



Water Treatment Plant Annual Report 2024

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This report was completed in May 2025 in accordance with the requirements of the Ministry of Health Services and the Interior Health Authority.

1.0 Water Treatment History

In 1986 the City of Penticton experienced an outbreak of Giardia that was determined to have originated from the Penticton Creek water source. Engineering studies were conducted in 1987-1988 and a dual source, water treatment plant was determined to be the best solution for the future of Penticton. The plant was commissioned in the spring of 1996 and is located at the East end of Penticton Avenue next to Penticton Creek. In January of 1997 the city placed its new water treatment facility online and the Penticton Creek source was returned to service. Since 1997 the city has used only Okanagan Lake and Penticton Creek for its domestic water usage. The two sources are used in variable proportions from year to year. This is determined by source water quality, quantity and plant operational considerations.

In 2005 the city awarded a contract to Earth Tech (AECOM) Engineering Consultants to review the current water system and address any anticipated issues likely to arise over the next 5-year, 10-year, and 15-year terms. A preliminary recommendation of this study was that Penticton Creek could be used as an alternate summer peak demand water source. Pilot studies were completed in the fall of 2007 and a high-rate dissolved aeration process was identified as the preferred option to meet increased summer demands. The final design was completed in early 2008 and construction began in the fall of 2008. The project was completed in November 2009 and has allowed the city to operate a dual source variable conventional water plant. Recent changes have included the replacement of chlorine gas and Sulfur dioxide with the safer options of Sodium hypochlorite and Vitamin C.

2.0 Water Supply System

Penticton's water supply system was initially designed in the 1920s to use water from Penticton Creek. Okanagan Lake water was pumped into the system during the spring freshet due to the high colour and organics in the creek water. Water is currently supplied to the treatment plant from two sources – Penticton Creek, through a gravity system, and Okanagan Lake, through pumps and a dedicated raw water main. Okanagan Lake Pump Station was upgraded with new electrical controls, variable frequency drives, rebuilt pumps, an upgraded surge protection valve, and a cooling system for the Motor Control Centre to improve the reliability and life of key electrical equipment.

Penticton Creek Intake

The City of Penticton operates a drinking water intake in Penticton Creek. The Penticton Creek Watershed covers 174 km² and represents 90% of the total watershed area. According to previous research by Don Dobson, the most important snow-sensitive zone is 1660 m. Most of the precipitation in the watershed falls, primarily as snow, within this zone.

Penticton Creek originates from Greyback Mountain Dam, approximately 10 km east of Penticton at an elevation of 1,649 meters. Many small tributaries and creeks also feed Penticton Creek, which allows water to be used at times without depleting storage.

The City of Penticton maintains Greyback Lake and Dam, which has a maximum storage volume of 10,000-acre feet, or 12.3 million cubic meters. The dam was built in 1967 under the A.R.D.A. (Agricultural Rural Development Act) program. Untreated water is diverted from Penticton Creek at the Campbell Mountain Diversion for the North agricultural irrigation system. Penticton Creek continues west towards Penticton # 2 Dam.

The intake is located at the end of Penticton Avenue and draws water from a small balancing reservoir (71,500 m³) built in the stream channel of Penticton Creek. The creek flows over the top of the dam and onwards to Okanagan Lake.

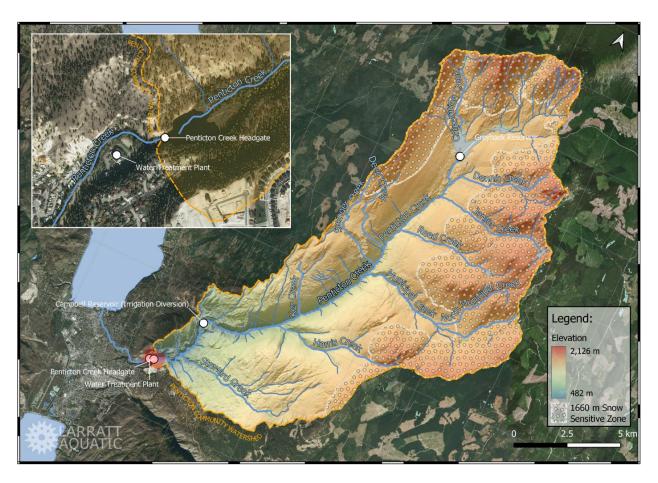
Further upstream is the Campbell Mountain Reservoir, storing up to 31,000 m³, which serves as a balancing reservoir for the irrigation system along the Naramata Bench.

Water temperature in Penticton Creek shows strong seasonal variation ranging from 3.7 °C during January, to 18 °C during August 2024. Storage in Greyback Reservoir contributes to the significant summer warming observed in the creek water.

True Colour, which is an indicator of organic material in the water averaged 46 TCU, with a low of 25 TCU, and a high of 110 TCU, and a high turbidity of 2.3 NTU



Figure 1. Penticton Creek Dam 2



Creek Name	Confluence Elevation (m ASL)	Watershed Area (ha)	Terrain Zone	Within Snow- Sensitive Zone?
Corporation	1578	556	Highlands u/s of Greyback Lake	Υ
Dennis	1515	978	Highlands	Υ
James	1476	854	Highlands	Υ
Reed	1337	903	Highlands	Υ
Deep	1218	245	Canyon	Υ
Selinger	1132	314	Canyon	Υ
Municipal	1100	2748	Highlands into Canyon	Υ
Harris	751	1386	Highlands into Canyon	Υ
Steward	519	1555	Mid-elevation into Canyon	N

 $Figure\ 2.\ Penticton\ Creek\ Tributaries\ -\ Larratt\ Aquatic$

In 2024, 1.18 billion Litres of creek water was blended with 5.61 billion Litres of Okanagan Lake water and treated at the Water Treatment Plant. The total intake into the treatment plant was 6.78 billion Litres in 2024.



Figure 3. Penticton Creek North Irrigation System

Okanagan Lake Intake

Okanagan Lake is a large, deep lake with low nutrient concentrations. It is approximately 135 km long, 1-5 km wide, and has a surface area of 350 km². The theoretical residency time is ~52.8 years. Its maximum depth is 230 m, with a mean depth of 76 m, and it is divided into three sub-basins by underwater ridges. The intake is located within the south basin. Okanagan Lake receives water from 19 major tributaries, of which Mission Creek and Trout Creek are the largest. Okanagan Lake discharges into Okanagan River at Penticton (a tributary of the Columbia River).



Figure 4. Okanagan Lake Water Shed -Larratt Aquatic

Every year, the single greatest effect on water quality in Okanagan Lake is the size of the freshet and its variable imports of nitrogen, phosphorus, pH, calcium, sulphates and organic/inorganic particulates.

Okanagan Lake is monomictic, forming distinct water temperature layers during the spring and remains stratified through the summer. The water layers erode during the fall until the water column mixes, usually in November. The lake becomes one temperature top to bottom and remains fully mixed throughout the winter until stratification commences again in the spring.

Turbidity in the Okanagan Lake raw water averaged 0.26 NTU with a low of 0.11 NTU and a high of 1.32 NTU. Freshet has a definite effect on turbidity with seasonal exceedances of 1 NTU in each year from 2019-2024.

True colour on the lake averaged 2.9 TCU with a low of 1 TCU and a high of 10 TCU during freshet.

The high turbidity was 1.32 NTU but this can be influenced by flow increases causing sediment in the intake and raw supply pipeline to be stirred.



Figure 5. Okanagan Lake Pump Station

Okanagan Lake water is pumped into the treatment plant from the Okanagan Lake Pump Station via a 5 KM dedicated main.

In 2024, the City of Penticton pumped 5.61 billion Litres from the Okanagan Lake pump station to the Penticton Water Treatment Plant. The total combined intake into the treatment plant was 6.78 billion Litres.

Warren Avenue Well

The Warren Avenue Well was fully decommissioned and officially closed and the water license rescinded in 2024.



