

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) CVRD Engineering Services, 175 Ingram Street, Duncan, BC

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.

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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DOGWOOD RIDGE WATER

Future Upgrades or Improvements	Estimated Date of Completion
Repair and rebuild well #2	future
Rehabilitate well #2 and install level sensors	2020/2021
Install managanese treatment system	future



DOGWOOD RIDGE WATER SYSTEM

Facility Location
175 Ingram Street Duncan

Facility Information	
Facility Type	15-300 (DWC)

Facility Sampling History

Location	Date	Total Coliform	E. Coli
S-2 Water treatment building, Water treatment building	15-Dec-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	9-Dec-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	30-Nov-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	24-Nov-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	17-Nov-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	4-Nov-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	28-Oct-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	19-Oct-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	14-Oct-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	6-Oct-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	29-Sep-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	22-Sep-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	15-Sep-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	9-Sep-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	1-Sep-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	25-Aug-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	19-Aug-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	11-Aug-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	4-Aug-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	28-Jul-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	21-Jul-2020	LT1	LT1



S-2 Water treatment building, Water treatment building	14-Jul-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	7-Jul-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	29-Jun-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	23-Jun-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	16-Jun-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	9-Jun-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	1-Jun-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	26-May-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	20-May-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	12-May-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	5-May-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	28-Apr-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	21-Apr-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	15-Apr-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	7-Apr-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	30-Mar-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	24-Mar-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	17-Mar-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	10-Mar-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	2-Mar-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	25-Feb-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	19-Feb-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	11-Feb-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	4-Feb-2020	LT1	LT1
S-2 Water treatment building, Water treatment building	28-Jan-2020	LT1	LT1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	20-Jan-2020	L1	LT1
S-2 Water treatment building, Water treatment building	14-Jan-2020	L1	L1
S-1,2628 Bruce Road, S-1, 2628 Bruce Road	7-Jan-2020	L1	L1

Alkalinity (total, as CaCO3)		Sampling Point Name	Criteria	
09/09/2020	135 mg/L	Well#1-tap on inlet from well inside TB		
Aluminum (total)		Sampling Point Name	Criteria	
09/09/2020	< 0.005 mg/L	Well#1-tap on inlet from well inside TB	<=0.1	Operational - Conventional
Ammonia (total, as N)		Sampling Point Name	Criteria	
09/09/2020	0.96 mg/L	Well#1-tap on inlet from well inside TB		
Antimony (total)		Sampling Point Name	Criteria	
09/09/2020	< 0.0005 mg/L	Well#1-tap on inlet from well inside TB	<=0.006	MAC
Arsenic (total)		Sampling Point Name	Criteria	
09/09/2020	0.0013 mg/L	Well#1-tap on inlet from well inside TB	<=0.010	MAC
Background Bacteria		Sampling Point Name	Criteria	
Barium (total)		Sampling Point Name	Criteria	
09/09/2020	0.0118 mg/L	Well#1-tap on inlet from well inside TB	<=2.0	MAC
Beryllium (total)		Sampling Point Name	Criteria	
09/09/2020	< 0.00005 mg/L	Well#1-tap on inlet from well inside TB		
Boron (total)		Sampling Point Name	Criteria	
09/09/2020	0.020 mg/L	Well#1-tap on inlet from well inside TB	<=5	MAC
Cadmium (total)		Sampling Point Name	Criteria	
09/09/2020	0.00008 mg/L	Well#1-tap on inlet from well inside TB	<=0.005	MAC
Calcium (total)		Sampling Point Name	Criteria	
09/09/2020	23.2 mg/L	Well#1-tap on inlet from well inside TB		
Chloride		Sampling Point Name	Criteria	
09/09/2020	5.12 mg/L	Well#1-tap on inlet from well inside TB	<=250	AO

Chromium (total)		Sampling Point Name	Criteria	
09/09/2020	< 0.0005 mg/L	Well#1-tap on inlet from well inside TB	<=0.05	MAC
Cobalt (total)		Sampling Point Name	Criteria	
09/09/2020	< 0.00005 mg/L	Well#1-tap on inlet from well inside TB		
Colour		Sampling Point Name	Criteria	
09/09/2020	5 TCU	Well#1-tap on inlet from well inside TB	<=15	AO
Conductivity		Sampling Point Name	Criteria	
09/09/2020	274 uS/cm	Well#1-tap on inlet from well inside TB		
Copper (total)		Sampling Point Name	Criteria	
09/09/2020	0.0012 mg/L	Well#1-tap on inlet from well inside TB	<=1.0	AO
Escherichia coli / E. coli (counts)		Sampling Point Name	Criteria	
09/09/2020	< 1 counts/100ml	Well#1-tap on inlet from well inside TB	<=0, P	Microbiological Standard
Fecal (thermal tolerant) Coliforms (counts)		Sampling Point Name	Criteria	
09/09/2020	< 1 counts/100ml	Well#1-tap on inlet from well inside TB	<=0, OG	Microbiological Standard
Fluoride		Sampling Point Name	Criteria	
09/09/2020	0.12 mg/L	Well#1-tap on inlet from well inside TB	<=1.5	MAC
Gold (total)		Sampling Point Name	Criteria	
Hardness (total, as CaCO3)		Sampling Point Name	Criteria	
09/09/2020	114 mg/L	Well#1-tap on inlet from well inside TB		
Heterotrophic Plate Count / HPC		Sampling Point Name	Criteria	
* 09/09/2020	2,300 CFU/100ml	Well#1-tap on inlet from well inside TB	<=500	User-Defined
Iron (total)		Sampling Point Name	Criteria	
* 09/09/2020	1.14 mg/L	Well#1-tap on inlet from well inside TB	<=0.3	AO

