



2025 Drinking Water Quality Annual Report

EXECUTIVE SUMMARY

The Town of Oliver (Town) operates an extensive Municipal and Rural water system that consists of eight ground water wells, a surface water source, and four domestic water reservoirs. The water system covers the Town itself and a substantial portion of area 'C' of the Regional District of Okanagan-Similkameen. The Town provides domestic water to approximately 2,408 residential and 174 commercial/ industrial connections, which all have water meters to record consumption.

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1.0 INTRODUCTION

The *British Columbia Drinking Water Protection Act* (BCDWPA) requires that each municipal government that supplies or distributes domestic drinking water must provide a water quality report that is reviewed by the local drinking water officer (Interior Health Authority) and published for public access.

The legislation in British Columbia outlines the responsibilities of an owner or a water supply system in the areas of source protection, construction and plan approvals, treatment, monitoring, emergency response planning, and reporting requirements. These responsibilities are outline in the following provincial legislation:

- Drinking Water Protection Act (DWPA)
- Drinking Water Protection Regulation (DWPR)
- Water Act
- Ground Water Protection Regulation (GWPR)

This report has been prepared for the community of the Town of Oliver (Town) and in accordance with the requirement in the DWPA (Section 15(b)). This report fulfills this requirement.

2.0 WATER SYSTEM OVERVIEW

The Town's water system is broken down into seven individual systems, which over time have been inter-connected to provide a more sustainable water supply system. Each system is defined, or known by, the area and the wells that support it:

- System 1 – also referred to as Rural North – Buchanan Road Pumphouse
- System 2 & 2B – Black Sage Area – Black Sage and Miller Road Pumphouse
- Municipal System – also referred to as System 3 – Rockcliffe and Tucelnuit Pumphouses
- System 4 - 7 – also referred to as Rural South – Miller Road Pumphouse

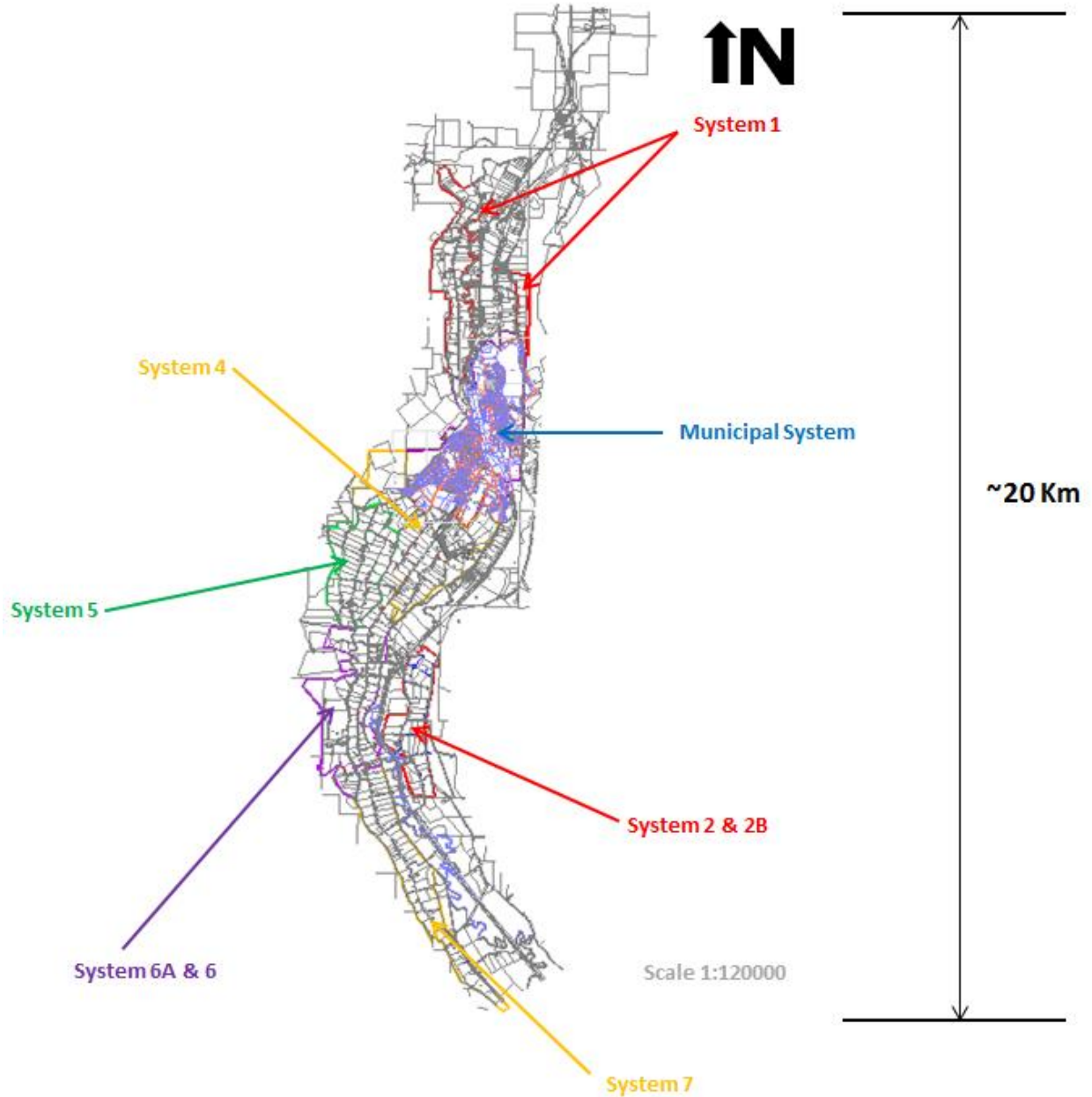


Figure 1: Town of Oliver's 7 Water System Overview

As of 2014, the Town uses groundwater for all its domestic water connections. Each system is twinned for domestic and irrigation distribution mains except for System 2 (Black Sage). This system is groundwater only for both domestic and irrigation supplies, and there are no current plans to complete the twinning of System 2.

As part of the water distribution system, the Town maintains approximately 120 kilometres of water main. The distribution system consists of Asbestos Concrete (AC), Polyvinyl Chloride (PVC), Cast Iron (CI), and High-Density Polyethylene (HDPE) material, with pipe sizes ranging from 50mm to 750mm in diameter.

The age of the water mains ranges from new to approximately 80 years old. The age of the pipe does not necessarily reflect the need to replace it as the various material types and installation conditions make for different average life expectancies. Normal operating pressures range from 60psi to 120psi for standard pressurized services.

2.1 DOMESTIC SYSTEM

The domestic water system storage capacity is 1,025,000 US gallons (US GAL) (3880 cubic metres (m³)) between four reservoirs. Existing Municipal reservoirs consist of a 360,000 US GAL (1360m³) reservoir and a newer (constructed in 2010) 500,000 US GAL (2470m³) reservoir. The other two reservoirs still in use are in System 6 & 6A; Miller reservoir at 150,000 US gallons (568m³) and Munckhof reservoir at 15,000 US gallons (57m³).

2.1.1 SYSTEM 1 DOMESTIC

System 1, also known as “Rural North,” supplies domestic water to approximately 168 accounts. System 1 has a domestic main that runs approximately 4.5km from the edge of town N. to the end of Sportsman Bowl Road. Buchanan pump station, which is located adjacent to 1748 Buchanan Road and near the east side of the Okanagan River, supplies domestic ground water to System 1 and into Municipal System. Buchanan pump station has one domestic ground water pump with a total 125 horsepower (hp) that has a pumping capacity of 1,000 gallons per minute (GPM).

2.1.2 SYSTEM 2 & 2B DOMESTIC

System 2, also known as “Black Sage” area, supplies domestic and irrigation water to approximately 53 accounts. System 2 is unique, having been separated into two areas, System 2, and 2B. System 2B, along with every other system, is twinned. Whereas System 2 is the only system that does not have separate water sources for both irrigation and domestic water. System 2 and 2B have two domestic pump stations within its boundary, Black Sage pump station, and Miller Well pump station. The Black Sage pump station is located approximately 154m W. from Ryegrass Road between Miller Road and Watters Road. The Black Sage well supplies groundwater to both domestic and irrigation services in System 2 and 2B utilizing three pumps with a total 240hp, and a pumping capacity of 2,600gpm. The Miller Well,

located on the west end of Miller Road, approximately 67m E. of the Okanagan River, supplements up to 500gpm of domestic groundwater to System 2 and 2B during the peak demand season, along with Systems 4 through 7, via Miller reservoir.

2.1.3 MUNICIPAL SYSTEM DOMESTIC

The Municipal System, also known as System 3, supplies domestic groundwater to approximately 2400 accounts. The Municipal System utilizes two pump stations, and one booster station to supply its users within the Town boundary, Rockcliffe pump station, Tucelnuit pump station, and the Airport Booster station. Rockcliffe is located between the parcels of 781 and 715 Skagit Avenue. Rockcliffe has one pump at 150hp, and a pumping capacity of 1,500gpm. Tucelnuit pump station is located on the SE corner of Merlot Avenue, and Lakeside Drive, W of the Tucelnuit Elementary School. Tucelnuit utilizes two pumps having a total pumping capacity of 1,750gpm. The Airport Booster station is located on the NE corner of the intersection of Airport Street, and Road 1. The Airport Booster is typically set to supply water from within the Municipal boundaries to the rural area south but can also be used to intake water from the rural area south and supply the Municipal System depending on demands or if there was a maintenance malfunction of another pump.

2.1.4 SYSTEM 4 - 7 DOMESTIC

System 4 - 7, also known as "Rural South," supplies domestic ground water to approximately 523 accounts. The Systems utilizes the Miller Well pump station, 6A Domestic Booster station, and the Airport Booster station. Miller Well pump station also aids in supplementing supply of domestic groundwater to System 2 during peak demands and fills the Miller Reservoir. The Miller Well pump has 125hp, and a pumping capacity of 1,000gpm. Munckhof Domestic Booster feeds Munckhof Reservoir, while the Airport Booster has the option to alternate between the Municipal System and Rural South to have a continuous loop in the system, and so that each pump is working in its most efficient phase.

3.0 WATER QUALITY, SAMPLING, AND MONITORING PROGRAM

All treated distribution water quality parameters are compared to the applicable criteria set out in the British Columbia Drinking Water Protection Act and Regulation (DWPA), the Guidelines for Canadian Drinking Water Quality (GCDWQ), Interior Health Authority programs and Operational Guidelines (OG). The DWPA and GCDWQ define these parameters and set Aesthetic Objectives (AO) and Maximum Allowable Concentrations (MAC).

All 2025 accredited laboratory tests were performed by Caro Analytical Services (Kelowna, B.C.), Hyperion Research Ltd and Water System Engineering, Inc.

The Town works closely with Caro to monitor drinking water quality in accordance with the *BCDWPA*, and *Guidelines for Canadian Drinking Water Quality (GCDWQ)*. The Town's staff submits weekly samples from various sampling sites throughout the domestic system for bacteriological testing for Total Coliforms, and E-Coli Bacteria. In conjunction with these submittals, the Town also conducts their own in-house 'presence/absence' tests. The Town also monitors the Nitrate levels in the drinking water sampling six times a year in February, April, June, August, October, and December. In 2024, the Town was requested by Interior Health Authority to increase sampling, including test stations, wells sites and start sampling for Trihalomethanes "THMs" and Haloacetic Acids "HAAs". Once a year, the Town commences a full spectrum test on the domestic water system. The full spectrum analyzes all physical parameters and characteristics of the Town's drinking water. The water results are then compared to the *GCDWQ* to ensure compliance. Summarized in Appendix A: 2025 Weekly Water Sampling Result Table.

There are nine test stations located in the Municipal boundaries. The Rural Area north of Town has three test station and there are six testing sites (excluding wells) south of Town. When any sample result shows the presence of Total Coliform or E-Coli, the Interior Health Environmental Health Officer is consulted, standard protocols are initiated with a flushing of the contaminated system and resampling of water where contamination was located. Resampling occurs immediately for lab testing, and in-house 'presence/absence' samples are also taken to identify coliforms.

3.1 DISTRIBUTION WATER QUALITY PARAMETERS

The following tables 1.0 & 2.0 are summaries of the parameters that were measured routinely in the distribution system: conductivity, pH, Temperature, Turbidity and free chlorine (free chlorine residuals are required to be maintained between 0.2 mg/L and 2.0 mg/L). There are

eighteen sample sites throughout the distribution system. Typically, five (5) were monitored on a weekly basis in conjunction with the bacteriological sampling.

