

DRINKING WATER SYSTEM ANNUAL REPORT			
Reporting Period:	January 1 st to Decem	ber 31 st , (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 Prima	ary Disinfection?	Yes	□No
Chlorination Ultraviolet Light	Ozone	Other	
If other, specify details:			
Does the Drinking Water System have Secon	ndary Disinfection?	Yes	□No
Chlorination Other			
If other, specify details:			
Does the Drinking Water System have Filtra	tion?	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 (E			
Is your ERCP up to Date?	Yes	No	
How do you Inform the System Users of the			
☐ Hand Delivered ☐ Bulletin Board	Newspaper	Utility Bill Insert	Website
Other (specify details)			
Drinking Water System Annual Report	4		
How do you Inform the System Users of the	_		
Hand Delivered Bulletin Board	Newspaper	Utility Bill Insert	Website
Other (specify details)			



	MIT			
ist the conditions of your Ope	rating Permit (Contact the DW	O for a copy	if needed):	
Are you in compliance with yo	ur Operating Permit?	Ye	S	No
BACTERIOLOGICAL TESTING AND DR	INKING WATER PROTECTION REGUI	LATION WATER	Quality Stan	DARDS
How many bacteriological san	nples were collected during thi	s reporting p	eriod?	
What is the minimum required	I sampling frequency for this sy	ystem? (#san	nples/month)	
Additional campling details:				
Additional Sampling details.			S	□No
<u> </u>	mpling frequency achieved?	∐Ye		
Was the minimum required sa	mpling frequency achieved?	Ye		
Was the minimum required sa Comments: Bacteriological summary attac	ched to this report?	Ye		□No
Was the minimum required sa Comments: Bacteriological summary attac If no, how do the users of the s	thed to this report? System view the results?			□No
Was the minimum required sa Comments: Bacteriological summary attac If no, how do the users of the s WATER QUALITY STANDARDS FOR F	thed to this report? System view the results?		S	□No stem meet standard?
Was the minimum required sa Comments: Bacteriological summary attack If no, how do the users of the sa WATER QUALITY STANDARDS FOR F Parameter: Escherichia coli (for all samples)	ched to this report? System view the results? POTABLE WATER	Ye	S	
Additional sampling details: Was the minimum required sa Comments: Bacteriological summary attack If no, how do the users of the sa WATER QUALITY STANDARDS FOR F Parameter: Escherichia coli (for all samples) Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	ched to this report? System view the results? POTABLE WATER Standard:	Ye	Did this sys	stem meet standard?
Was the minimum required sa Comments: Bacteriological summary attack If no, how do the users of the sa WATER QUALITY STANDARDS FOR F Parameter: Escherichia coli (for all samples) Total Coliform Bacteria (if only 1 sample collected in a 30 day period) Total Coliform Bacteria (if more than 1 sample collected in a	Ched to this report? System view the results? POTABLE WATER Standard: No detectable Escherichia coli per 1 No detectable total coliform bacteri No more than 10% of samples contacoliform bacteria, and No sample ha	O0ml a per 100ml ain total as more than	Did this sys	stem meet standard?
Was the minimum required sa Comments: Bacteriological summary attack If no, how do the users of the sa WATER QUALITY STANDARDS FOR F Parameter: Escherichia coli (for all samples) Total Coliform Bacteria (if only 1 sample collected in a 30 day period) Total Coliform Bacteria (if more than 1 sample collected in a 30 day period) If the system did not meet any	Ched to this report? System view the results? POTABLE WATER Standard: No detectable Escherichia coli per 1 No detectable total coliform bacteri No more than 10% of samples contacoliform bacteria, and No sample had 10 total coliform bacteria per 100m Tof above Drinking Water Protes	O0ml a per 100ml ain total as more than	Did this sys	stem meet standard? No No
Was the minimum required san Comments: Bacteriological summary attack If no, how do the users of the san WATER QUALITY STANDARDS FOR F Parameter: Escherichia coli (for all samples) Total Coliform Bacteria (if only 1 sample collected in a 30 day period) Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	Ched to this report? System view the results? POTABLE WATER Standard: No detectable Escherichia coli per 1 No detectable total coliform bacteri No more than 10% of samples contacoliform bacteria, and No sample had 10 total coliform bacteria per 100m Tof above Drinking Water Protes	O0ml a per 100ml ain total as more than	Did this sys	stem meet standard? No No



