

DRINKING WATER SYSTEM ANNUAL REPORT							
<b>Reporting Period:</b> January 1 <sup>st</sup> to December 31 <sup>st</sup> , (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 Prim	ary Disinfection?	Yes	No				
Chlorination Ultraviolet Light	Ozone	Other					
If other, specify details:							
Does the Drinking Water System have Seco	ndary Disinfection?	Yes	No				
Chlorination Other							
If other, specify details:							
Does the Drinking Water System have Filtro	ation?	Yes	□No				
Check all boxes that apply							
Cartridge Filter(s) Carbon Filter	Sand Filtration	Reverse Osmosis	Other				
If other, specify details:							
<u> </u>							
PUBLIC REPORTING							
Emergency Response & Contingency Plan (I	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)							
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)							



List the conditions of your Ope				
	erating Permit (Contact the DWO for a copy	y if needed):		
Are you in compliance with you	ur Operating Permit?	es	□No	
BACTERIOLOGICAL TESTING AND DR	RINKING WATER PROTECTION REGULATION WATER	R QUALITY STAN	DARDS	
How many bacteriological sam	nples were collected during this reporting p	period?		
What is the minimum required	l sampling frequency for this system? (#sar	mples/month)		
Additional sampling details:				
Was the minimum required sa	mpling frequency achieved?	es	□No	
Comments:				
Comments:  Bacteriological summary attac  If no, how do the users of the s	•	es	□No	
Bacteriological summary attac	system view the results?	es	□No	
Bacteriological summary attac	system view the results?		□No stem meet standard	1?
Bacteriological summary attact If no, how do the users of the s  WATER QUALITY STANDARDS FOR P  Parameter: Escherichia coli (for all samples)	System view the results? POTABLE WATER			1?
Bacteriological summary attack If no, how do the users of the s  WATER QUALITY STANDARDS FOR P  Parameter: Escherichia coli	POTABLE WATER  Standard:	Did this sys	stem meet standard	1?
Bacteriological summary attack If no, how do the users of the second of	POTABLE WATER  Standard:  No detectable Escherichia coli per 100ml	Did this sys	stem meet standard	1?
Bacteriological summary attace If no, how do the users of the services WATER QUALITY STANDARDS FOR Personal samples For all samples For all samples For all coliform Bacteria (if only 1 sample collected in a 30 day period) For all Coliform Bacteria (if more than 1 sample collected in a 30 day period)  If the system did not meet any	POTABLE WATER  Standard:  No detectable Escherichia coli per 100ml  No detectable total coliform bacteria per 100ml  No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml  Tof above Drinking Water Protection Regularity	Did this sys	stem meet standard  No  No	
Bacteriological summary attack If no, how do the users of the second of	POTABLE WATER  Standard:  No detectable Escherichia coli per 100ml  No detectable total coliform bacteria per 100ml  No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml  Tof above Drinking Water Protection Regularity	Did this sys	stem meet standard  No  No	



CHEMICAL SAME	CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD									
Was any chemical sampling conducted during reporting period?										
If no, when were the last chemical samples conducted for this system? (date)										
If yes, attach (	a list of the chen	nical 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 Ac	tion / Treatment	/ Comments						
Additional Tes	STING									
Does the syste	em have analyze	ers for continuo	us monitoring?	Yes	□No					
If yes, check a	ll boxes that app	oly:								
Chlorine	Turk	oidity	Other (details)							
Are the result	s available on re	equest? Yes								
If any addition sheets if neces	_	mpling was con	ducted, record re	sults in the table be	low; attach additional					
Additional Te	sting & Reason f	or Sampling	Corrective Action	n Taken						
WATER QUALITY COMPLAINTS										
WATER QUALITY	Y COMPLAINTS									
Were there ar	y COMPLAINTS ny water quality taste, odour, col	-	his reporting	□Yes	□No					
Were there ar period? (e.g. t	ny water quality taste, odour, col	our etc.)	his reporting tional sheets if ne		□No					
Were there ar period? (e.g. t	ny water quality taste, odour, col	our etc.) ow; attach addi	tional sheets if ne		□No					
Were there ar period? (e.g. t If yes, comple	ny water quality taste, odour, colo te the table belo	our etc.) ow; attach addi	tional sheets if ne	cessary.	□No					
Were there ar period? (e.g. t If yes, comple	ny water quality taste, odour, colo te the table belo	our etc.) ow; attach addi	tional sheets if ne	cessary.	□No					
Were there ar period? (e.g. t If yes, comple	ny water quality taste, odour, colo te the table belo	our etc.) ow; attach addi	tional sheets if ne	cessary.	□No					



