



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, Newspaper, Utility Bill Insert, Website, Other (specify details)

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?

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. New system commissioned in 2021

Future Upgrades or Improvements	Estimated Date of Completion

<p>Click here to enter a date. DATE COMPLETED:</p>	<p>COMPLETED BY:</p>
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APPENDIX A

WATER SYSTEM OPERATING CONDITIONS FOR

Shawnigan Village Water Works
285702
2748 Heald Road
Shawnigan Lake, BC V0R 2W0

The permit holder is advised that the following Terms and Conditions are in addition to other legislated responsibilities and obligations outlined in the Drinking Water Protection Act, ([SBC 2001] Chapter 9) and the B.C. Reg. 200/2003 O.C. 508/2003 Drinking Water Protection Regulation.

1. Authorized Waterworks System

The water supply system owner is authorized to operate a raw water, screened, dual intake from Shawnigan Lake and a pump station with two cartridge filtration trains installed in parallel, two ultraviolet disinfection units installed in parallel, chlorine disinfection using liquid sodium hypochlorite, a 127 cubic meter and a 161 cubic meter chlorine contact tank, chemical storage and metering facilities, and a distribution system consisting of a 868 cubic meter water storage reservoir, and transmission facilities to supply potable water for domestic purposes to the community of Shawnigan Village, BC.

2. Performance Standards

2.1 Water must be treated in accordance with the Drinking Water Treatment Objectives (Microbiological) for Surface Water Supplies (SWTO) in British Columbia Version 1.2 / First Published November 2012 (or most recent version). The filter cartridges, ultraviolet light disinfection units, and the chlorine disinfection system shall be operated in a manner to achieve the minimum overall treatment and disinfection standards based upon the following:

4-log (99.99%) removal/inactivation of viruses

- The chlorine disinfection system shall ensure a minimum of 4-log (99.99%) reduction/inactivation of viruses, based on the Hepatitis A virus.

3-log (99.9%) reduction/inactivation of protozoa

- The Trojan B08 ultraviolet light disinfection units shall ensure a minimum of 3-log removal/inactivation of Giardia lamblia cysts and Cryptosporidium oocysts
- Each Harmsco MUNI-5-4FL-304 stainless steel filter housing, containing five Harmsco HC/170-LT2 (1-micron absolute) cartridges, shall ensure a minimum of 2-log removal/inactivation of Giardia lamblia cysts and Cryptosporidium oocysts.

Date: February 11, 2025

Issued By: 

Environmental Health Officer

APPENDIX A

WATER SYSTEM OPERATING CONDITIONS FOR

Shawnigan Village Water Works
285702
2748 Heald Road
Shawnigan Lake, BC V0R 2W0

A turbidity level of less than or equal to 1 NTU in finished water

- Each Harmsco MUNI-5-4FL-304 stainless steel filter housing, containing five, 10-micron or 5-micron filter cartridges, shall produce water with turbidity not exceeding 1-NTU prior to the final filtration stage.

The finished water leaving the primary water treatment and disinfection system shall:

- have no detectable Escherichia coli bacteria per 100 mL; and
- have no detectable total coliform bacteria per 100 mL
- have a turbidity level not greater than 1 NTU
- have trihalomethane (THM) levels not greater than 0.1 mg/L and haloacetic acid (HAA) levels not greater than 0.08 mg/L based on the average of quarterly sample results collected from the point in the water supply system with the highest potential THM and HAA levels
- have a pH value within the range of 7.0-10.5. If pH values greater than 9.0 pH units occur, the level of chlorine may have to be increased to achieve the proper level of disinfection.

2.2 Water must be treated in accordance with the "British Columbia Guidelines (Microbiological) on Maintaining Water Quality in Distribution Systems", Version 1 / August 2016 (or most recent editions) to ensure that a minimum of 0.2 mg/L of free available chlorine is present throughout the distribution system.

Minor deviation of these objectives may need attention by operating staff, but may not necessarily constitute a treatment violation.

3. Water Quality Monitoring and Reporting Requirements:

3.1 Water Quality Monitoring

The water supply system owner shall provide and maintain suitable sampling ports to obtain raw and finished water samples.