Was any cher						
	nıcaı sampııng (conducted durir	ng reporting period	?	⁄es	□No
If no, when w	ere the last che	mical samples o	conducted for this s	ystem? (date)		Don't know
If yes, attach	a list of the che	mical results				
	•	meet the Guide tional sheets if I	elines for Canadian necessary.	Drinking Water Qu	ality, record	the results in
Next schedule	ed full chemical	<i>test (</i> date)				
Parameter	Result	Corrective A	ction / Treatment /	' Comments		
Additional Tes	STING					
Does the syste	em have analyz	ers for continuo	ous monitoring?	Yes		No
If yes, check a	ll boxes that ap	oply:				
Chlorine	Tur	bidity	Other (details)			
Are the result	s available on r	request?				
If any addition sheets if nece	_	ampling was co	nducted, record res	ults in the table be	low; attach d	additional
sheets if nece	_		nducted, record res		low; attach d	additional
sheets if nece	ssary.				low; attach d	additional
sheets if nece	ssary.				low; attach d	additional
sheets if nece	ssary.				low; attach d	additional
sheets if nece	ssary.				low; attach d	additional
sheets if nece	ssary.				low; attach d	additional
Additional Te	ssary. sting & Reason	for Sampling y complaints in	Corrective Action			additional
WATER QUALIT Were there ar period? (e.g. 1)	y COMPLAINTS ny water quality taste, odour, co	for Sampling y complaints in lour etc.)	Corrective Action	n Taken		
WATER QUALIT Were there are period? (e.g. 1)	y COMPLAINTS ny water quality taste, odour, co	for Sampling y complaints in lour etc.)	this reporting	n Taken		
WATER QUALIT Were there are period? (e.g. to lif yes, comple	Y COMPLAINTS ny water quality taste, odour, co	for Sampling y complaints in lour etc.)	this reporting	Taken Yes		
WATER QUALIT Were there as period? (e.g. to lif yes, comple	Y COMPLAINTS ny water quality taste, odour, co	for Sampling y complaints in lour etc.)	this reporting	Taken Yes		



OPERATIONAL PR	OBLEMS					
period? (e.g. in	y operational problen sufficient water supp uipment, line breaks,	ly, malfunctio	on of		∐Yes	s
If yes, complete	e the table below; att	ach addition	al sheet:	s if necess	ary.	
Incident Date	Type of Operational	Problem	Correc	tive Actio	on Taken	n
Major Upgrade	ES/REPAIRS & EXPENSES					
	y major upgrades/rep g this reporting period	-	ajor cos	its	∐Yes	s No
If yes, complete	e the table below; att	ach addition	al sheet:	s if necess	ary.	
Major Upgrade	es/Expenses	Details				
Improvements	required by DWO					
Additions/chan	iges to system					
Purchase or ins	tall new equipment					
Equipment rep	air or replacement					
Annual mainter	nance of system					
Specialist repor	rt					
Other						
FUTURE IMPROVE	EMENTS					<u></u>
Are there any p	olans for future impro	vements?			Yes	S No
If yes, complete	e the table below; att	ach addition	al sheet:	s if necess	ary.	
Future Upgrad	es or Improvements					Estimated Date of Completion
Click here to				COMPLETEI	n Rv•	
DATE CONTPLETED	J.			CONTRE	וט כ.	

