

DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, 2024 (year)

Water System Pirates Cove

Water System Owner BC Parks

Primary Contact Name (Operator or Manager) Fred King

Phone Number (Operator or Manager) 250 539-2115

E-mail (Operator or Manager) k2parks@shaw.ca

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) Contractor - K2 Park Services

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):

EOCP credits current

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? 23

What is the minimum required sampling frequency for this system? (#samples/month) 2/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?

V.I.H.A. web site

WATER QUALITY STANDARDS FOR POTABLE WATER

<i>Parameter:</i>	<i>Standard:</i>	<i>Did this system meet standard?</i>	
Escherichia coli (for all samples)	No detectable <i>Escherichia coli</i> per 100ml	<input checked="" 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 checked="" 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) 2023 Don't know

If yes, attach a list of the chemical results *see attached documentation

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) 2028

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
March/2020	hand pump drainage plugged	tried clearing drain, unsuccessful, water drains slowly from pump area into the ground

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	system flushing at start up. Shock treatment using chlorine bleach.
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
Hand pump drain plugged - possibly needs to be re-dug	TBA

<p>November 15, 2024 DATE COMPLETED:</p>	<p>Debbie King COMPLETED BY:</p>
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K2 Park Services Ltd. (BC Parks)
 *B Fred or Debbie King
 Site 3, Comp 9
 Galiano Island, BC
 VON 1P0

26Apr23 2:39p
 Well
 water
 1

W173998

TEL: {887} 559-2115
 k2parks@shaw.ca

Arrival temp.: 4.0C
 PD B1116B 2604L

Sample: Pirates Cove Park 25Apr23 11:00

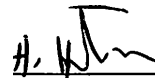
<u>ELEMENTS</u>		<u>SAMPLE</u>	<u>UNITS</u>	<u>Maximum Limits In Drinking Water*</u>
1) Aluminum	Al	0.196	mg/L	no limit listed
2) Antimony	Sb	<0.500	ug/L	6.00 ug/L
3) Arsenic	As	<0.500	ug/L	10.0 ug/L
4) Barium	Ba	<0.009	mg/L	2.00 mg/L
5) Beryllium	Be	<0.003	mg/L	no limit listed
6) Boron	B	1.62	mg/L	5.00 mg/L
7) Cadmium	Cd	<0.010	ug/L	7.00 ug/L
8) Calcium	Ca	7.97	mg/L	200 mg/L
9) Chromium	Cr	<0.003	mg/L	0.050 mg/L
10) Cobalt	Co	<0.005	mg/L	no limit listed
11) Copper	Cu	0.057	mg/L	1.00 mg/L
12) Gold	Au	<0.040	mg/L	no limit listed
13) Iron	Fe	0.034	mg/L	0.300 mg/L
14) Lanthanum	La	<0.020	mg/L	no limit listed
15) Lead	Pb	<0.500	ug/L	5.00 ug/L
16) Magnesium	Mg	1.32	mg/L	50.0 mg/L
17) Manganese	Mn	<0.004	mg/L	0.120 MAC 0.020 AO
18) Mercury	Hg	<0.010	ug/L	1.00 ug/L
19) Molybdenum	Mo	<0.005	mg/L	no limit listed
20) Nickel	Ni	<0.004	mg/L	no limit listed
21) Phosphorus	P	0.029	mg/L	no limit listed
22) Potassium	K	0.410	mg/L	no limit listed
23) Scandium	Sc	<0.050	mg/L	no limit listed
24) Selenium	Se	<0.500	ug/L	5.0 ug/L
25) Silicon	Si	5.17	mg/L	no limit listed
26) Silver	Ag	<0.010	mg/L	no limit listed
27) Sodium	Na	161	mg/L	200 mg/L
28) Strontium	Sr	0.080	mg/L	no limit listed
29) Tin	Sn	<0.020	mg/L	no limit listed
30) Titanium	Ti	<0.010	mg/L	no limit listed
31) Tungsten	W	<0.050	mg/L	no limit listed
32) Vanadium	V	<0.010	mg/L	no limit listed
33) Zinc	Zn	0.106	mg/L	5.00 mg/L
Hardness {mg/L CaCO ₃ }		25.3	mg/L	0-75 mg/L = soft
pH		7.77	units	7.0 to 10.5

*Asper Canadian or B.C. Health Act Safe Drinking Water Regulation BC Reg 230/92,
 & 390 Sch 120, 2001. Task Force of the Canadian Council of Resource and
 Environment Ministers - Guidelines for Canadian Drinking Water Quality, 2020.

Comments:

All constituents tested meet Canadian and B.C. drinking water standards.

 R. Bilodeau
 Analytical Chemist


 H. Hartmann
 Sr. Analytical Chemist

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