



Small Water Systems Drinking Water Annual Report 2024

Upper Fintry/Valley of the Sun/Shalal Road, Falcon Ridge, and Dietrich
(Star Place), Joe Rich and Goudie Fire Hall



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Introduction

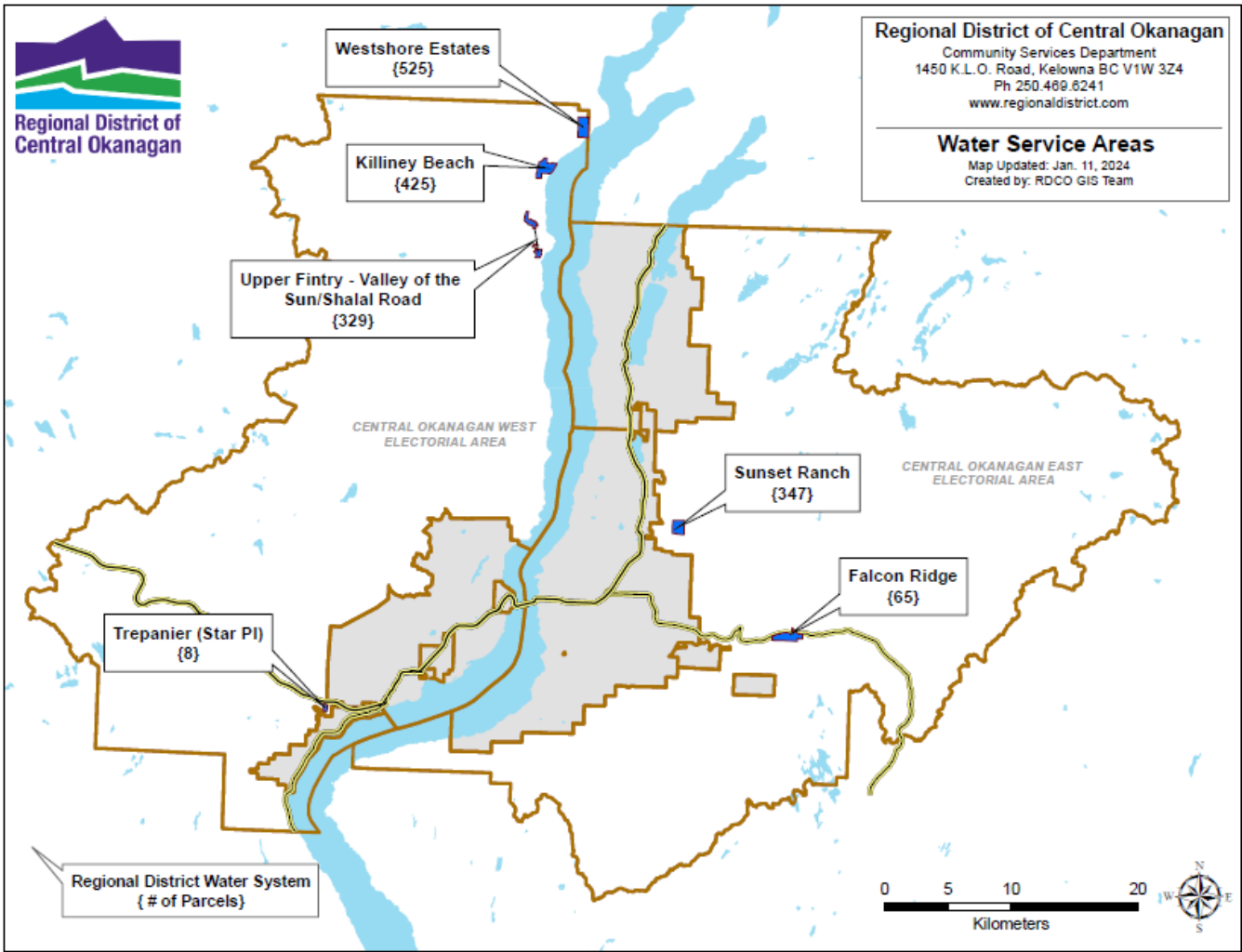
The purpose of this report is to provide information on the monitoring and maintenance of the Regional District of Central Okanagan's (RDCO) water distribution systems directed by the Interior Health Authority (IH) as set forth by the Drinking Water Protection Act.

During 2024 the RDCO continued to monitor and improve the domestic water supply. This document will provide an overview of the distribution system, maintenance performed and water system data results and trending.

Water Distribution System

The RDCO administers eight water systems (two are Fire/Community Halls located in the Joe Rich area). These systems vary in size with five of the systems classified as Small and three as Large. This Report will contain information for the small systems only – Upper Fintry/Shalal Road/Valley of the Sun, Falcon Ridge, Dietrich, Joe Rich Fire/Community Hall, and Goudie Fire Hall (both Fire Halls are in the Joe Rich area).

Figure 1 – RDCO Water Service areas and number of parcels in each service area



The Small Water Systems administered by the RDCO, the number of users/customers for each system and the assigned EOCP number (Environmental Operators Certification Program) are outlined below.

Table 1 – RDCO Water Systems and EOCP information

Water System	EOCP Number	EOCP Classification	Number of Connections (approximate)	Water Source	Meets Drinking Water Objectives
Falcon Ridge	1851	SWS	62	Mission Creek-sodium-hypochlorite injection disinfection, treatment by filtration and UV	no
Dietrich (Star Place)	1853	SWS	8	Trepanier Creek-sodium-hypochlorite injection disinfection, treatment by filtration	no
Upper Fintry/ Valley of the Sun/Shalal Road	2060	SWS	182	Groundwater Well-sodium hypochlorite injection disinfection	yes

Regulations and Management

The regulations for the management of the water distribution systems and the terms and conditions under which water services may be provided are set out in RDCO **Bylaw 1513**. User fees and asset renewal fees vary according to the number of users and the maintenance required for each system. Fees are set under the RDCO Water System Fees & Charges Amended **Bylaws No. 1372,1374,1376(Appendix 1)**.

Testing and Monitoring Program

The monitoring program integrates source monitoring (where possible) as well as the quality in the distribution system. Routine weekly samples were collected at each site throughout the distribution system including raw water sources and results are reported to Interior Health monthly.

RDCO staff also conducts in-house testing including free and total chlorine residual, pH, conductivity, turbidity, iron, manganese, and temperature. This data was used as background information to supplement on-line monitoring and as a checking procedure within the Drinking Water Monitoring program. The RDCO tests each system every 2 years for physical and chemical parameters. Any additional chemical testing done in 2024 is included in (**Appendix 2**).

Maintenance and Repairs

The RDCO continues to utilize an operations and maintenance program (MPulse) that includes annual cleaning/disinfection for the reservoirs, annual hydrant inspection and flushing, annual generator service and distribution flushing including valve exercising and dead-end flushing.

Fintry Park

Re: Validated Park use Permit #105373 - Under Special Provision 6 in the permit the RDCO is required to describe the annual maintenance of the water line and the environmental monitoring and treatment completed.

Conditions on Permit/System Improvements 2024

Falcon Ridge

- » Hydrant Maintenance
- » Expansion of system, addition of new fire hydrant on Peregrine Rd
- » General road maintenance to access well site
- » Mission Creek intake maintenance
- » Rekeyed locks

Dietrich (Star Place)

- » Possibility of alternate source ongoing (Trepanier Ditch Users Association in discussion with Peachland to change boundaries and tying into community system)
- » Water rate adjustment
- » Hydrant maintenance
- » Rekeyed locks

Upper Fintry/Valley of the Sun/Shalal Road

- » Hydrant maintenance
- » Rekeyed locks

Joe Rich Fire Hall and Community Hall

- » Current UV unit obsolete (investigate possible alternate treatment options)
- » Reservoir and intake cleaning
- » Hydrant maintenance

Goudie Road Fire Hall

- » none

Grants/Water Conservation

Grants

No grants were received in 2024.

Water Conservation

Outdoor Irrigation restrictions are in place for the customers RDCO water systems, as outlined below (Stage 2 water restrictions were implemented for all water systems on June 16, 2024, and Stage 3 water restrictions were issued July 30, 2024).

Further tips on water conservation including the **Water Talk Newsletter - Your Water-wise Information Source** can be found on the RDCO website at rdco.com. The newsletter was sent out to all RDCO water customers in the spring and fall of 2024, discussing system updates, new construction and conservation tips and ideas. Each water system has its own webpage on the RDCO website using the link **My Water System**.

Table 2 – RDCO Outdoor water irrigation schedule

Stage 1 Alternate Days Sprinkling:	
Effective	September 16th to June 15th, unless Notice of Stage 3 or 4 in Effect
Even numbered addresses:	<i>Sprinkling is only permitted on Even Calendar Days</i>
Odd numbered addresses:	<i>Sprinkling is only permitted on Odd Calendar Days</i>
Stage 2 Twice a Week Sprinkling:	
Effective	June 16th to September 15th, unless Notice of Stage 3 or 4 in Effect
Even numbered addresses:	<i>Sprinkling is only permitted on Saturdays & Tuesdays</i>
Odd numbered addresses:	<i>Sprinkling is only permitted on Sundays & Wednesdays</i>
Stage 3 Restriction Period - Once a Week Sprinkling:	
Effective	Upon Notice Issued by <i>Regional District Officer</i>
Even numbered addresses:	<i>Sprinkling is only permitted on Saturdays</i>
Odd numbered addresses:	<i>Sprinkling is only permitted on Sundays</i>
Stage 4 Restriction Period – No Sprinkling	
Effective	Upon Notice Issued by <i>Regional District Officer</i>

Operator Education

The RDCO has established a training program that follows Environmental Operators Certification Program (EOCP) guidelines and required training, including First Aid, Transportation of Dangerous Goods and Backflow Prevention. Operators have been qualifying to write exams as per EOCP guidelines and will continue to increase their certification levels for successorship as well as redundancy for all water systems annually. The Regional District of Central Okanagan currently employs seven (6) staff working in the utilities department as seen below.

Table 3 – EOCP Certifications

Employee	EOCP Certification #	Level
Shane Dorey	9216	WT-2, WD-1
Kevin Trottier	4607	WT-3, WD-3, CH
Doug Murray	8948	WD-1
Peter Meersma	8244	CCCT, WD-2, WT-2, PLUMBER
Angela Lambrecht	6468	WT-1, WD-1, CH
Greg Beloin	7787	WT-1, WD-1, CH

Cross Connection Control/Backflow Events

On-going assessments of all RDCO managed water facilities continued in 2024 to minimize the risk of cross connections. Certified staff conducted annual servicing and maintenance on all back flow preventers in the water systems and documentation will be added to a Maintenance Management Program for future scheduling and tracking.

The Water Meter Reader Software was updated to Neptune 360 in 2024 - all installed water meters are read on a quarterly basis and continue to help operations in the cross-connection program as the Neptune meters have the capacity to record backflow conditions.

Unaccounted water reports are compiled quarterly using the water meter software and include any reverse flow events which are then are investigated. There several reverse flow events recorded in 2024 which were investigated by the RDCO.

SCADA System

The RDCO uses a **Supervisory Control and Data Acquisition** (SCADA) system that allows integrated real-time automated control that can respond quickly enough to compensate for process changes. Within the SCADA system there are several controls in place and RDCO staff can make changes on an as needed basis.

All reporting is done daily, and trending is in real time unless noted above. Trending and reporting are also compiled into monthly and yearly reports.

The following list is a description of some of the information that the RDCO currently trends and reports on our SCADA system.

Falcon Ridge

- » Reservoir level and trending

- » On-line turbidity, chlorine, temperature, and pH
- » Pump control (amp, hours, pressure)
- » Total flow m³
- » Remote control of pumps and chlorinator (stat/stop times)
- » Well level

Dietrich (Star Place)

- » Reservoir level
- » On-line turbidity, chlorine, temperature
- » Pump control (hours)
- » Total flow m³
- » Remote control of pumps and chlorinator (stat/stop times)

Upper Fintry/Valley of the Sun/Shalal Road

- » Reservoir level - Firwood
- » Pump control (amp, hours, pressure)
- » Remote control of pumps (start/stop times)
- » Fintry, Booster Station trending (levels/pump hours)
- » Total flow m³
- » Check valve control
- » On-line chlorine and temperature

Joe Rich Fire/Community Hall

- » Reservoir level
- » Pump control
- » Total flow m³
- » On-line chlorine and temperature

Emergency Response/Events

All notifications were put on and lifted after consultation with IH and in accordance with guidelines set forth in the RDCO Emergency Response Manual, which is updated annually.

Falcon Ridge- emergency response enacted once in 2024

July 29, 2024, a precautionary Boil notice was issued due to planned construction in the area and was removed August 8, 2024.

Dietrich (Star Place) - emergency response enacted one time in 2024

May 13, 2024, a Water Quality Advisory (WQA) was issued due to elevated turbidity in the source water and was removed May 28, 2024.

Future Plans for 2025

Falcon Ridge

- » Reservoir cleaning
- » Water treatment replacement – sand filters
- » Intake maintenance
- » Hydrant maintenance
- » Analyzer replacement

Dietrich (Star Place)

- » Security upgrades
- » Hydrant maintenance
- » Blow off maintenance

Upper Fintry/Valley of the Sun/Shalal Road

- » Hydrant maintenance
- » Chlorine analyzer replacement
- » Roof replacement
- » Security upgrades

Joe Rich Fire Hall

- » Continue to work with Interior Health to look at alternate treatment options

Weekly sample analysis results

Results for Total Coliform and E. coli are included in **Appendix 3**, and include the date, time, location, and chlorine residual.