Facility Sampling History

Ralph River Campground

Location	Date	Total Coliform	E. Coli
Well #1, Well Plate #14046, Well #1, Well Plate #14046	24-Sep-2019	L1	L1
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	24-Sep-2019	L1	L1
Well #3, Well Plate #14043, Well #3, Well Plate #14043	24-Sep-2019	L1	L1
Well #1, Well Plate #14046, Well #1, Well Plate #14046	11-Sep-2019	L1	L1
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	11-Sep-2019	L1	L1
Well #3, Well Plate #14043, Well #3, Well Plate #14043	11-Sep-2019	L1	L1
Well #1, Well Plate #14046, Well #1, Well Plate #14046	27-Aug-2019	L1	L1
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	27-Aug-2019	L1	L1
Well #3, Well Plate #14043, Well #3, Well Plate #14043	27-Aug-2019	L1	L1
Well #1, Well Plate #14046, Well #1, Well Plate #14046	13-Aug-2019	L1	L1
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	13-Aug-2019	L1	L1
Well #3, Well Plate #14043, Well #3, Well Plate #14043	13-Aug-2019	L1	L1
Well #1, Well Plate #14046, Well #1, Well Plate #14046	17-Jul-2019	0	0
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	17-Jul-2019	0	0
Well #3, Well Plate #14043, Well #3, Well Plate #14043	17-Jul-2019	0	0
Well #1, Well Plate #14046, Well #1, Well Plate #14046	9-Jul-2019	L1	L1
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	9-Jul-2019	L1	L1
Well #3, Well Plate #14043, Well #3, Well Plate #14043	9-Jul-2019	L1	L1
Well #1, Well Plate #14046, Well #1, Well Plate #14046	3-Jul-2019	L1	L1
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	3-Jul-2019	L1	L1
Well #3, Well Plate #14043, Well #3, Well Plate #14043	3-Jul-2019	L1	L1
Well #1, Well Plate #14046, Well #1, Well Plate #14046	18-Jun-2019	L1	L1
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	18-Jun-2019	L1	L1
Well #3, Well Plate #14043, Well #3, Well Plate #14043	18-Jun-2019	L1	L1
Well #1, Well Plate #14046, Well #1, Well Plate #14046	4-Jun-2019	L1	L1
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	4-Jun-2019	L1	L1
Well #3, Well Plate #14043, Well #3, Well Plate #14043	4-Jun-2019	L1	L1
Well #1, Well Plate #14046, Well #1, Well Plate #14046	27-May-2019	L1	L1
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	27-May-2019	L1	L1
Well #3, Well Plate #14043, Well #3, Well Plate #14043	27-May-2019	L1	L1

Well #3, Well Plate #14043, Well #3, Well Plate #14043	27-May-2019	L1	L1
Well #1, Well Plate #14046, Well #1, Well Plate #14046	7-May-2019	L1	L1
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	7-May-2019	L1	L1
Well #3, Well Plate #14043, Well #3, Well Plate #14043	7-May-2019	L1	L1
Well #1, Well Plate #14046, Well #1, Well Plate #14046	30-Apr-2019	L1	L1
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	30-Apr-2019	L1	L1
Well #3, Well Plate #14043, Well #3, Well Plate #14043	30-Apr-2019	L1	L1
Well #1, Well Plate #14046, Well #1, Well Plate #14046	10-Apr-2019	L1	L1
Well #2, Well Plate #14042, Well #2, Well Plate # 14042	10-Apr-2019	L1	L1
Well #3, Well Plate #14043, Well #3, Well Plate #14043	10-Apr-2019	L1	L1

Client/Code

43K Wilderness Solutions Box 550 Port McNeill, BC VON 2RO Date 18Jul19 3:00p Source Well Type of Sample water No. of Samples 7 No. W148625

TEL: 250-230-2087 ben@43k.ca Comments Arrival temp.: Pd Visa Batch 922

Sample: Strathcona Provincial Park - Well Heads

						CFU/1	.00 ml	CFU/10	00 ml	CFU/100 mL
	Si	te Code		Date	Time	TC	T-NC	FC	F-NC	E.coli
1	#1	Buttle Lake	14047	17Jul19	08:00a	35	5600	0	0	0
2	#2	Buttle Lake	14041	17Jul19	08:00a	0	800	0	0	0
4	#1	Ralph River	14046	17Jul19	09:30a	0	1800	0	0	0
5	#2	Ralph River	14042	17Jul19	09:45a	0	96	0	0	0
6	#3	Ralph River	14043	17Jul19	09:50a	0	40	0	0	0
7	#1	Driftwd Bay	14045	17Jul19	09:00a	0	3000	0	0	0
8	#1	Park HQ	14044	17Jul19	09:00a	0	2	0	0	0