Figure 6: Warren Ave Well

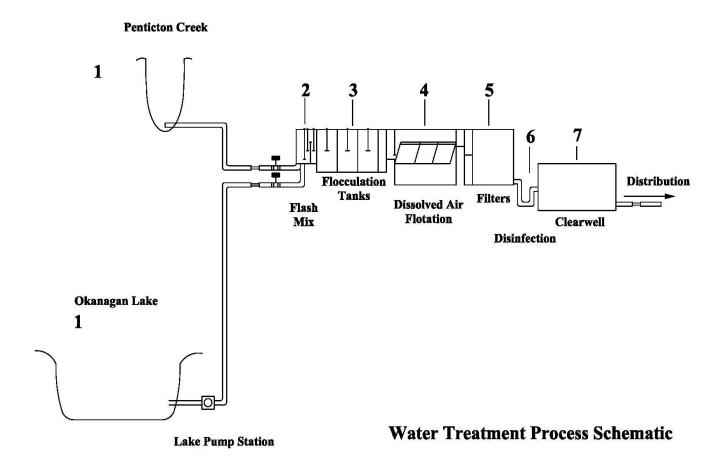


Figure 7. Penticton Water Treatment Schematic

3.0 Water Treatment

The City of Penticton's Water Treatment Plant has a 78 million Litres/day capacity and uses a multi-barrier system designed to treat water in a single or blended format from two sources: Okanagan Lake and Penticton Creek. The water quality of the two sources is distinctly different and requires different protocols for successful treatment. The objectives of treatment for the two sources are to meet Guidelines for Canadian Drinking Water Quality on a consistent basis.

The Water Treatment Plant was commissioned in 1996 and upgraded in 2008, which included the installation of the following processes: high-rate dissolved air flotation, new pump station and dedicated main for the Ridgedale Reservoir system, incline plate thickeners for the residuals process, and increased clear well storage.

In 2020, the chemical systems including Chlorine and SO_2 gases were removed and replaced with Sodium Hypochlorite and Vitamin C.

Blend Chamber

The water arrives at the treatment plant into the blend chamber, water from a single source or from both sources in the desired percentage is blended together and coagulants (chemicals that cause fine particles to clump together, forming "floc") are added. This mixing disperses the coagulants throughout the water and starts the coagulation process.



Figure 8. Penticton Blend Chamber

Chart 1: Monthly Chemical Record 2024

				Coagulant	
Month	In Flow	Out Flow	ACH	Aid	Floc Aid
	Million				
2024	Litres	Million Litres	mg/L	mg/L	mg/L
January	353.48	349.71	16.98	1.65	0.43
February	308.24	307.03	17.08	2.08	0.41
March	337.13	336.84	15.09	2.06	0.40
April	457.50	456.54	17.68	2.11	0.36
May	696.99	688.66	18.66	2.00	0.35
June	738.27	730.99	14.17	2.00	0.37
July	1023.44	1013.72	13.50	2.07	0.35
August	969.60	959.24	17.55	2.00	0.33
September	754.02	745.54	21.28	2.00	0.42
October	492.25	484.15	18.64	1.88	0.44
November	327.63	323.94	15.07	1.80	0.36
December	336.58	333.45	13.81	1.80	0.36
Average	566.26	560.81	16.29	1.96	0.38
Total	6782.93	6719.70			

• Average ACH dosage for the year

16.29 mg/L

• Average Coagulant Aid (CAP) polymer (WF 2551 A) dosage for the year

1.96 mg/L

• Average Floc Aid (WF 7220 A) dosage for the year

0.38 mg/L

Coagulation & Flocculation

Water passes through the flocculation tanks where it is gently mixed. Tapered energy mixing is employed in the flocculation process. The particles will come in contact with each other and form larger floc. It is in this stage of the process that the majority of the impurities and harmful bacteria are captured within the floc particles and will later be captured in the DAF float or the filter.



Figure 9. Penticton Water Treatment Floc Tank Mixers

Dissolved Air Floatation

The water enters the dissolved air flotation basin where a saturated dissolved air/water stream is mixed with the process stream allowing the floc particles that have formed in the previous process to rise. The float rises to the top of the basin removing impurities from the water.

This float is processed by the onsite centrifuge or diverted to the sewer system to aid in the wastewater treatment process. The water then proceeds to the filtration stage.



Figure 10. Penticton Water Treatment Dissolved Air Floatation

Filtration

Six deep bed, mono media filters are utilized at the Penticton Water Treatment Plant. The filter material used is anthracite coal at a depth of 1.80 meters. As the water passes through the filter, impurities are removed. The number of filter washes required is directly related to the quantity and quality of the water processed through the filter. Filter backwashes are regulated by four different factors:

The time the filter has been online, turbidity, particle counts, and head loss. The number of filter washes increases dramatically in the months of May - August. This is related to the amount of water processed during the increased summer water demands. In 2022, three of the filters received new butterfly valves and electric actuators. The remaining three filters were upgraded in spring 2023.



Figure 11. Penticton Water Treatment Mono Media Filters

Residuals Handling

There were no unauthorized discharges to Penticton Creek during 2024. The City of Penticton is constantly evaluating and making improvements to its treatment of the backwash stream. Ministry of Environment permit # PE-13491 which monitored the discharge was cancelled in 2011 due to changes in regulations.

Capital upgrades to the residuals process were constructed in 2009 as part of the Water Treatment Capacity Upgrade. These upgrades consisted of a new pump station and two new gravity thickeners to process backwash residuals.

In 2020 a Vitamin C de-chlorination system replaced the SO₂ gas to remove the backwash water chlorine residual. Testing of the backwash water indicates that the improvements made to the backwash handling system have considerably improved the discharge quality in comparison to pre-upgrade results.



Figure 12. Penticton Water Treatment Residual Handling Building

Disinfection

Once impurities have been removed from the water, liquid sodium hypochlorite is added as a disinfectant. This ensures the water is safe and prevents bacteria from developing as it travels from the treatment plant to the customer. The water treatment plant uses hypochlorite pumps that add a 6-12% sodium hypochlorite chlorine solution at pre flocculation, and post filtration to achieve the required 1.35 mg/L residual leaving the facility.

Chart 2, 2024 Chlorine Residual

Month	mg/L Cl
January	1.34
February	1.39
March	1.35
April	1.34
May	1.35
June	1.37
July	1.35
August	1.40
September	1.39
October	1.39
November	1.40
December	1.40
Average	1.37

Average 2024 chlorine residual at the clear well discharge was 1.37 mg/L

4.0 Water Distribution System

The City of Penticton water system consists of six reservoirs, five main pressure zones, two pump stations, three booster stations, 256.3 km of distribution mains, 1,082 fire hydrants and approximately 10,467 water service connections, serving a population of 36,885 people.

These reservoirs establish different pressure zones to service a particular area of the distribution system. The reservoirs are filled during periods of decreased water usage and are used to buffer the system when water demands are high.

Total reservoir capacity, excluding the treatment plant clear well, is 13.72 million Litres and (22.22 million Litres including water plant clear well). All reservoirs are remotely controlled via the SCADA system located at the Water Treatment Plant.

Water System Pressure Zones

- 1420 zone. The supply reservoir for this zone is the Duncan Avenue Reservoir, which has a capacity of 5.90 ML, and the Water Treatment Plant clear well. Water to fill this reservoir originates at the Treatment Plant and is controlled via a pressure reducing valve located near the reservoir. This zone supplies the lower areas of Penticton and West Bench.
- **1620** zone. The supply reservoir for this zone is the Evergreen Reservoir, which has a capacity of 2.30 ML. This zone supplies the southern middle bench lands of Penticton. The

water to fill this reservoir is gravity fed from the 1650 Ridgedale Reservoir via an automatic control valve.

- 1650 zone. The supply for this zone is the Ridgedale Reservoir, which has a capacity of 2.35 ML. Water for this reservoir is pumped from the Water Treatment Plant's clear well. This zone supplies the middle bench lands of Penticton.
- 1820 zone. The supply for this zone is the two Carmi Reservoirs and the Gordon Avenue Reservoir, which have a capacity of 1.14, 1.35 and 0.53 ML respectively. This zone supplies the upper-level areas of Penticton and is supplied by the Ridgedale Reservoir and pump station.
- 2020 zone. The supply for this zone is the Sendero Reservoir, which has a capacity of 1.5 ML. This zone supplies the Sendero and Ridge subdivision located in the upper Carmi region. Water to fill this reservoir is supplied from the Ridgedale Reservoir and pump station.

5.0 Water Plant Staffing

The water plant is staffed by Environmental Operators Certification Program (EOCP) certified operators seven days per week, 365 days per year. The current complement of staff is:

Chart 3. 2024 Staff Complement

Name	Position	Certification Level	Years of Experience
Alistair Wardlaw	Water Quality Supervisor	EOCP WT IV	36
Don Mortimer	Water Plant Forman	EOCP WT III	18
Matt Finlayson	Operator III	EOCP WT IV	10
Stuart Henderson	Operator III	EOCP WT IV	11
Jesse Repchuk	Operator II	EOCP WT III	5
Randy Wewetzer	Operator II	EOCP WT III	14
Scott Graham	Electrician/Instrumentation	Journeyman	16

All EOCP certified operators are mandated to receive annual 2.4 continuing education units of training every two years to maintain their certified operator certification.