Schedule A of the BC Drinking Water Protection Regulation provides bacteriological testing criteria as given below.

Schedule A
Water Quality Standards for Potable Water
(sections 2 and 9)

Parameter:	Standard:
Fecal coliform bacteria	No detectable fecal coliform bacteria per 100 ml
<i>Escherichia coli</i>	No detectable <i>Escherichia coli</i> per 100 ml
Total coliform bacteria	
(a) 1 sample in a 30 day period	No detectable total coliform bacteria per 100 ml
(b) more than 1 sample in a 30 day period	At least 90% of samples have no detectable total coliform bacteria per 100 ml and no sample has more than 10 total coliform bacteria per 100 ml

Figure 2: Schedule A of the BC Drinking Water Protection Regulation

In 2025, the distribution samples had detected 5 hits for Total Coliforms and no E. coli hits. The following is a summary of the laboratory bacteriological and field results from the treated water distribution system.

The Town had distribution water samples come back positive for Total Coliforms at the location:

- 1 positive result for Total Coliforms was detected at Ryegrass test station on March 24th.
- 1 positive result for Total Coliforms was detected at Spartan test station on May 12th.
- 1 positive result for Total Coliforms was detected at Fruitvale test station on July 2nd.
- 1 positive result for Total Coliforms was detected at New Town Reservoir on September 11th.
- 1 positive result for Total Coliforms was detected at Fairview test station on October 1st.

Parameter	Sampling Location	Unit	Average	Min	Max	Number of Samples	Number of Samples with Exceedances
Lab Results							
Background bacteria	Rural North	CFU/100mL	<1	<1	>200	66	0
	Municipal	CFU/100mL	<1	<1	<1	143	0
	Rural South	CFU/100mL	<1	<1	>200	194	0
Total Coliforms (Count)	Rural North	CFU/100mL	<1	<1	<1	66	0
	Municipal	CFU/100mL	<1	<1	1	143	3
	Rural South	CFU/100mL	<1	<1	1	194	2
E. Coli	Rural North	CFU/100mL	<1	<1	<1	66	0
	Municipal	CFU/100mL	<1	<1	<1	143	0
	Rural South	CFU/100mL	<1	<1	<1	194	0

Table 1.0 Laboratory sample results for the distribution system

Parameter	Sampling Location	Unit	Average	Min	Max	Number of Samples
Field Results						
Free Chlorine	Rural North	mg/L	0.25	0.03	0.53	67
	Municipal	mg/L	0.35	0.02	1.85	142
	Rural South	mg/L	0.22	0.00	0.53	147
Conductivity	Rural North	µS/cm	437	286	817	67
	Municipal	µS/cm	544	296	1064	143
	Rural South	µS/cm	583	301	1429	147
pH	Rural North		7.2	6.59	7.73	67
	Municipal		7.4	6.93	7.95	143
	Rural South		7.2	5.85	7.9	146
Temperature	Rural North	°C	14.0	6.9	20.2	67
	Municipal	°C	13.8	5.8	25.0	142
	Rural South	°C	14.8	4.6	26.0	142
Turbidity	Rural North	NTU	0.25	0.03	0.53	67
	Municipal	NTU	0.35	0.02	1.85	142
	Rural South	NTU	0.22	0.00	0.53	146

Table 2.0 Field sample results for the distribution system

Water quality sampling and testing as identified in table 3.0 meets the quality of standard requirement in Schedule A of the DWPR. The Town and the health authority agreed upon a sampling weekly for the distribution system and sampling more frequently for GARP determination. Therefore 297 samples were required to be taken for 2025, 357 were collected for laboratory analysis. The additional samples were due to positive sampling events.

Water Type	Parameter	Frequency
Well Water (Source Water)	Free Chlorine	Weekly
	Total and fecal coliforms (Escherichia coli)	Weekly
	Turbidity and temperature	Weekly
	Alkalinity, aluminum, arsenic, barium, boron, cadmium, calcium, total organic carbon, chloride, chromium, cobalt, true colour, apparent colour, conductivity, copper, fluoride, hardness, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, ammonia, nitrate, nitrite, nitrogen, pH, potassium, total dissolved residue, selenium, silver, sodium, sulphate, turbidity, zinc	Annually
Test Stations (Distribution System)	Free Chlorine	Weekly
	Total and fecal coliforms (Escherichia coli)	Weekly
	Turbidity and temperature	Weekly

Table 3.0 outlines the water sampling and testing program undertaken by the Town.

*Additional Manganese testing is completed monthly for Miller Well to satisfy the conditions of the permit issued by interior health.

Population Served by the Prescribed Water Supply System:	Number of Samples Per Month:
Less than 5,000	4
5,000 to 90,000	1 per 1,000 of population
More than 90,000	90 plus 1 per 10,000 of population in excess of 90,000

Table 4.0 Frequency of Monitoring Samples for Prescribed Water Supply Systems (Section 8) (Province of British Columbia, 2011)

3.2 SOURCE WATER QUALITY PARAMETERS

For 2025, Oliver’s source water wells were monitored weekly for the GARP determination project. These parameters provide support for both operational decisions and the Source Water Protection Plan. The following is a summary of these parameters that are monitored by both field kits and grab samples that are sent to the laboratory for analysis.

The Town had source water sample come back positive for Total coliforms at the location:

- ≥35 Total Coliforms were detected at Rockcliffe Well on January 20th.
- 1 Total Coliform was detected at Miller Road Well on February 10th.
- 15 Total Coliforms were detected at Black Sage Well 1 at start up on April 28th.
- 19 Total Coliforms were detected at Black Sage Well 1 on May 2nd.

- ≥76 Total Coliforms were detected at Black Sage Well 1 on May 5th.
- 17 Total Coliforms were detected at Black Sage Well 1 on May 12th.
- ≥5 Total Coliforms were detected at Rockcliffe Well on June 6th.
- >1 Total Coliforms were detected at Black Sage Well 2 on June 16th.
- Overgrown was identified as a potential Total Coliforms positive result at Rockcliffe Well on July 14th.
- ≥1 Total Coliforms were detected at Rockcliffe Well on July 28th.
- ≥3 Total Coliforms were detected at Rockcliffe Well on July 28th.
- ≥3 Total Coliforms were detected at Rockcliffe Well on July 29th.
- 2 Total Coliforms were detected at Rockcliffe Well on September 15th.
- 32 Total Coliforms were detected at Black Sage Well 1 on September 22nd.
- 16 Total Coliforms were detected at Black Sage Well 1 on October 1st.
- >29 Total Coliforms were detected at Black Sage Well 2 on October 1st.
- 2 Total Coliforms were detected at Black Sage Well 1 on October 7th.

The Town had a source water sample come back overgrown for E. Coli at the location:

- Overgrown was identified as a potential E. Coli positive result at Rockcliffe Well on July 14th.

Well Name	Installation Year	Aquifer Associated	Well Tag Number
Rockcliffe	2005	256	82376
Tucelnuit P2	2005	254	83008
Tucelnuit P3	2003	254	51107
Buchanan	2013	255	22904
Miller	2006	254	84724
Black Sage 1	2003	254	49481
Black Sage 2	2003	254	24513
Black Sage 3	2003	254	23793

Table 5.0 Domestic source wells with their well tag number for clarification

Parameter	Sampling Location	Unit	Average	Min	Max	Number of Samples	Well Tag Number
Field Results							
Conductivity	Rockcliffe	µS/cm	785	712	1138	43	82376
	Tucelnuit P2	µS/cm	485	369	1098	46	83008
	Tucelnuit P3	µS/cm	582	511	831	49	51107
	Buchanan	µS/cm	330	285	683	69	22904
	Miller	µS/cm	634	558	901	89	84724
	Black Sage 1	µS/cm	459	363	549	21	49481
	Black Sage 2	µS/cm	442	325	597	17	24513
	Black Sage 3	µS/cm	659	454	832	14	23793
pH	Rockcliffe		7.15	6.77	7.6	43	82376
	Tucelnuit P2		7.37	6.92	7.92	46	83008
	Tucelnuit P3		7.34	6.96	7.77	49	51107
	Buchanan		7.10	6.63	7.66	70	22904
	Miller		7.12	6.68	7.76	90	84724
	Black Sage 1		7.04	6.54	7.40	21	49481
	Black Sage 2		7.01	6.68	7.34	17	24513
	Black Sage 3		7.10	6.75	7.43	14	23793
Temperature	Rockcliffe	°C	14.78	7.30	19.30	43	82376
	Tucelnuit P2	°C	13.71	7.00	15.70	46	83008
	Tucelnuit P3	°C	13.92	8.20	17.20	49	51107
	Buchanan	°C	15.81	7.00	22.80	70	22904
	Miller	°C	15.08	8.00	24.80	90	84724
	Black Sage 1	°C	16.22	9.90	20.20	21	49481
	Black Sage 2	°C	16.97	10.0	20.30	16	24513
	Black Sage 3	°C	16.63	9.40	20.30	14	23793
Turbidity	Rockcliffe	NTU	0.26	0.07	0.79	44	82376
	Tucelnuit P2	NTU	0.29	0.09	0.68	46	83008
	Tucelnuit P3	NTU	0.27	0.10	0.70	49	51107
	Buchanan	NTU	0.28	0.14	0.69	70	22904
	Miller	NTU	0.26	0.06	0.78	87	84724
	Black Sage 1	NTU	0.23	0.08	0.65	21	49481
	Black Sage 2	NTU	0.25	0.14	0.66	17	24513
	Black Sage 3	NTU	0.27	0.08	0.77	14	23793

Table 6.0 Summary of field sample results for source water wells for 2025

Analyte	Sampling Location	Unit	Average	Min	Max	Number of Samples	Number of Samples with Exceedances
Lab Results: Microbiological							
Background bacteria	Rockcliffe	CFU/100mL	<1	<1	Overgrown	48	17
	Tucelnuit P2	CFU/100mL	<1	<1	>200	45	1
	Tucelnuit P3	CFU/100mL	<1	<1	<1	45	0
	Buchanan	CFU/100mL	<1	<1	<1	44	0
	Miller	CFU/100mL	<1	<1	<1	46	0
	Black Sage 1	CFU/100mL	<1	<1	>200	27	3
	Black Sage 2	CFU/100mL	<1	<1	>200	22	4
	Black Sage 3	CFU/100mL	<1	<1	<1	15	0
Total Coliforms (Count)	Rockcliffe	CFU/100mL	<1	<1	Overgrown	48	6
	Tucelnuit P2	CFU/100mL	<1	<1	<1	45	0
	Tucelnuit P3	CFU/100mL	<1	<1	<1	45	0
	Buchanan	CFU/100mL	<1	<1	<1	44	0
	Miller	CFU/100mL	<1	<1	1	46	1
	Black Sage 1	CFU/100mL	<1	<1	>76	27	7
	Black Sage 2	CFU/100mL	<1	<1	>29	22	2
	Black Sage 3	CFU/100mL	<1	<1	<1	15	0
E. Coli	Rockcliffe	CFU/100mL	<1	<1	Overgrown	48	1
	Tucelnuit P2	CFU/100mL	<1	<1	<1	45	0
	Tucelnuit P3	CFU/100mL	<1	<1	<1	45	0
	Buchanan	CFU/100mL	<1	<1	<1	44	0
	Miller	CFU/100mL	<1	<1	<1	46	0
	Black Sage 1	CFU/100mL	<1	<1	<1	27	0
	Black Sage 2	CFU/100mL	<1	<1	<1	22	0
	Black Sage 3	CFU/100mL	<1	<1	<1	15	0

Table 7.0 Summary of laboratory sample results for source water wells for 2025

3.3 DISINFECTION BY-PRODUCT MONITORING

Disinfection by-products are chemicals that form when chlorine is used for disinfecting drinking water to prevent disease. The chlorine reacts with decaying organic matter, like leaves and vegetation from lakes and rivers to form disinfection by-products. Utilities make every effort to maintain concentrations as low as reasonably achievable without compromising the effectiveness of disinfection. The disinfection-by-product are summarized in appendix B.

3.4 PESTICIDE MONITORING

Pesticides are chemicals that are used to control pests. When pesticides enter the environment, various chemical reactions and biological processes break them down over time into other chemicals. Those chemicals are called transformation products.

- Within water
- Attached to soil particles
- In the air

Pesticides may enter Canada's waters in many ways. When pesticides are applied in agricultural, forestry and urban environments, they can travel by air (via spray drift) or by surface run-off and unintentionally enter a body of surface water, or they may move through soil to enter groundwater. Pesticides can also enter surface water through rainfall and deposition of dry particles such as dust. The Pesticide monitoring is summarized in "Appendix C".

