	LT1
S1 2209 McKean Road	13-Feb-2023	LT1	LT1
S7 3057 Miner Road	13-Feb-2023	LT1	LT1
S1 2209 McKean Road	06-Feb-2023	LT1	LT1
S4 2032 Sunnybrook Lane	06-Feb-2023	LT1	LT1
S1 2209 McKean Road	31-Jan-2023	LT1	LT1
S5 End of Gregory Road Reservoir	31-Jan-2023	LT1	LT1
S1 2209 McKean Road	24-Jan-2023	LT1	LT1
S4 2032 Sunnybrook Lane	24-Jan-2023	LT1	LT1
S8 LOT 10 Katys Crescent	24-Jan-2023	LT1	LT1
S1 2209 McKean Road	17-Jan-2023	LT1	LT1
S7 3057 Miner Road	17-Jan-2023	LT1	LT1
S1 2209 McKean Road	10-Jan-2023	LT1	LT1
S5 End of Gregory Road Reservoir	10-Jan-2023	LT1	LT1
S1 2209 McKean Road	04-Jan-2023	LT1	LT1
S4 2032 Sunnybrook Lane	04-Jan-2023	LT1	LT1

SHAWNIGAN LAKE NORTH WATER SYSTEM

SOURCE - Manhole Intake

DISTRIBUTION - S1

<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Sample ID</i>	<i>Result</i>	<i>Result2</i>
				S1 2209 MCKEAN RD (27AEC)	SHAWNIGAN LAKE-MANHOLE INTAKE (WTX 27B39)	
				<i>Sampling Date</i>	02/07/23	05/15/23
				<i>Sampling Time</i>	10:18 AM	09:45 AM
Nitrite (N)	1		mg/L	<0.0050	<0.0050	
Nitrate (N)	10		mg/L	0.32	0.104	
Conductivity			uS/cm	96	89	
pH			pH	7.47	7.38	
Total Dissolved Solids		500	mg/L	54	50	
Alkalinity (PP as CaCO3)			mg/L	<1.0	<1.0	
Alkalinity (Total as CaCO3)			mg/L	26	23	
Bicarbonate (HCO3)			mg/L	31	29	
Carbonate (CO3)			mg/L	<1.0	<1.0	
Hydroxide (OH)			mg/L	<1.0	<1.0	
Chloride (Cl)		250	mg/L	9.1	11	
Sulphate (SO4)		500	mg/L	3	3.2	
True Colour		15	Col. Unit	<5.0	<5.0	
Nitrate plus Nitrite (N)			mg/L	0.32	0.104	
Langelier Index (@ 20C)			N/A	-1.67	-1.71	
Langelier Index (@ 4C)			N/A	-1.99	-1.96	
Saturation pH (@ 20C)			N/A	9.25	9.09	
Saturation pH (@ 4C)			N/A	9.57	9.34	
Dissolved Fluoride (F)	1.5		mg/L	<0.050	<0.050	
Tannins and Lignins			mg/L	<0.2	<0.2	
Turbidity	see remark	see remark	NTU	0.45	0.57	
Total Hardness (CaCO3)			mg/L	26	23.2	
Total Aluminum (Al)	2900		ug/L	17.7	14.6	
Total Antimony (Sb)	6		ug/L	<0.50	<0.50	
Total Arsenic (As)	10		ug/L	0.15	0.14	
Total Barium (Ba)	2000		ug/L	4.9	4.8	
Total Beryllium (Be)			ug/L	<0.10	<0.10	
Total Bismuth (Bi)			ug/L	<1.0	<1.0	
Total Boron (B)	5000		ug/L	<50	<50	
Total Cadmium (Cd)	7		ug/L	<0.010	0.016	
Total Chromium (Cr)	50		ug/L	<1.0	<1.0	
Total Cobalt (Co)			ug/L	<0.20	<0.20	
Total Copper (Cu)	2000	1000	ug/L	5.39	0.89	
Total Iron (Fe)		300	ug/L	51.8	31.3	
Total Lead (Pb)	5		ug/L	<0.20	<0.20	
Total Manganese (Mn)	120	20	ug/L	6.4	3.3	
Total Molybdenum (Mo)			ug/L	<1.0	<1.0	
Total Nickel (Ni)			ug/L	<1.0	<1.0	
Total Selenium (Se)	50		ug/L	<0.10	<0.10	
Total Silicon (Si)			ug/L	2530	2550	
Total Silver (Ag)			ug/L	<0.020	<0.020	