Turbidity Analysis (NTU)

Turbidity must be monitored on-line for surface water distribution systems with greater than 300 connections. All turbidity data can be found in **Appendix 3** and include the date and location of the analysis. **Figures 2-4** show turbidity trends throughout the year.

Figure 2 – Falcon Ridge

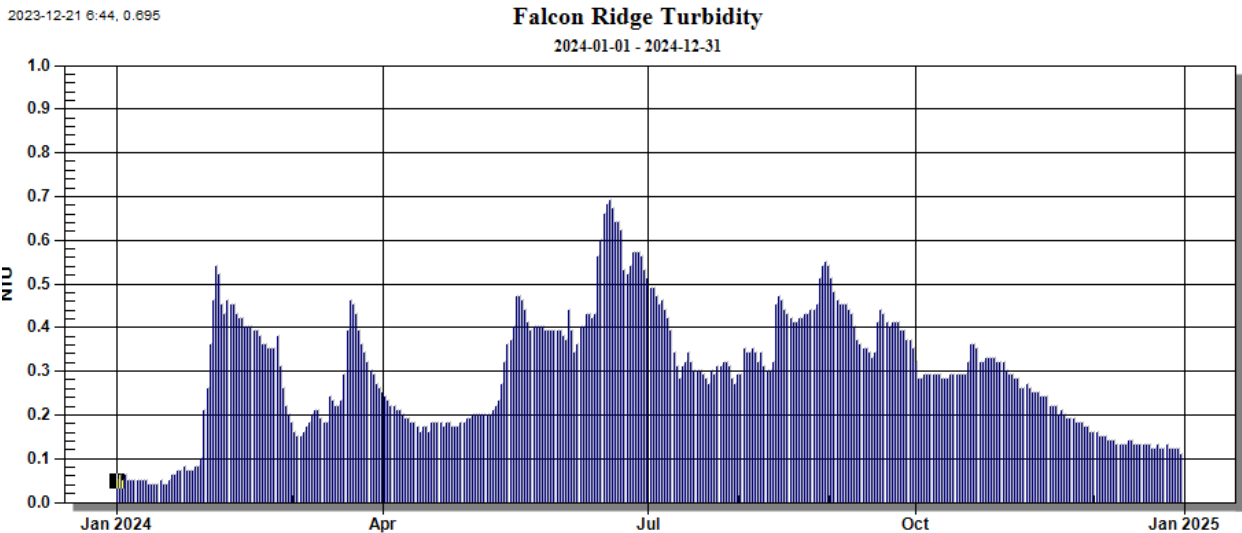


Figure 3 – Dietrich (Star Place) turbidity

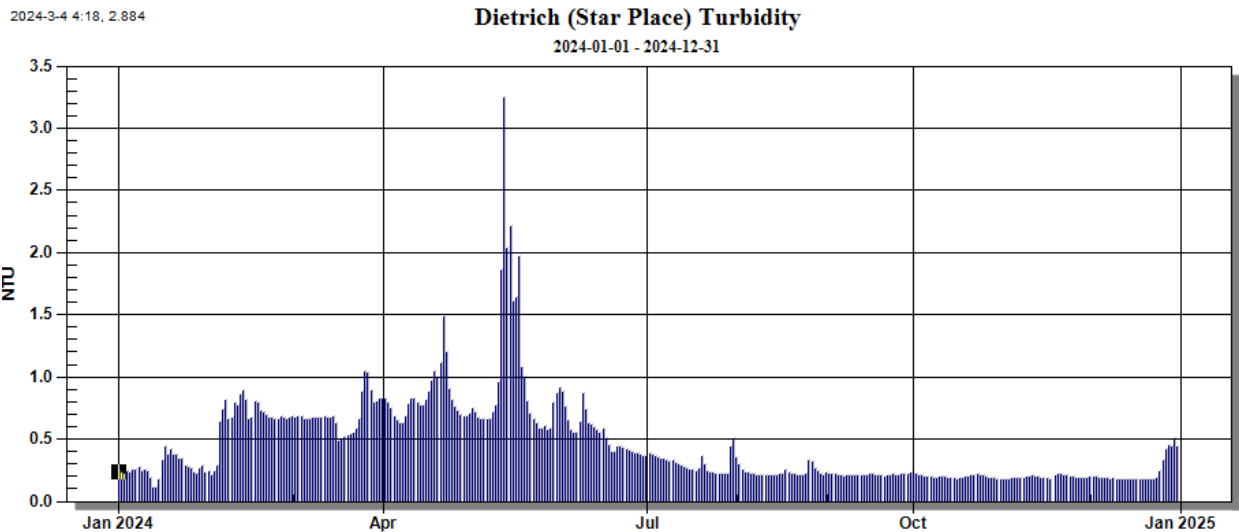
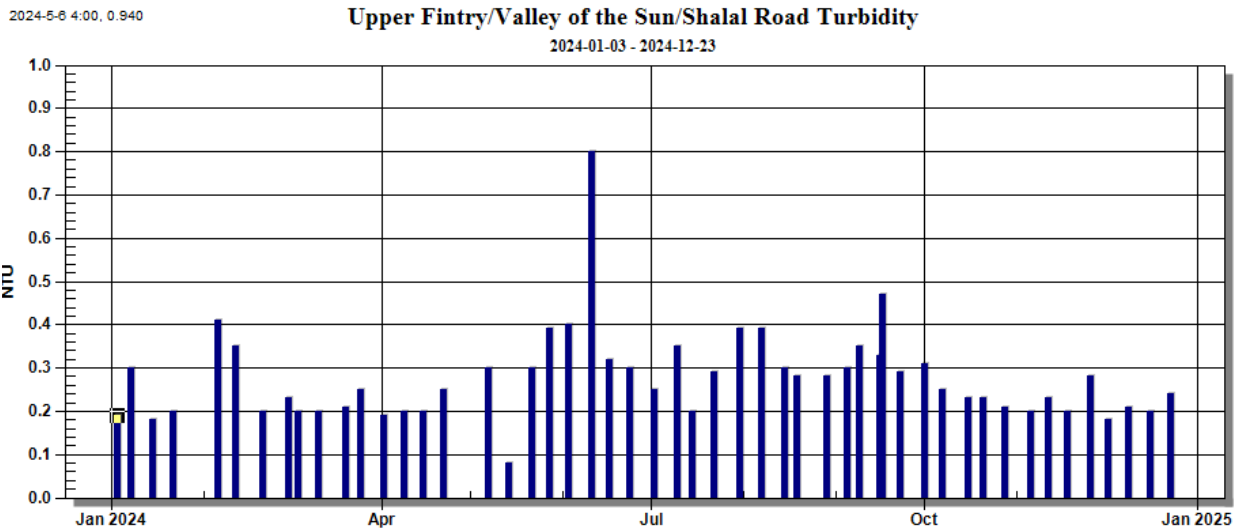


Figure 4 – Upper Fintry/Valley of the Sun/Shalal Road turbidity



Summary

The RDCO is committed to protecting Public and Environmental Health through a comprehensive monitoring program that meets the **Canadian Drinking Water Quality Guidelines** and the **BC Drinking Water Protection Act**.

The RDCO works closely with Interior Health and our Drinking Water Officer to deliver a program that encompasses water quality monitoring, treatment monitoring, and distribution maintenance which enables us to deliver a safe potable water supply to consumers.

Appendix 1

RDCO Bylaws 1513, 1372, 1374, 1376

This bylaw is a 'consolidated' version and includes amendments as noted below. It is placed on the Internet for convenience only. It is not the official or legal version and should not be used in place of certified copies which can be obtained through the Corporate Services Department. Plans, pictures, other graphics or text in the legal version may be missing or altered in this electronic version.

CONSOLIDATED FOR CONVENIENCE TO INCLUDE
BYLAW NO. 1436, 2019, 1455, 2020 and 1518, 2023

BYLAW NO. 1372 - CONSOLIDATED

A bylaw to provide for the imposition of fees and charges against the owner or occupier of real property located within the service area boundary, or connected to the Regional District of Central Okanagan Falcon Ridge Water System.

WHEREAS the Regional District of Central Okanagan is authorized by separate bylaws to provide for the regulation, operation, maintenance, and improvements of various water systems located within the Regional District of Central Okanagan;

NOW THEREFORE, THE REGIONAL BOARD OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN, IN OPEN MEETING ASSEMBLED, ENACTS AS FOLLOWS:

1. Every Owner of property and/or premises situated within the service boundary of the Regional District of Central Okanagan Falcon Ridge Water System Service Area shall pay to the Regional District the fees and charges established in accordance with this Bylaw, as prescribed in Section 2 of this bylaw.
 - a. User fees shall apply to all parcels connected to the water system where the water service is turned on.
 - b. An Owner may apply to the Regional District Officer for a one-time full or partial exemption of the consumption based user fees in the event of an emergency or unexpected usage due to failure of a portion of private service works or similar occurrence.
 - c. Asset renewal fees shall apply to all parcels, vacant or otherwise, and shall commence immediately upon registration of a property in the Land Title Office.

2. Falcon Ridge Water System Annual Fees and Charges Table:

Service Area		Fee Type	Quarterly Fees				
			Jan, 2023	Jan, 2024	Jan, 2025	Jan, 2026	Jan, 2027
Falcon Ridge	User Fee - Basic		\$225.00	\$236.00	\$245.00	\$252.00	\$257.00
	User Fee - Consumption ¹ Per M³	Rate for first 30 M³	\$0.42	\$0.45	\$0.46	\$0.48	\$0.49
		Rate for next 60 M³	\$0.58	\$0.61	\$0.64	\$0.66	\$0.67
		Rate for next 110 M³	\$0.85	\$0.89	\$0.93	\$0.95	\$0.97
		Rate for remainder	\$2.12	\$2.23	\$2.32	\$2.38	\$2.43
	Asset Renewal Fee		\$156.00	\$165.00	\$175.00	\$186.00	\$197.00
	Water System Buy-In Charge		\$9,750	\$9,750	\$9,750	\$9,750	\$9,750

¹ Rates and thresholds based on consumption per quarter

3. In the case of a connection being made during any year the charge imposed shall be pro-rated based upon the number of days connected to the water system.
4. Fees will be billed quarterly or other established interval and all fees shall be due and payable 30 days after the billing date.
5. A late payment penalty of four percent (4%) will be assessed each quarter (compounded quarterly 16.99% per annum) on all outstanding balances accrued under this Bylaw or its predecessors and not paid by the due date.

- 5.1 In consideration of the COVID-19 Pandemic in 2020, outstanding balances not paid by the due date shall not be assessed the late payment penalty for the 2nd, 3rd and 4th Quarters. The penalty charges will resume in 2021.
6. The costs, rates, charges, fees and/or penalties required to be paid by this Bylaw shall form a charge against the parcel serviced, and if such costs, rates, charges, fees and/or penalties are unpaid on December 31st of the year in which they become payable, they shall be entered by the Regional District's Collector in the Collector's Roll next prepared, and transferred to the tax roll in the next succeeding year as arrears of taxes against the parcel from which they arose, and such amount may be recovered with interest at such rate as may be authorized from time to time by the Local Government Act, in like manner as municipal taxes. Payments must be received by December 15th to ensure adequate processing time at year end.
7. This Bylaw may be cited for all purposes as the "Regional District of Central Okanagan Falcon Ridge Water System Fees & Charges Bylaw No. 1372, 2015".
8. This Bylaw comes into effect on January 1, 2016.

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CONSOLIDATED FOR CONVENIENCE TO INCLUDE
BYLAW NO. 1438, 2019, 1457, 2020 and 1520, 2023

REGIONAL DISTRICT OF CENTRAL OKANAGAN

BYLAW NO. 1374 – CONSOLIDATED

A bylaw to provide for the imposition of fees and charges against the owner or occupier of real property located within the service area boundary, or connected to the Regional District of Central Okanagan Dietrich Water System.

WHEREAS the Regional District of Central Okanagan is authorized by separate bylaws to provide for the regulation, operation, maintenance, and improvements of various water systems located within the Regional District of Central Okanagan;

NOW THEREFORE, THE REGIONAL BOARD OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN, IN OPEN MEETING ASSEMBLED, ENACTS AS FOLLOWS:

1. Every Owner of property and/or premises situated within the service boundary of the Regional District of Central Okanagan Dietrich Water System Service Area shall pay to the Regional District the fees and charges established in accordance with this Bylaw, as prescribed in Section 2 of this bylaw.
 - a. User fees shall apply to all parcels connected to the water system where the water service is turned on.
 - b. An Owner may apply to the Regional District Officer for a one-time full or partial exemption of the consumption based user fees in the event of an emergency or unexpected usage due to failure of a portion of private service works or similar occurrence.
 - c. Asset renewal fees shall apply to all parcels, vacant or otherwise, and shall commence immediately upon registration of a property in the Land Title Office.

2. Dietrich Water System Annual Fees and Charges Table:

3. Service Area		Fee Type	Quarterly Fees				
			Jan, 2023	Jan, 2024	Jan, 2025	Jan, 2026	Jan, 2027
Dietrich	User Fee - Basic		\$638.00	\$670.00	\$697.00	\$718.00	\$732.00
	User Fee - Consumption ¹ Per M³	Rate for first 30 M³	\$0.57	\$0.60	\$0.63	\$0.65	\$0.66
		Rate for next 60 M³	\$0.80	\$0.84	\$0.88	\$0.90	\$0.92
		Rate for next 110 M³	\$1.20	\$1.26	\$1.32	\$1.35	\$1.38
		Rate for remainder	\$2.29	\$2.41	\$2.51	\$2.58	\$2.63
Asset Renewal Fee		\$290.00	\$307.00	\$325.00	\$345.00	\$366.00	

¹ Rates and thresholds based on consumption per quarter

4. In the case of a connection being made during any year the charge imposed shall be pro-rated based upon the number of days connected to the water system.
5. Fees will be billed quarterly or other established interval and all fees shall be due and payable 30 days after the billing date.
6. A late payment penalty of four percent (4%) will be assessed each quarter (compounded quarterly 16.99% per annum) on all outstanding balances accrued under this Bylaw or its predecessors and not paid by the due date.