3.5 FULL SPECTRUM ANALYSIS

With the weekly tests, the Town performs a full spectrum analysis on its source water wells once a year. A summary of the 2025 results is shown in table 7.0. Highlighted results in the table indicate parameters which were above or approaching the recommended maximum criteria in the GCDWQ. The criteria are either stated as a Maximum Acceptable Concentration (MAC) or Aesthetic Objective (AO). MACs have been established for certain substances that are known or suspected to cause adverse effects on health. AOs apply to certain substances or characteristics of drinking water that can affect its acceptance by consumers.

Manganese

Manganese has a MAC of 0.12mg/L, and AO for total Manganese in drinking water is 0.02 mg/L as indicated in the Guidelines for Canadian Drinking Water Quality: Technical Document.

Analysis	Units	Maximum Standard	Aesthetic Objective	Operational Guidance Values	22906	22904	22904	22904
					Rockcliffe	Tuc-el-nuit P#2	Tuc-el-nuit P#3	Buchanan
					2025-03-17-8:10	2025-03-17-08:35	2025-03-17-08:35	2025-03-17-10:45
Alkalinity as CaCO3	mg/L				259	154	186	121
Aluminum Total	mg/L	2.9		0.1	<0.0050	<0.0050	<0.0050	<0.0050
Antimony	mg/L	0.06			<0.00020	<0.00020	<0.00020	<0.00020
Arsenic Total	mg/L	0.01			0.00119	0.0034	0.00267	0.00103
Barium Total	µg/L	2			0.067	0.0528	0.0722	0.0495
Boron Total	mg/L	5			0.0594	<0.0500	<0.0500	<0.0500
Cadmium Total	mg/L	0.007			<0.000010	<0.000010	<0.000010	0.000018
Calcium Total	mg/L				93.1	49.4	66.3	37.1
Chromium Total	mg/L	0.05			0.00071	<0.00050	<0.00050	<0.00050
Chloride	mg/L		250		22	4.9	13.3	5.32
Cobalt Total	mg/L				<0.00010	<0.00010	<0.00010	<0.00010
Color - True	TCU		15		<5.0	<5.0	<5.0	<5.0
Conductivity	µS/cm				725	395	517	305
Copper Total	mg/L	2	1		0.00086	0.00249	0.00073	0.0412
Fluoride	mg/L	1.5			0.22	0.28	0.24	0.13
Hardness as CaCO3	mg/L				341	180	180	133
Iron Total	mg/L		0.1		<0.010	0.016	<0.010	<0.010
Lead Total	mg/L	0.005			<0.00020	<0.00020	<0.00020	0.00098
Lithium Total	mg/L				0.00902	0.00568	0.00757	0.00315
Magnesium Total	mg/L				26.2	13.8	16.7	9.85
Manganese Total	mg/L	0.12	0.02		0.00027	0.00139	<0.00020	0.0815
Molybdenum Total	mg/L				0.00459	0.00417	0.00394	0.0027
Nickel Total	mg/L				0.00058	<0.00040	<0.00040	0.00044
Nitrogen - Nitrate as N	mg/L	10			3.28	0.147	1.73	0.036
Nitrogen - Nitrite as N	mg/L	1			<0.010	<0.010	<0.010	<0.010
pH	pH units		7.0-10.5		7.85	7.94	8.01	7.69
Phosphorus Total	mg/L				<0.050	0.056	0.059	<0.050
Potassium Total	mg/L				6.04	3.58	4.3	2.39
Selenium Total	mg/L	0.05	NG		0.00173	0.00196	0.00354	<0.00050
Silicon Total	mg/L				9.7	10.7	10.9	5
Silver Total	mg/L				<0.000050	<0.000050	<0.000050	<0.000050
Sodium Total	mg/L	NG	200		20.3	13.3	20.5	10.8
Strontium Total	mg/L	5			0.965	0.543	0.694	0.363
Sulfur Total	mg/L		NG		22.5	12.8	17.9	8.2
Tellurium Total	mg/L				<0.00050	<0.00050	<0.00050	<0.00050
Thallium Total	mg/L				<0.000020	<0.000020	<0.000020	<0.000020
Thorium Total	mg/L				<0.00010	<0.00010	<0.00010	<0.00010
Tin Total	mg/L				<0.00020	<0.00020	<0.00020	0.00042
Titanium Total	mg/L				<0.0050	<0.0050	<0.0050	<0.0050
Tungsten Total	mg/L				<0.0010	<0.0010	<0.0010	<0.0010
Uranium Total	mg/L	0.02	NG		0.0109	0.00344	0.00712	0.00212
Vanadium Total	mg/L				<0.0050	<0.0050	<0.0050	<0.0050
Zinc Total	mg/L	NG	5		0.0188	0.0051	<0.0040	0.0089
Zirconium Total	mg/L	NG	NG		<0.00010	<0.00010	<0.00010	<0.00010
Value	Approaching MAC or IMAC of the British Columbia or Canadian Drinking Water Guideline standard							
Value	Exceeding MAC or IMAC of the British Columbia or Canadian Drinking Water Guideline standard							
Value	Exceeding AO or OG of the British Columbia or Canadian Drinking Water Guideline standard							

Table 8.0 2025 Full Spectrum Analysis

Analysis	Units	Maximum Standard	Aesthetic Objective	Operational Guidance Values	22904	22904	22904	22905	22905	22905	22906	22906	22906			
					Tuc-el-nuit P#2	Tuc-el-nuit P#2	Tuc-el-nuit P#2	Tuc-el-nuit P#3	Tuc-el-nuit P#3	Tuc-el-nuit P#3	Rockcliffe	Rockcliffe	Rockcliffe	Buchanan	Buchanan	Buchanan
					Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum
Alkalinity as CaCO3	mg/L				168	154	182	210	186	226	270	259	275	126	120	138
Aluminum Total	mg/L	2.9		0.1	<0.0050	<0.0050	0.0051	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony	mg/L	0.06			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic Total	mg/L	0.01			0.00325	0.00315	0.0034	0.00286	0.00252	0.00341	0.00131	0.00119	0.00137	0.00108	0.00089	0.00132
Barium Total	µg/L	2			0.05590	0.0469	0.068	0.08530	0.07220	0.10900	0.06713	0.06700	0.06730	0.05294	0.04950	0.05780
Boron Total	mg/L	5			<0.050	<0.050	<0.050	0.07450	0.05740	0.09160	0.06543	0.05940	0.07440	0.01170	<0.050	0.01170
Cadmium Total	mg/L	0.007			<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000019	0.000010	0.000028
Calcium Total	mg/L				50.9	45.3	58.1	68.93	66.30	72.70	92.63	88.90	95.90	34.92	31.40	37.10
Chromium Total	mg/L	0.05			<0.0050	<0.0050	<0.0050	0.00066	<0.00050	0.00076	0.00073	0.00068	0.00081	<0.00050	<0.00050	<0.00050
Chloride	mg/L		250		6.6	4.4	10.5	17.23	13.30	20.00	30.133	22.000	39.000	5.23	4.77	5.92
Cobalt Total	mg/L				<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Color - True	TCU		15		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Conductivity	µS/cm				394.3	333.0	455.0	536	493	576	725.67	722.00	730.00	286.40	271.00	305.00
Copper Total	mg/L	2	1		0.0025	0.0014	0.0037	0.0097	0.00073	0.0269	0.00157	0.00086	0.00204	0.012	0.002	0.041
Fluoride	mg/L	1.5			0.467	0.280	0.700	0.295	0.240	0.360	0.30	0.22	0.35	0.238	0.130	0.420
Hardness as CaCO3	mg/L				185.3	163.0	213.0	233.75	180.00	263.00	339.67	330.00	348.00	126	117	133
Iron Total	mg/L		0.1		0.047	0.016	0.077	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.036	0.010	0.103
Lead Total	mg/L	0.005			0.00046	0.00044	0.00047	<0.00020	<0.00020	0.00182	<0.00020	<0.00020	<0.00020	0.0005	0.0002	0.0010
Lithium Total	mg/L				0.00597	0.00565	0.00659	0.0069	0.0010	0.0109	0.0096	0.0090	0.0099	0.0036	0.0030	0.0041
Magnesium Total	mg/L				14.07	12.00	16.40	18.15	15.90	22.10	26.20	26.10	26.30	9.39	8.66	9.95
Manganese Total	mg/L	0.12	0.02		0.00152	0.00067	0.00251	0.00041	<0.0002	0.00041	<0.0002	<0.0002	<0.0002	0.053	0.023	0.082
Molybdenum Total	mg/L				0.00439	0.00411	0.00490	0.00346	0.00208	0.00411	0.00496	0.00459	0.00550	0.00289	0.00217	0.00363
Nickel Total	mg/L				0.00045	0.00045	0.00045	<0.00040	<0.00040	0.00045	0.00067	0.00053	0.00091	<0.00040	<0.00040	0.00044
Nitrogen - Nitrate as N	mg/L	10			0.56	0.06	1.48	2.42250	1.73000	2.84000	4.017	3.280	4.410	0.082	0.036	0.120
Nitrogen - Nitrite as N	mg/L	1			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
pH	pH units		7.0-10.5		7.95	7.80	8.11	8.03	7.97	8.09	7.96	7.85	8.05	7.72	7.23	7.94
Phosphorus Total	mg/L				0.06	0.06	0.06	0.068	<0.050	0.081	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium Total	mg/L				3.597	3.240	3.970	4.733	4.30	5.620	5.91	5.61	6.07	2.40	2.08	2.62
Selenium Total	mg/L	0.05	NG		0.0021	0.0015	0.0028	0.0040	0.0035	0.0051	0.0024	0.0017	0.0035	<0.00050	<0.00050	<0.00050
Silicon Total	mg/L				10.23	9.70	10.70	11.78	10.00	15.50	9.70	9.40	10.00	5.40	4.20	6.50
Silver Total	mg/L				<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Sodium Total	mg/L	NG	200		13.87	12.30	16.00	23.13	20.20	28.00	21.800	20.300	23.900	10.84	10.30	11.40
Strontium Total	mg/L	7			0.571	0.519	0.650	0.82	0.69	1.03	0.996	0.965	1.030	0.36	0.34	0.36
Sulfur Total	mg/L				12.90	9.90	16.00	19.75	17.20	25.90	23.400	21.700	26.000	8.64	8.10	9.70
Tellurium Total	mg/L				<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Thallium Total	mg/L				<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Thorium Total	mg/L				<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin Total	mg/L				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0042
Titanium Total	mg/L				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tungsten Total	mg/L				<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium Total	mg/L	0.02	NG		0.0039	0.0028	0.0054	0.0077	0.0070	0.0086	0.0124	0.0109	0.0143	0.0019	0.0021	0.0119
Vanadium Total	mg/L				0.0019	<0.0050	0.0020	0.0021	<0.005	0.0026	<0.005	<0.005	0.0010	<0.005	<0.005	<0.005
Zinc Total	mg/L	NG	5		0.0109	0.0051	0.0188	0.0074	<0.0040	0.0085	<0.0040	<0.0040	<0.0040	0.0075	<0.0040	0.0089
Zirconium Total	mg/L	NG	NG		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Value	Approaching MAC or IMAC of the British Columbia or Canadian Drinking Water Guideline standard															
Value	Exceeding MAC or IMAC of the British Columbia or Canadian Drinking Water Guideline standard															
Value	Exceeding AO or OG of the British Columbia or Canadian Drinking Water Guideline standard															

Table 9.0 comparison of 2018 to 2025 full spectrum

4.0 WATER SYSTEM COMMUNICATIONS

4.1 WATER QUALITY ADVISORY

No, “water quality advisory” was issued in 2025.

Water quality advisory means: Some risk associated to consuming drinking water, a Boil Water Notice is not needed. The risk is elevated for people with weakened immune systems, the elderly and infants and young children.

4.2 BOIL WATER NOTICES

Two, boil water notices were issued in 2025.

Boil water notice means: Contaminants are in the system or potentially in the system, that can make you sick. To safely consume (ingest) the water, the water must be brought to a rolling boil for at least 60 seconds or use a safe alternate source of water.

During the early morning of April 11th, Rockcliffe well turned on and pumped untreated water into the distribution system for approximately two hours. SCADA indicated treatment operating normally, staff had double checked and discovered that the treatment had malfunctioned. This resulted in untreated contaminated water being pumped into the distribution system, with potentially being pumped into the entire water system. Town Staff followed procedures within the emergency response plan. On April 16th, the Town of Oliver’s boil water advisory was lifted.