SHAWNIGAN LAKE NORTH WATER SYSTEM

SOURCE - Manhole Intake

DISTRIBUTION - S1

			<i>Sample ID</i>	S1 2209 MCKEAN RD (27AEC)	SHAWNIGAN LAKE-MANHOLE INTAKE (WTX 27B39)
			<i>Sampling Date</i>	02/07/23	05/15/23
			<i>Sampling Time</i>	10:18 AM	09:45 AM
<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Result</i>	<i>Result2</i>
Total Strontium (Sr)	7000		ug/L	32.3	28.2
Total Thallium (Tl)			ug/L	<0.010	<0.010
Total Tin (Sn)			ug/L	<5.0	<5.0
Total Titanium (Ti)			ug/L	<5.0	<5.0
Total Uranium (U)	20		ug/L	<0.10	<0.10
Total Vanadium (V)			ug/L	<5.0	<5.0
Total Zinc (Zn)		5000	ug/L	<5.0	<5.0
Total Zirconium (Zr)			ug/L	<0.10	<0.10
Total Calcium (Ca)			mg/L	7.95	7.05
Total Magnesium (Mg)			mg/L	1.49	1.36
Total Potassium (K)			mg/L	0.322	0.308
Total Sodium (Na)		200	mg/L	6.61	6.36
Total Sulphur (S)			mg/L	<3.0	<3.0
Total Mercury (Hg)	1		ug/L	0.002	<0.0019
Total Total Kjeldahl Nitrogen (Calc)			mg/L	0.117	0.358
Total Organic Carbon (C)			mg/L	3.1	3.4
Total Nitrogen (N)			mg/L	0.437	0.462
Total Ammonia (N)			mg/L	<0.015	<0.015
Sulphide (as H2S)		0.05	mg/L	<0.0020	
Total Sulphide		0.05	mg/L	<0.0018	
Total Coliforms	0		CFU/100mL	0	4
E. coli	0		CFU/100mL	0	0
Heterotrophic Plate Count			CFU/mL	<1.0	2
Fecal Coliforms			CFU/100mL	0	<1
Non-Coliform (Background)			CFU/100mL	1	36
Iron Bacteria			CFU/mL	<25	<25
Sulphate reducing bacteria			CFU/mL	<75	<75
Total Trihalomethanes	100		ug/L	62	
Bromodichloromethane			ug/L	4.6	
Bromoform			ug/L	<1.0	
Dibromochloromethane			ug/L	<1.0	
Chloroform			ug/L	58	
Dalapon			ug/L	<5.0	
Monochloroacetic Acid			ug/L	<5.0	
Monobromoacetic Acid			ug/L	<5.0	
Dichloroacetic Acid			ug/L	18	
Trichloroacetic Acid			ug/L	28	
Bromochloroacetic Acid			ug/L	<5.0	
Dibromoacetic Acid			ug/L	<5.0	
Total Haloacetic Acids	80		ug/L	46	

SHAWNIGAN LAKE NORTH WATER SYSTEM

THM/HAA_s

<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Sample ID</i>	<i>Result</i>	<i>Result</i>	<i>Result</i>	<i>Result</i>
				S1 2209 MCKEAN RD (27AEC)	S1 2209 MCKEAN RD (27AEC)	S1 2209 MCKEAN RD(27AEC)	S1 2209 McKean Rd (27AEC)	
				<i>Sampling Date</i>	<i>Sampling Time</i>	<i>Sampling Date</i>	<i>Sampling Time</i>	<i>Sampling Date</i>
Total Trihalomethanes	100		ug/L	02/07/23 10:18 AM	62	45	64	50
Bromodichloromethane			ug/L	05/15/23 10:00 AM	4.6	3.1	6.6	5.6
Bromoform			ug/L	08/15/23 11:05 AM	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane			ug/L	11/21/23 09:50 AM	<1.0	<1.0	<1.0	<1.0
Chloroform			ug/L		58	41	57	44
Dalapon			ug/L		<5.0	<5.0	<5.0	<5.0
Monochloroacetic Acid			ug/L		<5.0	<5.0	<5.0	<5.0
Monobromoacetic Acid			ug/L		<5.0	<5.0	<5.0	<5.0
Dichloroacetic Acid			ug/L		18	23	15	13
Trichloroacetic Acid			ug/L		28	18	18	18
Bromochloroacetic Acid			ug/L		<5.0	<5.0	<5.0	<5.0
Dibromoacetic Acid			ug/L		<5.0	<5.0	<5.0	<5.0
Total Haloacetic Acids	80		ug/L		46	41	32	31

Cowichan Valley Reg. Dist. - E
*A PO 23-223 (2023)
*A 175 Ingram Street
Duncan, BC
V9L 1N8

29Sep23 09:09a
FWS
filter(s)
1

W176892

TEL: (250) 746-2530
group

Arrival temp.: 7.0C

PARASITE ANALYSIS

<u>Sample</u>	<u>Cysts/100L</u>	<u>Organisms Identified</u>	<u>Comments</u>
SLNW: Intake Pump #2	ND	Giardia (cysts)	-protozoan; enteric parasite
27Sep23 11:25a 100gal	8.0	Cryptosporidium (oocysts)	-protozoan; enteric parasite