- 5.1 In consideration of the COVID-19 Pandemic in 2020, outstanding balances not paid by the due date shall not be assessed the late payment penalty for the 2nd, 3rd and 4th Quarters. The penalty charges will resume in 2021.
7. The costs, rates, charges, fees and/or penalties required to be paid by this Bylaw shall form a charge against the parcel serviced, and if such costs, rates, charges, fees and/or penalties are unpaid on December 31st of the year in which they become payable, they shall be entered by the Regional District's Collector in the Collector's Roll next prepared, and transferred to the tax roll in the next succeeding year as arrears of taxes against the parcel from which they arose, and such amount may be recovered with interest at such rate as may be authorized from time to time by the Local Government Act, in like manner as municipal taxes. Payments must be received by December 15th to ensure adequate processing time at year end.
8. This Bylaw may be cited for all purposes as the "Regional District of Central Okanagan Dietrich Water System Fees & Charges Bylaw No. 1374, 2015".
9. This Bylaw comes into effect on January 1, 2016.

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CONSOLIDATED FOR CONVENIENCE TO INCLUDE
BYLAW NO. 1440, 2019, 1459, 2020, 1495, 2021 and 1522, 2023

REGIONAL DISTRICT OF CENTRAL OKANAGAN

BYLAW NO. 1376 – CONSOLIDATED

A bylaw to provide for the imposition of fees and charges against the owner or occupier of real property located within the service area boundary, or connected to the Regional District of Central Okanagan Upper Fintry, Shalal Road, and Valley of the Sun Water System.

WHEREAS the Regional District of Central Okanagan is authorized by separate bylaws to provide for the regulation, operation, maintenance, and improvements of various water systems located within the Regional District of Central Okanagan;

NOW THEREFORE, THE REGIONAL BOARD OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN, IN OPEN MEETING ASSEMBLED, ENACTS AS FOLLOWS:

1. Every Owner of property and/or premises situated within the service boundary of the Regional District of Central Okanagan Upper Fintry, Shalal Road, and Valley of the Sun Water System Service Area shall pay to the Regional District the fees and charges established in accordance with this Bylaw, as prescribed in Section 2 of this bylaw.
 - a. User fees shall apply to all parcels connected to the water system where the water service is turned on.
 - b. An Owner may apply to the Regional District Officer for a one-time full or partial exemption of the consumption based user fees in the event of an emergency or unexpected usage due to failure of a portion of private service works or similar occurrence.
 - c. Asset renewal fees shall apply to all parcels, vacant or otherwise, and shall commence immediately upon registration of a property in the Land Title Office.

2. Upper Fintry, Shalal Road, and Valley of the Sun Water System Annual Fees and Charges Table:

3. Service Area	Fee Type	Quarterly Fees				
		Jan, 2023	Jan, 2024	Jan, 2025	Jan, 2026	Jan, 2027
Upper Fintry	User Fee - Basic	\$223.00	\$234.00	\$243.00	\$250.00	\$255.00
	User Fee - Consumption ¹ Per M ³	Rate for first 30 M ³	\$0.42	\$0.45	\$0.46	\$0.48
		Rate for next 60 M ³	\$0.58	\$0.61	\$0.64	\$0.66
		Rate for next 110 M ³	\$0.85	\$0.89	\$0.93	\$0.95
		Rate for remainder	\$2.12	\$2.23	\$2.32	\$2.38
	Asset Renewal Fee	\$67.00	\$71.00	\$75.00	\$80.00	\$85.00

¹ Rates and thresholds based on consumption per quarter

2.1 For the 3rd Quarter of 2021 only, the fees will be charged as outlined in the table below:

Service Area	Fee Type	Quarterly Fees 2021 Q3
Upper Fintry	User Fee - Basic	\$68.67
	User Fee - Consumption ¹	Rate for first 30 M ³
		Rate for next 60 M ³
		Rate for next 110 M ³
		Rate for remainder
	Asset Renewal Fee	\$62.00

¹ Rates and thresholds based on consumption per quarter

All fees and charges outlined in Section 2 will resume in the 4th Quarter of 2021.

4. In the case of a connection being made during any year the charge imposed shall be pro-rated based upon the number of days connected to the water system.
5. Fees will be billed quarterly or other established interval and all fees shall be due and payable 30 days after the billing date.
6. A late payment penalty of four percent (4%) will be assessed each quarter (compounded quarterly 16.99% per annum) on all outstanding balances accrued under this Bylaw or its predecessors and not paid by the due date.

5.1 In consideration of the COVID-19 Pandemic in 2020, outstanding balances not paid by the due date shall not be assessed the late payment penalty for the 2nd, 3rd and 4th Quarters. The penalty charges will resume in 2021.

5.2 In consideration of the evacuation order related to the White Rock Lake Wildfire in 2021, outstanding balances not paid by the due date shall not be assessed the late payment penalty for the 2nd Quarter of 2021. The late payment penalty charges will resume in the 3rd Quarter of 2021.

7. The costs, rates, charges, fees and/or penalties required to be paid by this Bylaw shall form a charge against the parcel serviced, and if such costs, rates, charges, fees and/or penalties are unpaid on December 31st of the year in which they become payable, they shall be entered by the Regional District's Collector in the Collector's Roll next prepared, and transferred to the tax roll in the next succeeding year as arrears of taxes against the parcel from which they arose, and such amount may be recovered with interest at such rate as may be authorized from time to time by the Local Government Act, in like manner as municipal taxes. Payments must be received by December 15th to ensure adequate processing time at year end.
 8. This Bylaw may be cited for all purposes as the "Regional District of Central Okanagan Upper Fintry, Shalal Road, and Valley of the Sun Water System Fees & Charges Bylaw No. 1376, 2015".
 9. This Bylaw comes into effect on January 1, 2016.
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REGIONAL DISTRICT OF CENTRAL OKANAGAN

BYLAW NO. 1513

A bylaw providing for regulating and managing the Water systems of the Regional District of Central Okanagan located within Electoral Areas East and West.

WHEREAS the Regional District of Central Okanagan is authorized by separate bylaws to provide for the operation, maintenance, and improvements of various water systems located within the Regional District of Central Okanagan;

AND WHEREAS it is deemed necessary and expedient to establish and standardize regulations for the management of the said water systems and the terms and conditions upon which water services may be provided;

NOW THEREFORE, THE REGIONAL BOARD OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN, IN OPEN MEETING ASSEMBLED, ENACTS AS FOLLOWS:

1 PURPOSE

- 1.1 The purpose of this Bylaw is to establish regulations under which water will be provided to any parcel located within a Regional District of Central Okanagan water system service area.

2 APPLICATION

- 2.1 This Bylaw shall apply to the Owner or occupier of all parcels located within a Regional District water system service area or the Owner or occupier of all parcels connected to a Regional District water system.

3 SEVERABILITY

- 3.1 If any section, subsection, sentence, clause, or phrase of this Bylaw is deemed to be invalid by the decision of any court of competent jurisdiction, the invalid portion shall be severed and the decision that it is invalid shall not affect the validity of the remainder of the bylaw.

4 DEFINITIONS

In this Bylaw, unless the context requires otherwise:

“asset renewal fee” means a fee imposed to assist with the partial replacement of water system works as part of infrastructure management and may be imposed regardless of whether or not a property or a premises is connected to a water system.

“backflow” means the flow of water or other substances back into any plumbing system connected to the works.

“connection fee” means a fee for applying to connect to a water system.

“contaminant” means any substance or matter in water which may render the water unfit for drinking according to guidelines and regulations of the Province of British Columbia.

“cross connection” means any connection whereby the water system is connected, directly or indirectly, to any device or source which may result in backflow or contaminants entering into any plumbing connected to the water system including bypass arrangements, jumper connections, removable sections, swivel or changeover devices, or any other temporary, or permanent connecting arrangements.

“disconnect” or **“disconnection”** means the complete removal of a water service connection.

“Owner” shall be interpreted as defined in the Local Government Act as amended from time to time.

“parcel” means any lot, block, or other area in which land is held or into which land is subdivided but does not include a highway.

“penalty” or **“penalties”** means applicable fines or actions where a person contravenes the provisions of this bylaw. Every day during which there is an infraction of this Bylaw shall constitute a separate offence.

“premises” means any residence, building, or structure located on a property.

“private service works” means pipes, fittings, fixtures and other appurtenances on private property, not installed or owned by the Regional District, and is used to convey water from the water system on the property or premises.

“property” means any parcel contained within the boundaries of a Regional District water system service area.

“Regional Board” means the Board of the Regional District of Central Okanagan.

“Regional District” means the Regional District of Central Okanagan.

“Regional District Officer” means the Regional District employee, or designate, assigned the duties of managing the engineering services department.

“sprinkle” or **“sprinkling”** means the application or distribution of domestic water on a property, premises, lawn, driveway, or boulevard by sprinkling or spraying and does not include drip irrigation operating at 172 kilopascal (25 pounds per square inch) or less and emitted directly to the root zone of the plant material.

“turn on” means the opening of the shut-off valve located in a standpipe at or near where the water service connection crosses the property line.

“turn off” means the closing of the shut-off valve located in a standpipe at or near where the water service connection crosses the property line.

“user fee” means a fee imposed for the distribution of water.

“utility corridor” means a parcel of land registered by the Regional District for the purpose of accessing the utility for operation and maintenance.

“wasteful” means no useful purpose as determined by the Regional District Officer.

“works” means all pipes, valves, hydrants, fittings, water meters, pumps, intakes, reservoirs and all appurtenances.

“water service connection” means a pipe connected to a main water supply line and extending to a property line for the purpose of conveying water and includes pipes, shut-off valve and other appurtenances.

“water meter” means an apparatus or device used for measuring and reporting the volume of water passing through it.

“water meter pit” means a chamber constructed underground, which is used to install a water meter or approved backflow preventer.

“water system” means any water supply, distribution system and works that the Regional District is authorized by bylaw or by Ownership or by agreement, to operate, maintain and improve.

Unless otherwise defined herein, all words or expressions used in this Bylaw shall have the same meaning assigned to them as like words or expressions contained in the *Local Government Act*, the *Interpretation Act*, the BC Building Code and Regional District Bylaws.

5 COMPLIANCE WITH BYLAW

- 5.1 No person shall connect to or interfere in any way with the water system except in accordance with the provisions of this Bylaw.
- 5.2 Should any person contravene the provisions of this Bylaw, and such contravention causes or may cause damage to the water system, the Regional District may make any repairs and take whatever remedial action necessary to limit the extent of the damage, and the cost to the Regional District of so doing may be recovered by the Regional District as if the same were a debt due the Regional District. The amount of such cost, when certified by the Regional District Officer, if not before paid, shall be entered by the Regional District's Collector in the Collector's Roll next prepared after the receipt of the certificate and such amount may be recovered with interest at such rate as may be authorized from time to time by the Local Government Act, in like manner as municipal taxes.

6 OWNER'S LIABILITY

- 6.1 The Owner shall be liable for any contravention of this Bylaw arising on the parcel to which the water service connection is provided, whether the contravention is actually committed by the Owner or by a third party renting, leasing, or having access to the property.

7 OWNER'S RESPONSIBILITIES

7.1 Every Owner shall:

- a) Ensure that the terms and conditions of this Bylaw are not contravened on their property;
- b) Install, maintain, repair or replace as necessary all defective private service works which are leaking or are otherwise not in good repair such that they are a cause of waste of water, at their sole cost;
- c) Give immediate notice to the Regional District of any failure or problem with the water system of which the Owner becomes aware;
- d) Protect all private service works and the water meter from freezing, heat or other severe conditions;
- e) Close the private service works main water supply valve when the premises are vacant; and
- f) Pay all costs, rates, charges, fees, and penalties that may be imposed pursuant to this Bylaw.

7.2 Consumers using water for processes which require a guaranteed supply and pressure, or a critical standard of purity shall, at their expense, provide such equipment as necessary to provide the required standards and to protect such equipment from damage due to variations in or cessation of the Regional District water supply.

7.3 Where the water service connection on a premises is identified by the inspector as having a high risk of backflow, the Owner shall install, at his or her own expense, air gaps or backflow prevention devices which conform with CSA B64.10 "Selection and Installation of Backflow Preventers" and in the opinion of the Regional District Officer, are sufficient to prevent backflow from the premises and from any fixtures on the premises.

7.4 The Owner and occupant must ensure that:

- a) Air gaps and backflow prevention devices are installed in compliance with the BC Building Code and maintained in good operating condition at all times;
- b) The backflow prevention device is tested before the anniversary of the date it has been installed, cleaned, repaired, relocated or tested previously;
- c) The test required by clause b) is conducted by an individual currently certified in the Province of British Columbia to competently conduct tests of backflow prevention devices; and
- d) The results of the test required by clause b) are received by the Regional District within 30 days after the test has been conducted and if the results are not received by the Regional District, the Regional District may conduct or coordinate the test at the expense of the Owner.

7.5 Where the Regional District Officer determines that a cross connection or backflow prohibited by this Bylaw is an immediate risk to the water system or any person, or if an Owner fails to correct any cross connection or backflow as required by this Bylaw, the Regional District may order and undertake, at the expense of the Owner, the turning off or disconnection of the water system to the property without notice until such time as the cross connection or backflow is corrected.

