

## DRINKING WATER SYSTEM ANNUAL REPORT

**Reporting Period:** 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 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) Radio, Social Media

**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, <b>and</b> 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

**Click here to enter a date.**

**DATE COMPLETED:**

**COMPLETED BY:**

# FERNRIDGE ESTATES WATERWORKS

## Facility Information

Location 175 Ingram Street Duncan

Type 15 - 300 Connections

## Facility Sampling History

Location	Date	Total Coliform	E. Coli/Enterococci
S2 Reservoir	16-Dec-2024	LT1	LT1
S1 1143 Fernridge Drive	09-Dec-2024	LT1	LT1
S2 Reservoir	03-Dec-2024	LT1	LT1
S1 1143 Fernridge Drive	26-Nov-2024	LT1	LT1
S2 Reservoir	18-Nov-2024	LT1	LT1
S1 1143 Fernridge Drive	12-Nov-2024	QRWRT	QRWRT
S2 Reservoir	05-Nov-2024	LT1	LT1
S1 1143 Fernridge Drive	28-Oct-2024	LT1	LT1
S2 Reservoir	21-Oct-2024	LT1	LT1
S1 1143 Fernridge Drive	15-Oct-2024	LT1	LT1
S2 Reservoir	07-Oct-2024	LT1	LT1
S1 1143 Fernridge Drive	02-Oct-2024	LT1	LT1
S2 Reservoir	23-Sep-2024	LT1	LT1
S1 1143 Fernridge Drive	17-Sep-2024	LT1	LT1
S2 Reservoir	09-Sep-2024	LT1	LT1
S1 1143 Fernridge Drive	03-Sep-2024	LT1	LT1
S2 Reservoir	26-Aug-2024	LT1	LT1
S1 1143 Fernridge Drive	19-Aug-2024	LT1	LT1
S2 Reservoir	13-Aug-2024	LT1	LT1
S1 1143 Fernridge Drive	07-Aug-2024	LT1	LT1
S2 Reservoir	30-Jul-2024	LT1	LT1
S1 1143 Fernridge Drive	23-Jul-2024	LT1	LT1
S2 Reservoir	15-Jul-2024	LT1	LT1
S1 1143 Fernridge Drive	08-Jul-2024	LT1	LT1
S2 Reservoir	02-Jul-2024	LT1	LT1
S1 1143 Fernridge Drive	24-Jun-2024	LT1	LT1
S2 Reservoir	17-Jun-2024	QRWRT	QRWRT
S1 1143 Fernridge Drive	12-Jun-2024	LT1	LT1
S2 Reservoir	03-Jun-2024	LT1	LT1
S1 1143 Fernridge Drive	28-May-2024	LT1	LT1
S2 Reservoir	21-May-2024	LT1	LT1
S1 1143 Fernridge Drive	13-May-2024	LT1	LT1
S2 Reservoir	06-May-2024	LT1	LT1
S1 1143 Fernridge Drive	29-Apr-2024	LT1	LT1
S2 Reservoir	22-Apr-2024	LT1	LT1
S1 1143 Fernridge Drive	15-Apr-2024	LT1	LT1
S2 Reservoir	08-Apr-2024	LT1	LT1
S1 1143 Fernridge Drive	02-Apr-2024	LT1	LT1
S2 Reservoir	25-Mar-2024	LT1	LT1
S1 1143 Fernridge Drive	18-Mar-2024	LT1	LT1
S2 Reservoir	11-Mar-2024	LT1	LT1
S1 1143 Fernridge Drive	05-Mar-2024	LT1	LT1
S2 Reservoir	26-Feb-2024	LT1	LT1
S1 1143 Fernridge Drive	20-Feb-2024	LT1	LT1

# FERNRIDGE ESTATES WATERWORKS

## Facility Information

Location 175 Ingram Street Duncan  
Type 15 - 300 Connections

## Facility Sampling History

Location	Date	Total Coliform	E. Coli/Enterococci
S2 Reservoir	13-Feb-2024	LT1	LT1
S1 1143 Fernridge Drive	05-Feb-2024	LT1	LT1
S2 Reservoir	30-Jan-2024	LT1	LT1
S1 1143 Fernridge Drive	23-Jan-2024	LT1	LT1
S2 Reservoir	15-Jan-2024	LT1	LT1
S1 1143 Fernridge Drive	08-Jan-2024	LT1	LT1
S2 Reservoir	02-Jan-2024	LT1	LT1