6.0 Water Quality Monitoring Program

The raw water quality program is designed to compare seasonal trends that may impact treatment parameters and economic outcomes of using the source. The program includes parameters that are easily tested and linked to changes such as turbidity, temperature, pH, conductivity and microbiological results. The source monitoring program is conducted daily for each water source at the water treatment laboratory.

In addition to the laboratory tests conducted daily on each water source, the city samples both raw water sources weekly for Total Coliform and E. coli using the Colilert test method.

The City of Penticton maintains and operates ten dedicated sample stations located within the distribution system. The treated water within each pressure zone is continuously monitored for chlorine residual by an online residual analyzer connected to the Water Treatment Plant's SCADA via fibre optic or radio network. Chlorine dosage is adjusted at the treatment plant to maintain free chlorine residuals within the distribution system. The Works Department maintains two automatic flush systems at the system extremities to help keep residuals at appropriate levels.

Water Quality Monitoring

459 microbiological tests were sampled for E. coli and Total Coliform in the treated water supply in 2024. Biological tests were collected from 45 different locations within the city distribution boundaries. The results from the bacteriological tests indicated that 456 samples

were negative for bacteriological contamination. One test had an indeterminate result and subsequent resampling was negative. Two samples at a residence showed one and two total coliforms. Extensive testing revealed no concerns in the city water distribution system.

In 2024, a commercial lab tested the treated water and source waters four times a year. These scans test for disinfection byproducts, metals, nutrients, total organic carbon and organic pesticides. Samples are collected at the PRV Station, Okanagan Lake sample tap, Penticton Creek sample tap, and a rotating sample location in the distribution system.

In 2023, The City of Penticton participated in a study supervised by Health Canda to determine if the chemical PFAS was present in Okanagan Lake, Penticton Creek, and the treated water leaving the Water Treatment Plant. All levels were either not detectable or less than present and possible future guidelines. PFAS (per-and polyfluoralkyl substances) are a group of manmade chemicals used in various industries such as Teflon cookware, water repellent coatings, firefighting foams, as well as other products. They are a concern as they are considered "forever chemicals" meaning they are very difficult to breakdown and can cause health issues if present in food or water.

Testing for PFAS was conducted in 2024 and is an ongoing monitoring program.

The Health Canada and other testing showed extremely low or non-detectable levels so the Penticton drinking water is safe. The city will continue to work with Interior Health, Health Canada, and engineering consultants to monitor and report levels of these chemicals to ensure that Penticton's water is safe.

See Appendix B for Water Quality analysis and reports.

7.0 Water Use and Licenses

Domestic

The City of Penticton holds domestic water licenses for Penticton Creek, Ellis Creek and Okanagan Lake water sources for the purpose of Waterworks Local Authority.

Penticton Creek (license C014229), (license C005729) Ellis Creek (license C005731), license (C005732), and license (C025234) Okanagan Lake (license C116809), (C116810), (C116811), *(C130923), * (C130920) * West Bench operations

The total yearly capacity of these licenses is 250.9 billion Litres. In 2024, The City of Penticton pumped or diverted 6.78 Billion Litres from Okanagan Lake and Penticton Creek for domestic waterworks use.

Irrigation

The City of Penticton holds irrigation water licenses for Penticton Creek, Ellis Creek and Okanagan Lake water sources for the purpose of Irrigation.

Penticton Creek (license C035678), (license C005729) Ellis Creek (license C0241819), license (C0241803) Okanagan Lake (license C130923)

In 2024 the City diverted 1.42 billion Litres from the Penticton Creek system for irrigation use.

In 2024 the City diverted 324 million Litres from the Ellis system as well as 346 million litres from the WTP for irrigation use during construction of Ellis dam #4.

These licenses are renewed each year and reviewed by the Water Stewardship Division within the Ministry of Environment.

Chart 4. 2024 Raw Water Diversion for Domestic and Irrigation use

Month	Penticton Cr.	Ellis Cr.	Ok Lake	Total
2024	Million Litres	Million Litres	Million Litres	Million Litres
Domestic	1,175		5,607	6,783
Irrigation	1,419	324		2,089
g	.,			

The Ellis # 4 Dam had major reconstruction in 2024 and was out of service from July 2024 to April 2025. The Ellis system received 346 million Litres from July 2024 to October 2024 from the Water Treatment Plant using an emergency bypass connection with backflow protection.

8.0 Water Use Monitoring

The volume of water pumped from the Okanagan Lake Pump Station and Penticton Creek is continuously monitored by flow meters located at the Water Treatment Plant. Treated plant discharge water into the distribution system is also continuously monitored to determine peak days and unusual usage.

From 2015-2022, the City of Penticton's per capita water usage was trending down. In 2023 there was an increase, but in 2024 total and per capita water usage has returned to a downward trajectory.

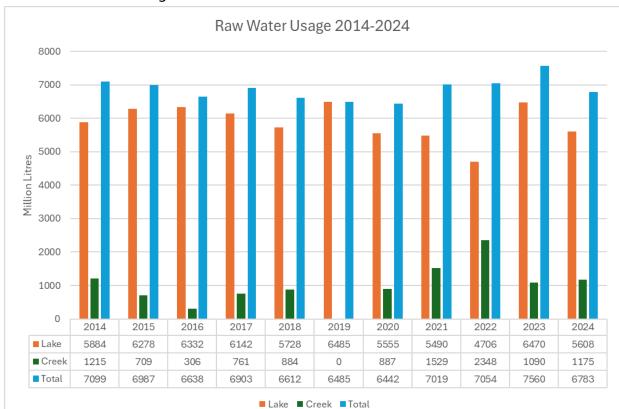


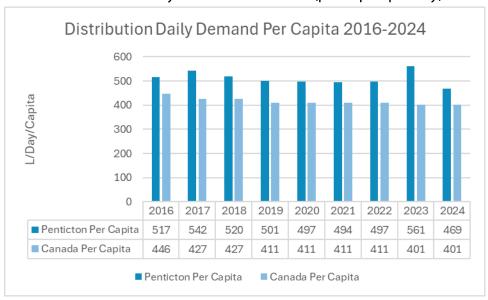
Chart 5. Raw Water Usage 2014 – 2024

Chart 6. Average Daily Demand 2015-2024 (per capita per day)

Year	Total Distribution (ML)	West Bench (ML)	West Bench Per Capita	Penticton Distribution Net (ML)	Population	Penticton Per Capita Water Usage (L/Day/person)	Canadian Per Capita (L/Day/person)
2024	6719.7	315	983	6404.6	39142	469	401
2023	7557.6	333	1043	7224.6	38375	516	401
2022	6986.2	296	928	6690.2	37623	487	411
2021	6988.4	339.6	1065	6648.8	36885	494	411
2020	6422.1	293.6		6128.5	33761	497	411
2019	6484.8	305		6179.8	33761	501	411
2018	6699	296		6403	33761	520	427
2017	7024	346		6678	33761	542	427
2016	6748	375		6373	33761	517	446
2015	6977	402		6575	32877	548	460

- Penticton population estimate based on the 2021 census plus estimate of 2% per year 39,142 population estimate for 2024
- West Bench population 874 from 2021 census.

Chart 7. Distribution Daily Demand 2016-2024 (per capita per day)



Average Penticton per capita demand based on net distribution (Total – West Bench)

Average Canadian demand from Statistics Canada

Chart 8. Maximum Daily Demand ML 2012-2024

Year	Population	Max Daily Demand (Litres/Capita)	Max Daily Demand (Million Litres)	Max Day
2012	32877	1107	36.4	Aug 20/12
2013	32877	1186	39	July 29/13
2014	32877	1266	42.3	July 14/14
2015	32877	1268	41.7	July 6/15
2016	33761	1063	37.2	June 6/16
2017	33761	1241	41.9	July 4/17
2018	33761	1220	41.2	July 25/18
2019	33761	1241	41.9	August 6/19
2020	33761	1084	36.6	August 18/20
2021	36885	1217	44.9	July 1/21
2022	37623	1100	41.4	August 8/22
2023	38375	1091	41.9	July 1/23
2024	39,142	1049	41.0	Aug 3/24

The peak maximum daily demand from the last 11 years was 44.9 million litres per day in 2021. The peak maximum daily demand historically was in July 2001 with 51.5 million litres per day, which was 1614 Litres per capita per day. Significant water conservation and the expanded use of reclaimed treated wastewater effluent for some parks and golf course irrigation are credited for the decreased water usage.