8 INTERFERENCE WITH THE WATER SYSTEM

- 8.1 No person other than the Regional District Officer or a contractor authorized by the Regional District shall:
- a) enter into or work upon the water system;
 - b) connect or disconnect a water service connection, line, pipe, or other appurtenance to the water system;
 - c) uncover, cover, damage, injure, tamper with, alter, modify, maintain, operate or interfere with the water system;
 - d) obstruct or impede or impair free, clear and easy access to any hydrant, standpipe, valve or other fixture or appurtenance forming part of the water system; or
 - e) block the access of a utility corridor or by any means change or obstruct the utility corridor.

9 WATER SERVICE CONNECTIONS

- 9.1 Where an Owner applies to connect to a Regional District water system and the water service connection must be installed in order to service the property the Owner shall be responsible for all capital costs pertaining to the installation of the water service connection as set out in Schedule "A".
- 9.2 Additional water service connections and their locations must be approved by the Regional District Officer.
- 9.3 Each parcel shall be limited to one water service connection to the property line except:
- a) each residential unit on a property zoned for multiple dwellings or dwelling units shall each have a separate water service connection.
 - b) where limitations in site servicing, development restrictions, future subdivision, or proposed stratification exist, the Owner may make application for additional water service connections.
- 9.4 The Regional District reserves the right to refuse to install water service connections under frost conditions.
- 9.5 Connections to the water system must be made through a pressure reducing valve, which is to be located within the premises, and connected directly to the water system. The pressure reducing valve is to be installed prior to the residential water distribution works and after the water meter, and is to be installed and maintained by the Owner.
- 9.6 If the Regional District deems that a premises is connected to the water system and has unauthorised works the Owner may be liable to penalty for breaching this Bylaw as set out in Schedule "A", the water service may be shut off or disconnected, or a water meter pit and pit water meter may be installed at the expense of the Owner.

10 WATER SYSTEM EXTENSIONS

- 10.1 Where an Owner applies to connect to a Regional District water system and the water system must be extended to service the property, the Owner shall be responsible for all costs pertaining to the extension of the water system as set out in Schedule "A", including all required security deposits.
- 10.2 The Regional District reserves the right to refuse to install water system extensions under frost conditions.

11 APPROVAL TO CONNECT

- 11.1 Any Owner of real property or their authorized agent wishing to connect any building or structure to a Regional District water system shall make a building permit application for a water service connection to the Regional District and pay the applicable fees and charges set out in Schedule "A" of this Bylaw for that connection.
- 11.2 Applications for turning on the supply of water from the water system shall be made in writing to the Regional District and shall be accompanied by the fee set out in Schedule "A" of this Bylaw.
- 11.3 All applications for connection shall state the use of the premises for which the water system is to be connected, the number of dwelling units, the legal description and location of the property or premises to which the connection is to be made, and any other information that may be necessary to accurately assess the fees and charges applicable to the connection.
- 11.4 Fees and charges are payable when the building permit application is made.
- 11.5 Approval for connection to the water system shall not be granted until the Owner or his agent:
- a) Submits an application for a building permit;
 - b) Pays all applicable fees and charges;
 - c) Complies with the provisions of this bylaw, and any other applicable Regional District Bylaws; and
 - d) Complies with the BC Building Code.
- 11.6 The Regional District may inspect any works undertaken to determine compliance with a building permit, this and any other Regional District bylaw, and the BC Building Code, and may accept or reject the work for the purposes of Section 11.3 of this Bylaw.
- 11.7 Any person who applies to the Regional District to turn on the supply of water from the water system for any new building shall provide confirmation that the private service works were satisfactorily tested, inspected and approved by the Regional District, including satisfactorily inspected for connections and cross connections.
- 11.8 Where a security deposit is required by Schedule "A" prior to the completion of any works, the applicant will be reimbursed any remaining balance of the security deposit upon completion of the works. If the security deposit is insufficient to cover the costs of the works, then the remaining amount shall be added to the Owner's first invoice, and if unpaid shall be recoverable in accordance with Section 14.6 of this Bylaw.

12 TURN OFF OR DISCONNECTION

- 12.1 Applications for turning off or disconnecting the supply of water from the water service connection shall be made in writing to the Regional District and shall be accompanied by the fee set out in Schedule "A" of this Bylaw.
- 12.2 The Regional District may turn off the water service connection to any property or premises for any of the following reasons:
- a) maintaining, repairing, renovating, replacing, disinfecting or otherwise operating the water system;
 - b) excessive use of water, as determined by the Regional District Officer, that may put the water system at risk, including but not limited to exceeding water licence restrictions or consumption restrictions;
 - c) wasteful use of water;
 - d) violation of any water use regulations or provisions of this Bylaw;
 - e) non-payment of costs, rates, charges, fees, and/or penalties under this Bylaw;
 - f) failure to repair or replace defective pipes, fittings, valves, tanks or appliances which are leaking or are otherwise not in a good state of repair and which are or may become a cause of waste of water; or
 - g) where an emergency threatens the safety of the water system or the public.
- 12.3 The Regional District may disconnect the water service connection to any property or premises for any of the following reasons:
- a) approval of a request to discontinue water service to a property;
 - b) violation of a provision of this Bylaw; or
 - c) where the property or premises are deemed to be inaccessible and such inaccessibility is not remedied within 90 days of giving notice to the Owner that the property or premises is inaccessible.
- 12.4 An Owner whose water service has been turned off or disconnected for non-compliance with this Bylaw will be subject to a water service turn off fee or disconnection fee and a further service charge to restore the connection in accordance with Schedule "A".
- 12.5 The Regional District shall not be liable for any damages that may result from the turn off or disconnection of the water service connection or the restriction of water use pursuant to this section.
- 12.6 Where the water service connection is to be turned off:
- a) for non-payment of costs, rates, charges, fees, and/or penalties under this Bylaw, the District will give 30 days' advance notice to the Owner;
 - b) for maintenance, repair, renovation, replacement, disinfection or other operation of the water system, the Regional District will give 2 working days' advance notice for scheduled work;
 - c) for any other reason, the Regional District will give 7 days' advance notice to the Owner;
 - d) except that no advance notice will be given in the case of an emergency, and no notice will be given in any event or where safety of life or property is at risk.

12.7 Where the water supply is to be turned off or disconnected for reason of non-compliance with any provision of this Bylaw, except the non-payment of costs, rates, charges, fees or penalties, the Regional District will give the person affected the opportunity to make representations to the Regional Board in respect of such non-compliance.

12.8 Notice under Section 12.6 of this Bylaw may be given by one or more of the following:

- a) posting notice on the property or premises;
- b) providing notice on an invoice for water;
- c) mailing notice to the address of the property or premises.

12.9 The Regional District is not responsible for any notice failing to reach an Owner or other consumer of water prior to the turn off or disconnection of water.

13 WATER METERS

13.1 All water service connections shall include a water meter.

13.2 Only one water meter shall be installed for all of the land shown on a strata plan that receives the supply of water from the water system from the same water service connection, except land shown on a bare land strata plan.

13.3 An Owner will be charged for the water meter when a building permit application is received for a connection to a water system. All water meters will be supplied by the Regional District and shall remain the property of the Regional District.

- a) Pit water meters are mandatory for all water service connections, unless otherwise approved by the Regional District Officer.
- b) No drain valve, water bypass, branch line or any other type of fixture through which water may be taken shall be located upstream of a water meter, unless otherwise necessary for the operation of the water system, and approved by the Regional District Officer.
- c) Pit water meters will be installed in a water meter pit at the water service connection by the Regional District or its contractor. The water meter pit will also be installed by the Regional District or its contractor and remain the property of the Regional District
- d) No person shall tamper with any water meter so as to alter the amount of water registered thereby.
- e) If the Regional District deems that a premises is unmetered or is inaccessible to install a water meter, repair a water meter, or to obtain a meter read due to gates, unrestrained dogs or any other reason, the Owner may be liable to penalty for breaching this Bylaw as set out in Schedule "A", the water service may be shut off or disconnected, or a water meter pit and pit water meter may be installed at the expense of the Owner.
- f) The Regional District shall maintain and repair all water meters when rendered unserviceable through reasonable wear and tear; however if any water meter is damaged, broken, lost or removed from the property, the Owner shall be liable for the cost of a replacement water meter, in an amount set out in Schedule "A" of this Bylaw.

13.4 If any water meter stops, sticks or fails to indicate correctly the quantity of water which is passing or which has passed through it, the Regional District shall be entitled to charge for such water according to the average consumption of the 12 months immediately preceding the date upon which such meter was last found to be in good order.

- 13.5 Water service connections may have an in-home water meter installed, if approved by the Regional District Officer. In-home water meters will be installed in accordance with standard drawing M-1 as found in Schedule "C".
- a) An existing water service connection with an in-home water meter may require installation of a water meter pit and pit water meter at the expense of the Owner at time of building permit or at the discretion of the Regional District Officer.

14 FEES & CHARGES

- 14.1 Every Owner of property and/or premises situated within the service boundary of a Regional District Water Service Area shall pay to the Regional District the fees and charges established in accordance with this Bylaw, as prescribed in Schedule "A".
- 14.2 Every Owner of property and/or premises situated within the service boundary of a Regional District Water Service Area shall pay to the Regional District User fees and Charges established by separate bylaw for the applicable service area.
- a) User fees shall apply to all parcels connected to the water system where the water service is turned on and will continue to apply until the parcel is disconnected from the water system or the Regional District Officer approves termination of applicable User fees.
- b) An Owner may apply to the Regional District Officer for a one-time full or partial exemption of the consumption based user fees in the event of an emergency or unexpected usage due to failure of a portion of private service works or similar occurrence.
- 14.3 Every Owner of property and/or premises situated within the service boundary of a Regional District Water Service Area shall pay to the Regional District the Asset renewal fees and Charges established by separate bylaw for the applicable service area.
- a) Asset renewal fees shall apply to all parcels, vacant or otherwise, and shall commence immediately upon registration of a property in the Land Title Office.
- 14.4 Fees will be billed quarterly or other established interval and all fees shall be due and payable 30 days after the billing date.
- 14.5 A late payment penalty of four percent (4%) will be assessed each quarter (compounded quarterly 16.99% per annum) on all outstanding balances accrued under this Bylaw or its predecessors and not paid by the due date.
- 14.6 The costs, rates, charges, fees and/or penalties required to be paid by this Bylaw shall form a charge against the parcel serviced, and if such costs, rates, charges, fees and/or penalties are unpaid on December 31st of the year in which they become payable, they shall be entered by the Regional District's Collector in the Collector's Roll next prepared, and transferred to the tax roll in the next succeeding year as arrears of taxes against the parcel from which they arose, and such amount may be recovered with interest at such rate as may be authorized from time to time by the Local Government Act, in like manner as municipal taxes. Payments must be received by December 15th to ensure adequate processing time at year end.

- 14.7 Any connection fees, fees for additional connections or extensions, and water meter fees must be paid 10 days prior to installation or connection to the water system.
- 14.8 The water meter fees set out in Schedule "A" include the water meter and water meter setting fittings, all of which will be supplied and owned by the Regional District.
- 14.9 The pit water meter charge in Schedule "A" also includes installation of the meter in an Owner supplied and installed water meter pit.

15 PROHIBITIONS

- 15.1 Pumps, boosters, or other devices that have the effect of increasing water pressure in the water service connection to a pressure that is higher than the normal water pressure in the water service connection are prohibited without a backflow prevention device.
- 15.2 No person shall sell any water obtained from the water system, allow any water to be used on a parcel other than the parcel for which the water service connection has been provided, or permit any water to be taken from the parcel for which the water service connection has been provided.
- 15.3 No person will introduce, or allow to be introduced, any contaminants or pollutants into a Regional District water system.
- 15.4 No person shall connect, cause to be connected, or allow to remain connected any piping fixture, fitting, container, appliance, or cross connection that could cause or allow drinking water quality, the water system, or a private service to become contaminated, degraded or polluted in any way.
- 15.5 No person shall connect, or cause to be connected, and the Owner or occupant of the premises must not permit to be connected, a pipe, fixture, fitting, container or appliance in a manner which, under any circumstances, permits or facilitates backflow into the Regional District's water system.
- 15.6 No person shall demolish, move, remove or substantially alter any building connected to the water system, without first applying to the Regional District to turn off or disconnect the water service connection to that property and paying the applicable fee set out in Schedule "A".

16 OUTDOOR WATER USE RESTRICTIONS

- 16.1 The Regional District may, at its discretion, and whenever the public interest so requires, suspend or limit the consumption of water from the water systems, or regulate the hours or days of use, or may further prescribe the manner in which such water may be used.
- 16.2 The following sprinkling hours apply at all times, subject to sprinkling restrictions:
 - a) Properties equipped with an automated time clock sprinkler system may only sprinkle between the hours of 12:00 midnight to 6:00 a.m. on the days permitted by the sprinkling restrictions as identified below.
 - b) Properties equipped with only manually controlled sprinkling systems, including those

attached to outside taps, may only operate from 6:00 a.m. to 11:00 a.m. and from 6:00 p.m. to 12:00 midnight on the days permitted by the sprinkling regulations as identified below.

- c) A person using a watering can or hose with a spring-loaded nozzle may hand water any time of the day.