On July 17th, a boil water advisory was issued: overgrown Total Coliforms and E. Coli were noted on the report from CARO. Under further investigation, it was found that background bacteria were too numerous, making the presence or absence of E. Coli and Total Coliforms undeterminable. As a result, the Town Staff discussed with a consultant and the drinking water officer for the area. A Boil Water Advisory was issued by the Town for municipal water system and system #1. On April 23rd, the Town of Oliver’s boil water advisory was lifted.

4.3 DO NOT CONSUME

No, “do no consume” was issued in 2025.

Do not consume means: You can’t make the water safe by boiling. The water can make you sick if you consume (ingest) it. You can’t use the water for drinking, brushing teeth, washing/preparing/cooking food or pet drinking water. You can bathe, shower and water

plants and gardens with the water. Contaminants are present in the water which can make you sick.

4.4 DO NOT USE

No, “do not use” was issued in 2025.

Do not use means: Do not turn on your taps for any reason and do not use your water. You can’t make the water safe by boiling it. There are known contaminants in the water and that any contact with the water with the skin, lungs or eyes can be dangerous.

4.5 WATER QUALITY COMPLAINTS

Four public complaints were identified in 2025.

Water quality complaints means: complaints regarding water quality coming from a tap in a business or a person(s) home, that is meant from consumption.

April 25th – Dirty water complaint, it was resolved, the dirty water complaint was determined to be on the customer side.

June 4th – Dirty water complaint, it was resolved, the dirty water complaint was determined to be based on the watermain flushing program.

August 6th – Dirty Water complaint for a system 2 customer, the Town flushed the dead-end line near the customer.

October 14th – Isolated dirty water complaint from Road 9 in system 6. Town Staff flushed until clear; dirty water caused by switching off black sage pumphouse for the season, heavy water flowing from system 6 and system 7 to system 2. Town Staff checked with customers the next day the problem was resolved.

November 4th – Dirty Water complaint from two wineries on Road 9, caused by Oliver Fire Department using the five-inch port to fill a fire tender truck. Will be working with the Oliver Fire Department in the future to prevent such issues.

5.0 WATER CONSUMPTION

5.1 TOTAL CONSUMPTION

The water works system is twinned in Oliver which means that the groundwater used for domestic purposes and surface water is used for irrigation purposes, each having their own piping system. System 2 is not twinned, as it uses groundwater for both irrigation and domestic purposes. The Town of Oliver consumed 3,093,284,115 US GAL of water in 2025. That is 11,709,354,140 liters (L) of water or 11,709,354 m³ of water.

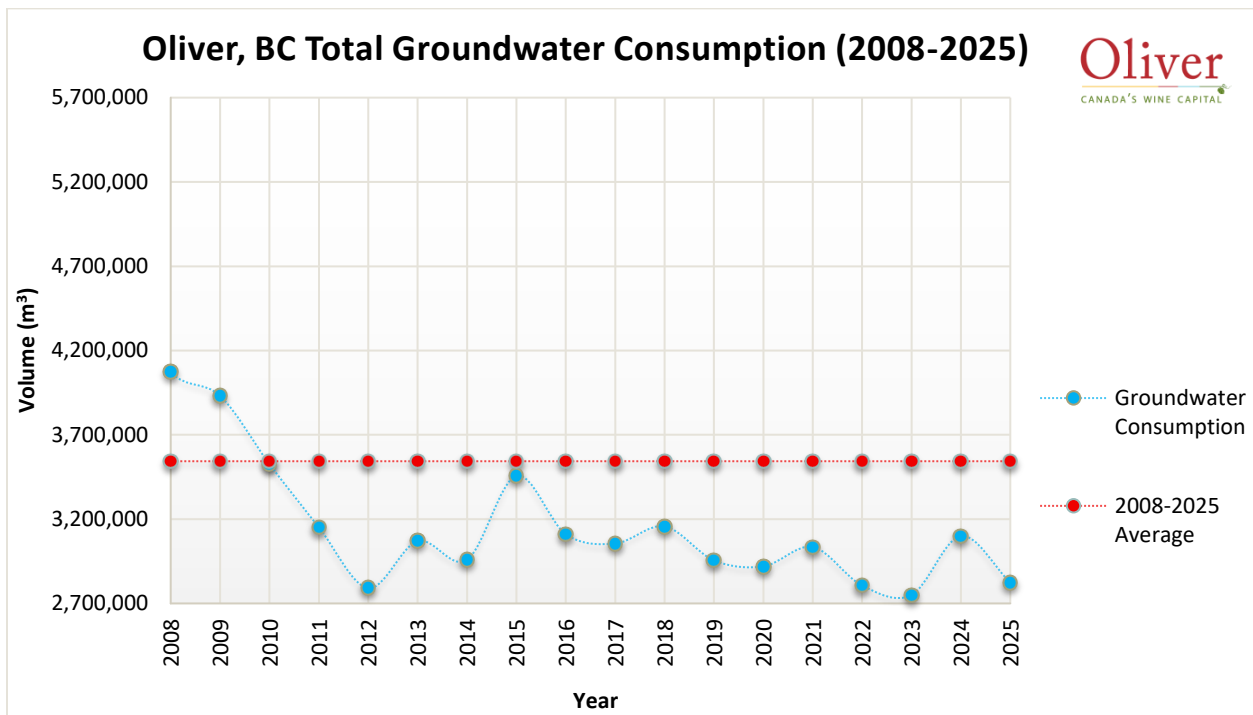


Figure 3: Total Water Consumption 17 Year Trend

As shown in *Figure 3*, the Town consumed 8.91% less water than the previous year (2024). The seventeen-year average is 936,069,015 US GAL. In 2025, the Town consumed 20.32% less than the seventeen-year average. Water demand is influenced by population and irrigation usage; population has been slightly increasing each year in the Town and surrounding area. The 2021 Census reported the Town's population as 5,094, however, the Town's water system extends beyond its borders making it difficult to define how many people it serves; it is estimated to be over 8,000 people.

In 2025, the province declared a level 4 drought condition for the Okanagan. The Town of Oliver declared stage 3 drought conditions on July 18, 2025, and was rescinded on August 8,

2025. The Town's maximum residential domestic water demand was on June 13, 2025. See *Figure 4*. The Town had a maximum daily water demand peak of 31,235.10 m³ on August 11, 2025, while minimum daily demand occurred on April 27, 2025, of 523.14 m³. See "Appendix D" for summary of 2025 pumping data.

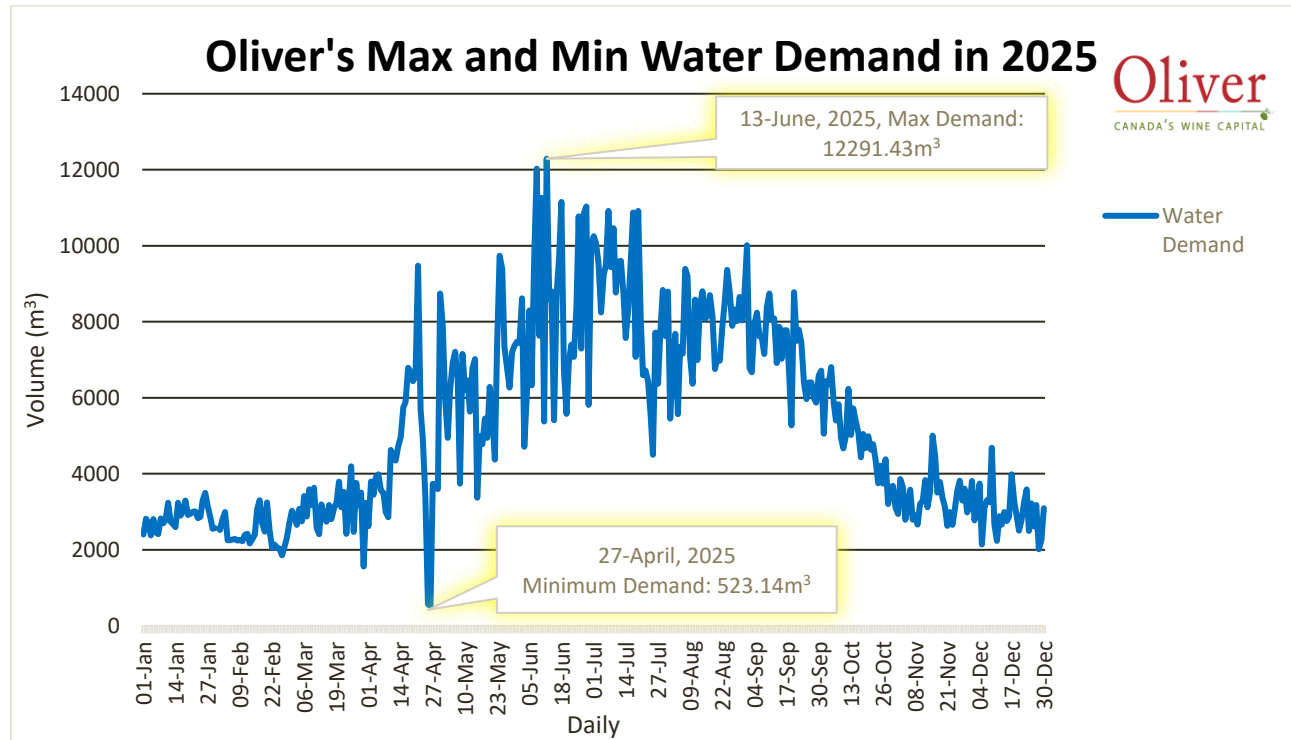


Figure 4: Oliver's 2025 Max and Min Domestic Water Demand

5.2 BREAKDOWN OF CONSUMPTION

The Town consumed 745,898,230 US GAL (2,823,533m³, 2,283,533,000L) of groundwater in 2025, as summarized in "Appendix E". This amount is 24.11% of the total consumption. The remaining 75.89% is surface water, primarily used for irrigation, having a total consumption of 2,346,653,286 US GAL (8,883,049m³, 8,883,049,000L). See *Figure 5* below for the breakdown of percentages.

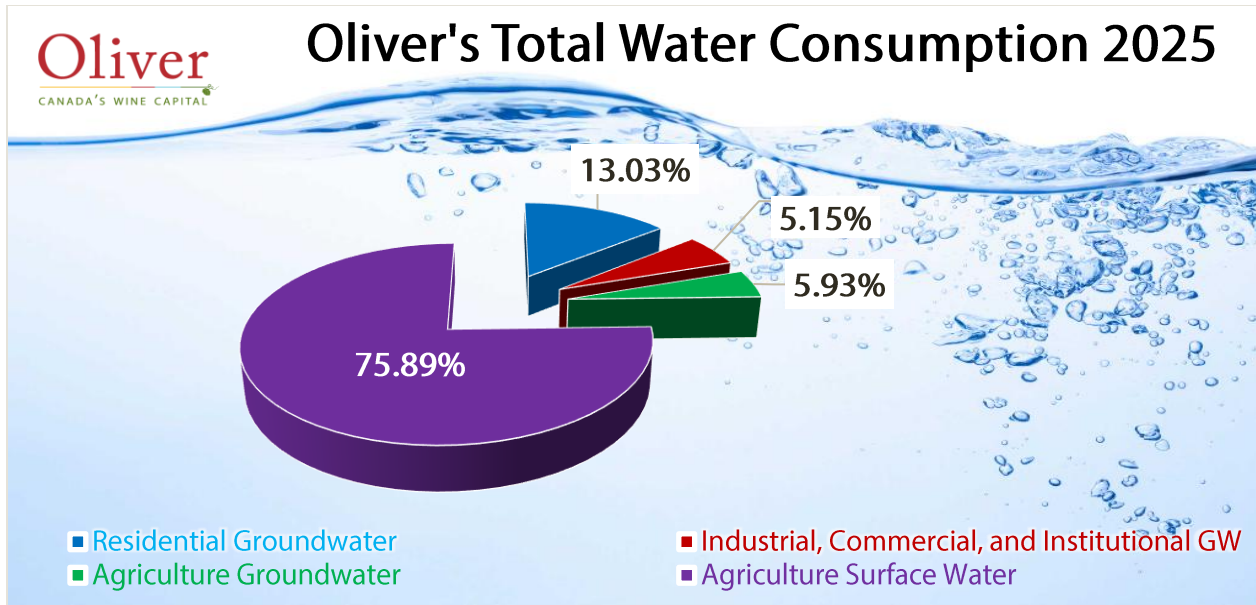


Figure 5: Oliver's Total Water Consumption 2025

5.3 WATER CONSERVATION

The Town works closely with the OBWB, and its *Okanagan Water Wise* program called "Make Water Work", to spread a valley wide awareness on water conservation in the Okanagan. The program acts as a campaign where residents take water conservation survey pledges. OBWB will bring awareness with Radio Ads, Facebook Ads, Billboards, other social media support, yard signs, posters, and magnets linking the Make Water Work website www.makewaterwork.ca.