2012 – 2015 32,877 population from 2011 census

2016 – 2020 33,761 population from 2016 census

2021 36,885 population from 2021 census

2022 37,623 population estimate of 2021 census plus 2%

2023 38,375 population estimate 2022 plus 2%

2024 39,142 population estimate 2023 plus 2%

Chart 9. Water Consumption City of Penticton 2024

Month	Lake Supply	Creek Supply	Total Intake	Total Distribution
2024	Million Litres	Million Litres	Million Litres	Million Litres
January	251	103	353	350
February	243	65	308	307
March	279	58	337	337
April	427	31	457	457
May	662	35	697	688
June	781	189	970	959
July	915	108	1023	1013
August	781	189	970	959
September	542	212	754	746
October	349	144	492	484
November	232	96	328	324
December	239	98	337	333
Daily Average	15.36	3.22	18.58	18.41
Monthly Average	467	98	565	560
Total	5607	1175	6783	6720

9.0 Water Demand and Water Conservation

In 2014 an extension of the distribution system was constructed to supply domestic city water to the West Bench Irrigation System. This system is owned and operated by the Regional District and is supplied with water by The City of Penticton via a bulk purchase water agreement. In 2024, 315 million Litres of water was supplied to the West Bench Irrigation System.

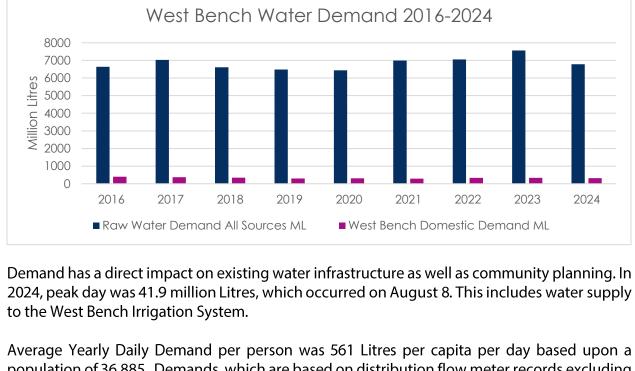


Chart 10. 2016 – 2024 Raw Water Demand / Including West Bench Irrigation District

Average Yearly Daily Demand per person was 561 Litres per capita per day based upon a population of 36,885. Demands, which are based on distribution flow meter records excluding backwash and other operational uses of water within the treatment process.

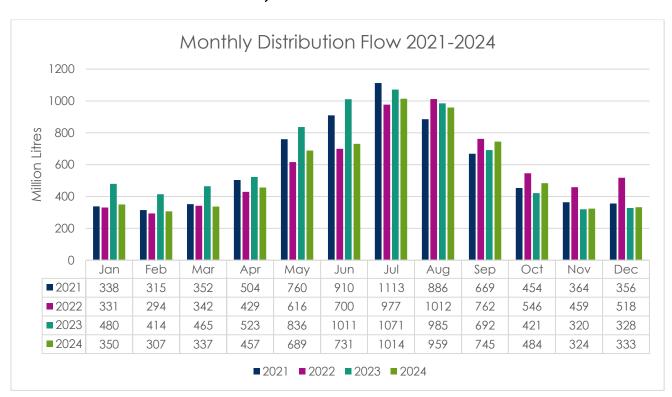


Chart 11. Total Distribution Demand by Month 2021 – 2024

2024 Water Conservation Goal and Objectives

1. Reduce Peak Day Demand and Average Daily Demand

Purpose – minimize the impact of our growing community on water resources. Effectively monitor programs, which aim at reducing Peak Day Demand and Average Daily Demand.

2. <u>Update Water Conservation Webpage</u>

Purpose – provide relevant solutions to reducing water waste as well as timely information on water consumption to promote the cause and effect of turning off the tap. Every drop counts! The City of Penticton's web page has links to the Okanagan Basin Water Board and valley wide information supporting water conservation.

10.0 Drought Management

In 2021, the city completed work with a consulting engineer to develop and update a drought management plan. The purpose of the plan is to provide the city with a professional report that identifies our water supply and looks at water demands historically and for the future. The identified drought resilience for each source and the requirements to mitigate an extended drought. The report identifies trigger points and provides decision making guidelines for each level of drought. In 2023, the Penticton Water System was in a Stage 1 restriction from May 1 to August 31.

Irrigation Systems

Two creeks within the City of Penticton boundaries are used as sources of water for irrigation systems. The South Okanagan Development Company initially developed the Penticton Creek irrigation system in 1906. The Ellis Creek irrigation system was developed in the late 1960's. The Penticton Creek Irrigation System is of high significance as the City of Penticton holds licenses for domestic water works on this source.

Penticton Creek Irrigation System

Records indicate that Penticton #1 Dam was built prior to 1921, although the exact year of construction is not known. It is located approximately 22 km northeast of Penticton. The dam has a live storage capacity of 1.48 million m³ and empties into the reservoir of Greyback Dam. A dam safety study identified seepage and stability issues and recommended the structure be updated or decommissioned. In September of 2006, upon final review of the Knight and Piesold dam study, Penticton #1 dam was breached and removed from service.

The Greyback Dam is located at the head of the Penticton Creek watershed, approximately 19-

km northeast of Penticton. The dam is used by the City of Penticton to supply and control water for domestic water and north irrigation system. The dam has a live storage capacity of approximately 12.33 million m³. Greyback Dam is a zoned earth fill embankment designed by the Canadian Department of Regional Economic Expansion, with construction completed in 1967. The dam is approximately 35 meters in height and 610 meters in length. An emergency spillway is located on the east abutment. Greyback Reservoir covers an area of approximately 300 acres and empties into Penticton Creek flowing into Campbell Mountain Diversion Dam followed by Penticton #2 dam.

Penticton Creek Irrigation System

A.C. McEachern Ltd. of Vancouver constructed the Campbell Mountain Diversion Dam in 1966-1967. The purpose of this project was to divert water from Penticton Creek via a tunnel to the north irrigation system. The diversion dam has a storage capacity of 31,000 m³ of water. The method of construction is an earth filled embankment with a side discharge concrete channel spillway and chute located on the right abutment. Before the construction of this diversion, irrigation water for farms and orchards located on the noth bench was via flume and open ditch. Water, that is not diverted, flows into Penticton Creek and Penticton #2 dam.

Penticton # 2 Dam is a concrete arch dam originally constructed in about 1930 and raised by 3 meters in 1939. The current dam is approximately 16 meters in height and spans 22 meters between abutments. The dam has a storage capacity of 71,500 m³ of water. The flooded area behind the dam is approximately 5 acres. The current use of the dam is to supply water to the Water Treatment Plant located immediately downstream. Flow data is monitored continuously.

Total daily city allotted capacity for irrigation from Penticton Creek is calculated to be 46.26 million Litres per day. 2024 peak day for Penticton Creek irrigation system was 15.2 million litres recorded at the Randolph Rd flow meter on July 7th Total demand on Penticton Creek Irrigation system in 2024 was 1.42 billion Litres

Ellis Creek Irrigation System

The Ellis Creek Diversion dam was constructed in 1966 by Interior Contracting Ltd. of Penticton and has been in operation since the spring of 1967. A major upgrade was started in June 2024. The dam was drained and out of service for the remainder of 2024 and into 2025.

The diversion dam is a small earth fill embankment with a concrete channel weir that spills over the crest and downstream face of the dam. The dam has a relatively minor storage capacity of approximately 6,200 m³ of water. The flooded area behind the dam is less than 1 acre. The diversion dam receives water from Ellis #2 and Ellis #4 dams. Maintenance of the diversion dam is the responsibility of the City Works Division.

The total daily city allotted capacity for irrigation from Ellis Creek is calculated to be 9.99 million litres per day. Peak day for Ellis Creek irrigation system occurred on August 2nd when 10.6

million litre demand was recorded by the Ellis Creek Irrigation flow meter. Total demand for Ellis Creek Irrigation system for 2024 was 670 million Litres.

Chart 12: Irrigation Water Use 2012-2024

Year	Penticton Creek Irrigation	Ellis Creek Irrigation (Million
	(Million Litres)	Litres)
2012	3126	330
2013	3015	263
2014	3208	297
2015	3228	397
2016	3113	754
2017	3340	886
2018	1318	764
2019	1252	690
2020	1246	644
2021	1591	863
2022	1156	598
2023	1571	724
2024	1419	670

11.0 Cross Connection Control

A cross connection refers to any actual or potential physical connection between a potable water line and any pipe, vessel or machine containing or possibly containing a non-potable fluid, gas or solid, such that it is possible for the contaminant to enter the water system by backflow.