16.3 Sprinkling Restrictions – Sprinkling Days

Stage 1 Alternate Days Sprinkling:		
Effective		September 16th to June 15th, unless Notice of Stage 3 or 4 in Effect
Even numbered addresses:		Sprinkling is only permitted on Even Calendar Days
Odd numbered addresses:		Sprinkling is only permitted on Odd Calendar Days
Stage 2 Twice a Week Sprinkling:		
Effective		June 16th to September 15th, unless Notice of Stage 3 or 4 in Effect
Even numbered addresses:		Sprinkling is only permitted on Saturdays & Tuesdays
Odd numbered addresses:		Sprinkling is only permitted on Sundays & Wednesdays
Stage 3 Restriction Period - Once a Week Sprinkling:		
Effective		Upon Notice Issued by Regional District Officer
Even numbered addresses:		Sprinkling is only permitted on Saturdays
Odd numbered addresses:		Sprinkling is only permitted on Sundays
Stage 4 Restriction Period – No Sprinkling		
Effective		Upon Notice Issued by Regional District Officer

- a) During a Stage 3 sprinkling restriction period there shall be no outdoor water use for the following purposes:
- to fill a swimming pool, hot tub, garden pond, or decorative fountain;
 - wash a vehicle or boat with water; or
 - wash driveways or sidewalks or patios.
- b) During a Stage 4 sprinkling restriction period there shall be no outdoor water use for any purpose.

16.4 The following operations or activities that rely on a steady supply and use of water are automatically exempt from any sprinkling restrictions:

- nurseries;
- farms;
- orchards;
- vineyards;
- washing exterior building surfaces, including windows, parking lots, driveways or sidewalks, prior to the application of a product such as paint, preservative, or stucco, or preparation of a surface prior to paving or repainting or bricklaying, or if required by law to comply with health and safety regulations.

16.5 The following sprinkling restriction exemptions apply; however, there are no exemptions during a Stage 4 Restriction Period:

- a) A person may water new trees and shrubs during installation and for the following 24 hours, but after that exemption period watering must comply with the sprinkling restrictions.
- b) A person may sprinkle new sod during the sprinkling hours set out in Section 16.2 for a period of 21 days after installation, but after the exemption period must comply with the sprinkling restrictions.
- c) A person may sprinkle newly seeded lawn during the sprinkling hours set out in Section 16.2 for a period of 49 days or until growth is established, whichever is less, but after the exemption period must comply with the sprinkling restrictions.

16.6 No person shall allow water to flow wastefully to parking lots, driveways, sidewalks, roadways or structures while sprinkling.

17 HYDRANT USE PERMIT

17.1 The Regional District may issue Hydrant Use Permits on terms and conditions outlined in this section and Schedule "B".

17.2 The Regional District may issue a Hydrant Use Permit for the purposes of:

- a) construction road compaction;
- b) construction dust control;
- c) construction water main testing;
- d) utility line flushing;
- e) wellpoint dewatering installation;
- f) road sweeping; or
- g) tanker truck filling.

17.3 The Regional District may refuse to issue a Hydrant Use Permit where such issuance may result in a risk to the water system, in the sole discretion of the Regional District Officer.

17.4 The Regional District, in issuing a Hydrant Use Permit, may impose terms and conditions regarding the use of the hydrant as follows:

- a) the location of the hydrant that may be used;
- b) the type of hydrant that may be used;
- c) the dates and time when the hydrant may be used;
- d) the type of backflow prevention device required; and
- e) precautions to be taken in connecting to and using the hydrant.

17.5 A backflow prevention device or an approved air gap must be installed prior to any connection to a hydrant pursuant to a Hydrant Use Permit. A current test report for backflow prevention devices (if applicable) must be available on request.

17.6 No person shall operate any hydrant or use water drawn from any hydrant pursuant to a Hydrant Use Permit, otherwise than in accordance with the terms and conditions of the Hydrant Use Permit.

17.7 At any time the Regional District may cancel or suspend a Hydrant Use Permit issued pursuant to this Bylaw:

- a) if the Regional District considers that the use of the hydrant may result in a risk to the water system; or
- b) if the Hydrant Use Permit holder fails to comply with the provisions of this Bylaw or the terms and conditions of the Hydrant Use Permit.

17.8 Any damage to the hydrant or the water system as a result of hydrant use will be repaired at the applicant's expense.

18 OWNERSHIP OF WATER SYSTEM

18.1 All water pipes, connections, appurtenances, or facilities required to provide water to an Owner's property line shall be owned by the Regional District. This includes, but is not limited to, all works that are located within a highway or a statutory right of way, or lands owned by the utility regardless of whether they were constructed at the expense of the Owner or the Regional District.

18.2 All water meters, either pit or in-home water meters, located within an Owner's property or premises, shall be owned by the Regional District.

19 PRESSURE, SUPPLY, AND QUALITY

19.1 The Regional District does not guarantee a constant pressure, continuous supply of water or direction of water flow, and it reserves the right at any and all times, without notice, to change operating conditions for the purposes of making repairs, extensions, alterations or improvements or for any other reason.

19.2 The Regional District, its Board, officers, agents, or employees shall not incur any liability for damage or other loss caused by changes in water pressure, shutting off water or change in direction of flow or by reason of the water containing sediments, deposits or other foreign matter.

20 LIMITATION OF LIABILITY

20.1 Water is provided on the condition that the Owner makes no claim against the Regional District, its Board or Council, or its officers, agents, and employees acting within the scope of their employment. It is further a condition that the Owner shall make no claim for any indirect, incidental, or consequential damage. Nothing contained in the Bylaw shall be construed to impose any liability on the Regional District to provide water to any person or premises or to provide a continuous supply of water or water of any particular quantity or quality to any person or premises.

20.2 Any supply of water by the Regional District is subject to the following conditions, in addition to other conditions in this Bylaw:

- a) the Regional District is not responsible for the failure of the water supply as a result of any accident or damage to the water system;

- b) the Regional District is not responsible for any excessive water pressure or lack of water pressure;
- c) the Regional District is not responsible for any temporary stoppage of the water supply on account of alterations or repairs to the water system; whether such arises from the negligence of any person employed by the Regional District or another person, or through natural deterioration or obsolescence of the water system or otherwise.

21 INDEMNIFICATION

- 21.1 Water is provided on the condition that the Owner indemnify and save harmless the Regional District, its Board or Council, or its officers, agents, and employees in respect of all claims arising from the provision of the water.

22 RIGHT OF ENTRY

- 22.1 The Regional District Officer is authorized to enter upon any property or premises at any reasonable time for the purpose of inspecting the lands and improvements and all parts of the water system and private service works thereon, and for the purpose of testing, repairing, replacing, maintaining and of doing such work as necessary to ensure the proper functioning of the water system including without limitation all pipes, valves, meters and appurtenances situated on the parcel, and to ensure compliance with, or prevent violation of, the provisions of this Bylaw.
- 22.2 The Owner or occupant shall provide adequate, convenient, and unobstructed access, failing which the property or premises may be considered inaccessible.

23 ORDER TO COMPLY

- 23.1 The Regional District Officer may order an Owner or occupant who contravenes this Bylaw to comply with the Bylaw within a specified time.
- 23.2 Where an Owner does not comply with such an order within the specified time, the Regional District Officer may order the action contained in the order to be performed by Regional District employees, or others, and the cost to the Regional District of so doing may be recovered from the Owner by the Regional District as if the same were a debt due the Regional District. The amount of such cost, when certified by the Regional District Officer, if not before paid, shall be entered by the Regional District's Collector in the Collector's Roll next prepared after the receipt of the certificate and such amount may be recovered with interest at such rate as may be authorized from time to time by the Local Government Act, in like manner as municipal taxes.

24 VIOLATION

- 24.1 Any person who:
- a) violates the provisions of this Bylaw;
 - b) causes or permits any act in contravention or violation of the provisions of this Bylaw;
 - c) neglects or omits Bylaw requirements;
 - d) fails to comply with bylaw orders, directions, or notices; or
 - e) prevents, obstructs or attempts to prevent or obstruct the authorized entry of any

Regional District Officer authorized under this bylaw;

commits an offence against this Bylaw. Each day that a violation is permitted to continue shall constitute a new and distinct offence.

25 PENALTIES

25.1 Any person who violates any provision of this Bylaw may, on summary conviction, be liable to the maximum penalty under the Offence Act, plus the cost of prosecution, for each offence.

25.2 The penalties imposed under this section are a supplement and not a substitute for any other remedy to an infraction of this Bylaw.

26 CITATION

26.1 This Bylaw may be cited for all purposes as the "Regional District of Central Okanagan Water Systems Regulations Bylaw No. 1513, 2023".

27 ENACTMENT AND TRANSITIONAL

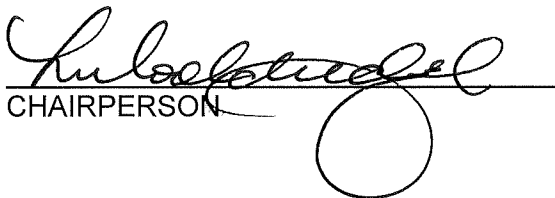
27.1 The "Regional District of Central Okanagan Water systems Fees and Regulations Bylaw No. 1370, 2015", as amended, is hereby repealed.

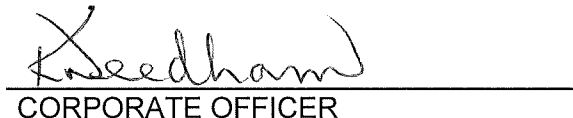
27.2 This Bylaw comes into effect on the date of adoption.

27.3 Any fees which became due and payable under the Regional District of Central Okanagan Water systems Fees and Regulations Bylaw No.1370, 2015, prior to its repeal, are recoverable under this Bylaw.

READ A FIRST, SECOND AND THIRD TIME THIS 12 DAY OF JANUARY 2023

ADOPTED THIS 12 DAY OF JANUARY 2023


CHAIRPERSON


CORPORATE OFFICER

SCHEDULE "A" FEES & CHARGES

1. Application Fees

- a) Connection fee (/residential unit).....\$200.00
 b) Water meter Fees (/meter):

Meter Type	Jan, 2023	Jan, 2024	Jan, 2025	Jan, 2026	Jan, 2027
5/8"x3/4" diameter	\$ 1,170.00	\$ 1,240.00	\$ 1,310.00	\$ 1,380.00	\$ 1,470.00
Other	Supplier cost plus 20% administration fee				

2. Water system Fees for Extensions, Additional Service Connections, & Water Meter Pits:

The Fees for an Extension, an Additional Service Connection, or a water meter pit are each calculated as follows:

$$\text{\$} = (\text{All off-site capital costs}) + (6\% \text{ administration fee}) + (25\% \text{ security deposit})$$

Where:

- The capital costs and administration fee have the following minimums:
 - Off-site capital costs \$3,000; and
 - Administration fee \$ 500.
- Any additional costs incurred will be at the expense of the Owner.
- The Regional District Officer may reduce or remove these fees if alternate funding is available for the applicable capital costs.

3. Water system Disconnection fee:

The Fees for disconnection of an existing water service connection are calculated as follows:

$$\text{\$} = (\text{All off-site capital costs}) + (6\% \text{ administration fee})$$

Where:

- The capital costs and administration fee have the following minimums:
 - Off-site capital costs \$1,000; and
 - Administration fee \$ 250.
- Any additional costs incurred will be at the expense of the Owner.

4. Call-Out Service Fees:

- a) Water Service turn on or turn off
 (1 of each per year, by appointment only).....\$0.00
 b) Water Service turn on or turn off
 (Beyond 1 of each per year, by appointment only)\$150.00
 c) After Hours Water Service turn-on or turn-off.....\$300.00
 d) Water Service locates, elevation adjustments, miscellaneous
 (by appointment only).....\$150.00

5. Inaccessible or Unmetered Property or Premises Penalty..... \$250.00/billing period

SCHEDULE "B" HYDRANT USE PERMIT

HYDRANT NO. _____

Name Of Hydrant User _____ Phone No _____
Name Of Contact Person _____ Phone No _____
Purpose For Use _____
Name Of Water System _____
Location Of Hydrant _____
Estimated Volume Required _____
Estimated Duration Required _____
Date Start: _____ Date Finish: _____

OFFICE USE ONLY

Authorized By _____
Date Serviced _____
Additional Terms and Conditions of Permit:

SPECIAL NOTES:

Resale as potable water is prohibited.

A non-refundable application fee of \$100, plus \$50 per day of proposed use, is required upon application.

The permit must be in the **possession of the user** when operating the hydrant.

A gate valve shall be installed on the hydrant to control flow. The operating wheel shall be removed when leaving the hydrant unattended. **Ball valves are not to be used for control.**

The connection shall be removed by the end of each working day, except by written permission.

Approved backflow prevention assemblies or an approved air gap must be used.

A current test report for backflow prevention assemblies (if applicable) must be available on request.

A water meter must be used and water consumption must be recorded daily and reported to the Regional District of Central Okanagan.

The hydrant must be fully open for use.

Only hydrant wrenches are to be used (no pipe wrenches).

Regional District of Central Okanagan reserves the right to restrict or terminate hydrant use.

The applicant acknowledges that any damage to the hydrant or the water main as a result of hydrant use will be repaired at the applicant's expense.

Any connection to any fire hydrant without permitted approval will be subject to penalties authorized by the Regional District of Central Okanagan Water systems Bylaw and the Regional District of Central Okanagan Fire Prevention and Regulations Bylaw.

The following Hold Harmless and Indemnification Clause applies to this permit:

The Hydrant User shall be liable for all loss, costs, damages, and expenses whatsoever incurred or suffered by the Regional District of Central Okanagan, its elected officials, officers, employees and agents (the Indemnitees) including but not limited to damage to or loss of property and loss of use thereof, and injury to or death of a person or persons resulting from or in connection with the performance, purported performance, or non-performance of this Permit, excepting only where such loss, costs, damages and expenses are as a result of the sole negligence of the Indemnitees.