WATER DISTRICT SCREEN

				Lactose	Coliforn	1S		Total	Sulfur Reducing	3/	
5	ample	Date	Time	Fermentors	Total	Fecal	E.coli	Aeromonas	<u>Iron Bacteria</u>	Yeast/Fungi	TPC*
1 #	1 Buttle Lake 14047	17Jul19	08:00a	56.0	0.35	ND	ND	2.0	ND / ND	ND / ND	512
2 #	2 Buttle Lake 14041	17Jul19	08:00a	8.00	ND	ND	ND	ND	ND / ND	ND / ND	976
4 #	1 Ralph River 14046	17Jul19	09:30a	18.0	ND	ND	ND	ND	ND / ND	ND / ND	288
5 #	2 Ralph River 14042	17Jul19	09:45a	0.96	ND	ND	ND	ND	ND / ND	ND / ND	80.0
6 #	3 Ralph River 14043	17Jul19	09:50a	0.40	ND	ND	ND	ND	ND / ND	ND / ND	240
7 #	1 Driftwd Bay 14045	17Jul19	09:00a	30.0	ND	ND	ND	ND	ND / ND	ND / ND	416
8 #	1 Park HQ 14044	17Jul19	09:00a	ND	ND	ND	ND	ND	ND / ND	ND / ND	64.0

* all counts are colony forming units per milli-litre

NC = non-coliform bacteria ND = none detected

TPC = total plate count- spread plate method - 35C/48hr TGEA FDA/BAM 8th ed, 1995 + Revision A, 1998, May 2009

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 8th ed, 1995 + Revision A, 1998

Bergy's Manual of Systematic Bacteriology vol 1, AOAC 1984; J.Clin.Micro.,

J.Intern.Systm.Bact.

- see following page for chemistry results -

K. Paneque-Martinez Microbiologist W. Riggs Sr. Microbiologist 43K Wilderness Solutions Box 550 Port McNeill, BC VON 2RO Date 18Jul19 3:00p Source Well Type of Sample water No. of Samples 7

No. W148625 pg2

TEL: 250-230-2087 ben@43k.ca

Comments Arrival temp.: Pd Visa Batch 922

Sample: Strathcona Provincial Park - Well Heads - 1) #1 Buttle Lake 14047 17Jul19 08:00a

2) #2 Buttle Lake 14041 17Jul19 08:00a 3) #1 Ralph River 14046 17Jul19 09:30a 4) #2 Ralph River 14042 17Jul19 09:45a

			1	2	3	4		Max.for Aqua	tic Life	Maximum
	ELEMENTS		SAMPLE	SAMPLE	SAMPLE	SAMPLE	UNITS	Freshwater	Marine	In Effluent **
1)	Aluminium	Al	2.02	0.192	0.213	0.214	mg/L	n/a	1.50	4.00
2)	Antimony	Sb	<0.500	<0.500	<0.500	<0.500	ug/L	n/a	200	5.00
3)	Arsenic	As	<0.500	<0.500	<0.500	<0.500	ug/L	5.00	12.5	250
4)	Barium	Ba	<0.009	<0.009	<0.009	<0.009	mg/L	n/a	1.00	1.00