The City of Penticton's Cross Connection Control program has approximately 2,542 testable assemblies. These testable assemblies refer to Double Check Valve Assemblies and Reduced Pressure Backflow Assemblies isolating moderate and high hazards. The program is managed by the City of Penticton Building Department.

A secondary component of the Cross Connection Control Program entails performing site surveys and plan reviews of proposed building projects which identify actual or potential cross connections and their remedies. In some cases, the solution incorporated a non-testable device such as a Hose Bib Vacuum Breaker, an approved air gap or the elimination of the backflow hazard altogether.

These measures are in place as a means of providing safe drinking water and meeting one of the City of Penticton's conditions on the Interior Health Permit to Operate.

12.0 Source Water Protection Assessment and Plan

The objective of this drinking water source assessment was to quantify the source water quality, identify hazards, and make recommendations on protecting the source water quality of the City of Penticton's Okanagan Lake and Penticton Creek intakes.

Specific recommendations and action plans were developed with the aim of providing the best water quality. Key recommendations include:

- applying best management practices for shoreline protection
- creating a legal framework for the intake protection zone
- improving the condition of Penticton Creek's watershed drainage infrastructure
- educating recreators on how to operate safely near the intakes.

This assessment characterizes natural and man-induced hazards to drinking water quality as physical, chemical, or biological. As these risks change over time, revisions of this document may be needed. Existing research was augmented by a 2021 survey of the Penticton Creek watershed, field study of water currents, water quality profiles, and algae sampling in Okanagan Lake near the intake.

13.0 Water Operational and Capital Improvements

Capital Improvements 2024

- 1. Penticton PRV Replacement Tender awarded late 2024 with no significant work started.
- 2. 168 M of 150mm watermain
- 3. 82 M of 200mm watermain
- 4. 130 M of 300mm watermain
- 5. 11 fire hydrants installed
- 6. Ellis #4 Upgrade construction started in July 2024.

Distribution System Maintenance 2024

- 1. Hydrants Inspected "A" 347 / "B" 749
- 2. Main lines valves operated 246
- 3. 2500 Service Valve confirmation checks completed.
- 4. 20 Emergency water main repairs
- 5. 62.65 KM of water main flushed
- 6. 15% of watermains evaluated for leaks with acoustic leak equipment
- 7. 99 Water meters replaced through maintenance
- 8. 87 new water meters installed through development driven construction
- 9. New debris boom installed at Penticton #2 Dam / Ellis Creek Diversion Dam
- 10. 38 new water service install between 25mm 150mm

Appendix A Quick Facts 2024

2024 Lab Data			
Lake	High	Low	Avg
Alkalinity	118	98	110
Colour			
Apparent	15	2	6
Colour True	10	<u> </u>	3
Hardness	132	110	125
pН	8.41	7.88	8.08
Turbidity	1.320	0.107	0.256
Creek	High	Low	Avg
Alkalinity	20	4	13
Colour			
Apparent	131	28	55
Colour True	110	25	46
Hardness	20	6	13
pН	7.66	6.26	6.87
Turbidity	2.31	0.458	0.780
Distribution	High	Low	Avg
Alkalinity	111	74	94
Hardness	122	86	104
рН	8.34	7.71	8.00
Turbidity	0.039	0.018	0.030

2024 Raw Source Water Volumes

Raw water source volumes	
Flows	Million Litres
Ellis Creek Irrigation	670.2
Penticton Creek Irrigation	1419.2
Penticton Creek Domestic	1175.4
Okanagan Lake	5607.5
Warren Ave Well	0
Total Plant Intake	6782.9

2024 Distribution Quick Facts

Quick Facts			
2024 Parameter	Result	Unit	Date
Total Distribution	6719.7	ML	2024 Total Distribution
Maximum Day	41.042	ML/d	2024 Max Day
Minimum Day	7.13	ML/d	2024 Min Day
Average Daily	18.58	ML/d	2024 Average
Average Daily / Capita	469	L/d/c	2024 Average
Maximum Daily / Capita	1049	L/d/c	Aug 3 2024
Minimum Daily / Capita	182	L/d/c	Jan 25 2024
Average Alkalinity	94	mg/l CaOH3	2024 Average
Chlorine Avg. at Plant	1.37	mg/l	2024 Average
		mg/l	
Hardness Average	104	CaOH3	2024 Average
pH Average	8.00	pH Units	2024 Average
Turbidity Avg.	0.030	NTU	2024 Average

Appendix B – Water Quality Lab Reports

- Summary of 2024 Bacteriological Testing
- Caro Quarterly Sampling Results
- Carollo PFAS Summary Results