The Hydrant User shall defend, indemnify and hold harmless the Indemnitees from and against all claims, demands, actions, proceedings, and liabilities whatsoever and all costs and expenses incurred in connection therewith and resulting from the performance, purported performance, or non-performance of this Permit, excepting only where such claim, demand, action, proceeding or liability is based on the sole negligence of the Indemnitees.

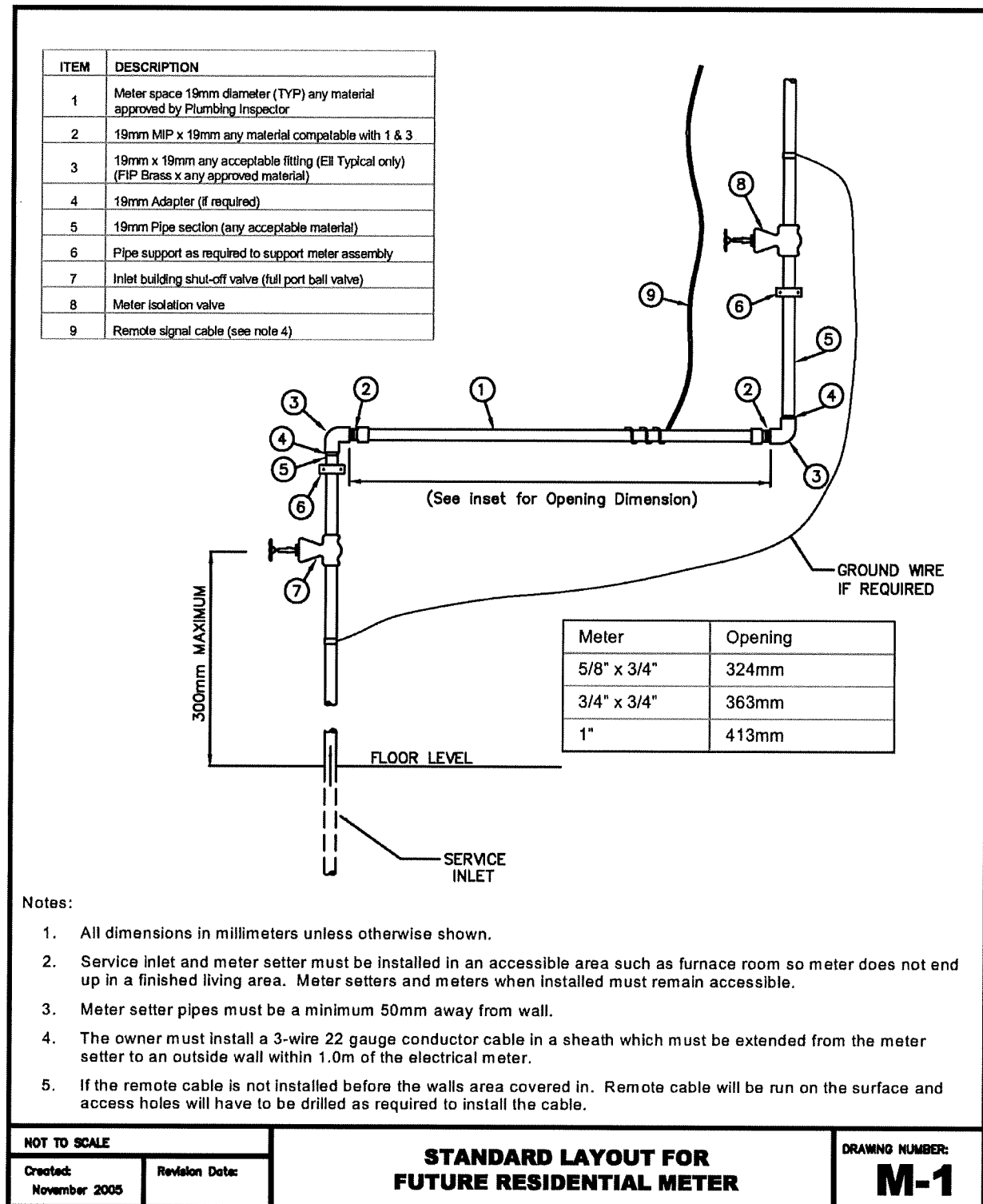
I HAVE READ AND UNDERSTAND THE ABOVE CONDITIONS.

Signature

Date

CC: Applicable Fire Department
RDCO Water Operator

SCHEDULE "C" M-1 STANDARD LAYOUT FOR FUTURE RESIDENTIAL METER



Appendix 2

Additional Chemical Data

TEST RESULTS

REPORTED TO PROJECT Regional District of Central Okanagan
Falconridge

WORK ORDER REPORTED 24C1602
2024-03-20 16:25

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Pumphouse (24C1602-01) | Matrix: Drinking Water | Sampled: 2024-03-13 11:20

Anions

Chloride	12.0	AO ≤ 250	0.10	mg/L	2024-03-15	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2024-03-15	
Nitrate (as N)	0.037	MAC = 10	0.010	mg/L	2024-03-15	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2024-03-15	
Sulfate	8.9	AO ≤ 500	1.0	mg/L	2024-03-15	

Calculated Parameters

Total Trihalomethanes	0.0996	MAC = 0.1	0.00400	mg/L	N/A	
Hardness, Total (as CaCO ₃)	74.6	None Required	0.500	mg/L	N/A	
Langelier Index	-1.1	N/A	-5.0		2024-03-20	CT6
Solids, Total Dissolved	109	AO ≤ 500	1.00	mg/L	N/A	

Field Parameters

Chlorine, Free	1.60	N/A	0.02	mg/L	2024-03-13	
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General Parameters

Alkalinity, Total (as CaCO ₃)	82.5	N/A	1.0	mg/L	2024-03-15	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2024-03-15	
Alkalinity, Bicarbonate (as CaCO ₃)	82.5	N/A	1.0	mg/L	2024-03-15	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2024-03-15	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2024-03-15	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2024-03-19	
Conductivity (EC)	191	N/A	2.0	µS/cm	2024-03-15	
Cyanide, Total	0.0047	MAC = 0.2	0.0020	mg/L	2024-03-16	
pH	7.21	7.0-10.5	0.10	pH units	2024-03-15	HT2
Temperature, at pH	21.8	N/A		°C	2024-03-15	HT2
Turbidity	0.34	OG < 1	0.10	NTU	2024-03-15	

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2024-03-14	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2024-03-14	

Total Metals

Aluminum, total	0.0187	OG < 0.1	0.0050	mg/L	2024-03-19	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-03-19	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-03-19	
Barium, total	< 0.0050	MAC = 2	0.0050	mg/L	2024-03-19	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-03-19	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-03-19	
Calcium, total	21.7	None Required	0.20	mg/L	2024-03-19	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-03-19	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-03-19	
Copper, total	0.00254	MAC = 2	0.00040	mg/L	2024-03-19	
Iron, total	0.025	AO ≤ 0.3	0.010	mg/L	2024-03-19	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-03-19	

TEST RESULTS

REPORTED TO PROJECT Regional District of Central Okanagan
Falconridge

WORK ORDER REPORTED 24C1602
2024-03-20 16:25

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Pumphouse (24C1602-01) | Matrix: Drinking Water | Sampled: 2024-03-13 11:20, Continued

Total Metals, Continued

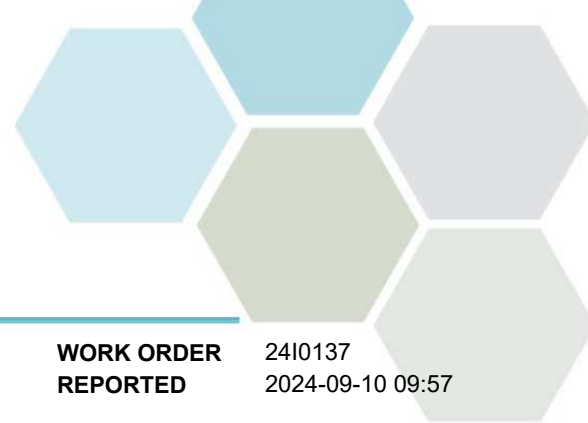
Magnesium, total	4.92	None Required	0.010	mg/L	2024-03-19	
Manganese, total	0.00060	MAC = 0.12	0.00020	mg/L	2024-03-19	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-03-17	
Molybdenum, total	0.00108	N/A	0.00010	mg/L	2024-03-19	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2024-03-19	
Potassium, total	0.87	N/A	0.10	mg/L	2024-03-19	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-03-19	
Sodium, total	10.4	AO ≤ 200	0.10	mg/L	2024-03-19	
Uranium, total	0.000516	MAC = 0.02	0.000020	mg/L	2024-03-19	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-03-19	

Volatile Organic Compounds (VOC)

Bromodichloromethane	0.0016	N/A	0.0010	mg/L	2024-03-20	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-03-20	
Chloroform	0.0980	N/A	0.0010	mg/L	2024-03-20	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-03-20	
Surrogate: Toluene-d8	110		70-130	%	2024-03-20	
Surrogate: 4-Bromofluorobenzene	110		70-130	%	2024-03-20	

Sample Qualifiers:

CT6 Results were based on lab temperature & lab pH.
HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.



TEST RESULTS

REPORTED TO PROJECT Regional District of Central Okanagan
Falconridge

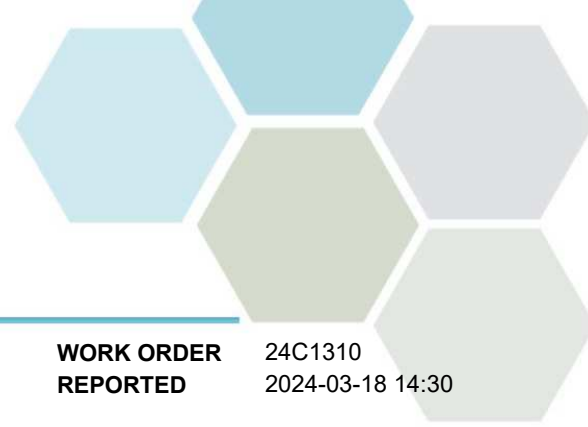
WORK ORDER REPORTED 2410137
2024-09-10 09:57

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Pumphouse (2410137-01) Matrix: Drinking Water Sampled: 2024-09-03 11:40						
Calculated Parameters						
Total Trihalomethanes	0.205	MAC = 0.1	0.0130	mg/L	N/A	
Field Parameters						
Chlorine, Free	2.00	N/A	0.02	mg/L	2024-09-03	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2024-09-04	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2024-09-04	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0013	N/A	0.0010	mg/L	2024-09-06	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-09-06	
Chloroform	0.203	N/A	0.0010	mg/L	2024-09-06	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-09-06	
Surrogate: Toluene-d8	98		70-130	%	2024-09-06	
Surrogate: 4-Bromofluorobenzene	70		70-130	%	2024-09-06	

TEST RESULTS

REPORTED TO PROJECT	Regional District of Central Okanagan Falconridge	WORK ORDER REPORTED	24J3701 2024-11-05 13:01
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Pumphouse (24J3701-01) Matrix: Drinking Water Sampled: 2024-10-29 11:00						
Calculated Parameters						
Total Trihalomethanes	0.202	MAC = 0.1	0.0130	mg/L	N/A	
Field Parameters						
Chlorine, Free	1.36	N/A	0.02	mg/L	2024-10-29	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	< 0.0010	N/A	0.0010	mg/L	2024-11-02	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-11-02	
Chloroform	0.202	N/A	0.0010	mg/L	2024-11-02	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-11-02	
Surrogate: Toluene-d8	89		70-130	%	2024-11-02	
Surrogate: 4-Bromofluorobenzene	77		70-130	%	2024-11-02	



TEST RESULTS

REPORTED TO PROJECT Regional District of Central Okanagan
Fintry / Shalal / Valley of the Sun

WORK ORDER REPORTED 24C1310
2024-03-18 14:30

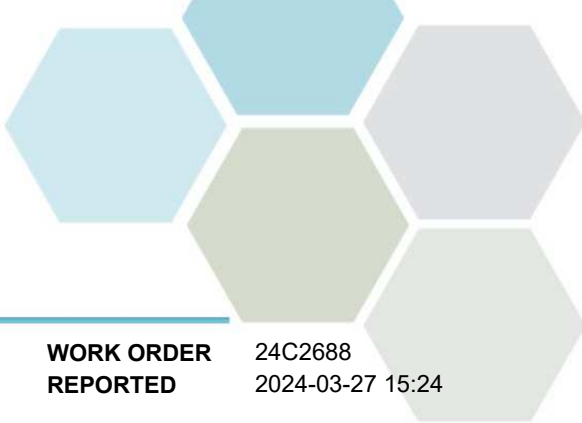
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Booster station (24C1310-01) Matrix: Drinking Water Sampled: 2024-03-11 10:15						
Calculated Parameters						
Total Trihalomethanes	0.0190	MAC = 0.1	0.00400	mg/L	N/A	
Field Parameters						
Chlorine, Free	0.87	N/A	0.02	mg/L	2024-03-11	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2024-03-12	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2024-03-12	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0014	N/A	0.0010	mg/L	2024-03-17	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-03-17	
Chloroform	0.0176	N/A	0.0010	mg/L	2024-03-17	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-03-17	
Surrogate: Toluene-d8	97		70-130	%	2024-03-17	
Surrogate: 4-Bromofluorobenzene	94		70-130	%	2024-03-17	

TEST RESULTS

REPORTED TO PROJECT Regional District of Central Okanagan
Fintry / Shalal / Valley of the Sun