# FERN RIDGE WATER SYSTEM

## DISTRIBUTION - S1

			<b>Sample ID</b>	S1-1143 FERNRIDGE
			<b>Sampling Date</b>	05/16/24
			<b>Sampling Time</b>	12:50 PM
<b>Parameter Name</b>	<b>MAC</b>	<b>AO</b>	<b>Units</b>	<b>Result</b>
Nitrite (N)	1		mg/L	<0.0050
Nitrate (N)	10		mg/L	<0.020
Conductivity			uS/cm	230
pH			pH	8.12
Total Dissolved Solids		500	mg/L	160
Alkalinity (PP as CaCO3)			mg/L	<1.0
Alkalinity (Total as CaCO3)			mg/L	96
Bicarbonate (HCO3)			mg/L	120
Carbonate (CO3)			mg/L	<1.0
Hydroxide (OH)			mg/L	<1.0
Chloride (Cl)		250	mg/L	3.8
Sulphate (SO4)		500	mg/L	13
True Colour		15	Col. Unit	<2.0
Nitrate plus Nitrite (N)			mg/L	<0.020
Langelier Index (@ 20C)			N/A	0.157
Langelier Index (@ 4C)			N/A	-0.091
Saturation pH (@ 20C)			N/A	7.96
Saturation pH (@ 4C)			N/A	8.21
Dissolved Fluoride (F)	1.5		mg/L	0.077
Tannins and Lignins			mg/L	<0.2
Turbidity	see remark	see remark	NTU	0.12
Total Hardness (CaCO3)			mg/L	85.2
Total Aluminum (Al)	2900		ug/L	<3.0
Total Antimony (Sb)	6		ug/L	<0.50
Total Arsenic (As)	10		ug/L	2.12
Total Barium (Ba)	2000		ug/L	13.8
Total Beryllium (Be)			ug/L	<0.10
Total Bismuth (Bi)			ug/L	<1.0
Total Boron (B)	5000		ug/L	341
Total Cadmium (Cd)	7		ug/L	<0.010
Total Chromium (Cr)	50		ug/L	<1.0
Total Cobalt (Co)			ug/L	<0.20
Total Copper (Cu)	2000	1000	ug/L	2.27
Total Iron (Fe)		300	ug/L	<5.0
Total Lead (Pb)	5		ug/L	0.24
Total Manganese (Mn)	120	20	ug/L	8.4
Total Molybdenum (Mo)			ug/L	3.5
Total Nickel (Ni)			ug/L	<1.0

# FERN RIDGE WATER SYSTEM

## DISTRIBUTION - S1

			<b>Sample ID</b>	S1-1143 FERNRIDGE
			<b>Sampling Date</b>	05/16/24
			<b>Sampling Time</b>	12:50 PM
<b>Parameter Name</b>	<b>MAC</b>	<b>AO</b>	<b>Units</b>	<b>Result</b>
Total Selenium (Se)	50		ug/L	<0.10
Total Silicon (Si)			ug/L	13300
Total Silver (Ag)			ug/L	<0.020
Total Strontium (Sr)	7000		ug/L	562
Total Thallium (Tl)			ug/L	<0.010
Total Tin (Sn)			ug/L	<5.0
Total Titanium (Ti)			ug/L	<5.0
Total Uranium (U)	20		ug/L	0.3
Total Vanadium (V)			ug/L	<5.0
Total Zinc (Zn)		5000	ug/L	<5.0
Total Zirconium (Zr)			ug/L	<0.10
Total Calcium (Ca)			mg/L	27.1
Total Magnesium (Mg)			mg/L	4.3
Total Potassium (K)			mg/L	0.123
Total Sodium (Na)		200	mg/L	14
Total Sulphur (S)			mg/L	5.8
Total Mercury (Hg)	1		ug/L	<0.0019
Total Total Kjeldahl Nitrogen (Calc)			mg/L	0.055
Total Organic Carbon (C)			mg/L	0.54
Total Nitrogen (N)			mg/L	0.055
Total Ammonia (N)			mg/L	<0.015
Sulphide (as H2S)		0.05	mg/L	<0.0020
Total Sulphide		0.05	mg/L	<0.0018
Total Coliforms	0		CFU/100mL	0
E. coli	0		CFU/100mL	0
Heterotrophic Plate Count			CFU/mL	<1.0
Fecal Coliforms			CFU/100mL	0
Non-Coliform (Background)			CFU/100mL	<1
Iron Bacteria			CFU/mL	<25
Sulphate reducing bacteria			CFU/mL	<75
Dalapon			ug/L	<5.0
Monochloroacetic Acid			ug/L	<5.0
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



FERN RIDGE WATER SYSTEM  
DISTRIBUTION - S1

			<b>Sample ID</b>	S1-1143 FERNRIDGE
			<b>Sampling Date</b>	05/16/24
			<b>Sampling Time</b>	12:50 PM
<b>Parameter Name</b>	<b>MAC</b>	<b>AO</b>	<b>Units</b>	<b>Result</b>
Total Trihalomethanes	100		ug/L	9.8
Bromodichloromethane			ug/L	3.3
Bromoform			ug/L	<1.0
Dibromochloromethane			ug/L	1.4
Chloroform			ug/L	5.1