The water supply system owner shall maintain a water quality monitoring plan outlining the parameters to be monitored and the frequencies at which those parameters will be monitored. This plan is to be submitted for approval by the Drinking Water Officer.

Date: February 11, 2025

Issued By: 

Environmental Health Officer

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Shawnigan Lake, BC V0R 2W0

The water supply system owner must create and execute an action plan to remediate water quality if parameters are found to be elevated above the maximum acceptable concentration outlined in the Guidelines for Canadian Drinking Water Quality.

3.1.1 Microbiological Sampling

Microbiological samples shall be collected on a weekly rotating basis from the following sites, to ensure that a minimum of 4 samples monthly are collected from:

1. Distribution Site 1 - Intersection of Malta and Shawnigan Lake Road
2. Distribution Site 2 - 1495 Shawnigan Mill Bay Road
3. Distribution Site 3 - Ernest Place
4. Distribution Site 4 - 2709 Courtenay Way
5. Distribution Site 5 - Galland Road Pump House

3.1.2 Chemical Sampling

Chemical analyses of untreated raw water shall be conducted in accordance with the list of parameters specified in the VIHA Guidelines for Approval of a Waterworks System at a frequency of no less than once every 3 years. Maximum acceptable concentrations must comply with the Guidelines for Canadian Drinking Water Quality.

3.1.3 Protozoa Sampling

Two Microscopic Particulate Analysis and/or Giardia lamblia cysts and Cryptosporidium oocysts samples shall be collected every six months from the raw water intake and at a sampling port immediately following the UV units. One shall be collected, each from wet and dry seasons (with climate data attached). Samples are to be analyzed by an accredited lab under the ISO/IEC 17025 Standard.

3.1.4 Disinfection By-Products

Disinfection by-product monitoring samples for trihalomethane (THM) and haloacetic acid (HAA) levels shall be collected quarterly from the point in the water supply system with the highest potential THM and HAA concentration.

Date: February 11, 2025

Issued By: _____


Environmental Health Officer

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WATER SYSTEM OPERATING CONDITIONS FOR

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Shawnigan Lake, BC V0R 2W0

3.1.5 Turbidity

An online continuous turbidity monitoring system shall be in place for raw intake water and of treated water from a sampling port immediately following the ultraviolet disinfection units.

3.1.6 Ultraviolet Disinfection Dose

The Trojan B08 ultraviolet light disinfection units, which are certified to the DVGW Standard, are certified to a minimum of 40 mJ/cm² at all times that water flow through them remains at or below 345 USgpm when UVT measures 92% or higher.

The operational parameters set for this treatment plant ensure the maximum flow rate to each ultraviolet light disinfection unit is 115 USgpm, or 230 USgpm with both ultraviolet light disinfection units operating. The minimum acceptable UVT is 81%. The minimum acceptable UVI is 19.0 W/m². Water flow through these ultraviolet light disinfection units are subject to these operational parameters to achieve the attributed log removal credits.

3.1.7 CT Value

The water supply system owner shall determine the CT value on a weekly basis where CT is the product of C and T, where C, represents the residual disinfectant concentration in mg/L and T, represents the contact time in minutes.

Once per week, at maximum hourly flow, the water supply system owner shall monitor the temperature of the disinfected water, the residual disinfectant concentration, C, and the pH at the sampling point. The sampling point should be located before or at the first customer. Also at the peak hourly flow, the water supply system owner shall measure the contact time, T, based on the time of travel that the water takes to reach the first customer from the disinfection point. The contact time, T, will be based on the travel time within the pipelines and retention time in the reservoir.

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Virus reduction will be based on the CT tables listed in the document "Guidelines for Canadian Drinking Water Quality: Guideline Technical Document - Enteric Viruses", Water, Air and Climate Change Bureau, Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario. (Catalogue No H129-6/2011E), 2011.

4. Operators

Provide an operator with training acceptable to the Drinking Water Officer to operate the water supply system at all times.