WORK ORDER REPORTED 24C2688
2024-03-27 15:24

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Booster station (24C2688-01) Matrix: Drinking Water Sampled: 2024-03-20 09:30						
Anions						
Chloride	3.43	AO ≤ 250	0.10	mg/L	2024-03-24	
Fluoride	0.11	MAC = 1.5	0.10	mg/L	2024-03-24	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2024-03-24	HT1
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2024-03-24	HT1
Sulfate	8.0	AO ≤ 500	1.0	mg/L	2024-03-24	
Calculated Parameters						
Hardness, Total (as CaCO ₃)	126	None Required	0.500	mg/L	N/A	
Langelier Index	0.1	N/A	-5.0		2024-03-27	CT6
Solids, Total Dissolved	167	AO ≤ 500	1.00	mg/L	N/A	
Field Parameters						
Chlorine, Free	0.80	N/A	0.02	mg/L	2024-03-20	
General Parameters						
Alkalinity, Total (as CaCO ₃)	167	N/A	1.0	mg/L	2024-03-23	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2024-03-23	
Alkalinity, Bicarbonate (as CaCO ₃)	167	N/A	1.0	mg/L	2024-03-23	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2024-03-23	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2024-03-23	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2024-03-23	
Conductivity (EC)	308	N/A	2.0	µS/cm	2024-03-23	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-03-27	
pH	7.90	7.0-10.5	0.10	pH units	2024-03-23	HT2
Temperature, at pH	22.6	N/A		°C	2024-03-23	HT2
Turbidity	0.12	OG < 1	0.10	NTU	2024-03-23	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2024-03-27	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-03-27	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-03-27	
Barium, total	0.0111	MAC = 2	0.0050	mg/L	2024-03-27	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-03-27	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-03-27	
Calcium, total	36.7	None Required	0.20	mg/L	2024-03-27	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-03-27	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-03-27	
Copper, total	0.0124	MAC = 2	0.00040	mg/L	2024-03-27	
Iron, total	0.017	AO ≤ 0.3	0.010	mg/L	2024-03-27	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-03-27	
Magnesium, total	8.37	None Required	0.010	mg/L	2024-03-27	
Manganese, total	0.00065	MAC = 0.12	0.00020	mg/L	2024-03-27	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-03-26	
Molybdenum, total	0.00136	N/A	0.00010	mg/L	2024-03-27	



TEST RESULTS

REPORTED TO PROJECT	Regional District of Central Okanagan Fintry / Shalal / Valley of the Sun	WORK ORDER REPORTED	24C2688 2024-03-27 15:24
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Booster station (24C2688-01) Matrix: Drinking Water Sampled: 2024-03-20 09:30, Continued						
Total Metals, Continued						
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2024-03-27	
Potassium, total	1.26	N/A	0.10	mg/L	2024-03-27	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-03-27	
Sodium, total	7.71	AO ≤ 200	0.10	mg/L	2024-03-27	
Uranium, total	0.00244	MAC = 0.02	0.000020	mg/L	2024-03-27	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-03-27	

Sample Qualifiers:	
CT6	Results were based on lab temperature & lab pH.
HT1	The sample was prepared and/or analyzed past the recommended holding time.
HT2	The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

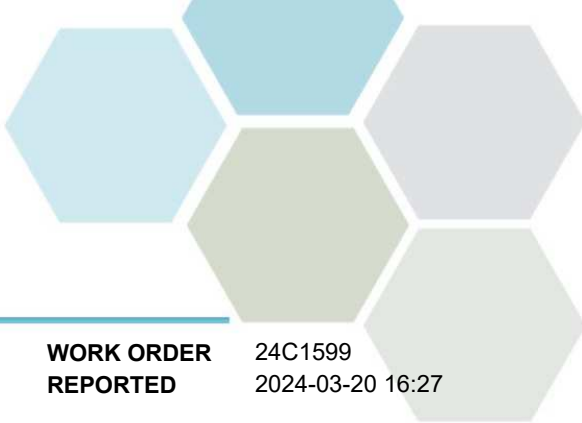


TEST RESULTS

REPORTED TO PROJECT	Regional District of Central Okanagan Fintry / Shalal / Valley of the Sun	WORK ORDER REPORTED	2410683 2024-09-11 12:12
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Booster station (2410683-01) Matrix: Drinking Water Sampled: 2024-09-05 08:45						
Calculated Parameters						
Total Trihalomethanes	0.0126	MAC = 0.1	0.00400	mg/L	N/A	
Field Parameters						
Chlorine, Free	0.95	N/A	0.02	mg/L	2024-09-05	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2024-09-06	HT3
E. coli	< 1	MAC = 0	1	CFU/100 mL	2024-09-06	HT3
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0013	N/A	0.0010	mg/L	2024-09-10	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-09-10	
Chloroform	0.0113	N/A	0.0010	mg/L	2024-09-10	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-09-10	
Surrogate: Toluene-d8	102		70-130	%	2024-09-10	
Surrogate: 4-Bromofluorobenzene	74		70-130	%	2024-09-10	

Sample Qualifiers:	
HT3	Microbiological analysis was initiated beyond the maximum holding time of 30 hours. Results may not be valid.



TEST RESULTS

REPORTED TO PROJECT	Regional District of Central Okanagan Star Place	WORK ORDER REPORTED	24C1599 2024-03-20 16:27
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Pumphouse (24C1599-01) Matrix: Drinking Water Sampled: 2024-03-13 09:00						
Calculated Parameters						
Total Trihalomethanes	0.0700	MAC = 0.1	0.00400	mg/L	N/A	
Field Parameters						
Chlorine, Free	1.30	N/A	0.02	mg/L	2024-03-13	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2024-03-14	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2024-03-14	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0033	N/A	0.0010	mg/L	2024-03-20	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-03-20	
Chloroform	0.0667	N/A	0.0010	mg/L	2024-03-20	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-03-20	
Surrogate: Toluene-d8	112		70-130	%	2024-03-20	
Surrogate: 4-Bromofluorobenzene	106		70-130	%	2024-03-20	

TEST RESULTS

REPORTED TO PROJECT Regional District of Central Okanagan
Star Place

WORK ORDER REPORTED 24C1601
2024-03-20 14:37

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Raw water-trepanier creek (24C1601-01) | Matrix: Water | Sampled: 2024-03-13 09:05

Anions

Chloride	31.4	AO ≤ 250	0.10	mg/L	2024-03-15	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2024-03-15	
Nitrate (as N)	0.086	MAC = 10	0.010	mg/L	2024-03-15	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2024-03-15	
Sulfate	16.2	AO ≤ 500	1.0	mg/L	2024-03-15	

Calculated Parameters

Hardness, Total (as CaCO ₃)	133	None Required	0.500	mg/L	N/A	
Langelier Index	-0.7	N/A	-5.0		2024-03-20	CT6
Solids, Total Dissolved	167	AO ≤ 500	1.00	mg/L	N/A	

General Parameters

Alkalinity, Total (as CaCO ₃)	92.9	N/A	1.0	mg/L	2024-03-15	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2024-03-15	
Alkalinity, Bicarbonate (as CaCO ₃)	92.9	N/A	1.0	mg/L	2024-03-15	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2024-03-15	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2024-03-15	
Colour, True	6.9	AO ≤ 15	5.0	CU	2024-03-19	
Conductivity (EC)	319	N/A	2.0	µS/cm	2024-03-15	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-03-16	
pH	7.34	7.0-10.5	0.10	pH units	2024-03-15	HT2
Temperature, at pH	21.3	N/A		°C	2024-03-15	HT2
Turbidity	0.59	OG < 1	0.10	NTU	2024-03-15	

Total Metals

Aluminum, total	0.260	OG < 0.1	0.0050	mg/L	2024-03-19	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-03-19	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-03-19	
Barium, total	0.0641	MAC = 2	0.0050	mg/L	2024-03-19	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-03-19	
Cadmium, total	0.000153	MAC = 0.007	0.000010	mg/L	2024-03-19	
Calcium, total	39.6	None Required	0.20	mg/L	2024-03-19	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-03-19	
Cobalt, total	0.00029	N/A	0.00010	mg/L	2024-03-19	
Copper, total	0.153	MAC = 2	0.00040	mg/L	2024-03-19	
Iron, total	0.299	AO ≤ 0.3	0.010	mg/L	2024-03-19	
Lead, total	0.0121	MAC = 0.005	0.00020	mg/L	2024-03-19	
Magnesium, total	8.29	None Required	0.010	mg/L	2024-03-19	
Manganese, total	0.0304	MAC = 0.12	0.00020	mg/L	2024-03-19	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-03-17	
Molybdenum, total	0.00529	N/A	0.00010	mg/L	2024-03-19	
Nickel, total	0.00236	N/A	0.00040	mg/L	2024-03-19	
Potassium, total	2.20	N/A	0.10	mg/L	2024-03-19	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-03-19	

TEST RESULTS

REPORTED TO PROJECT Regional District of Central Okanagan
Star Place

WORK ORDER REPORTED 24C1601
2024-03-20 14:37

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Raw water-trepanier creek (24C1601-01) Matrix: Water Sampled: 2024-03-13 09:05, Continued						
Total Metals, Continued						
Sodium, total	12.1	AO ≤ 200	0.10	mg/L	2024-03-19	
Uranium, total	0.00400	MAC = 0.02	0.000020	mg/L	2024-03-19	
Zinc, total	0.170	AO ≤ 5	0.0040	mg/L	2024-03-19	

Sample Qualifiers:

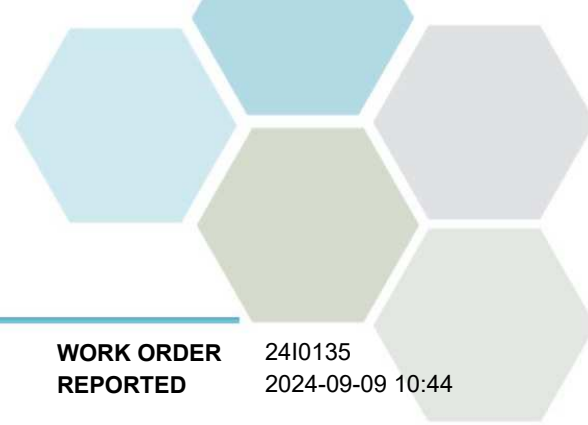
CT6 Results were based on lab temperature & lab pH.
HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.



TEST RESULTS

REPORTED TO PROJECT	Regional District of Central Okanagan Star Place	WORK ORDER REPORTED	24F2958 2024-06-26 12:30
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Trepanier Creek Raw Water (24F2958-01) Matrix: Water Sampled: 2024-06-24 07:45						
Field Parameters						
Chlorine, Free	1.70	N/A	0.02	mg/L	2024-06-24	
Total Metals						
Beryllium, total	< 0.00010	N/A	0.00010	mg/L	2024-06-26	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2024-06-26	



TEST RESULTS

REPORTED TO PROJECT Regional District of Central Okanagan
Star Place

WORK ORDER REPORTED 2410135
2024-09-09 10:44

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Pumphouse (2410135-01) Matrix: Drinking Water Sampled: 2024-09-03 10:30						
Calculated Parameters						
Total Trihalomethanes	0.0494	MAC = 0.1	0.00400	mg/L	N/A	
Field Parameters						
Chlorine, Free	1.50	N/A	0.02	mg/L	2024-09-03	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2024-09-04	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2024-09-04	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0035	N/A	0.0010	mg/L	2024-09-06	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-09-06	
Chloroform	0.0459	N/A	0.0010	mg/L	2024-09-06	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-09-06	
Surrogate: Toluene-d8	99		70-130	%	2024-09-06	
Surrogate: 4-Bromofluorobenzene	72		70-130	%	2024-09-06	

TEST RESULTS

REPORTED TO PROJECT Regional District of Central Okanagan
Star Place

WORK ORDER REPORTED 24C1601
2024-03-20 14:37

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
Raw water-trepanier creek (24C1601-01) Matrix: Water Sampled: 2024-03-13 09:05					
Anions					
Chloride	31.4	AO ≤ 250	0.10 mg/L	2024-03-15	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2024-03-15	
Nitrate (as N)	0.086	MAC = 10	0.010 mg/L	2024-03-15	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2024-03-15	
Sulfate	16.2	AO ≤ 500	1.0 mg/L	2024-03-15	
Calculated Parameters					
Hardness, Total (as CaCO ₃)	133	None Required	0.500 mg/L	N/A	
Langelier Index	-0.7	N/A	-5.0	2024-03-20	CT6
Solids, Total Dissolved	167	AO ≤ 500	1.00 mg/L	N/A	
General Parameters					
Alkalinity, Total (as CaCO ₃)	92.9	N/A	1.0 mg/L	2024-03-15	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2024-03-15	
Alkalinity, Bicarbonate (as CaCO ₃)	92.9	N/A	1.0 mg/L	2024-03-15	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2024-03-15	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2024-03-15	
Colour, True	6.9	AO ≤ 15	5.0 CU	2024-03-19	
Conductivity (EC)	319	N/A	2.0 µS/cm	2024-03-15	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2024-03-16	
pH	7.34	7.0-10.5	0.10 pH units	2024-03-15	HT2
Temperature, at pH	21.3	N/A	°C	2024-03-15	HT2
Turbidity	0.59	OG < 1	0.10 NTU	2024-03-15	
Total Metals					
Aluminum, total	0.260	OG < 0.1	0.0050 mg/L	2024-03-19	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2024-03-19	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050 mg/L	2024-03-19	
Barium, total	0.0641	MAC = 2	0.0050 mg/L	2024-03-19	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2024-03-19	
Cadmium, total	0.000153	MAC = 0.007	0.000010 mg/L	2024-03-19	
Calcium, total	39.6	None Required	0.20 mg/L	2024-03-19	
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2024-03-19	
Cobalt, total	0.00029	N/A	0.00010 mg/L	2024-03-19	
Copper, total	0.153	MAC = 2	0.00040 mg/L	2024-03-19	
Iron, total	0.299	AO ≤ 0.3	0.010 mg/L	2024-03-19	
Lead, total	0.0121	MAC = 0.005	0.00020 mg/L	2024-03-19	
Magnesium, total	8.29	None Required	0.010 mg/L	2024-03-19	
Manganese, total	0.0304	MAC = 0.12	0.00020 mg/L	2024-03-19	
Mercury, total	< 0.000010	MAC = 0.001	0.000010 mg/L	2024-03-17	
Molybdenum, total	0.00529	N/A	0.00010 mg/L	2024-03-19	
Nickel, total	0.00236	N/A	0.00040 mg/L	2024-03-19	
Potassium, total	2.20	N/A	0.10 mg/L	2024-03-19	
Selenium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2024-03-19	