	2024												
	Sample #	Date	Time	Location	Pressure Zone	Free CL2	Turbidity (NTU)	Temp (*C)	рН	E. coli Coliform /100 mL CARO	Total Coliform (/100 mL) CARO	e.Coli Coliform (/100ml) In-House	Total Coliform (/100mL) In-House
	1	2-Jan	10:30	Randolph	1650ft/503m	0.87	0.034	8.00	7.95	<1	<1		
	2	2-Jan	10:55	OK lake Pump House	1420ft/433m	0.87	0.113	8.30	7.81	<1	<1		
	3	2-Jan 2-Jan	11:35 13:55	490 Waterloo Ave 397 Edna Ave	1420ft/433m 1420ft/433m	1.03 1.28	0.058 0.088	8.00 6.30	7.71 7.69	<1 <1	<1 <1		
	5	2-Jan	13:10	Gordon	1820ft/555m	0.56	0.098	7.20	7.84	<1	<1		
	6 7	2-Jan 5-Jan	13:30 13:55	Lawrence Randolph	2020ft/616m 1650ft/503m	0.43 0.95	0.093 0.085	6.20 6.10	7.78 7.89	<1	<1	Α	A
	8	5-Jan	13:40	1900 Penticton Ave	1650ft/503m	1.03	0.083	6.00	7.88			A	A
	9	5-Jan	14:35	4300 Lakeside Rd	1420ft/433m	0.79	0.085	8.70	8.03			Α	А
	10 11	9-Jan 9-Jan	13:33 13:58	Randolph 4300 Lakeside Rd	1650ft/503m 1420ft/433m	0.88 0.86	0.110 0.130	5.90 10.00	8.10 8.20	<1 <1	<1 <1		
	12	9-Jan	14:13	Gordon	1820ft/555m	0.65	0.465	6.80	8.20	<1	<1		
	13	9-Jan	14:37 14:44	Carmi	1820ft/555m	0.78	0.230 0.204	8.00	8.10 8.10	<1	<1		
	14 15	9-Jan 9-Jan	15:00	Lawrence 1900 Penticton Ave	2020ft/616m 1650ft/503m	0.50 1.03	0.204	6.20 9.40	7.90	<1 <1	<1 <1		
	16	12-Jan	10:35	Randolph	1650ft/503m	0.82	0.058	6.70	7.97			Α	Α
	17 18	12-Jan 12-Jan	10:57 11:47	OK lake Pump House Gordon	1420ft/433m 1820ft/555m	0.85 0.46	0.105 0.286	6.90 6.30	7.85 7.88			A A	A A
January	19	16-Jan	11:47	4300 Lakeside Rd	1420ft/433m	0.46	0.280	7.50	8.02	<1	<1	A	A
	20	16-Jan	12:43	1946 Harris Drive	2020ft/616m	0.22	0.079	7.70	7.97	<1	<1		
	21 22	16-Jan 16-Jan	13:25 13:47	Carmi Station OK Lake Pump Station	1820ft/555m 1420ft/433m	0.51 0.74	0.097 0.137	6.50 7.10	7.93 7.84	<1 <1	<1 <1		
	23	16-Jan	14:14	Community Centre	1420ft/433m	0.93	0.051	8.60	7.73	<1	<1		
	24	16-Jan	14:38	Randolph Rd	1650ft/503m	0.97	0.069	6.30	7.84	<1	<1		
	25 26	20-Jan 20-Jan	11:05 11:30	Gordon Carmi Station	1820ft/555m 1820ft/555m	0.48 0.64	0.122 0.153	5.10 5.60	8.00 7.84			A A	A A
	27	20-Jan	14:00	1900 Penticton Ave	1650ft/503m	0.98	0.066	4.20	7.81			Α	Α
	28 29	23-Jan 23-Jan	10:52 11:11	4300 Lakeside Rd Gordon Station	1420ft/433m 1820ft/555m	0.75 0.49	0.046 0.117	6.40 5.40	7.93 7.84	<1 <1	<1 <1		
	30	23-Jan 23-Jan	11:45	1900 Penticton Ave	1650ft/503m	0.49	0.036	8.60	7.72	<1	<1		
	31	23-Jan	13:17	Carmi Station	1820ft/555m	0.56	0.833	5.10	7.85	<1	<1		
	32 33	23-Jan 23-Jan	13:47 14:07	Randolph Rd Station OK Lake Pumpstation	1650ft/503m 1420ft/433m	0.84 0.55	0.050 0.124	5.40 6.70	7.77 7.75	<1 <1	<1 <1		
	34	25-Jan	9:17	OK Lake Pumpstation	1420ft/433m	0.83	0.086	5.90	7.76	12	12	А	А
	35	25-Jan	10:39	Gordon Station	1820ft/555m	0.53	0.097	5.30	7.88			A	A
	36 37	25-Jan 2-Feb	11:15 10:18	Carmi Station Yards	1820ft/555m 1650ft/503m	0.55 0.68	0.308 0.169	5.80 8.80	7.86 7.73			A A	A A
	38	2-Feb	10:39	1410 Penticton Ave	1650ft/503m	1.10	0.065	5.60	7.74			Α	А
	39 40	2-Feb 6-Feb	13:33 8:58	Naramata Rd. 4300 Lakeside Rd	1650ft/503m 1420ft/433m	0.55 0.70	0.058 0.082	5.80 6.80	7.81 7.82	<1	<1	Α	Α
	41	6-Feb	9:16	Gordon Ave Station	1820ft/555m	0.70	0.082	5.40	7.82	<1	<1		
	42	6-Feb	10:37	Randolph Rd Station	1650ft/503m	0.85	0.054	5.30	7.75	<1	<1		
	43 44	6-Feb 6-Feb	10:57 11:20	OK Lake Pumphouse Carmi Station	1420ft/433m 1820ft/555m	0.84 0.56	0.071 0.109	6.20 6.00	7.77 7.81	<1 <1	<1 <1		
	45	6-Feb	11:39	Lawrence Test Station	2020ft/616m	0.33	0.067	4.50	7.81	<1	<1		
	46	9-Feb	13:30	Gordon Ave Station	1820ft/555m	0.53	0.159	5.70	7.93			A	A
	47 48	9-Feb 9-Feb	13:28 14:04	1946 Harris Dr. 1900 Penticton Ave	2020ft/616m 1650ft/503m	0.37 0.85	0.232 0.037	6.00 9.00	8.01 8.05			A A	A A
	49	13-Feb	10:41	Yards	1650ft/503m	0.68	0.182	9.00	7.79	<1	1.0		
	50 51	13-Feb 13-Feb	11:04 11:21	4300 Lakeside Rd Gordon Ave Station	1420ft/433m 1820ft/555m	0.82 0.54	0.068 0.094	7.10 5.60	7.84 7.88	<1 <1	<1 <1		
	52	13-Feb	11:21	Carmi Station	1820ft/555m	0.55	0.094	5.80	7.83	<1	<1		
	53	13-Feb	13:43	Randolph Rd Station	1650ft/503m	0.87	0.071	5.40	7.84	<1	<1		
	54 55	13-Feb 16-Feb	14:04 9:18	OK Lake Pumpstation 4300 Lakeside Rd	1420ft/433m 1420ft/433m	0.97 0.77	0.078 0.097	6.20 6.60	7.87 8.03	<1	<1	A	Α
February	56	16-Feb	9:37	1410 Penticton Ave	1420ft/433m	1.11	0.066	6.00	7.92			A	A
	57	16-Feb	13:46	1900 Penticton Ave	1650ft/503m	1.02	0.080	6.80	7.88			A	A
	58 59	16-Feb 20-Feb	13:24 10:30	OK Lake Pump Station (Resample) Gordon Ave Station	1420ft/433m 1820ft/555m	0.96 0.58	0.099	5.30	7.84	<1	<1	A	А
	60	20-Feb	10:53	Carmi Station	1820ft/555m	0.61	0.091	5.90	7.82	<1	1.0		
	61 62	20-Feb 20-Feb	11:16 13:03	Lawrence Test Station WWTP	2020ft/616m 1420ft/433m	0.63 0.93	0.064 0.060	4.70 10.10	7.80 7.80	<1	<1 <1		
	63	20-Feb 20-Feb	13:03	OK Lake Pumphouse	1420ft/433m 1420ft/433m	0.93	0.060	10.10 5.90	7.80	<1 <1	<1		
	64	20-Feb	13:55	Randolph Rd Station	1650ft/503m	0.86	0.083	5.60	7.80	<1	<1		
	65 66	23-Feb 23-Feb	11:25 11:30	1900 Penticton Ave 4300 Lakeside Rd	1650ft/503m 1420ft/433m	0.99 0.71	0.057 0.153	5.90 6.90	8.07 7.90			A A	A A
	67	23-Feb	12:00	Gordon Ave Station	1820ft/555m	0.71	0.133	5.90	7.90			A	A
	68	23-Feb	12:20	Carmi Station (Resample)	1820ft/555m	0.60		6.90				Α	Α
	69 70	27-Feb 27-Feb	10:29 10:47	4300 Lakeside Rd Yards	1420ft/433m 1650ft/503m	0.74 0.81	0.110 0.180	7.10 8.90	7.78 7.74	<1 <1	<1 <1		
	71	27-Feb	10:57	Carmi Stn	1820ft/555m	0.64	0.230	6.60	7.74	<1	<1		
	72	27-Feb	11:20	Fairford Bridge	1420ft/433m	1.01	0.220	5.40	7.81	<1	<1		
	73 74	27-Feb 27-Feb	11:43 12:57	Riverside Dr 1900 Penticton Ave	1420ft/433m 1650ft/503m	0.85 0.98	0.090 0.090	6.60 4.90	7.79 7.80	<1 <1	<1 <1		
	, +	21 ICU	14.37	1500 I CHUCCOH AVE	103017303111	0.50	1 0.030	ال <i>ال</i> د. -	7.00			<u> </u>	