6.0 SYSTEM CLASSIFICATION AND OPERATOR CERTIFICATION

6.1 SYSTEM CLASSIFICATION

The British Columbia Environmental Operators Certification Program (BC EOCP) is responsible for the classification of potable water systems in BC.

The Town's Water Distribution System is classified as Class III. The Town is also classified as a Level I Water Treatment facility (at multiple locations).

6.2 OPERATOR CERTIFICATION

In addition to system classification, all water operator certification falls under the responsibility of BC EOCP. Operators may hold certifications within the disciplines of Water

Distribution and/or Water Treatment with four levels of certification achievable. All Operators are required to keep up with their education and to maintain 2.4 certified education units (CEU's) every two years, monitored by the EOCP. Various accredited courses were put on at the Town regarding safe work practices. In addition, all operators annually continue to work on augmenting and furthering their levels of certification. All Town Operators certified through the BC EOCP are indicated in Table 9.0 below.

OPERATOR EOCP CERTIFICATION No.	WATER DISTRIBUTION CERTIFICATION LEVELS				WATER TREATMENT CERTIFICATION LEVELS			
	IV	III	II	I	IV	III	II	I
3231		X						X
8895			X					X
8513				X				
1001621				X				
7888								
1001983			X				X	

Table 10.0 EOCP CERTIFIED OPERATORS

7.0 CAPITAL PROJECTS AND IMPROVEMENTS

7.1 PROJECTS COMPLETED IN 2025

The Town continues to make minor and major improvements to the Town's water system every year and works with the Interior Health Authority (IHA) to prioritize some of these goals. Here are the main projects that were completed or started in 2025:

Water Meter Replacements

- This project started in 2020 and is scheduled for several years to complete some necessary change outs. The water meters are coming to the end of their useful life, and our Finance Department is looking at upgrading to new replacement meters that have fewer moving parts, are less susceptible to any damage and have longer battery life.

Black Sage domestic well improvements

- Electrical upgrade.
- New VFD drives for all motors.
- Converting 480v to 600v.
- Pump 1 and pump 3 motors were replaced.
- Continuous monitoring installation.
- New SCADA Controls.
- New HVAC for each building.

Rockcliffe Domestic Pumphouse

- VFD drive Upgrades.
- New motor.
- New Supervisory Control and Data Acquisition (SCADA)
- New HVAC.
- New Flow Meter.
- New Continuous monitoring.

SCADA & Programable Logic Controller (PLC's)

- SCADA upgrades to the entire system with new PLC's

Source Protection improvements

- Installed gutters at Miller and Buchanan pumphouses

7.2 CONTINUING PROJECTS INTO 2026

Water Meter Replacements

- Annual replacements

Tucelnuit Pumphouse

- Fencing around pumphouses for source protection.

Rockcliffe Domestic Pumphouse

- Well cleaning and reconditioning.

7.3 LONG TERM IMPROVEMENT PLANS

The Town has a 5-year budgeted capital plan for known upgrades and new infrastructure and/or projects. These projects include water meter, gate valve, test station and fire hydrant replacements on an annual basis:

Projects for 2027 through 2031

- Main Street – Veterans Avenue to School Avenue
- Similkameen Avenue – Fairview Road to Airport Street
- Munckhof Booster Station SCADA
- Earl Crescent Watermain Relining
- New SCADA and PLC's for system Continued
- Water reservoir feed line 2 relining
- New Domestic Pump Station
- New Domestic Pump Station Loop Lines
- Station Street – Fairview Rd to Co-op Ave
- Pacific Silica River Crossing
- River Crossing Park Drive and Fairview Road
- Kootenay Street
- New SCADA and PLC's for system Continued
- Okanagan Street – Similkameen Avenue to Skagit Avenue
- Okanagan Street – Co-op Ave to Haven St.
- Laneway between Main Street and Okanagan Street
- Black Sage River Crossing
- Park Drive watermain looping
- Fairview Road – Okanagan Street to Kootenay Street
- Sawmill Road – Similkameen Avenue to Spruce Avenue
- Lakeside Drive – Merlot Avenue to Eastside Avenue
- McKinney Road – Park Drive to Hospital
- Miller Well Rehabilitation
- Tucelnuit well 2 and 3 rehabilitations
- Tucelnuit pumphouse upgrades
- Black Sage well 1, 2 and 3 rehabilitations
- Buchanan well rehabilitation
- Rockcliffe well rehabilitation
- Airport Street – Skagit Avenue to Similkameen Avenue
- Similkameen Avenue – Airport Street to Cessna Street
- Laneway between Skagit Ave and Similkameen Avenue
- Tucelnuit well1, Black sage well 4 and CPR well abandoned
- Generator hook ups for each well as back up power

8.0 EMERGENCY RESPONSE PLAN

The Town's *Emergency Response Plan* pertaining to any natural disaster, and the water system. The *Emergency Response Plan* identifies several potential emergencies that could occur and provides a systematic approach to how the Town will respond to the emergency.

9.0 WATER QUALITY MONITORING PROGRAM

The water quality monitoring program was updated in 2025.

The water quality monitoring program is scheduled to be updated in 2026.

10.0 CROSS CONNECTION CONTROL PROGRAM

The Town's Cross Connection Control Program continues to work towards addressing the potential for the water system to be compromised by service connections, which could introduce contaminated water into the domestic water system. The program is used to monitor Backflow devices and cross connections through the FAST Program (Facility Assessment & Survey Technology) and is administered by FAST employees. The Cross Connection Program focuses on premise isolation for commercial and industrial customers. In 2025, there were 323 testable backflow assemblies in service (including agricultural devices) being tracked.

11.0 CONCLUSION

The Town works hard to maintain water quality and quantity for their residents as well as numerous customers in the Regional District of Okanagan Similkameen Area 'C'. Efforts are made to ensure appropriate water usage and to educate the public whenever possible. Without these ongoing efforts, the area would not be the robust agricultural community that it is today. If you have any comments regarding this report or other information that you would like to see included, please email works@oliver.ca or request a customer concern form at the Town Hall.

WEEKLY CHLORINE RESIDUAL & COLIFORMS SAMPLING								
(Target 0.2 to 1.50 - Chlorine Residual)								
Date	Location	System	Source	Chlorine Residual (mg/L)	Total Coliforms	E. coli	Background Colonies	WORK ORDER
2025-01-06	McGowan	Rural North System #1	Groundwater	0.25	<1	<1		25A0336
2025-01-06	Snowbrush	Rural South System #4	Groundwater	0.25	<1	<1		25A0336
2025-01-06	Spartan	Municipal	Groundwater	0.26	<1	<1		25A0336
2025-01-06	Hillside	Municipal	Groundwater	0.34	<1	<1		25A0336
2025-01-06	Black Sage	Rural South System #2	Groundwater	0.08	<1	<1		25A0336
2025-01-13	Mike's Auto	Rural North System #1	Groundwater	0.27	<1	<1		25A1146
2025-01-13	Fruitvale	Rural South System #7	Groundwater	0.03	<1	<1		25A1146
2025-01-13	Ryegrass	Rural South System #2	Groundwater	0.07	<1	<1		25A1146
2025-01-13	Station	Municipal	Groundwater	0.44	<1	<1		25A1146
2025-01-13	Sawmill	Municipal	Groundwater	0.29	<1	<1		25A1146
2025-01-20	Fairview	Municipal	Groundwater	0.22	<1	<1		25A1876
2025-01-20	Granby	Municipal	Groundwater	0.25	<1	<1		25A1876
2025-01-20	Ryegrass	Rural South System #2	Groundwater	0.09	<1	<1		25A1876
2025-01-20	6A Booster	Rural South System #6	Groundwater	0.22	<1	<1		25A1876
2025-01-21	Pinehill	Rural North System #1	Groundwater	0.25	<1	<1		25A2040
2025-01-28	Hillside	Municipal	Groundwater	0.33	<1	<1		25A2773
2025-01-28	Sawmill	Municipal	Groundwater	0.33	<1	<1		25A2773
2025-01-28	Black Sage	Rural South System #2	Groundwater	0.07	<1	<1		25A2773
2025-01-28	Sumac	Rural South System #6	Groundwater	0.28	<1	<1		25A2773
2025-01-28	Pinehill	Rural South System #7	Groundwater	0.23	<1	<1		25A2773
2025-02-03	Wolfcub	Municipal	Groundwater	0.38	<1	<1		25B0142
2025-02-03	Meadows	Municipal	Groundwater	0.48	<1	<1		25B0142
2025-02-03	Pinehill	Rural North System #1	Groundwater	0.49	<1	<1		25B0142
2025-02-04	Ryegrass	Rural South System #2	Groundwater	0.40	<1	<1		25B0142
2025-02-04	Sumac	Rural South System #6	Groundwater	0.29	<1	<1		25B0142
2025-02-10	Pinehill	Rural North System #1	Groundwater	0.19	<1	<1		25B0341
2025-02-10	Meadows	Municipal	Groundwater	0.40	<1	<1		25B0341
2025-02-10	Wolfcub	Municipal	Groundwater	0.51	<1	<1		25B0341
2025-02-10	6A Booster	Rural South System #6	Groundwater	0.23	<1	<1		25B0341
2025-02-10	Ryegrass	Rural South System #2	Groundwater	0.04	<1	<1		25B0341
2025-02-13	Sumac	Rural South System #6	Groundwater	0.38	<1	<1		25B1426
2025-02-18	Fruitvale	Municipal	Groundwater	0.25	<1	<1		25B1805
2025-02-18	Hillside	Municipal	Groundwater	0.22	<1	<1		25B1805
2025-02-18	Pinehill	Rural North System #1	Groundwater	0.14	<1	<1		25B1805
2025-02-18	6A Booster	Rural South System #6	Groundwater	0.31	<1	<1		25B1805
2025-02-18	Ryegrass	Rural South System #2	Groundwater	0.04	<1	<1		25B1805
2025-02-24	Wolfcub	Municipal	Groundwater	0.45	<1	<1		25B2450
2025-02-24	Vineyard	Municipal	Groundwater	0.41	<1	<1		25B2450
2025-02-24	Mike's Auto	Rural North System #1	Groundwater	0.35	<1	<1		25B2450
2025-02-24	Ryegrass	Rural South System #2	Groundwater	0.09	<1	<1		25B2450
2025-02-24	Sumac	Rural South System #6	Groundwater	0.20	<1	<1		25B2450
2025-03-03	Pinehill	Rural North System #1	Groundwater	0.43	<1	<1		25C0178
2025-03-03	Snowbrush	Rural South System #4	Groundwater	0.37	<1	<1		25C0178
2025-03-03	Black Sage	Rural South System #2	Groundwater	0.05	<1	<1		25C0178
2025-03-03	Hillside	Municipal	Groundwater	0.39	<1	<1		25C0178
2025-03-03	Spartan	Municipal	Groundwater	0.36	<1	<1		25C0178
2025-03-10	McGowan	Rural North System #1	Groundwater	0.37	<1	<1		25C1193
2025-03-10	Wolfcub	Municipal	Groundwater	0.42	<1	<1		25C1193
2025-03-10	Meadows	Municipal	Groundwater	0.42	<1	<1		25C1193
2025-03-10	Fruitvale	Rural South System #7	Groundwater	0.22	<1	<1		25C1193
2025-03-10	Ryegrass	Rural South System #2	Groundwater	0.06	<1	<1		25C1193
2025-03-17	Fairview	Municipal	Groundwater	0.26	<1	<1		25C2054
2025-03-17	Station	Municipal	Groundwater	0.34	<1	<1		25C2054
2025-03-17	Mike's Auto	Rural North System #1	Groundwater	0.18	<1	<1		25C2054
2025-03-17	Black Sage	Rural South System #2	Groundwater	0.05	<1	<1		25C2054
2025-03-17	6A Booster	Rural South System #6	Groundwater	0.35	<1	<1		25C2054
2025-03-24	Vineyard	Municipal	Groundwater	0.12	<1	<1		25C2849
2025-03-24	Meadows	Municipal	Groundwater	0.47	<1	<1		25C2849
2025-03-24	Pinehill	Rural North System #1	Groundwater	0.27	<1	<1		25C2849