TEST RESULTS

REPORTED TO PROJECT Regional District of Central Okanagan
Star Place

WORK ORDER REPORTED 24C1601
2024-03-20 14:37

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Raw water-trepanier creek (24C1601-01) Matrix: Water Sampled: 2024-03-13 09:05, Continued						
Total Metals, Continued						
Sodium, total	12.1	AO ≤ 200	0.10	mg/L	2024-03-19	
Uranium, total	0.00400	MAC = 0.02	0.000020	mg/L	2024-03-19	
Zinc, total	0.170	AO ≤ 5	0.0040	mg/L	2024-03-19	

Sample Qualifiers:

CT6 Results were based on lab temperature & lab pH.
HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

TEST RESULTS

REPORTED TO PROJECT Regional District of Central Okanagan
Star Place

WORK ORDER REPORTED 24C3063
2024-04-03 11:07

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Trepanier Creek Raw Water (24C3063-01) Matrix: Water Sampled: 2024-03-26 12:55						
<i>Total Metals</i>						
Lead, total	0.00490	MAC = 0.005	0.00020	mg/L	2024-04-01	
Trepanier Creek Intake Ditch (24C3063-02) Matrix: Water Sampled: 2024-03-26 12:40						
<i>Total Metals</i>						
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-04-01	
Pumphouse (24C3063-03) Matrix: Water Sampled: 2024-03-26 12:50						
<i>Field Parameters</i>						
Chlorine, Free	1.10	N/A	0.02	mg/L	2024-03-26	
<i>Total Metals</i>						
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-04-01	



TEST RESULTS

REPORTED TO PROJECT	Regional District of Central Okanagan Star Place	WORK ORDER REPORTED	24F2958 2024-06-26 12:30
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Trepanier Creek Raw Water (24F2958-01) | Matrix: Water | Sampled: 2024-06-24 07:45

Field Parameters

Chlorine, Free	1.70	N/A	0.02	mg/L	2024-06-24	
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Total Metals

Beryllium, total	< 0.00010	N/A	0.00010	mg/L	2024-06-26	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2024-06-26	

Appendix 3

Monthly Water System Data – total coliform, free chlorine, and turbidity

Falconridge Water System Data

Date	Sample Time	Chlorine Residual	Total Coli	E.Coli
	Time	mg/L	counts/100	counts/100
2024-01-03	Pumphouse 12:43	1.8	<1	<1
2024-01-08	Pumphouse 11:30	1.7	<1	<1
2024-01-15	Pumphouse 12:00	1.7	<1	<1
2024-01-24	Pumphouse 10:00	1.7	<1	<1
2024-02-05	Pumphouse 11:42	0.75	<1	<1
2024-02-13	Pumphouse 9:50	1.35	<1	<1
2024-02-20	Pumphouse 12:15	1.5	<1	<1
2024-03-01	Pumphouse 11:45	1.2	<1	<1
2024-03-04	Pumphouse 11:30	1.7	<1	<1
2024-03-13	Pumphouse 11:20	1.6	<1	<1
2024-03-18	Pumphouse 11:30	1.7	<1	<1
2024-03-25	Pumphouse 12:45	1.3	<1	<1
2024-04-03	Pumphouse 10:10	1.5	<1	<1
2024-04-10	Pumphouse 10:50	1.5	<1	<1
2024-04-15	Pumphouse 12:00	1	<1	<1
2024-04-22	Pumphouse 1:30	1.2	<1	<1
2024-05-06	Pumphouse 10:38	1.51	<1	<1
2024-05-13	Hawk Road SS 11:45	1.14	<1	<1
2024-05-21	Hawk Rd SS 12:00	1.2	<1	<1
2024-05-29	Pumphouse 10:30	1.4	<1	<1
2024-06-04	Hawk Rd SS 10:30	1.31	<1	<1
2024-06-11	Peregrine SS 11:30	1.3	<1	<1
2024-06-17	Pumphouse 11:20	1.5	<1	<1
2024-06-26	Hawk Road SS 9:20	1.39	<1	<1
2024-07-02	Hawk Rd SS 10:40	0.38	<1	<1
2024-07-08	Peregrine Rd SS 10:40	2	<1	<1
2024-07-16	Pumphouse 9:20	1.7	<1	<1
2024-07-23	Hawk Rd SS 10:15	0.8	<1	<1
2024-08-01	Peregrine BO 10:10	1.54	<1	<1
2024-08-02	Peregrine BO 11:05	1.8	<1	<1
2024-08-06	Hawk RD SS 1:30	0.43	<1	<1
2024-08-12	Pumphouse 11:00	2.2	<1	<1
2024-08-20	Pergrine Rd SS 10:15	0.84	<1	<1
2024-08-29	Hawk Rd SS 1:00	0.9	<1	<1
2024-09-03	Pumphouse 11:40	2	<1	<1
2024-09-10	Hawk Rd SS 11:30	0.77	<1	<1

2024-09-23 Hawk Rd SS	12:30	0.74	<1	<1
2024-10-02 Pumphouse	11:20	1.96	<1	<1
2024-10-09 Hawk Rd SS	10:25	0.73	<1	<1
2024-10-15 Peregrine Rd SS	10:30	0.7	<1	<1
2024-10-22 Pumphouse	10:10	0.76	<1	<1
2024-10-29 Pumphouse	11:00	1.36	<1	<1
2024-11-04 Pumphouse	7:55	1.3	<1	<1
2024-11-13 Pumphouse	10:40	2.1	<1	<1
2024-11-20 Pumphouse	7:45	0.9	<1	<1
2024-11-27 Pumphouse	10:40	1.9	<1	<1
2024-12-04 Pumphouse	11:40	1.3	<1	<1
2024-12-10 Pumphouse	13:20	1.9	<1	<1
2024-12-11 Pumphouse	10:45	2	<1	<1
2024-12-23 Pumphouse	12:30	1.44	<1	<1

Star Place Water System Data

Date	Sample Locatic	Sample Time	Chlorine Residual mg/L	Total Coli counts/100	E.Coli counts/100
2024-01-03	Pumphouse	9:09	1.4	<1	<1
2024-01-08	Pumphouse	8:12	1.8	<1	<1
2024-01-15	Pumphouse	8:25	1.3	<1	<1
2024-01-24	Pumphouse	9:11	1.24	<1	<1
2024-02-05	Pumphouse	10:34	1.5	<1	<1
2024-02-13	Pumphouse	8:49	0.85	<1	<1
2024-02-20	Pumphouse	9:40	0.8	<1	<1
2024-03-01	Pumphouse	8:30	1.2	<1	<1
2024-03-04	Pumphouse	8:43	1.2	<1	<1
2024-03-13	Pumphouse	9:00	1.3	<1	<1
2024-03-20	Pumphouse	8:30	1.13	<1	<1
2024-03-25	Pumphouse	9:10	1.5	<1	<1
2024-04-03	Pumphouse	8:30	0.7	<1	<1
2024-04-09	Pumphouse	9:00	1	<1	<1
2024-04-15	Pumphouse	8:30	1.8	<1	<1
2024-04-22	Pumphouse	9:30	2.2	<1	<1
2024-05-06	Pumphouse	8:50	1.41	<1	<1
2024-05-13	Pump House	9:30	1.7	<1	<1
2024-05-21	Pumphouse	10:30	2	<1	<1
2024-05-28	Pumphouse	9:10	1.1	<1	<1
2024-06-04	Pumphouse	9:30	1.3	<1	<1
2024-06-11	Pumphouse	8:30	2	<1	<1
2024-06-17	Pumphouse	8:40	1.4	<1	<1
2024-06-24	Pumphouse	7:45	1.7	<1	<1
2024-07-04	Pumphouse	8:23	1.31	<1	<1
2024-07-10	Pumphouse	8:15	1.6	<1	<1
2024-07-15	Pumphouse	8:30	1.7	<1	<1
2024-07-24	Pumphouse	11:30	1.5	<1	<1
2024-08-06	Pumphouse	12:30	1.4	<1	<1
2024-08-12	Pumphouse	10:00	0.91	<1	<1
2024-08-19	Pumphouse	8:30	1.4	<1	<1
2024-08-29	Pumphouse	9:10	1.3	<1	<1
2024-09-03	Pumphouse	10:30	1.5	<1	<1
2024-09-10	Pumphouse	10:00	1.3	<1	<1
2024-09-17	Pumphouse	9:00	1.3	<1	<1
2024-09-25	Pumphouse	9:30	1.2	<1	<1
2024-10-02	Reservoir	9:40	0.98	<1	<1
2024-10-07	Pumphouse	8:30	1.5	<1	<1

2024-10-21 Pumphouse	9:30	0.91	<1	<1
2024-10-28 Pumphouse	11:15	0.8	<1	<1
2024-11-06 Pumphouse	8:55	1.3	<1	<1
2024-11-12 Pumphouse	9:30	1.26	<1	<1
2024-11-19 Pumphouse	9:30	1.08	<1	<1
2024-11-25 pumphouse	10:20	1.2	<1	<1
2024-12-04 Pumphouse	10:20	1	<1	<1
2024-12-10 Pumphouse	12:15	1.1	<1	<1
2024-12-11 Pumphouse	9:40	1.2	<1	<1
2024-12-23 Pumphouse	8:15	1.29	<1	<1

Fintry Water System Data

Date	Sample Location	Sample Time Time	Chlorine Residual mg/L	Total Coli counts/100	E.Coli counts/100
2024-01-03	Booster Station	10:20	0.8	<1	<1
2024-01-08	Booster Station	9:10	0.7	<1	<1
2024-01-15	Booster	9:25	0.77	<1	<1
2024-01-22	Morden	9:45	0	<1	<1
2024-02-06	Booster	9:58	1	<1	<1
2024-02-12	Booster Station	9:30	0.98	<1	<1
2024-02-21	Booster	9:00	1.2	<1	<1
2024-03-01	Booster	9:30	1	<1	<1
2024-03-04	Booster	9:45	0.9	<1	<1
2024-03-11	Booster Station	10:15	0.87	<1	<1
2024-03-20	Booster station	9:30	0.8	<1	<1
2024-03-25	Booster Station	10:00	0.4	<1	<1
2024-04-02	Booster Station	9:15	0.72	<1	<1
2024-04-09	Booster	10:00	0.6	<1	<1
2024-04-15	Booster Station	9:20	0.6	<1	<1
2024-04-22	Morden well	10:50	0	<1	<1
2024-05-07	Booster Station	9:14	0.63	<1	<1
2024-05-14	Shalal sample station	9:45	0.72	<1	<1
2024-05-22	Alpine Rd SS	9:40	0.25	<1	<1
2024-05-28	Booster Station	10:15	0.8	<1	<1
2024-06-03	Booster Station	9:10	1	<1	<1
2024-06-11	Booster	9:40	0.88	<1	<1
2024-06-17	Shalal Rd SS	9:30	0.83	<1	<1
2024-06-24	Booster Station	8:40	1.7	<1	<1
2024-07-02	Shalal RD SS	7:57	1.37	<1	<1
2024-07-10	Booster Station	9:10	1.5	<1	<1
2024-07-15	Alpine Rd SS	9:45	0.98	<1	<1
2024-07-22	Booster Station	10:15	1.65	<1	<1
2024-07-31	Shalal RD SS	8:30	1.31	<1	<1
2024-08-07	Shalal Rd SS	8:30	1.31	<1	<1
2024-08-15	Booster Station	10:30	1.2	<1	<1
2024-08-19	Fairbridge Rd SS	9:40	1	<1	<1
2024-08-29	Booster Station	10:15	1.08	<1	<1
2024-09-05	Booster Station	8:45	0.95	<1	<1
2024-09-09	Shalal Rd SS	10:00	1.09	<1	<1
2024-09-16	Morden	9:15	0	<1	<1
2024-09-17	Peregrine Rd SS	9:00	0.97	<1	<1
2024-09-23	Booster Station	10:10	1.3	<1	<1

2024-10-01 Booster	10:10	1.1	<1	<1
2024-10-07 Morden	9:40	0	<1	<1
2024-10-16 Booster Station	9:00	0.92	<1	<1
2024-10-21 Booster	10:30	1.17	<1	<1
2024-10-28 Booster station	9:00	0.88	<1	<1
2024-11-06 Booster	9:45	1.2	<1	<1
2024-11-12 Booster	10:30	1	<1	<1
2024-11-18 Morden	9:30	0	<1	<1
2024-11-26 Booster	10:30	1	<1	<1
2024-12-02 Booster Station	10:20	1.3	<1	<1
2024-12-09 Booster Station	8:50	1.1	<1	<1
2024-12-16 Morden	8:50	0	<1	<1