1.5 1.54m 90-22 GovernorSets 3500/0500 0.30 0.30 0.30 7.98		ı	T									1		
77 Subur 10.106 ASSET Laisante Bi 1400/35100 0.50 0.0370 7.00 7.077 A A			1-Mar	8:52	Gordon Ave Stn	1820ft/555m	0.53	0.120	6.00	7.98			Α	Α
200 200		76	1-Mar	9:16	Randolph Rd Stn	1650ft/503m	0.90	0.054	5.00	7.96			Α	Α
70 S-Mar 101-86		77	1-Mar	10:36	4300 Lakeside Rd	1420ft/433m	0.79	0.079	7.00	7.97			Α	Α
70 S-Mar 101-86			1			· ·					<1	<1		
Section 1.12 Section 1.12 Section 1.22 Section 1.22 Section 1.23 Section 1.24 Sect			ł — — — — — — — — — — — — — — — — — — —			<u> </u>			-			-		
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80 5-Mar 10.5-66 Newwork Dr. 4200 Usaben Pd 4		81	5-Mar	13:13	Smythe Test Station	1420ft/433m	0.52	0.083	6.90	7.96	<1	<1		
Section Sect		82	5-Mar	13:40	Timmins Test Station	1420ft/433m	1.21	0.055	5.50	8.00	<1	<1		
8-1 8-1440 13 15 30 30 30 30 30 30 30 3		83	5-Mar	13:54	Riverside Dr	1420ft/433m	0.93	0.093	6.80	8.01	<1	<1		
BS S-Marr 13-75			ł			<u> </u>			 				Δ	Δ
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87 17-Mars 102/6			ł		·									
88 1.9 Mars 10000			ł		` '				-				А	А
No. No.		87	12-Mar	10:26	4300 Lakeside Rd	1420ft/433m	0.76	0.065	7.10	7.96	<1	<1		
March		88	12-Mar	10:50	Elm Ave Test Stn	1420ft/433m	0.76	0.170	6.70	7.95	<1	<1		
March		89	12-Mar	11:20	Wiltse Blvd Test Stn	1620ft/494m	0.63	0.160	5.70	8.00	<1	<1		
March		90	12-Mar	13:18	Carmi Station	1820ft/555m	0.60	0.161	6.90	7.98	<1	<1		
Marcol 92 12-Mart 13:58 Effective for 14201/433m 0.90 0.0088 6.80 7.96 ct ct ct ct ct ct ct c			ł			·								
93 15 km 1044 Valleyrine Fest Station 1600th/458m 0.41 0.299 5.90 7.99 M. A. A. A. A. S.	N 4 l													
94 15-Mar 11-03 Semyler Test Station 14-2001/43/am 0.00 0.002 7.10 7.91	March		ł			<u> </u>					<1	<1		
95 13-Mar 12:28 Transmis Fest Station 14/2011/43331 12:0 0.044 5.80 7.93		93	15-Mar	10:43	Valleyview Test Station	1620ft/494m	0.41	0.239	5.90	7.99			Α	Α
96 19-Mar 13:20 Sympter Fast Station 142011/43331 0.560 0.058 7.70 8.11 <1 <1 <		94	15-Mar	11:03	Smythe Test Station	1420ft/433m	0.60	0.052	7.10	7.91			Α	Α
96 129-Mar 13:20 Sympton fest Station 1400H/9387 0.60 0.098 7.70 8.11 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <		95	15-Mar	11:28	Timmins Test Station	1420ft/433m	1.20	0.044	5.80	7.93			Α	Α
97 19 May 13441 Cordon Ave Sten 1920h/5557h 0.07 0.155 7.70 7.99 c1 c1 c1 c1 c1 c1 c1			ł	13.20	Smythe Test Station	<u> </u>					<1	<1		
198 1994haf 133-86 Writtee Bird Test 501 1820Ff/190m 0.8-5 0.130 0.6-80 7.793 <1 <1 <			.		, , , , , , , , , , , , , , , , , , ,	 								
99 19 Mar 3317 Severaide Dr 14/20Pt/438m 1.01 0.066 7.60 7.33 <1 <1 <			ł			<u> </u>								
100 19 Mar 1351 Rundsigh Ref Sin 16501/1/30 0.41 0.017 6.90 7.78 <1 <1														
101 199-Mer 14:22 Lawrence Ave Test Stort 2020Ft/Stort 100 0.047 6.90 7.78 <1 <1						<u> </u>						-		
102 21-Mart 11:32 Randolph in Stor 1250F(903m 1.00 0.094 8.20 8.00		100	19-Mar	13:51	Randolph Rd Stn	1650ft/503m	0.91	0.073	6.20	7.93	<1	<1		
102 21-Mart 11:32 Randolph in Stor 1250F(903m 1.00 0.094 8.20 8.00		101	19-Mar	14:22	Lawrence Ave Test Stn	2020ft/616m	0.44	0.047	6.90	7.78	<1	<1		
103 21-Mart 12:55 1900 Periticion / New (VTP) 1850/1903m 1.00 0.094 8.20 8.02													Δ	Α
104 21 May 13/44 Curm Station 13201/555m 0.09 0.205 8.40 8.05			ł		•	<u> </u>								
105 26-Mar 13:25 Lawrence Aue Test Stn 15001/503m 0.84 0.080 7.20 8.70 <1 <1 <					, ,									
106													А	Α
107		105	26-Mar	13:24	Lawrence Ave Test Stn	2020ft/616m	0.44	0.080	7.20	8.20	<1	<1		
108		106	26-Mar	13:55	Randolph Rd Stn	1650ft/503m	0.83	0.070	6.60	8.10	<1	<1		
108		107	26-Mar	13:15	4300 Lakeside Rd	1420ft/433m	0.67	0.066	9.00	7.94	<1	<1		
109		108	26-Mar	14:00	Valley View		0.47		-	7 99	<1	<1		
110 2-Apr 11:14 Smythc Dr 142/0ft/439m 0.63 0.046 9.40 7.89 c1 c1					•									
111 2 - Apr 11:35						 			-			†		
112		110	2-Apr	11:14	Smythe Dr	1420ft/433m	0.63	0.046	9.40	7.89	<1	<1		
113		111	2-Apr	11:35	Wiltse Blvd	1620ft/494m	0.81	0.605	8.10	7.95	<1	<1		
114		112	2-Apr	11:59	Lawrence Ave	2020ft/616m	0.57	0.041	8.50	7.95	<1	<1		
114		113	2-Apr	13:25	Timmins St	1420ft/433m	1.17	0.034	8.40	7.99	<1	<1		
115 2-Apr 14:06 Randolph Rd Station 1550ft/503m 0.87 0.034 7.30 7.99 c1 c1 c1 c1 c1 c1 c2 c4 c1 c2 c4 c4 c4 c4 c4 c4 c4						<u> </u>			-					
116			· ·											
117					•	 			-					
118 S-Apr 11:30			<u> </u>								<1	<1		
119 5-Apr 13:00 1900 Penticton Ave 1650ft/503m 1.02 0.035 9.30 8.21		117	5-Apr	10:31	Gordon	1820ft/555m	0.57	0.079	8.50	8.07			Α	Α
120		118	5-Apr	11:30	Carmi Station	1820ft/555m	0.63	0.146	7.90	7.87			Α	Α
120 9-Apr 10:24		119	5-Apr	13:00	1900 Penticton Ave	1650ft/503m	1.02	0.035	9.30	8.21			Α	Α
121 9-Apr 11:12 Valleyview 1520ft/494m 0.60 0.172 9.20 8.07 <1 <1 <1 <1 <1 <1 <1 <		120	<u> </u>	10.24		· ·				7 93	<1	<1		
122 9-Apr 11:34 Gordon 1820ft/555m 0.49 0.095 9.00 8.12 <1 <1			· ·									†		
123			· ·		•	<u> </u>						†		
124 9-Apr 13:49 Riverside 1420ft/433m 0.96 0.199 8.60 7.93 <1 <1			 											
April 125 9-Apr 14:20			9-Apr			<u> </u>			-		<1	<1		
April 126		124	9-Apr	13:49	Riverside	1420ft/433m	0.96	0.199	8.60	7.93	<1	<1		
April 126		125	9-Apr	14:20	Lawrence	2020ft/616m	0.52	0.041	8.60	7.96	<1	<1		
April 127 12-Apr 10:41 City Yards 1650ft/503m 1.01 0.055 10.10 8.20			 			<u> </u>						†		
April April 128			<u> </u>			·			-		-	<u> </u>	Δ	Δ
April 129 12-Apr 11:50 Carmi Station 1820ft/555m 0.87 0.319 9.30 8.10			· ·		•									
April 130			1											
130	April		 						-				А	Α
132 16-Apr 11:19 Smythe Dr 1420ft/433m 0.64 0.061 10.10 7.96 <1 <1	,	130	16-Apr	10:19	Riverside Drive	1420ft/433m	1.06	0.063	8.80	7.92	<1	<1		
133 16-Apr 11:46 Elm Ave 1420ft/433m 0.84 0.092 10.20 7.97 <1		131	16-Apr	10:45	Randolph Rd Station	1650ft/503m	0.94	0.038	7.50	7.93	<1	<1		
133 16-Apr 11:46 Elm Ave 1420ft/433m 0.84 0.092 10.20 7.97 <1		132	16-Apr	11:19	Smythe Dr	1420ft/433m	0.64	0.061	10.10	7.96	<1	<1		
134 16-Apr 13:33 Wiltse Blvd 1620ft/494m 0.60 0.266 9.00 8.03 <1 <1			· ·		•									
135 16-Apr 13:54 Carmi Station 1820ft/555m 0.60 0.096 8.90 8.06 <1			<u> </u>						-					
136 16-Apr 14:30 1900 Penticton Ave 1650ft/503m 1.03 0.079 8.10 8.02 <1			<u>'</u>			<u> </u>			 					
137 19-Apr 12:45 4300 Lakeside Rd 1420ft/433m 1.02 0.140 10.20 8.40 A A A 138 19-Apr 13:05 Valleyview Test Stn 1620ft/494m 0.50 0.470 9.80 8.30 A A A 139 19-Apr 14:00 1900 Penticton Ave 1650ft/503m 1.08 0.090 9.60 8.30 A A A 140 23-Apr 10:23 Yards 1650ft/503m 1.07 0.038 11.00 7.96 <1			· · · · · ·											
138 19-Apr 13:05 Valleyview Test Stn 1620ft/494m 0.50 0.470 9.80 8.30 A A A 139 19-Apr 14:00 1900 Penticton Ave 1650ft/503m 1.08 0.090 9.60 8.30 A A A 140 23-Apr 10:23 Yards 1650ft/503m 1.07 0.038 11.00 7.96 <1			· ·			<u> </u>					<1	<1		
139 19-Apr 14:00 1900 Penticton Ave 1650ft/503m 1.08 0.090 9.60 8.30 A A A 140 23-Apr 10:23 Yards 1650ft/503m 1.07 0.038 11.00 7.96 <1		137	19-Apr	12:45	4300 Lakeside Rd	1420ft/433m	1.02	0.140	10.20	8.40			А	Α
139 19-Apr 14:00 1900 Penticton Ave 1650ft/503m 1.08 0.090 9.60 8.30 A A A 140 23-Apr 10:23 Yards 1650ft/503m 1.07 0.038 11.00 7.96 <1		138	19-Apr	13:05	Valleyview Test Stn	1620ft/494m	0.50	0.470	9.80	8.30			А	Α
140 23-Apr 10:23 Yards 1650ft/503m 1.07 0.038 11.00 7.96 <1			 		,	<u> </u>								
141 23-Apr 10:50 Smythe Dr 1420ft/433m 0.71 0.048 11.30 7.89 <1 <1 142 23-Apr 11:15 Gordon Station 1820ft/555m 0.55 0.052 10.30 7.93 <1			 			· ·					~1	~1	,	
142 23-Apr 11:15 Gordon Station 1820ft/555m 0.55 0.052 10:30 7.93 <1						· · · · · · · · · · · · · · · · · · ·			-			-		
143 23-Apr 11:50 Wiltse Blvd 1620ft/494m 0.68 0.550 9.00 7.89 <1 <1 144 23-Apr 13:18 Timmins St 1420ft/433m 1.15 0.039 8.70 7.87 <1			1		<u>'</u>	<u> </u>								
144 23-Apr 13:18 Timmins St 1420ft/433m 1.15 0.039 8.70 7.87 <1 <1 145 23-Apr 13:37 Riverside Dr 1420ft/433m 0.86 0.073 10.50 7.86 <1			23-Apr						-			-		
145 23-Apr 13:37 Riverside Dr 1420ft/433m 0.86 0.073 10.50 7.86 <1		143	23-Apr	11:50	Wiltse Blvd	1620ft/494m	0.68	0.550	9.00	7.89	<1	<1		
145 23-Apr 13:37 Riverside Dr 1420ft/433m 0.86 0.073 10.50 7.86 <1		144	23-Apr	13:18	Timmins St	1420ft/433m	1.15	0.039	8.70	7.87	<1	<1		
146 23-Apr 14:10 Lawrence Ave 2020ft/616m 0.70 0.043 10.10 7.86 <1 <1 147 26-Apr 13:30 Ok Lake Station 1420ft/433m 0.99 0.090 9.70 7.93 A A A 148 26-Apr 14:40 City Yards 1650ft/503m 1.00 0.081 11.40 8.06 A A A									-			-		
147 26-Apr 13:30 Ok Lake Station 1420ft/433m 0.99 0.090 9.70 7.93 A A 148 26-Apr 14:40 City Yards 1650ft/503m 1.00 0.081 11.40 8.06 A A			<u> </u>			·			 					
148 26-Apr 14:40 City Yards 1650ft/503m 1.00 0.081 11.40 8.06 A A A			<u> </u>			 			-					Δ.
			· ·			<u> </u>								
149 26-Apr 15:35 1900 Penticton Ave 1650ft/503m 1.08 0.067 11.20 8.27 A A			<u> </u>		,									
		149	26-Apr	15:35	1900 Penticton Ave	1650ft/503m	1.08	0.067	11.20	8.27			Α	Α