OPERATIONAL PROBLEMS									
Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of  Yes  No disinfection equipment, line breaks, elevated turbidity etc.).									
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/repincurred during this reporting period		or costs	☐Yes	□No					
If yes, complete the table below; at	tach additional s	sheets if nece	ssary.						
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 impro	ovements?		Yes	□No					
If yes, complete the table below; at	tach additional s	sheets if nece	essary.						
Future Upgrades or Improvements			Estima	ted Date of Completion					
		1							
Click here to enter a date.									
DATE COMPLETED:		COMPLET	red By:						

# **BALD MOUNTAIN WATER SYSTEM**

### **Facility Information**

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

# **Facility Sampling History**

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Location	Date	Total Coliform	E. Coli/Enterococci
S1 Reservoir	17-Dec-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	17-Dec-2024	LT1	LT1
S4 Lot 8 Lakefront Place	10-Dec-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	02-Dec-2024	LT1	LT1
S1 Reservoir	25-Nov-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	18-Nov-2024	LT1	LT1
S4 Lot 8 Lakefront Place	13-Nov-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	04-Nov-2024	LT1	LT1
S1 Reservoir	29-Oct-2024	LT1	LT1
S4 Lot 8 Lakefront Place	23-Oct-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	15-Oct-2024	LT1	LT1
S1 Reservoir	07-Oct-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	01-Oct-2024	LT1	LT1
S4 Lot 8 Lakefront Place	24-Sep-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	16-Sep-2024	LT1	LT1
S1 Reservoir	10-Sep-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	04-Sep-2024	LT1	LT1
S4 Lot 8 Lakefront Place	27-Aug-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	20-Aug-2024	LT1	LT1
S1 Reservoir	12-Aug-2024	LT1	LT1
S7 Lot 74, Lot 71	12-Aug-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	06-Aug-2024	LT1	LT1
S4 Lot 8 Lakefront Place	29-Jul-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	22-Jul-2024	LT1	LT1
S1 Reservoir	16-Jul-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	09-Jul-2024	LT1	LT1
S4 Lot 8 Lakefront Place	02-Jul-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	25-Jun-2024	LT1	LT1
S1 Reservoir	18-Jun-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	10-Jun-2024	LT1	LT1
S4 Lot 8 Lakefront Place	04-Jun-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	28-May-2024	LT1	LT1
S1 Reservoir	21-May-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	14-May-2024	LT1	LT1
S4 Lot 8 Lakefront Place	, 07-May-2024	LT1	LT1
S1 Reservoir	, 29-Apr-2024	LT1	LT1
S4 Lot 8 Lakefront Place	23-Apr-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	15-Apr-2024	LT1	LT1
S1 Reservoir	09-Apr-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	02-Apr-2024	LT1	LT1
S4 Lot 8 Lakefront Place	26-Mar-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	19-Mar-2024	48	LT1
S3 Lot 63 Marble Bay Road	12-Mar-2024	LT1	LT1
03 Lot 05 Harbie bay Road	12 Hui 2027	LII	-11

# **BALD MOUNTAIN WATER SYSTEM**

### **Facility Information**

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

# **Facility Sampling History**

Location	Date	<b>Total Coliform</b>	E. Coli/Enterococci
S4 Lot 8 Lakefront Place	27-Feb-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	20-Feb-2024	LT1	LT1
S1 Reservoir	12-Feb-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	06-Feb-2024	LT1	LT1
S4 Lot 8 Lakefront Place	29-Jan-2024	LT1	LT1
S1 Reservoir	24-Jan-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	24-Jan-2024	LT1	LT1
S3 Lot 63 Marble Bay Road	09-Jan-2024	LT1	LT1
S4 Lot 8 Lakefront Place	02-Jan-2024	LT1	LT1

W179623 Cowichan Valley Reg. Dist. - E 22Mar24 1:04p

\*A PO 23-223 (2023)

\*A 175 Ingram Street

Duncan, BC V9L 1N8

TEL: (250) 746-2530

Group

Source: FWS

Type of Sample: Water

No. of Samples: 1

Arrival temp.: 7.0C

\*RUSH\*

				CFU/10	00 ml	CFU/100 ml		CFU/100 mL	
	Site Code	<u>Date</u>	<u>Time</u>	TC	T-NC	FC	F-NC	E.coli	
1	S3 Lot 63 Marble Bay	22Mar24		0	0	0	0	0	

TC = total coliform bacteria

FC = fecal coliform bacteria (aka thermotolerant coliforms)

NC = non-coliform bacteria

CFU/100 ml = colony forming units per 100 milli-litres

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.Systm.Bact.