5)	Beryllium	Be	<0.003	<0.003	(0.003	<0.003	mg/L	0.010	1.50	no limit listed
6)	Boron	В	0.678	0.588	0.665	0.723	mg/L	n/a	5.00	5.00
7)	Cadmium	Cd	<0.010	<0.010	<0.010	<0.010	ug/L	1.05-2.11	0.12	10.0
8)	Calcium	Ca	8.03	3.96	4.42	3.60	mg/L	n/a	n/a	no limit listed
9)	Chromium	Cr	<0.010	<0.010	<0.010	<0.010	mg/L	0.100	0.050	0.030
10)	Cobalt	Co	<0.020	<0.020	<0.020	<0.020	mg/L	1.32	n/a	0.500
11)	Copper	Cu	0.019	<0.008	0.029	0.009	mg/L	0.030-0.127	0.050	0.500
12)	Gold	Au	<0.040	<0.040	<0.040	<0.040	mg/L	n/a	n/a	no limit listed
13)	Iron	Fe	2.92	0.421	0.035	0.079	mg/L	1.00	0.300	1.00
14)	Lanthanum	La	<0.020	<0.020	<0.020	<0.020	mg/L	n/a	n/a	no limit listed
15)	Lead	Pb	<0.500	<0.500	(0.500	<0.500	ug/L	30.0	50.0	100
16)	Magnesium	Mg	2.05	0.710	0.420	0.330	mg/L	n/a	n/a	no limit listed
17)	Manganese	Mn	0.051	0.048	<0.004	<0.004	mg/L	n/a	0.100	0.050
18)	Mercury	Hg	<0.010	<0.010	<0.010	<0.010	ug/L	2.00	1.00	5.00
19)	Molybdenum	Mo	<0.020	<0.020	<0.020	<0.020	mg/L	n/a	n/a	0.500
20)	Nickel	Ni	<0.050	<0.050	<0.050	<0.050	mg/L	n/a	0.100	0.500
21)	Phosphorus	Р	0.063	<0.010	<0.010	<0.010	mg/L	n/a	0.050	1.50
	Potassium	K	0.470	0.120	0.200	0.140	mg/L	n/a	n/a	no limit listed
23)	Scandium	Sc	<0.050	<0.050	<0.050	<0.050	mg/L	n/a	n/a	no limit listed
24)	Selenium	Se	<0.500	<0.500	<0.500	<0.500	ug/L	10.0	10.0	100
25)	Silicon	Si	5.18	2.71	1.70	1.41	mg/L	n/a	n/a	no limit listed
26)	Silver	Ag	<0.010	<0.010	<0.010	<0.010	mg/L	0.010	0.005	1.00
27)	Sodium	Na	1.89	0.580	0.620	0.500	mg/L	n/a	n/a	no limit listed
28)	Strontium	Sr	0.010	<0.002	<0.002	<0.002	mg/L	75.0	n/a	no limit listed
29)	Tin	Sn	<0.020	<0.020	<0.020	<0.020	mg/L	n/a	n/a	no limit listed
30)	Titanium	Ti	0:093	<0.010	<0.010	<0.010	mg/L	n/a	n/a	no limit listed
31)	Tungsten	W	<0.050	<0.050	<0.050	<0.050	mg/L	n/a	n/a	no limit listed
	Vanadium	V	<0.010	<0.010	<0.010	<0.010	mg/L	n/a	10.0	no limit listed
	Zinc	Zn	0.065	0.038	0.048	0.017	mg/L	0.490-1.35	0.100	5.00
	dness (mg/L (CaCO3)	28.5	12.8	12.8	10.3	mg/L	0-75 mg/L =	soft	
рН			6.28	6.32	6.35	6.93	units	6.5-9.0	6.5-9.0	5.5-11.0