Date: February 11, 2025

Issued By: _____


Environmental Health Officer

SHAWNIGAN VILLAGE WATER SYSTEM

Facility Information

Location 175 Ingram Street Duncan
 Type 301 - 10,0000 Connections

Facility Sampling History

Pre-CVRD Takeover

Location	Date	Total Coliform	E. Coli/Enterococci
Site #1 Malta and Shawnigan Lake Road	16-Dec-2024	LT1	LT1
Site #5 2441 Galland Road Pump House	16-Dec-2024	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	09-Dec-2024	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	09-Dec-2024	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	25-Nov-2024	LT1	LT1
Site #5 2441 Galland Road Pump House	25-Nov-2024	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	18-Nov-2024	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	18-Nov-2024	LT1	LT1
Site #4 2709 Courtenay Way	12-Nov-2024	QRWRT	QRWRT
Site #5 2441 Galland Road Pump House	12-Nov-2024	QRWRT	QRWRT
Site #2 1495 Shawnigan Mill Bay Road	05-Nov-2024	LT1	LT1
Site #3 2620 Ernest Place	05-Nov-2024	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	28-Oct-2024	LT1	LT1
Site #3 2620 Ernest Place	28-Oct-2024	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	23-Oct-2024	LT1	LT1
Site #5 2441 Galland Road Pump House	23-Oct-2024	LT1	LT1
Site #3 2620 Ernest Place	15-Oct-2024	LT1	LT1
Site #4 2709 Courtenay Way	15-Oct-2024	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	09-Oct-2024	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	09-Oct-2024	LT1	LT1
Site #4 2709 Courtenay Way	01-Oct-2024	LT1	LT1
Site #5 2441 Galland Road Pump House	01-Oct-2024	LT1	LT1
Site #3 2620 Ernest Place	25-Sep-2024	LT1	LT1
Site #4 2709 Courtenay Way	25-Sep-2024	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	17-Sep-24	LT1	LT1
Site #5 2441 Galland Road Pump House	17-Sep-24	LT1	LT1
Site #3 2620 Ernest Place	09-Sep-24	LT1	LT1
Site #4 2709 Courtenay Way	09-Sep-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	03-Sep-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	03-Sep-24	LT1	LT1
Site #3 2620 Ernest Place	26-Aug-24	LT1	LT1
Site #4 2709 Courtenay Way	26-Aug-24	LT1	LT1
Site #5 2441 Galland Road Pump House	26-Aug-24	2	LT1
Site #2 1495 Shawnigan Mill Bay Road	19-Aug-24	LT1	LT1
Site #3 2620 Ernest Place	19-Aug-24	5	LT1
Site #1 Malta and Shawnigan Lake Road	12-Aug-24	LT1	LT1
Site #5 2441 Galland Road Pump House	12-Aug-24	LT1	LT1
Site #3 2620 Ernest Place	06-Aug-24	LT1	LT1
Site #4 2709 Courtenay Way	06-Aug-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	29-Jul-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	29-Jul-24	LT1	LT1
Site #4 2709 Courtenay Way	23-Jul-24	LT1	LT1
Site #5 2441 Galland Road Pump House	23-Jul-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	16-Jul-24	LT1	LT1