Iron Bacteria (counts)		Sampling Point Name	Criteria	
09/09/2020	500 CFU/ml	Well#1-tap on inlet from well inside TB		
Langelier Index (@ 20 C)		Sampling Point Name	Criteria	
Lead (total)		Sampling Point Name	Criteria	
09/09/2020	0.00036 mg/L	Well#1-tap on inlet from well inside TB	<=0.005	MAC
Magnesium (total)		Sampling Point Name	Criteria	
09/09/2020	13.6 mg/L	Well#1-tap on inlet from well inside TB		
Manganese (total)		Sampling Point Name	Criteria	
* 09/09/2020	0.146 mg/L	Well#1-tap on inlet from well inside TB	<=0.12	MAC
Mercury (total)		Sampling Point Name	Criteria	
09/09/2020	< 0.00001 mg/L	Well#1-tap on inlet from well inside TB	<=0.001	MAC
Molybdenum (total)		Sampling Point Name	Criteria	
09/09/2020	0.0006 mg/L	Well#1-tap on inlet from well inside TB		
Nickel (total)		Sampling Point Name	Criteria	
09/09/2020	0.0005 mg/L	Well#1-tap on inlet from well inside TB		
Nitrate (as N)		Sampling Point Name	Criteria	
09/09/2020	< 0.005 mg/L	Well#1-tap on inlet from well inside TB	<=10	MAC
Nitrite (as N)		Sampling Point Name	Criteria	
09/09/2020	< 0.005 mg/L	Well#1-tap on inlet from well inside TB	<=1	MAC
pH		Sampling Point Name	Criteria	
09/09/2020	7.70 %	Well#1-tap on inlet from well inside TB		
Phosphorus (total)		Sampling Point Name	Criteria	



Potassium (total)		Sampling Point Name	Criteria
09/09/2020	1.4 mg/L	Well#1-tap on inlet from well inside TB	
Scandium (total)		Sampling Point Name	Criteria
Selenium (total)		Sampling Point Name	Criteria
09/09/2020	0.0006 mg/L	Well#1-tap on inlet from well inside TB	<=0.05 MAC
Silicon (extractable, as Si)		Sampling Point Name	Criteria
Silver (total)		Sampling Point Name	Criteria
09/09/2020	< 0.0001 mg/L	Well#1-tap on inlet from well inside TB	
Sodium (total)		Sampling Point Name	Criteria
09/09/2020	15.0 mg/L	Well#1-tap on inlet from well inside TB	<=200 AO
Strontium (total)		Sampling Point Name	Criteria
09/09/2020	0.105 mg/L	Well#1-tap on inlet from well inside TB	
Sulfate Reducing Bacteria		Sampling Point Name	Criteria
09/09/2020	< 1 CFU/ml	Well#1-tap on inlet from well inside TB	
Sulphate		Sampling Point Name	Criteria
09/09/2020	< 0.5 mg/L	Well#1-tap on inlet from well inside TB	<=500 AO
Sulphide (total, as H2S)		Sampling Point Name	Criteria
Tannins and Lignins		Sampling Point Name	Criteria
09/09/2020	0.3 mg/L	Well#1-tap on inlet from well inside TB	
Tin (total)		Sampling Point Name	Criteria
09/09/2020	0.00042 mg/L	Well#1-tap on inlet from well inside TB	

Titanium (total)		Sampling Point Name	Criteria	
09/09/2020	0.002 mg/L	Well#1-tap on inlet from well inside TB		
Total Coliforms (counts)		Sampling Point Name	Criteria	
09/09/2020	< 1 counts/100ml	Well#1-tap on inlet from well inside TB	<=0, OG	User-Defined
Total Dissolved Solids / TDS		Sampling Point Name	Criteria	
09/09/2020	165 mg/L	Well#1-tap on inlet from well inside TB	<=500	AO
Total Kjeldahl Nitrogen / TKN		Sampling Point Name	Criteria	
09/09/2020	1.00 mg/L	Well#1-tap on inlet from well inside TB		
Total Organic Carbon / TOC		Sampling Point Name	Criteria	
09/09/2020	1.7 mg/L	Well#1-tap on inlet from well inside TB		
Tungsten (total)		Sampling Point Name	Criteria	
09/09/2020	0.0001 mg/L	Well#1-tap on inlet from well inside TB		
Turbidity		Sampling Point Name	Criteria	
09/09/2020	2.6 NTU	Well#1-tap on inlet from well inside TB	<=5	User-Defined
Vanadium (total)		Sampling Point Name	Criteria	
09/09/2020	< 0.001 mg/L	Well#1-tap on inlet from well inside TB		
Zinc (total)		Sampling Point Name	Criteria	
09/09/2020	< 0.005 mg/L	Well#1-tap on inlet from well inside TB	<=5	AO

Result Legend:

P=present, A=absent, PR=presumptive, ND=non-detect, OR=over-range, OG=overgrown, Y=yes, N=no, TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment

- < means less than lower detection limit shown
- > means greater than upper detection limit shown
- « means detected & less than number shown
- » means detected & greater than number shown

* Indicates Criteria is exceeded