2025-03-24	Ryegrass	Rural South System #2	Groundwater	0.05	1	<1	25C2849
2025-03-24	Sumac	Rural South System #6	Groundwater	0.20	<1	<1	25C2849
2025-03-27	Ryegrass	Rural South System #2	Groundwater	0.26	<1	<1	25C3220
2025-03-28	Ryegrass	Rural South System #2	Groundwater	0.18	<1	<1	25C3220
2025-03-31	Hillside	Municipal	Groundwater	0.33	<1	<1	25D0040
2025-03-31	Granby	Municipal	Groundwater	0.73	<1	<1	25D0040
2025-03-31	McGowan	Rural North System #1	Groundwater	0.35	<1	<1	25D0040
2025-03-31	Black Sage	Rural South System #2	Groundwater	0.04	<1	<1	25D0040
2025-03-31	Snowbrush	Rural South System #4	Groundwater	0.14	<1	<1	25D0040
2025-04-07	Wolfcub	Municipal	Groundwater	0.36	<1	<1	25D1062
2025-04-07	Meadows	Municipal	Groundwater	0.34	<1	<1	25D1062
2025-04-08	Ryegrass	Rural South System #2	Groundwater	0.07	<1	<1	25D1286
2025-04-08	Fruitvale	Rural North System #1	Groundwater	0.18	<1	<1	25D1286
2025-04-08	Mike's Auto	Rural North System #1	Groundwater	0.31	<1	<1	25D1286
2025-04-11	Meadows	Municipal	Groundwater	0.41	<1	<1	25D1807
2025-04-11	Vineyard	Municipal	Groundwater	0.41	<1	<1	25D1807
2025-04-11	Wolfcub	Municipal	Groundwater	0.39	<1	<1	25D1807
2025-04-11	Spartan	Municipal	Groundwater	0.20	<1	<1	25D1807
2025-04-11	Station	Municipal	Groundwater	0.38	<1	<1	25D1807
2025-04-11	Hillside	Municipal	Groundwater	0.13	<1	<1	25D1807
2025-04-11	Fairview	Municipal	Groundwater	0.08	<1	<1	25D1807
2025-04-11	Sawmill	Municipal	Groundwater	0.30	<1	<1	25D1807
2025-04-11	Granby	Municipal	Groundwater	0.23	<1	<1	25D1807
2025-04-11	McGowan	Rural North System #1	Groundwater	0.23	<1	<1	25D1807
2025-04-11	Pinehill	Rural North System #1	Groundwater	0.13	<1	<1	25D1807
2025-04-11	Mike's Auto	Rural North System #1	Groundwater	0.15	<1	<1	25D1807
2025-04-11	Sumac	Rural South System #6	Groundwater	0.33	<1	<1	25D1807
2025-04-11	Snowbrush	Rural South System #4	Groundwater	0.49	<1	<1	25D1807
2025-04-11	6A Booster	Rural South System #4	Groundwater	0.34	<1	<1	25D1808
2025-04-11	Ryegrass	Rural South System #2	Groundwater	0.21	<1	<1	25D1808
2025-04-11	Black Sage	Rural South System #2	Groundwater	0.35	<1	<1	25D1808
2025-04-11	Fruitvale	Rural South System #7	Groundwater	0.08	<1	<1	25D1808
2025-04-12	Meadows	Municipal	Groundwater	0.30	<1	<1	25D1806
2025-04-12	Vineyard	Municipal	Groundwater	0.47	<1	<1	25D1806
2025-04-12	Wolfcub	Municipal	Groundwater	0.27	<1	<1	25D1806
2025-04-12	Spartan	Municipal	Groundwater	0.24	1	<1	25D1806
2025-04-12	Station	Municipal	Groundwater	0.36	<1	<1	25D1806
2025-04-12	Hillside	Municipal	Groundwater	0.41	<1	<1	25D1806
2025-04-12	Fairview	Municipal	Groundwater	0.22	<1	<1	25D1806
2025-04-12	Sawmill	Municipal	Groundwater	0.24	<1	<1	25D1806
2025-04-12	Granby	Municipal	Groundwater	0.25	<1	<1	25D1806
2025-04-12	McGowan	Rural North System #1	Groundwater	0.30	<1	<1	25D1805
2025-04-12	Pinehill	Rural North System #1	Groundwater	0.19	<1	<1	25D1805
2025-04-12	Mike's Auto	Rural North System #1	Groundwater	0.30	<1	<1	25D1805
2025-04-12	Sumac	Rural South System #6	Groundwater	0.20	<1	<1	25D1805
2025-04-12	Snowbrush	Rural South System #4	Groundwater	0.41	<1	<1	25D1805
2025-04-12	6A Booster	Rural South System #6	Groundwater	0.49	<1	<1	25D1805
2025-04-12	Ryegrass	Rural South System #2	Groundwater	0.24	<1	<1	25D1805
2025-04-12	Ryegrass	Rural South System #2	Groundwater	0.37	<1	<1	25D1805
2025-04-12	Fruitvale	Rural South System #7	Groundwater	0.32	<1	<1	25D1805
2025-04-14	Hillside	Municipal	Groundwater	0.27	<1	<1	25D1897
2025-04-14	Station	Municipal	Groundwater	0.44	<1	<1	25D1897
2025-04-14	Sawmill	Municipal	Groundwater	0.31	<1	<1	25D1976
2025-04-14	Fairview	Municipal	Groundwater	0.17	<1	<1	25D1976
2025-04-14	6A Booster	Rural South System #6	Groundwater	0.38	<1	<1	25D1976
2025-04-14	Black Sage	Rural South System #2	Groundwater	0.20	<1	<1	25D1976
2025-04-14	Spartan	Municipal	Groundwater	0.26	<1	<1	25D1986
2025-04-14	Pinehill	Rural North System #1	Groundwater	0.17	<1	<1	25D1976
2025-04-15	Fairview	Municipal	Groundwater	0.25	<1	<1	25D1986
2025-04-15	Spartan	Municipal	Groundwater	0.28	<1	<1	25D1986
2025-04-15	Hillside	Municipal	Groundwater	0.31	<1	<1	25D1986
2025-04-15	Station	Municipal	Groundwater	0.28	<1	<1	25D1986
2025-04-22	Sumac	Rural South System #6	Groundwater	0.27	<1	<1	25D1976

2025-04-22	Vineyard	Municipal	Groundwater	0.51	<1	<1	25D2907
2025-04-22	Wolfcub	Municipal	Groundwater	0.49	<1	<1	25D2907
2025-04-22	McGowan	Municipal	Groundwater	0.29	<1	<1	25D2907
2025-04-22	Ryegrass	Rural South System #2	Groundwater	0.21	<1	<1	25D2907
2025-04-28	Hillside	Municipal	Groundwater	0.45	<1	<1	25D3760
2025-04-28	Granby	Municipal	Groundwater	0.67	<1	<1	25D3760
2025-04-28	Mike's Auto	Rural North System #1	Groundwater	0.49	<1	<1	25D3760
2025-04-28	Black Sage	Rural South System #2	Groundwater	0.26	<1	<1	25D3760
2025-04-28	Snowbrush	Rural South System #4	Groundwater	0.23	<1	<1	25D3760
2025-05-01	Ryegrass	Rural South System #2	Groundwater	0.29	<1	<1	25E0083
2025-05-01	Black Sage	Rural South System #2	Groundwater	0.47	<1	<1	25E0083
2025-05-05	Vineyard	Municipal	Groundwater	0.48	<1	<1	25E0568
2025-05-05	Meadows	Municipal	Groundwater	0.49	<1	<1	25E0568
2025-05-05	Pinehill	Rural North System #1	Groundwater	0.39	<1	<1	25E0568
2025-05-05	Ryegrass	Rural South System #2	Groundwater	0.37	<1	<1	25E0568
2025-05-05	Fruitvale	Rural South System #7	Groundwater	0.13	<1	<1	25E0568
2025-05-12	Fairview	Municipal	Groundwater	0.66	<1	<1	25E1622
2025-05-12	Spartan	Municipal	Groundwater	0.39	<1	<1	25E1622
2025-05-12	McGowan	Municipal	Groundwater	0.34	<1	<1	25E1622
2025-05-12	Black Sage	Rural South System #2	Groundwater	0.35	<1	<1	25E1622
2025-05-12	6A Booster	Rural South System #6	Groundwater	0.12	<1	<1	25E1622
2025-05-20	Mike's Auto	Rural North System #1	Groundwater	0.22	<1	<1	25E2629
2025-05-20	Ryegrass	Rural South System #2	Groundwater	0.27	<1	<1	25E2629
2025-05-20	Sumac	Rural South System #6	Groundwater	0.17	<1	<1	25E2629
2025-05-20	Wolfcub	Municipal	Groundwater	0.38	<1	<1	25E2629
2025-05-20	Meadows	Municipal	Groundwater	0.29	<1	<1	25E2629
2025-05-26	Pinehill	Rural North System #1	Groundwater	0.23	<1	<1	25E3544
2025-05-26	Black Sage	Rural South System #2	Groundwater	0.25	<1	<1	25E3544
2025-05-26	Snowbrush	Rural South System #4	Groundwater	0.17	<1	<1	25E3544
2025-05-26	Station	Municipal	Groundwater	0.29	<1	<1	25E3544
2025-05-26	Hillside	Municipal	Groundwater	0.27	<1	<1	25E3544
2025-06-02	Meadows	Municipal	Groundwater	0.55	<1	<1	25F0194
2025-06-02	Vineyard	Municipal	Groundwater	0.46	<1	<1	25F0194
2025-06-02	McGowan	Rural North System #1	Groundwater	0.34	<1	<1	25F0194
2025-06-02	Ryegrass	Rural South System #2	Groundwater	0.43	<1	<1	25F0194
2025-06-02	Fruitvale	Rural South System #7	Groundwater	0.19	<1	<1	25F0194
2025-06-09	Hillside	Municipal	Groundwater	0.36	<1	<1	25F1338
2025-06-09	Mike's Auto	Rural North System #1	Groundwater	0.23	<1	<1	25F1338
2025-06-09	Fairview	Municipal	Groundwater	0.47	<1	<1	25F1338
2025-06-09	Black Sage	Rural South System #2	Groundwater	0.26	<1	<1	25F1338
2025-06-09	6A Booster	Rural South System #6	Groundwater	0.25	<1	<1	25F1338
2025-06-16	Wolfcub	Municipal	Groundwater	0.20	<1	<1	25F2314
2025-06-16	Vineyard	Municipal	Groundwater	0.27	<1	<1	25F2314
2025-06-16	Ryegrass	Rural South System #2	Groundwater	0.43	<1	<1	25F2314
2025-06-16	Sumac	Rural South System #6	Groundwater	0.32	<1	<1	25F2314
2025-06-16	Pinehill	Rural North System #1	Groundwater	0.26	<1	<1	25F2314
2025-06-23	Sawmill	Municipal	Groundwater	0.48	<1	<1	25F3379
2025-06-23	Granby	Municipal	Groundwater	0.49	<1	<1	25F3379
2025-06-23	McGowan	Rural North System #1	Groundwater	0.15	<1	<1	25F3379
2025-06-23	Black Sage	Rural South System #2	Groundwater	0.33	<1	<1	25F3379
2025-06-23	Snowbrush	Rural South System #4	Groundwater	0.20	<1	<1	25F3379
2025-07-02	Vineyard	Municipal	Groundwater	0.5	<1	<1	25G0267
2025-07-02	Meadows	Municipal	Groundwater	0.55	<1	<1	25G0267
2025-07-02	Mike's Auto	Rural North System #1	Groundwater	0.51	<1	<1	25G0267
2025-07-02	Ryegrass	Rural South System #2	Groundwater	0.37	<1	<1	25G0267
2025-07-02	Fruitvale	Rural South System #7	Groundwater	0.17	1	<1	25G0267
2025-07-07	Fairview	Municipal	Groundwater	0.43	<1	<1	25G1102
2025-07-07	Spartan	Municipal	Groundwater	0.36	<1	<1	25G1001
2025-07-07	Pinehill	Rural North System #1	Groundwater	0.07	<1	<1	25G1001
2025-07-07	6A Booster	Rural South System #6	Groundwater	0.39	<1	<1	25G1001
2025-07-07	Black Sage	Rural South System #2	Groundwater	0.33	<1	<1	25G1001
2025-07-07	Fruitvale	Rural South System #7	Groundwater	0.25	<1	<1	25G1102
2025-07-14	Wolfcub	Municipal	Groundwater	0.34	<1	<1	25G2115