SHAWNIGAN VILLAGE WATER SYSTEM

Facility Information

Location 175 Ingram Street Duncan
Type 301 - 10,000 Connections

Facility Sampling History

Pre-CVRD Takeover

Location	Date	Total Coliform	E. Coli/Enterococci
Site #3 2620 Ernest Place	16-Jul-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	08-Jul-24	LT1	LT1
Site #5 2441 Galland Road Pump House	08-Jul-24	LT1	LT1
Site #3 2620 Ernest Place	03-Jul-24	LT1	LT1
Site #4 2709 Courtenay Way	03-Jul-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	26-Jun-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	26-Jun-24	LT1	LT1
Site #4 2709 Courtenay Way	17-Jun-24	QRWRT	QRWRT
Site #5 2441 Galland Road Pump House	17-Jun-24	QRWRT	QRWRT
Site #2 1495 Shawnigan Mill Bay Road	10-Jun-24	LT1	LT1
Site #3 2620 Ernest Place	10-Jun-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	04-Jun-24	LT1	LT1
Site #5 2441 Galland Road Pump House	04-Jun-24	LT1	LT1
Site #3 2620 Ernest Place	28-May-24	LT1	LT1
Site #4 2709 Courtenay Way	28-May-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	22-May-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	22-May-24	LT1	LT1
Site #4 2709 Courtenay Way	15-May-24	LT1	LT1
Site #5 2441 Galland Road Pump House	15-May-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	08-May-24	LT1	LT1
Site #3 2620 Ernest Place	08-May-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	29-Apr-24	LT1	LT1
Site #5 2441 Galland Road Pump House	29-Apr-24	LT1	LT1
Site #3 2620 Ernest Place	24-Apr-24	LT1	LT1
Site #4 2709 Courtenay Way	24-Apr-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	16-Apr-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	16-Apr-24	LT1	LT1
Site #4 2709 Courtenay Way	09-Apr-24	LT1	LT1
Site #5 2441 Galland Road Pump House	09-Apr-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	03-Apr-24	LT1	LT1
Site #3 2620 Ernest Place	03-Apr-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	27-Mar-24	LT1	LT1
Site #5 2441 Galland Road Pump House	27-Mar-24	LT1	LT1
Site #3 2620 Ernest Place	18-Mar-24	LT1	LT1
Site #4 2709 Courtenay Way	18-Mar-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	13-Mar-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	13-Mar-24	LT1	LT1
Site #4 2709 Courtenay Way	06-Mar-24	LT1	LT1
Site #5 2441 Galland Road Pump House	06-Mar-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	26-Feb-24	LT1	LT1
Site #3 2620 Ernest Place	26-Feb-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	20-Feb-24	LT1	LT1
Site #5 2441 Galland Road Pump House	20-Feb-24	LT1	LT1
Site #3 2620 Ernest Place	14-Feb-24	LT1	LT1

SHAWNIGAN VILLAGE WATER SYSTEM

Facility Information

Location 175 Ingram Street Duncan
Type 301 - 10,000 Connections

Facility Sampling History

Pre-CVRD Takeover

Location	Date	Total Coliform	E. Coli/Enterococci
Site #4 2709 Courtenay Way	14-Feb-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	05-Feb-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	05-Feb-24	LT1	LT1
Site #4 2709 Courtenay Way	29-Jan-24	LT1	LT1
Site #5 2441 Galland Road Pump House	29-Jan-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	23-Jan-24	LT1	LT1
Site #3 2620 Ernest Place	23-Jan-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	15-Jan-24	LT1	LT1
Site #5 2441 Galland Road Pump House	15-Jan-24	LT1	LT1
Site #3 2620 Ernest Place	09-Jan-24	LT1	LT1
Site #4 2709 Courtenay Way	09-Jan-24	LT1	LT1
Site #1 Malta and Shawnigan Lake Road	02-Jan-24	LT1	LT1
Site #2 1495 Shawnigan Mill Bay Road	02-Jan-24	LT1	LT1

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

01Mar24 12: 9p
Parasite
filter(s)
3

W179238

TEL: (250) 746-2530
group

Arrival temp.: 12.0C

PARASITE ANALYSIS

<u>Sample</u>	<u>Cysts/100L</u>	<u>Organisms Identified</u>	<u>Comments</u>
1 MBW Well 4 29Feb24 09:30 115gal @3.5gpm	ND ND	Giardia (cysts) Cryptosporidium (oocysts)	-protozoan; enteric parasite -protozoan; enteric parasite
2 ShwngnVllgWW Source 29Feb24 11:48 123gal @3.5gpm	ND ND	Giardia (cysts) Cryptosporidium (oocysts)	-protozoan; enteric parasite -protozoan; enteric parasite
3 ShwngnVllgWW Post T 29Feb24 12:45 120gal	ND ND	Giardia (cysts) Cryptosporidium (oocysts)	-protozoan; enteric parasite -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 etal. Am. Soc for Microbiology

Clinical Diagnosis by Laboratory Methods, Davidson & Henry

Veterinary Clinical Parasitology, MW Sloss, RL Kemp. Iowa State Univ. Press 5th ed.

