

**DRINKING WATER SYSTEM ANNUAL REPORT**

**Reporting Period:** January 1<sup>st</sup> to December 31<sup>st</sup>, 2024 (year)

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**Water System** Gordon Bay - Campground

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**Water System Owner** BC Parks

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**Primary Contact Name** (Operator or Manager) Fred King

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**Phone Number** (Operator or Manager) 250 539-0161

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

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**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)      V.I.H.A web site



**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?* 8

*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, <b>and</b> 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

**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 - attached.*

*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)** 2029

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	system flushing, chlorination shock treatment, replace carbon filters, uv bulbs.
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

<p><b>November 15, 2024</b> 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

TEL: (877) 559-2115  
k2parks@shaw.ca

28Mar24 9:11a W179704  
Source: FWS  
Type of Sample: Water  
No. of Samples: 1  
Arrival temp.: 6.3C  
Pd B1163B 2803A

Sample: Gordon Bay Park

<u>Site Code</u>	<u>Date</u>	<u>Time</u>	CFU/100 ml		CFU/100 ml		CFU/100 mL
			TC_____	T-NC	FC_____	F-NC	<u>E.coli</u>
1 Gordon Bay	27Mar24	14:30	0	0	0	0	0

WATER DISTRICT SCREEN

<u>Sample</u>	<u>Date</u>	<u>Time</u>	Lactose	Coliforms			Total
			<u>Fermentors</u>	<u>Total</u>	<u>Fecal</u>	<u>E.coli</u>	<u>Aeromonas</u>
1 Gordon Bay	27Mar24	14:30	ND	ND	ND	ND	ND

<u>Sample</u>	<u>Date</u>	<u>Time</u>	Sulfur Reducing/	Yeast/Fungi	TPC *
			<u>Iron Bacteria</u>		
1 Gordon Bay	27Mar24	14:30	ND / ND	ND / ND	1.74

\* All counts are colony forming units per milli-litre

TC = total coliform bacteria    FC = fecal coliform bacteria (aka Thermotolerant Coliforms)  
NC = non-coliform bacteria    ND = none detected  
TPC = total plate count- spread plate method - 35C/48hr TGEA FDA/BAM 9th ed, Oct 2020  
CFU = colony forming units

Results may be adversely affected if samples are submitted to the laboratory more than 24 to 30 hours after collection.

E. coli = Escherichia coli, FDA/BAM 9th ed, Oct 2020  
Bergy's Manual of Systematic Bacteriology vol 1, AOAC 1984; J.Clin.Micro.,  
J.Intern.System.Bact.

- See following page for chemistry results -

  
W. Riggs  
Sr. Microbiologist

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EMAILED  
APR 02 2024  
35316

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TEL: (877) 559-2115  
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28Mar24 9:11a  
 Source: FWS  
 Type of Sample: Water  
 No. of Samples: 1

W179704 pg2


Arrival temp.: 6.3C  
 Pd B1163B 2803A

Sample: Gordon Bay Park 27Mar24 14:30

<u>ELEMENTS</u>		<u>SAMPLE</u>	<u>UNITS</u>	<u>Maximum Limits In Drinking Water*</u>
1) Aluminium	Al	0.496	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	0.550	mg/L	5.00 mg/L
7) Cadmium	Cd	<0.010	ug/L	7.00 ug/L
8) Calcium	Ca	4.55	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	0.029	mg/L	1.00 mg/L
12) Gold	Au	<0.040	mg/L	no limit listed
13) Iron	Fe	0.047	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	0.750	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	<0.010	mg/L	no limit listed
22) Potassium	K	0.140	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	2.99	mg/L	no limit listed
26) Silver	Ag	<0.010	mg/L	no limit listed
27) Sodium	Na	1.70	mg/L	200 mg/L
28) Strontium	Sr	0.010	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	0.009	mg/L	5.00 mg/L
Hardness (mg/L CaCO <sub>3</sub> )		14.4	mg/L	0-75 mg/L = soft
pH		7.26	units	7.0 to 10.5

\* As per 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.

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 R. Bilodeau  
 Analytical Chemist

  
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 H. Hartmann  
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28Mar24 9:11a  
 Source: FWS  
 Type of Sample: Water  
 No. of Samples: 1

W179704 pg3

Arrival temp.: 6.3C  
 Pd B1163B 2803A

Sample: Gordon Bay Park

SAMPLE	DATE	TIME	Alkalinity (mg/L)	NH <sub>3</sub> -N (ug/L)	Cl <sup>-</sup> (mg/L)	Colour (TCU)	E.C. (uS/cm)
1 Gordon Bay	27Mar24	14:30	55.0	ND	ND	0.680	41.0
Lab Blank			ND	ND	ND	ND	ND
So			0.100	0.254	0.015	0.300	0.300
REF. VALUE			100	10.0	10.0	5.00	147
STD ± 2SD			96.1 ± 5.65	9.68 ± 0.688	9.88 ± 0.659	4.87 ± 3.78	142 ± 12.2


SAMPLE	DATE	TIME	CORROSIVITY (Is @20C)	F <sup>-</sup> (mg/L)	S <sup>2-</sup> (ug/L)	TKN (mg/L)	NO <sub>3</sub> -N (ug/L)
1 Gordon Bay	27Mar24	14:30	-1.13	ND	ND	ND	43.1
Lab Blank				ND	ND	ND	ND
So				0.007	0.007 mg/L	0.012	0.160
REF. VALUE				1.00	50.0	1.00	10.0
STD ± 2SD				0.966 ± 0.078	48.2 ± 0.412	0.981 ± 0.059	10.7 ± 0.599

SAMPLE	DATE	TIME	NO <sub>2</sub> -N (ug/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)	T.O.C. (mg/L)	T&L (mg/L)	TDS (mg/L)
1 Gordon Bay	27Mar24	14:30	ND	1.50	18.8	0.016	23.8
Lab Blank			ND	ND	ND	ND	ND
So			0.300	0.075	0.300	0.070	0.010
REF. VALUE			10.0	10.0	10.0	1.00	20.0
STD ± 2SD			9.55 ± 5.88	9.88 ± 0.640	9.81 ± 0.750	1.07 ± 0.056	19.5 ± 1.22

SAMPLE	DATE	TIME	Turbidity (NTU)	UVT (%)
1 Gordon Bay	27Mar24	14:30	0.160	96.0
Lab Blank			ND	ND
So			0.015	0.003
REF. VALUE			0.500	90.0
STD ± 2SD			0.540 ± 0.044	90.1 ± 0.02

SD = standard deviation; REF VALUE = primary or secondary reference material  
 STD = secondary standard calibrated to primary standard reference material  
 S<sub>0</sub> = standard deviation at zero analyte concentration; method detection limit  
 is generally considered to be 3x S<sub>0</sub> value  
 ND = none detected n/a = not applicable

R. Bilodeau  
 Analytical Chemist

  
 H. Hartmann  
 Sr. Analytical Chemist

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