> / Micr biologist

M.B. LABS LTD

E: info@mblabs.com T: 250 656-1334

W: www.mblabs.com

			Sample ID	S5-LOT 69-WELL 1 (WTX 27AC4)	S6-LOT 70-WELL 2 (WTX 27AC5)		S3-LOT 63- MARBLE BAY RD(WTX 27AC7)
			Sampling Date	03/14/24	03/14/24	03/14/24	03/14/24
			Sampling Time	10:50 AM	11:05 AM	11:15 AM	11:30 AM
Parameter Name	MAC	AO	Units	Result	Result2	Result3	Result4
Nitrite (N)	1		mg/L	<0.0050	0.0101	<0.0050	<0.0050
Nitrate (N)	10		mg/L	1.25	5.25	4.67	4.09
Conductivity			uS/cm	150	270	270	250
рН			рН	6.72	6.81	6.87	6.99
Total Dissolved Solids		500	mg/L	110	180	180	160
Alkalinity (PP as CaCO3)			mg/L	<1.0	<1.0	<1.0	<1.0
Alkalinity (Total as CaCO3)			mg/L	61	92	94	84
Bicarbonate (HCO3)			mg/L	74	110	110	100
Carbonate (CO3)			mg/L	<1.0	<1.0	<1.0	<1.0
Hydroxide (OH)			mg/L	<1.0	<1.0	<1.0	<1.0
Chloride (CI)		250	mg/L	3.3	9.7	8.6	8.5
Sulphate (SO4)		500	mg/L	1.9	1.3	2.3	1.9
True Colour		15	Col. Unit	<2.0	<2.0	<2.0	<2.0
Nitrate plus Nitrite (N)			mg/L	1.25	5.26	4.67	4.09
Langelier Index (@ 20C)			N/A	-1.59	-1.07	-1.01	-0.987
Langelier Index (@ 4C)			N/A	-1.84	-1.32	-1.26	-1.24
Saturation pH (@ 20C)			N/A	8.31	7.88	7.88	7.98
Saturation pH (@ 4C)			N/A	8.56	8.13	8.14	8.23
Dissolved Fluoride (F)	1.5		mg/L	<0.050	<0.050	<0.050	<0.050
Tannins and Lignins			mg/L	<0.2	<0.2	<0.2	<0.2
Turbidity	see remark	see remark	NTU	32	3.5	2.5	0.27
Total Hardness (CaCO3)			mg/L	66.3	122	123	108
Total Aluminum (Al)	2900		ug/L	<3.0	<3.0	<3.0	<3.0
Total Antimony (Sb)	6		ug/L	<0.50	<0.50	<0.50	<0.50
Total Arsenic (As)	10		ug/L	<0.10	0.17	<0.10	0.11