Detection Limit = 1 per 100L *

Lab Test Recovery = 94.6%

* test is strongly influenced by volume collected, amount & type of sediment present

ND = none detected

ref: Direct Antibody -Hydrofluor Meridian

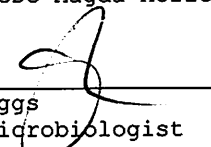
Monitoring for Giardia & Cryptosporidium, JL Clancy, WD Gollnitz & Z Tabib, 1994
Prop. ICR Protozoan Methods for Detection of Giardia Cysts and Cryptosporidium Oocysts
in Water by Fluorescent Antibody Procedures 1993

US EPA Consensus Method for Determining Groundwaters Under the Direct
Influence of Surface Water Using Microscopic Particulate Analysis (MPA),
Vasconcelos, J., S. Harris., 1992

Manual of Clinical Microbiology, EH Lennette et al. Am. Soc for Microbiology
Clinical Diagnosis by Laboratory Methods, Davidson & Henry

Veterinary Clinical Parasitology, MW Sloss, RL Kemp. Iowa State Univ. Press 5th ed.
Parasitology for Veterinarians, JR Georgi & ME Georgi. WB Saunders & Co, 1990

Personal Communications re methodologies & taxonomy: US EPA -S. Harris,
US EPA (Cinc) F. Schaefer
US EPA (retired) J.Vasconcelos
BC CDC Magda Moricz (1995)


W. Riggs
Sr. Microbiologist

M.B. LABS LTD
T: 250 656-1334

E: info@mblabs.com

W: www.mblabs.com

Cowichan Valley Regional District
 *A
 175 Ingram St
 Duncan, BC
 V9L 1N8
 TEL: 250 746-2530
 nathan.queen@cvrld.bc.ca

27Jun23 11:35a
 Source: Lake
 Type of Sample: Water
 No. of Samples: 2
 Arrival temp.: 3.6C
 Sampler: Nathan Queen

W175110 Amended

Samples: SLNW Decca Rd

ALGAE

Sample	TOTAL Cells/100cc	per 100cc	Organisms Identified	Comments
1 Lake Intake Pump 1 26Jun23 10:35a	5.40 x 10 ⁴	2.0 x 10 ⁴	Anacystis	-BG taste & odor, filter clogging, pollution
		4.0 x 10 ³	Raciborskiella	-CH plankton
		4.0 x 10 ³	Chlorella	-CH filter clogging, pollution, plankton
		8.0 x 10 ²	Trachelomonas	-CH filter clogging; slow running water or planktonic
		8.0 x 10 ²	Centritractus	-CY plankton
		8.0 x 10 ²	Palmellopsis	-CH filter clogging, plankton
		4.0 x 10 ³	Aphanocapsa	-BG taste & odor, euplankton
		8.0 x 10 ²	Pseudopedinella	-CY plankton; freshwater flagellate
		4.0 x 10 ³	Synura	-CY taste & odor
		4.0 x 10 ²	Cyclidium	-CL freshwater ciliate
		1.2 x 10 ³	Gymnodinium	-DI taste & odor
		1.2 x 10 ⁴	Heliopsis	-CR plankton
1.2 x 10 ⁴	Monas	-ZF plankton		
2 Lake Intake 27June23 10:45a	5.0 x 10 ⁴	2.0 x 10 ⁴	Anacystis	-BG taste & odor, filter clogging, pollution
		8.0 x 10 ³	Dinobryon	-CY taste & odor, filter clogging
		4.0 x 10 ³	Chromulina	-CY plankton
		4.0 x 10 ³	Gymnodinium	-DI taste & odor
		4.0 x 10 ³	Chloromonas	-CH FW plankton, filter clogging, pollution
		2.0 x 10 ³	Ankistrodesmus	-CL plankton
		1.2 x 10 ³	Monas	-ZF plankton
		4.0 x 10 ²	Chlorella	-CH filter clogging, pollution, plankton
		1.2 x 10 ³	Uroglena	-CY filamentous; filter clogging
		4.0 x 10 ³	Chrysochromulina	-CY standing freshwater; planktonic
		1.2 x 10 ³	Diceras	-CY plankton

BA - bacterium
 BG - bluegreen/Cyanophyte
 CH - green/Chlorophyte
 CL - protozoan ciliate
 CR - Cryptophyte
 CY - yellow/Chrysophyte

D - diatom
 DI - Dinoflagellate
 EU - Euglenophyte
 O - other
 R - red/Rhodophyte
 Z - protozoan
 ZF - zooflagellate
 ZP - zooplankton

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