2025-07-14	Meadows	Municipal	Groundwater	0.20	<1	<1	25G2115
2025-07-14	McGowan	Rural North System #1	Groundwater	0.19	<1	<1	25G2115
2025-07-14	Ryegrass	Rural South System #2	Groundwater	0.57	<1	<1	25G2115
2025-07-14	Sumac	Rural South System #6	Groundwater	0.12	<1	<1	25G2115
2025-07-17	Granby	Municipal	Groundwater	0.47	<1	<1	25G2615
2025-07-17	Spartan	Municipal	Groundwater	0.24	<1	<1	25G2615
2025-07-17	Station	Municipal	Groundwater	0.33	<1	<1	25G2615
2025-07-17	Snowbrush	Rural South System #4	Groundwater	0.19	<1	<1	25G2615
2025-07-17	Sumac	Rural South System #6	Groundwater	0.05	<1	<1	25G2615
2025-07-17	McGowan	Rural North System #1	Groundwater	0.20	<1	<1	25G2615
2025-07-17	Pinehill	Rural North System #1	Groundwater	0.12	<1	<1	25G2615
2025-07-17	Mike's Auto	Rural North System #1	Groundwater	0.44	<1	<1	25G2615
2025-07-18	Granby	Municipal	Groundwater	0.44	<1	<1	25G2771
2025-07-18	Spartan	Municipal	Groundwater	0.38	<1	<1	25G2771
2025-07-18	Station	Municipal	Groundwater	0.52	<1	<1	25G2771
2025-07-18	Snowbrush	Rural South System #4	Groundwater	0.20	<1	<1	25G2771
2025-07-18	Sumac	Rural South System #6	Groundwater	0.13	<1	<1	25G2771
2025-07-18	McGowan	Rural North System #1	Groundwater	0.43	<1	<1	25G2771
2025-07-18	Pinehill	Rural North System #1	Groundwater	0.12	<1	<1	25G2771
2025-07-18	Mike's Auto	Rural North System #1	Groundwater	0.51	<1	<1	25G2771
2025-07-21	6A Booster	Rural South System #6	Groundwater	0.20	<1	<1	25G2964
2025-07-21	Vineyard	Municipal	Groundwater	0.10	<1	<1	25G2771
2025-07-21	Station	Municipal	Groundwater	0.53	<1	<1	25G2771
2025-07-21	Granby	Municipal	Groundwater	0.51	<1	<1	25G2771
2025-07-21	Spartan	Municipal	Groundwater	0.41	<1	<1	25G2771
2025-07-21	Fairview	Municipal	Groundwater	0.42	<1	<1	25G2771
2025-07-21	Snowbrush	Rural South System #4	Groundwater	0.09	<1	<1	25G2771
2025-07-21	Sumac	Rural South System #6	Groundwater	0.06	<1	<1	25G2771
2025-07-21	Pinehill	Rural North System #1	Groundwater	0.30	<1	<1	25G2771
2025-07-21	McGowan	Rural North System #1	Groundwater	0.31	<1	<1	25G2771
2025-07-21	Mike's Auto	Rural North System #1	Groundwater	0.44	<1	<1	25G2771
2025-07-21	Black Sage	Rural South System #2	Groundwater	0.23	<1	<1	25G2771
2025-07-21	Fruitvale	Rural South System #7	Groundwater	0.06	<1	<1	25G2771
2025-07-28	Wolfcub	Municipal	Groundwater	0.34	<1	<1	25G4043
2025-07-28	Vineyard	Municipal	Groundwater	0.43	<1	<1	25G4043
2025-07-28	Ryegrass	Rural South System #2	Groundwater	0.46	<1	<1	25G4043
2025-07-28	Fruitvale	Rural South System #7	Groundwater	0.06	<1	<1	25G4043
2025-07-28	Pinehill	Rural North System #1	Groundwater	0.06	<1	<1	25G4043
2025-08-05	Sawmill	Municipal	Groundwater	0.08	<1	<1	25H0487
2025-08-05	Fairview	Municipal	Groundwater	0.26	<1	<1	25H0487
2025-08-05	McGowan	Rural North System #1	Groundwater	0.30	<1	<1	25H0487
2025-08-05	Black Sage	Rural South System #2	Groundwater	0.20	<1	<1	25H0487
2025-08-05	6A Booster	Rural South System #6	Groundwater	0.19	<1	<1	25H0487
2025-08-11	Vineyard	Municipal	Groundwater	0.34	<1	<1	25H1429
2025-08-11	Meadows	Municipal	Groundwater	0.49	<1	<1	25H1429
2025-08-11	Mike's Auto	Rural North System #1	Groundwater	0.22	<1	<1	25H1429
2025-08-11	Ryegrass	Rural South System #2	Groundwater	0.47	<1	<1	25H1429
2025-08-11	Sumac	Rural South System #6	Groundwater	0.14	<1	<1	25H1429
2025-08-18	Hillside	Municipal	Groundwater	0.45	<1	<1	25H2502
2025-08-18	Fairview	Municipal	Groundwater	0.38	<1	<1	25H2502
2025-08-18	Pinehill	Rural North System #1	Groundwater	0.30	<1	<1	25H2502
2025-08-18	Sumac	Rural South System #6	Groundwater	0.44	<1	<1	>200 25H2502
2025-08-18	Snowbrush	Rural South System #4	Groundwater	0.33	<1	<1	25H2502
2025-08-18	Black Sage	Rural South System #2	Groundwater	0.09	<1	<1	25H2502
2025-08-25	Wolfcub	Municipal	Groundwater	0.33	<1	<1	25H3581
2025-08-25	Meadows	Municipal	Groundwater	0.59	<1	<1	25H3581
2025-08-25	McGowan	Rural North System #1	Groundwater	0.22	<1	<1	25H3581
2025-08-25	Ryegrass	Rural South System #2	Groundwater	0.41	<1	<1	25H3581
2025-08-25	Fruitvale	Rural South System #7	Groundwater	0.05	<1	<1	25H3581
2025-08-25	Wolfcub	Municipal	Groundwater	0.06	<1	<1	25H3581
2025-09-02	Spartan	Municipal	Groundwater	0.36	<1	<1	25I0194
2025-09-02	Sawmill	Municipal	Groundwater	0.08	<1	<1	25I0194
2025-09-02	6A Booster	Rural South System #6	Groundwater	0.2	<1	<1	25I0194

2025-09-02	Black Sage	Rural South System #2	Groundwater	0.22	<1	<1		25I0194
2025-09-02	Mike's Auto	Rural North System #1	Groundwater	0.53	<1	<1		25I0194
2025-09-08	Wolfcub	Municipal	Groundwater	0.26	<1	<1		25I1093
2025-09-08	Vineyard	Municipal	Groundwater	0.16	<1	<1		25I1093
2025-09-08	Pinehill	Rural North System #1	Groundwater	0.05	<1	<1		25I1093
2025-09-08	Ryegrass	Rural South System #2	Groundwater	0.18	<1	<1		25I1093
2025-09-08	Sumac	Rural South System #6	Groundwater	0.04	<1	<1	>200	25I1093
2025-09-11	New Town R	Municipal	Groundwater	1.2	1	<1		25I2182
2025-09-12	New Town R	Municipal	Groundwater	0.79	<1	<1		25I1709
2025-09-15	New Town R	Municipal	Groundwater	1.85	<1	<1		25I2182
2025-09-15	Hillside	Municipal	Groundwater	0.18	<1	<1		25I2183
2025-09-15	Station	Municipal	Groundwater	0.34	<1	<1		25I2183
2025-09-15	McGowan	Rural North System #1	Groundwater	0.31	<1	<1	>200	25I2183
2025-09-15	Black Sage	Rural South System #2	Groundwater	0.11	<1	<1		25I2183
2025-09-15	Snowbrush	Rural South System #4	Groundwater	0.15	<1	<1		25I2183
2025-09-22	Vineyard	Municipal	Groundwater	0.43	<1	<1		25I3109
2025-09-22	Meadows	Municipal	Groundwater	0.48	<1	<1		25I3109
2025-09-22	Mike's Auto	Rural North System #1	Groundwater	0.42	<1	<1		25I3109
2025-09-22	Ryegrass	Rural South System #2	Groundwater	0.05	<1	<1		25I3109
2025-09-22	Snowbrush	Rural South System #4	Groundwater	0.39	<1	<1		25I3109
2025-10-01	Hillside	Municipal	Groundwater	0.24	<1	<1		25I0285
2025-10-01	Fairview	Municipal	Groundwater	0.36	1	<1		25I0285
2025-10-01	Pinehill	Rural North System #1	Groundwater	0.29	<1	<1		25I0285
2025-10-01	Black Sage	Rural South System #2	Groundwater	0.23	<1	<1		25I0285
2025-10-01	6A Booster	Rural South System #6	Groundwater	0.34	<1	<1		25I0285
2025-10-06	Wolfcub	Municipal	Groundwater	0.32	<1	<1		25I0851
2025-10-06	Meadows	Municipal	Groundwater	0.30	<1	<1		25I0851
2025-10-06	McGowan	Rural North System #1	Groundwater	0.21	<1	<1		25I0851
2025-10-06	Sumac	Rural South System #6	Groundwater	0.17	<1	<1	>200	25I0851
2025-10-06	Ryegrass	Rural South System #2	Groundwater	0.22	<1	<1		25I0851
2025-10-07	Fairview	Municipal	Groundwater	0.27	<1	<1		25I1173
2025-10-07	Black Sage	Rural South System #2	Groundwater	0.24	<1	<1		25I1173
2025-10-07	Ryegrass	Rural South System #2	Groundwater	0.53	<1	<1		25I1173
2025-10-08	Fairview	Municipal	Groundwater	0.30	<1	<1		25I1131
2025-10-14	Sawmill	Municipal	Groundwater	0.16	<1	<1		25J1996
2025-10-14	Spartan	Municipal	Groundwater	0.38	<1	<1		25J1996
2025-10-14	Mike's Auto	Rural North System #1	Groundwater	0.57	<1	<1		25J1996
2025-10-14	Black Sage	Rural South System #2	Groundwater	0.11	<1	<1		25J1996
2025-10-14	Snowbrush	Rural South System #4	Groundwater	0.27	<1	<1		25J1996
2025-10-20	Wolfcub	Municipal	Groundwater	0.51	<1	<1		25J2787
2025-10-20	Vineyard	Municipal	Groundwater	0.17	<1	<1		25J2787
2025-10-20	Pinehill	Rural North System #1	Groundwater	0.11	<1	<1		25J2787
2025-10-20	Ryegrass	Rural South System #2	Groundwater	0.03	<1	<1		25J2787
2025-10-20	Fruitvale	Rural South System #7	Groundwater	0.05	<1	<1		25J2787
2025-10-27	McGowan	Rural North System #1	Groundwater	0.29	<1	<1		25J3774
2025-10-27	Fairview	Municipal	Groundwater	0.5	<1	<1		25J3774
2025-10-27	Station	Municipal	Groundwater	0.45	<1	<1		25J3774
2025-10-27	Black Sage	Rural South System #2	Groundwater	0.19	<1	<1		25J3774
2025-10-27	6A Booster	Rural South System #6	Groundwater	0.1	<1	<1		25J3774
2025-11-03	Wolfcub	Municipal	Groundwater	0.15	<1	<1		25K0213
2025-11-03	Meadows	Municipal	Groundwater	0.10	<1	<1		25K0213
2025-11-03	Mike's Auto	Rural North System #1	Groundwater	0.04	<1	<1		25K0213
2025-11-03	Ryegrass	Rural South System #2	Groundwater	0.06	<1	<1		25K0213
2025-11-03	Sumac	Rural South System #6	Groundwater	0.36	<1	<1	>200	25K0213
2025-11-12	Hillside	Municipal	Groundwater	0.07	<1	<1		25K1420
2025-11-12	Granby	Municipal	Groundwater	0.44	<1	<1		25K1420
2025-11-12	Pinehill	Rural North System #1	Groundwater	0.14	<1	<1		25K1420
2025-11-12	Black Sage	Rural South System #2	Groundwater	0.05	<1	<1		25K1420
2025-11-12	Snowbrush	Rural South System #4	Groundwater	0.37	<1	<1		25K1420
2025-11-17	Vineyard	Municipal	Groundwater	0.02	<1	<1		25K1962
2025-11-17	Meadows	Municipal	Groundwater	0.37	<1	<1		25K1962
2025-11-17	McGowan	Rural North System #1	Groundwater	0.09	<1	<1	>200	25K1962
2025-11-17	Ryegrass	Rural South System #2	Groundwater	0.03	<1	<1		25K1962