As per Canadian or B.C. limits Ministry of Environment - Water Quality Criteria, Report No. 80-9, 1980. Task Force of the Canadian Council of Resource & Envir. Min - Guidelines for Can. Drinking Water Quality, 1996. Ammend. Health Canada (2006) As per Canadian Environmental Quality Guidelines Summary Table. Updated Dec 2003 Chapter 4, Water: Aquatic Life. EPA-822-R-02-07 & US EPA 822/R-85-100 MTHO Eniv.134



H. Hartmann Sr.Analytical Chemist 43K Wilderness Solutions Box 550 Port McNeill, BC VON 2RO Date 18Jul19 3:00p Source Well Type of Sample water No. of Samples 7

No. W148625 pg3

TEL: 250-230-2087 ben@43k.ca

Comments Arrival temp.: Pd Visa Batch 922

Sample: Strathcona Provincial Park - Well Heads - 5) #3 Ralph River 14043 17Jul19 09:50a

6) #1 Driftwd Bay 14045 17Jul19 09:00a 7) #1 Park HQ 14044 17Jul19 09:00a

			5	6	7		Max.for Aqua	tic Life	Maximum
	ELEMENTS		SAMPLE	SAMPLE	SAMPLE	UNITS	Freshwater	Marine	In Effluent **
	Aluminium	Al	0.193	0.219	0.184	mg/L	n/a	1.50	4.00
	Antimony	Sb	<0.500	<0.500	0.819	ug/L	n/a	200	5.00
3)	Arsenic	As	<0.500	<0.500	<0.500	ug/L	5.00	12.5	250
4)	Barium	Ba	<0.009	<0.009	<0.009	mg/L	n/a	1.00	1.00
5)	Beryllium	Be	<0.003	<0.003	<0.003	mg/L	0.010	1.50	no limit listed
6)	Boron	В	0.643	0.677	0.626	mg/L	n/a	5.00	5.00
7)	Cadmium	Cd	<0.010	<0.010	<0.010	ug/L	1.05-2.11	0.12	10.0
8)	Calcium	Ca	5.79	28.9	5.38	mg/L	n/a	n/a	no limit listed
9)	Chromium	Cr	<0.010	<0.010	<0.010	mg/L	0.100	0.050	0.030
10)	Cobalt	Co	<0.020	<0.020	<0.020	mg/L	1.32	n/a	0.500
11)	Copper	Cu	0.023	0.013	0.190	mg/L	0.030-0.127	0.050	0.500
12)	Gold	Au	<0.040	<0.040	<0.040	mg/L	n/a	n/a	no limit listed
13)	Iron	Fe	0.282	0.753	0.096	mg/L	1.00	0.300	1.00
14)	Lanthanum	La	<0.020	<0.020	<0.020	mg/L	n/a	n/a	no limit listed
15)	Lead	Pb	0.743	0.792	3.04	ug/L	30.0	50.0	100
16)	Magnesium	Mg	0.590	7.02	1.13	mg/L	n/a	n/a	no limit listed
17)	Manganese	Mn	0.027	0.048	0.004	mg/L	n/a	0.100	0.050
18)	Mercury	Hg	<0.010	<0.010	<0.010	ug/L	2.00	1.00	5.00
19)	Molybdenum	Mo	<0.020	<0.020	<0.020	mg/L	n/a	n/a	0.500
20)	Nickel	Ni	<0.050	<0.050	<0.050	mg/L	n/a	0.100	0.500
21)	Phosphorus	Р	<0.010	0.014	<0.010	mg/L	n/a	0.050	1.50
22)	Potassium	K	0.160	0.350	0.160	mg/L	n/a	n/a	no limit listed
23)	Scandium	Sc	<0.050	<0.050	<0.050	mg/L	n/a	n/a	no limit listed
24)	Selenium	Se	<0.500	<0.500	<0.500	ug/L	10.0	10.0	100
25)	Silicon	Si	2.05	5.28	3.68	mg/L	n/a	n/a	no limit listed
26)	Silver	Ag	<0.010	<0.010	<0.010	mg/L	0.010	0.005	1.00
27)	Sodium	Na	0.730	3.29	1.00	mg/L	n/a	n/a	no limit listed
	Strontium	Sr	<0.002	0.030	0.010	mg/L	75.0	n/a	no limit listed
	Tin	Sn		<0.020	<0.020	mg/L	n/a	n/a	no limit listed
	Titanium	Ti	<0.010	<0.010	<0.010	mg/L	n/a	n/a	no limit listed
	Tungsten	W	<0.050	<0.050	<0.050	mg/L	n/a	n/a	no limit listed
	Vanadium	٧	<0.010	<0.010	<0.010	mg/L	n/a	10.0	no limit listed
1.5	Zinc	Zn	0.066	0.197	0.019	mg/L	0.490-1.35	0.100	5.00
	dness (mg/L		16.9	101	18.1	mg/L	0-75 mg/L =		
рН	3 W. F. C.	•	6.60	7.02	6.73	units	6.5-9.0	6.5-9.0	5.5-11.0

As per Canadian or B.C. limits Ministry of Environment - Water Quality Criteria,
Report No. 80-9, 1980. Task Force of the Canadian Council of Resource & Envir. Ministers
- Guidelines for Can. Drinking Water Quality, 1996. Ammend. Health Canada (2006)
As per Canadian Environmental Quality Guidelines Summary Table. Updated Dec 2003
Chapter 4, Water: Aquatic Life. EPA-822-R-02-07 & US EPA 822/R-85-100; WHO Eniv.134 1992



Client/Code

43K Wilderness Solutions Box 550 Port McNeill, BC VON 2RO Date 18Jul19 3:00p Source Well Type of Sample water No. of Samples 7 No. W148625 pg4