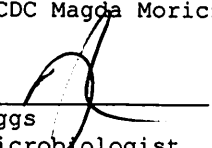
Parasitology for Veterinarians, JR Georgi & ME Georgi. WB Saunders & Co, 1990

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

Lidstech Holdings
2681 Decca Rd
Shawnigan Lake, BC
VOR 2W1

Date: 22Apr24 3:33p
Source: FWS
Type of Sample: Water
No. of Samples: 1

W180121

Tel: (250) 480-9156
Email: lidstech@shaw.ca

Arrival Temp: 7.0C
Pd B1167 2204L

Sample: 1) Pump house 22Apr24 11:30

Haloacetic Acids

	Sample 3	Lab Blank	MAC*
Compounds	(ug/L)	(ug/L)	(ug/L)
Bromochloro Acetic Acid	<0.100	ND	
Dibromo Acetic Acid	<0.100	ND	
Dichloro Acetic Acid	14.2	ND	
Monobromo Acetic Acid	<0.100	ND	
Monochloro Acetic Acid	<0.100	ND	
Trichloro Acetic Acid	11.3	ND	
TOTAL HAA'S	25.5		80.0
Surrogate Recovery (%)			
2,3 Dichloropropionic Acid	107		

Trihalomethanes (THMS)

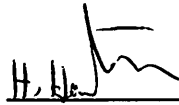
	Sample 3	Lab Blank	MAC*
Compounds	(ug/L)	(ug/L)	(ug/L)
Bromodichloromethane	0.780	ND	16
Bromoform	<0.100	ND	
Chloroform	63.4	ND	
Dibromochloromethane	<0.100	ND	
Total THMS	64.2		100
Surrogate Recovery (%)			
Bromofluorobenzene	103		
Toluene-D8	104		

ug/L = ppb = micrograms per litre

MAC = Maximum acceptable concentration

*As per Canadian or B.C. Health Act Safe Drinking Water Regulation BC Reg 230/92,
CDG 2019 ref document: www.bclaws.ca/civix/document/id/complete/statreg/375_96_08

R. Bilodeau
Analytical Chemist



H. Hartmann
Sr. Analytical Chemist

MB LABORATORIES LTD

PO Box 2103, Sidney BC V8L 3S6 T:250 656-1334 E: info@mblabs.com W: mblabs.com

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Lidstech Holdings
2681 Decca Rd
Shawnigan Lake, BC
VOR 2W1

Date: 22Apr24 3:33p
Source: FWS
Type of Sample: Water
No. of Samples: 1

W180121

Tel: (250) 480-9156
Email: lidstech@shaw.ca

Arrival Temp: 7.0C
Pd B1167 2204L

Sample: 1) Pump house 22Apr24 11:30

Haloacetic Acids

	Sample 3	Lab Blank	MAC*
Compounds	(ug/L)	(ug/L)	(ug/L)
Bromochloro Acetic Acid	<0.100	ND	
Dibromo Acetic Acid	<0.100	ND	
Dichloro Acetic Acid	14.2	ND	
Monobromo Acetic Acid	<0.100	ND	
Monochloro Acetic Acid	<0.100	ND	
Trichloro Acetic Acid	11.3	ND	
TOTAL HAA'S	25.5		80.0
Surrogate Recovery (%)			
2,3 Dichloropropionic Acid	107		

Trihalomethanes (THMS)

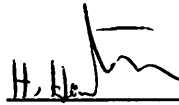
	Sample 3	Lab Blank	MAC*
Compounds	(ug/L)	(ug/L)	(ug/L)
Bromodichloromethane	0.780	ND	16
Bromoform	<0.100	ND	
Chloroform	63.4	ND	
Dibromochloromethane	<0.100	ND	
Total THMS	64.2		100
Surrogate Recovery (%)			
Bromofluorobenzene	103		
Toluene-D8	104		

ug/L = ppb = micrograms per litre

MAC = Maximum acceptable concentration

*As per Canadian or B.C. Health Act Safe Drinking Water Regulation BC Reg 230/92,
CDG 2019 ref document: www.bclaws.ca/civix/document/id/complete/statreg/375_96_08

R. Bilodeau
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H. Hartmann
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