2025-11-17	Fruitvale	Rural South System #7	Groundwater	0.16	<1	<1	25K1962
2025-11-24	Fairview	Municipal	Groundwater	0.33	<1	<1	25K2829
2025-11-24	Granby	Municipal	Groundwater	0.53	<1	<1	25K2829
2025-11-24	Mike's Auto	Rural North System #1	Groundwater	0.14	<1	<1	25K2829
2025-11-24	Black Sage	Rural South System #2	Groundwater	0.04	<1	<1	25K2829
2025-11-24	6A Booster	Rural South System #6	Groundwater	0.17	<1	<1	25K2829
2025-12-01	Wolfcub	Municipal	Groundwater	0.38	<1	<1	25L0143
2025-12-01	Vineyard	Municipal	Groundwater	0.28	<1	<1	25L0143
2025-12-01	Pinehill	Rural North System #1	Groundwater	0.04	<1	<1	25L0143
2025-12-01	Ryegrass	Rural South System #2	Groundwater	0.04	<1	<1	25L0143
2025-12-01	Sumac	Rural South System #6	Groundwater	0.06	<1	<1	25L0143
2025-12-08	Hillside	Municipal	Groundwater	0.1	<1	<1	25L1162
2025-12-08	Spartan	Municipal	Groundwater	0.09	<1	<1	25L1162
2025-12-08	McGowan	Rural North System #1	Groundwater	0.18	<1	<1	25L1162
2025-12-08	Black Sage	Rural South System #2	Groundwater	0.05	<1	<1	25L1162
2025-12-08	Snowbrush	Rural South System #4	Groundwater	0.26	<1	<1	25L1162
2025-12-15	Vineyard	Municipal	Groundwater	0.17	<1	<1	25L1978
2025-12-15	Meadows	Municipal	Groundwater	0.10	<1	<1	25L1978
2025-12-15	Mike's Auto	Rural North System #1	Groundwater	0.27	<1	<1	25L1978
2025-12-15	Ryegrass	Rural South System #2	Groundwater	0.10	<1	<1	25L1978
2025-12-15	Fruitvale	Rural South System #7	Groundwater	0.04	<1	<1	25L1978
2025-12-22	Sawmill	Municipal	Groundwater	0.47	<1	<1	25L2670
2025-12-22	Station	Municipal	Groundwater	0.39	<1	<1	25L2670
2025-12-22	6A Booster	Rural South System #6	Groundwater	0.27	<1	<1	25L2670
2025-12-22	Black Sage	Rural South System #2	Groundwater	0.05	<1	<1	25L2670
2025-12-22	Pinehill	Municipal	Groundwater	0.07	<1	<1	25L2670
2025-12-29	Wolfcub	Municipal	Groundwater	0.35	<1	<1	25L2992
2025-12-29	Meadows	Municipal	Groundwater	0.28	<1	<1	25L2992
2025-12-29	Sumac	Rural South System #6	Groundwater	0.27	<1	<1	25L2992
2025-12-29	Ryegrass	Rural South System #2	Groundwater	0.06	<1	<1	25L2992
2025-12-29	McGowan	Rural North System #1	Groundwater	0.47	<1	<1	25L2992

2025 THMs & HAAs SAMPLING

Date	Location	System	THM MAC=0.1	HAA MAC=0.08	WORK ORDER
2025-02-10	Pinehill	Municipal	<0.00400	<0.00200	25B1052
2025-02-10	Meadows	Municipal	<0.00400	<0.00200	25B1052
2025-02-10	Wolfcub	Municipal	<0.00400	<0.00200	25B1052
2025-02-10	6A Booster	Rural South System #6	0.0069	<0.00200	25B1052
2025-02-10	Ryegrass	Rural South System #2	0.0104	<0.00200	25B1052
2025-05-12	Fairview	Municipal	<0.00400	0.00244	25E1625
2025-05-12	Spartan	Municipal	0.00527	<0.00200	25E1625
2025-05-12	McGowan	Rural North System #1	0.00622	<0.00200	25E1625
2025-05-12	Black Sage	Rural South System #2	0.0139	0.00884	25E1625
2025-05-12	6A Booster	Rural South System #6	<0.00400	<0.00200	25E1625
2025-07-21	Station	Municipal	<0.00400	<0.00400	25G2963
2025-07-21	Granby	Municipal	<0.00400	<0.00400	25G2963
2025-07-21	Snowbrush	Rural South System #4	0.0128	<0.00400	25G2963
2025-07-21	Mike's Auto	Rural North System #1	<0.00400	0.00513	25G2963
2025-07-21	Black Sage	Rural South System #2	0.0186	0.00759	25G2963
2025-10-20	Wolfcub	Municipal	<0.00400	<0.00460	25J2875
2025-10-20	Vineyard	Municipal	0.0130	0.00496	25J2875
2025-10-20	Pinehill	Municipal	0.0106	0.00440	25J2875
2025-10-20	Ryegrass	Rural South System #2	0.015	<0.00320	25J2875
2025-10-20	Fruitvale	Rural South System #7	0.0133	<0.00460	25J2875

**TOWN OF OLIVER - PUMPING STATIONS
WATER CONSUMPTION DATA**

2025 MONTHLY TOTALS

<i>CUBIC METERS</i>													
DAY	GROUNDWATER SOURCES												
	Scada	Scada	Scada	Scada	Scada	TOTAL GROUNDWATER USED FOR DOMESTIC	Scada	Scada	Scada	Scada	Scada	TOTAL GROUNDWATER USED FOR AGRICULTURE	TOTAL GROUNDWATER USED
	ROCKCLIFFE DOMESTIC PS	TUCELNUI PS 2	TUCELNUI PS 3	BUCHANAN DOM WELL	MILLER RD RD 13		MILLER RD DOM/IRR PS	BLACK SAGE DOM/IRR PS	TOTAL GROUNDWATER USED FOR	FAIRVIEW IRR WELL	BUCHANAN ROAD PS *		
	Mun	Mun	Mun	Sys 1	4,5,6,7		Sys 2	Sys 2	Both	Sys 5A	Sys 1		
used for DOMESTIC	used for DOMESTIC	used for DOMESTIC	used for DOMESTIC	used for DOMESTIC	used for BOTH	used for BOTH	Both	used for AGRICULTURE	used for AGRICULTURE				
January	0	39448	16462	16407	13148	85464	0	0	0	0	0	0	85464
Feburary	0	47526	6131	13896	0	67553	0	0	0	0	0	0	67553
March	6000	30903	19533	21912	16232	94579	0	0	0	8256	0	8256	102835
April	17040	10204	26626	50977	25813	130660	18003	0	18003	23727	0	23727	172390
May	66038	54492	40393	22308	15300	198531	76022	0	76022	4055	3155	7209	281762
June	92945	60369	33802	38932	21389	247437	128670	0	128670	0	7579	7579	383686
July	42613	77812	60394	55040	28940	264799	131333	0	143113	6761	2745	9505	417417
August	86288	59295	25322	49883	22186	242973	103195	0	103195	271000	3641	274641	620809
September	118441	27665	18908	35648	21228	221890	72557	0	72557	0	1297	1297	295744
October	70477	19719	28542	23133	14737	156608	31774	0	31774	11163	2639	13802	202185
November	50397	3757	8557	23903	13648	100262	0	0	0	0	0	0	100262
December	48373	8886	5764	19267	11135	93425	0	0	0	0	0	0	93425
TOTALS	598612	440076	290434	371305	203755	1904182	561554	0	573334	324961	21055	346016	2823533
WHEN ACTIVE					Double Check:	1904182					Double Check:	346016	2823533
YTD Max Flow	7515	5173	3004	4520	1672	12291	6764	0	6764	22000	1977	22000	31235
YTD Min Flow	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg Year Flow	47556	33219	21854	28721	15838	143399	41597	#DIV/0!	42469	24071	1560	23863	206803

APPENDIX E: 2025 GROUNDWATER CONSUMPTION DATA

Town of Oliver

Groundwater Consumption Data

US GALLONS

YEAR	January	February	March	April	May	June	July	August	September	October	November	December	YTD	10 YR Average	Average
2025	22,577,208	17,845,601	27,166,242	45,540,540	74,433,759	101,359,143	110,269,851	164,000,236	78,127,312	53,411,581	26,486,380	24,680,375	745,898,230	784,918,974	936,069,015
2024	26,353,270	25,887,007	32,769,173	56,128,446	90,186,023	98,608,813	129,964,041	174,200,287	77,704,067	61,522,434	23,143,052	22,381,444	818,848,059	784,918,974	936,069,015
2023	24,771,142	22,491,971	27,709,991	43,078,316	65,835,695	116,612,458	120,538,580	114,972,194	83,439,470	55,847,904	25,121,453	26,160,971	726,580,146	784,918,974	936,069,015
2022	23,392,643	21,770,642	29,197,368	51,081,623	75,877,918	87,600,014	114,826,928	130,859,944	87,938,299	67,326,124	25,201,930	26,213,514	741,286,947	784,918,974	936,069,015
2021	25,841,686	21,679,210	27,670,223	65,785,664	105,278,837	111,539,990	144,023,757	110,585,662	81,648,387	59,604,827	24,297,510	23,676,188	801,631,941	784,918,974	936,069,015
2020	25,795,469	24,648,672	38,939,523	48,618,456	75,490,661	78,829,209	129,972,821	128,329,944	95,213,591	71,385,016	28,671,338	25,394,770	771,289,469	784,918,974	936,069,015
2019	23,543,266	28,561,243	28,581,167	50,920,567	109,979,293	132,432,802	119,129,918	119,860,386	69,368,736	46,730,582	27,035,693	24,575,289	780,718,943	784,918,974	936,069,015
2018	25,693,865	23,678,138	32,157,774	48,096,882	102,453,177	117,372,052	157,067,454	138,706,689	81,652,713	55,774,737	27,718,659	23,604,690	833,976,828	784,918,974	936,069,015
2017	27,531,385	26,935,811	32,381,863	33,127,917	69,692,881	105,839,743	156,311,916	147,447,499	92,667,928	64,715,211	25,437,142	25,053,945	807,143,242	784,918,974	936,069,015
2016	26,495,703	25,304,817	29,968,727	64,556,558	114,449,576	105,588,928	126,590,568	139,721,723	84,497,704	52,219,628	26,892,706	25,529,293	821,815,931	784,918,974	936,069,015

CUBIC METERS

YEAR	January	February	March	April	May	June	July	August	September	October	November	December	YTD	10 YR Average	Average
2025	85,464	67,553	102,835	172,390	281,762	383,686	417,417	620,808	295,744	202,185	100,262	93,425	2,823,531	2,971,240	3,543,405
2024	99,758	97,993	124,045	212,469	341,391	373,275	491,967	659,420	294,142	232,888	87,606	84,723	3,099,676	2,971,240	3,543,405
2023	93,769	85,141	104,894	163,069	249,215	441,426	456,288	435,217	315,853	211,407	95,095	99,030	2,750,404	2,971,240	3,543,405
2022	88,551	82,411	110,524	193,365	287,229	331,602	434,667	495,359	332,883	254,857	95,400	99,229	2,806,075	2,971,240	3,543,405
2021	97,821	82,065	104,743	249,026	398,524	422,225	545,189	418,612	309,073	225,629	91,976	89,624	3,034,506	2,971,240	3,543,405
2020	97,646	93,305	147,402	184,041	285,763	298,401	492,000	485,781	360,422	270,222	108,533	96,130	2,919,647	2,971,240	3,543,405
2019	89,121	108,116	108,191	192,755	416,317	501,312	450,956	453,721	262,589	176,894	102,341	93,028	2,955,341	2,971,240	3,543,405
2018	97,262	89,631	121,730	182,066	387,827	444,301	594,565	525,062	309,089	211,130	104,926	89,353	3,156,944	2,971,240	3,543,405
2017	104,218	101,963	122,579	125,403	263,816	400,647	591,705	558,149	350,786	244,974	96,290	94,839	3,055,368	2,971,240	3,543,405
2016	100,297	95,789	113,444	244,373	433,239	399,697	479,197	528,904	319,858	197,673	101,800	96,639	3,110,910	2,971,240	3,543,405
10 Yr Average	95,391	90,397	116,039	191,896	334,508	399,657	495,395	518,103	315,044	222,786	98,423	93,602	2,971,240		
Average	111,492	104,705	128,039	233,678	394,558	469,315	621,088	605,399	390,305	263,499	115,100	106,228	3,543,405		