TEL: (250) 656-1334 EMAIL: info@mblabs.com

TEL: 250-230-2087 ben@43k.ca Comments Arrival temp.: Pd Visa Batch 922

Sample: Strathcona Provincial Park - Well Heads

		Latin	Alkalinity	NH3-N	Cl-	Colour	E.C.
SAMPLE	DATE	TIME	(mg/L)	(ug/L)	(mg/L)	(TCU)	(uS/cm)
1 #1 Buttle Lake 14047	17.11119	08 · 00a	45.0	ND	1.23	0.490	61.3
2 #2 Buttle Lake 14041			20.0	ND	0.680	0.870	36.6
3 #1 Ralph River 14046			25.0	ND	0.280	0.680	32.8
4 #2 Ralph River 14042			25.0	1.80	0.160	0.580	35.9
5 #3 Ralph River 14043			25.0	ND	0.820	1.15	41.3
6 #1 Driftwd Bay 14045			75.0	17.5	42.8	4.96	333
	17Jul19		30.0	ND	0.830	0.960	52.9
Lab Blank	1/0011/	V7.00a	ND	ND	ND	ND	ND
Lab blank			110	nv	no	No	110
So			0.100	0.254	0.015	0.300	0.300
DEE VALUE			200	20.0	1.00	5.00	147
REF. VALUE			200 199 + 11.9	20.0 + 1.45	0.988 + 0.089	4.99 ± 0.362	147 147 <u>+</u> 7.66
STD + 2SD			177 11.7	20.0 1.45	0.700 T 0.007	4.77 1 0.302	147 1 7.00
			CORROSIVITY	F-	52-	TKN	NO3-N
SAMPLE	DATE	TIME	(Is @20C)	(mg/L)	(ug/L)	(mg/L)	(ug/L)
1 #1 Buttle Lake 14047	17Jul19	08:00a	-2.55	ND	ND	ND	8.90
2 #2 Buttle Lake 14041			-3.17	ND	ND	ND	20.8
3 #1 Ralph River 14046			-2.99	ND	ND	ND	16.8
4 #2 Ralph River 14042			-2.50	ND	ND	0.002	20.9
5 #3 Ralph River 14043			-2.63	ND	ND	ND	28.5
6 #1 Driftwd Bay 14045			-1.03	ND	ND	0.018	97.8
7 #1 Park HQ 14044			-2.45	ND	ND	ND	31.1
Lab Blank				ND	ND	ND	ND
So				0.007 ug/L	0.007	0.012	0.160
REF. VALUE				1.00	50.0	0.100	20.0
STD + 2SD		9 5 - 3		0.992 ± 0.090	49.0 ± 4.33	0.100 ± 0.007	19.9 ± 1.48

...cont/

43K Wilderness Solutions Box 550 Port McNeill, BC VON 2RO Date 18Jul19 3:00p Source Well Type of Sample water No. of Samples 7 No. W148625 pg5

TEL: 250-230-2087 ben@43k.ca Comments Arrival temp.: Pd Visa Batch 922

Sample: Strathcona Provincial Park - Well Heads

	SAMPLE	DATE	TIME	NO ₂ -N (ug/L)	SO4 ²⁻ (mg/L)	T.O.C. (mg/L)	T&L (mg/L)	TDS (mg/L)
1	#1 Buttle Lake 14047	17Jul19	08:00a	9.80	3.19	3.35	ND	35.6
2	#2 Buttle Lake 14041	17Jul19	08:00a	3.60	1.10	0.860	ND	21.2
3	#1 Ralph River 14046	17Jul19	09:30a	5.00	1.23	1.34	ND	19.0
4	#2 Ralph River 14042	17Jul19	09:45a	22.1	1.06	0.500	ND	20.8
5	#3 Ralph River 14043	17Jul19	09:50a	11.9	1.33	ND	ND	24.0
6	#1 Driftwd Bay 14045	17Jul19	09:00a	3.60	1.20	0.500	0.440	193
7	#1 Park HQ 14044	17Jul19	09:00a	ND	1.13	ND	ND	30.7
	Lab Blank			ND	ND	ND	ND	ND
	So			0.300	0.075	0.300	0.070	0.700
	REF. VALUE			10.0	10.0	10.0	1.00	200
	STD ± 2SD			9.94 ± 0.686	10.4 ± 1.01	9.99 ± 0.714	0.999 ± 0.063	206 <u>†</u> 19.0

	SAMPLE		DATE	TIME	Turbidity (NTU)	UVT (%)
1	#1 Buttle Lake	14047	17.111119	08.00a	1,25	98.6
	#2 Buttle Lake				5.19	96.1
	#1 Ralph River					99.3
	#2 Ralph River					98.2
	#3 Ralph River				4.29	97.3
	#1 Driftwd Bay				27.7	89.3
	#1 Park HQ				0.980	98.4
	Lab Blank				ND	ND
	So				0.015	0.003
	REF. VALUE				0.500	90.0
	STD ± 2SD				0.505 ± 0.043	90.1 ± 0.02
	310 T 230				0.303 ± 0.043	70.1 T 0.0

SD = standard deviation

STD = secondary standard calibrated to primary standard reference material S_0 = standard deviation at zero analyte concentration; method detection limit

is generally considered to be 3x So value

ND = none detected n/a = not applicable

R. Bilodeau Analytical Chemist H. Hartmann

Sr.Analytical Chemist