			Sample ID	S5-LOT 69-WELL 1 (WTX 27AC4)		S7-LOT 71-WELL 3 (WTX 27AC6)	S3-LOT 63- MARBLE BAY RD(WTX 27AC7)
			Sampling Date	03/14/24	03/14/24	03/14/24	03/14/24
			Sampling Time	10:50 AM	11:05 AM	11:15 AM	11:30 AM
Parameter Name	MAC	AO	Units	Result	Result2	Result3	Result4
Total Barium (Ba)	2000		ug/L	4.2	10.7	10.2	8.7
Total Beryllium (Be)			ug/L	<0.10	<0.10	<0.10	<0.10
Total Bismuth (Bi)			ug/L	<1.0	<1.0	<1.0	<1.0
Total Boron (B)	5000		ug/L	<50	<50	<50	<50
Total Cadmium (Cd)	7		ug/L	< 0.010	0.011	0.018	0.014
Total Chromium (Cr)	50		ug/L	<1.0	<1.0	<1.0	<1.0
Total Cobalt (Co)			ug/L	<0.20	<0.20	<0.20	<0.20
Total Copper (Cu)	2000	1000	ug/L	5.29	0.87	1.33	13.4
Total Iron (Fe)		300	ug/L	1540	237	179	17
Total Lead (Pb)	5		ug/L	4.32	0.5	0.84	0.59
Total Manganese (Mn)	120	20	ug/L	17.2	27.7	12.7	4.7
Total Molybdenum (Mo)			ug/L	<1.0	<1.0	<1.0	<1.0
Total Nickel (Ni)			ug/L	<1.0	<1.0	<1.0	<1.0
Total Selenium (Se)	50		ug/L	<0.10	<0.10	<0.10	<0.10
Total Silicon (Si)			ug/L	11200	13200	11700	12100
Total Silver (Ag)			ug/L	<0.020	<0.020	<0.020	<0.020
Total Strontium (Sr)	7000		ug/L	66.2	107	108	95.9
Total Thallium (Tl)			ug/L	<0.010	<0.010	<0.010	<0.010
Total Tin (Sn)			ug/L	<5.0	<5.0	<5.0	<5.0
Total Titanium (Ti)			ug/L	<5.0	<5.0	<5.0	<5.0
Total Uranium (U)	20		ug/L	<0.10	<0.10	<0.10	<0.10
Total Vanadium (V)			ug/L	<5.0	<5.0	<5.0	<5.0
Total Zinc (Zn)		5000	ug/L	86.9	44.3	33.8	11.9
Total Zirconium (Zr)			ug/L	<0.10	<0.10	<0.10	<0.10
Total Calcium (Ca)			mg/L	17.8	34.2	33.3	29.8

			Sample ID	S5-LOT 69-WELL 1 (WTX 27AC4)	S6-LOT 70-WELL 2 (WTX 27AC5)		S3-LOT 63- MARBLE BAY RD(WTX 27AC7)
			Sampling Date	03/14/24	03/14/24	03/14/24	03/14/24
			Sampling Time	10:50 AM	11:05 AM	11:15 AM	11:30 AM
Parameter Name	MAC	AO	Units	Result	Result2	Result3	Result4
Total Magnesium (Mg)			mg/L	5.33	8.99	9.77	8.28
Total Potassium (K)			mg/L	0.449	0.56	0.517	0.503
Total Sodium (Na)		200	mg/L	3.98	4.9	5.03	5.44
Total Sulphur (S)			mg/L	<3.0	<3.0	<3.0	<3.0
Total Mercury (Hg)	1		ug/L	<0.030	<0.030	<0.030	<0.030
Total Total Kjeldahl Nitrogen (Calc)			mg/L	0.11	0.8	0.57	0.41
Total Organic Carbon (C)			mg/L	<0.50	<0.50	<0.50	<0.50
Total Nitrogen (N)			mg/L	1.37	6.06	5.24	4.51
Total Ammonia (N)			mg/L	<0.015	<0.015	<0.015	<0.015
Sulphide (as H2S)		0.05	mg/L	<0.0020	<0.0020	<0.0020	0.013
Total Sulphide		0.05	mg/L	<0.0018	<0.0018	<0.0018	0.013
Total Coliforms	0		CFU/100mL	0	0	0	0
E. coli	0		CFU/100mL	0	0	0	0
Heterotrophic Plate Count			CFU/mL	<1	<1	<1	<1.0
Fecal Coliforms			CFU/100mL	<1	<1	<1	0
Non-Coliform (Background)			CFU/100mL	<1	10	28	<1
Iron Bacteria			CFU/mL	<25	<25	<25	<25
Sulphate reducing bacteria			CFU/mL	<75	<75	<75	<75
Total Trihalomethanes	100		ug/L				<1.0
Bromodichloromethane			ug/L				<1.0
Bromoform			ug/L				<1.0
Dibromochloromethane			ug/L				<1.0
Chloroform			ug/L				<1.0
Dalapon			ug/L				<5.0
Monochloroacetic Acid			ug/L				<5.0

			Sample ID			S7-LOT 71-WELL 3 (WTX 27AC6)	
			Sampling Date	03/14/24	03/14/24	03/14/24	03/14/24
			Sampling Time	10:50 AM	11:05 AM	11:15 AM	11:30 AM
Parameter Name	MAC	AO	Units	Result	Result2	Result3	Result4
Monobromoacetic Acid			ug/L				<5.0
Dichloroacetic Acid			ug/L				<5.0
Trichloroacetic Acid			ug/L				<5.0
Bromochloroacetic Acid			ug/L				<5.0
Dibromoacetic Acid			ug/L				<5.0
Total Haloacetic Acids	80		ug/L				<5.0