100 146/29 13-56	_	150		14.50	I 4000 L 1 L D I	4.4205: /422	0.07	0.450	14.00	0.00				
12 Selber 12-02 Brandagh For Son 12-06/2009 394 10-02 399 311			· ·						-					
153 7 Novy 13:00 Resemble Polisis 1500/15380 0.38 0.050 8.50 8.18 4.1 1.1		151	4-May	13:59	Lawrence Ave Stn	2020ft/616m	0.74	0.063	9.10	8.15			Α	Α
144 Arter 23.20 Secretar Section 144/Austral 1,00 1		152	4-May	14:23	Randolph Rd Stn	1650ft/503m	0.94	0.052	9.00	8.11			Α	Α
144 Arter 23.20 Secretar Section 144/Austral 1,00 1		153	7-May	12.59	Randolph Rd Stn		0.88	0.060	8 50	8 10	<1	<1		
1.50			· ·		'	-								
166 7.7497 1420 Incorrect And State 2007/16/16/16 0.60 0.60 0.60 0.5														
137 7 Abry 1420			<u> </u>											
188 7 Mary 18122 Sempter Dr Ser \$440/M2589 0.29 0.310		156	7-May	14:20	Lawrence Ave Stn	2020ft/616m	0.69	0.110	9.00	8.10	<1	<1		
150 3-7-209 18-72 Milling Provides First State 13-709/19-201 12-2 20-7		157	7-May	14:40	Carmi Pump House	1820ft/555m	0.60	0.150	9.40	8.10	<1	<1		
150 3-7-209 18-72 Milling Provides First State 13-709/19-201 12-2 20-7		158	7-Mav	16:12	Smythe Dr Stn	1420ft/433m	0.79	0.120	10.90	8.10	<1	<1		
200 20-Mery 11-52 million of langer Molta Select Molta			<u> </u>		· · · · · · · · · · · · · · · · · · ·				-					
11.1 10 Many 1.542			· ·			-			1		<u> </u>	\ <u>1</u>	•	^
16.0 10-May 1.5-53 Geodes Section 1.42(10/12-20) 0.57 0.067 0.067 0.068 0.004 0.41 0.14			· ·						 					
181 1-Amp 13-56 Associated or 17-200/13580 101 0.189 11-30 8-74 0.1 0.1		161	10-May	13:32	Wiltse Blvd	1620ft/494m	0.90	0.365	9.80	8.10			Α	Α
164 14 May 18-201 Semple Dr. Nan 13-2007 (2016) 12-20 12		162	10-May	13:53	Gordon Station	1820ft/555m	0.67	0.067	10.60	8.20			Α	Α
180 184 Note 1346		163	14-May	13:16	4300 Lakeside rd	1420ft/433m	1.01	0.182	11.30	8.24	<1	<1		
180 184 Note 1346		164	14-Mav	13:30	Smythe Dr Stn	1420ft/433m	0.89	0.090	12.70	8.29	<1	<1		
Mary 1300 18-Mary 14-90					,	-								
1977 16 May 1458 Dissapped lake Pumphoson 10009/145809 0.055 0.177 11.00 0.277 c.t. c.t.			•											
Mary 10.05 15. Mary 10.05 10						-								
1909 14-May 6-303 Lawrence Aver Ston 20200/16/18m 0.74 0.110 9.75 8.30 ct. ct.			· ·						 					
Mary 170 37-Mary 1045 Vellemptow test Sm 15001/458m 0.80 0.002 12.50 8.00 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		168	14-May	16:54	1900 Penticton Ave	1650ft/503m	1.12	0.061	7.70	8.26	<1	<1		
17.0 17 Aby 110.0 Common protects from 10.0019/49860 1.081 0.022 17.1.0 18.0	1	169	14-May	16:30	Lawrence Ave Stn	2020ft/616m	0.74	0.110	9.70	8.30	<1	<1		
1271 37-May 11-07	May	170	17-May	10:45	Vallevview Test Stn	1620ft/494m	0.80	0.062	12.60	8.08			Α	Α
172 17-46ty 11-47 Temmers St St 1-000ft/458m 122 0.005 9.00 1.005 8.12 4.1			· ·	 	•				 					
173 121-May 1130			 		· ·									
174	1		· ·						 				А	А
1/2	1		21-May		Carmi Pump House	1820ft/555m			10.60		<1	<1		
176		174	21-May	13:30	Smythe Dr Stn	1420ft/433m	0.68	0.081	13.00	8.07	<1	<1		
176		175	21-Mav	13:55	Wiltse Blvd	1620ft/494m	0.65	0.234	11.00	8.09	<1	<1		
177 22-May 13-28 Rancolph Rd Stn 16501/353m 0.98 0.066 9.80 8.06 <1 <1 <	1		· ·	 		-			1					
178 21-May 13-47 Riverside Dr. Sin 14-200/4/33m 1.07 0.111 10.00 8.07 ct ct 1.00 179 12-May 12-22 WITP 14-200/4/33m 1.07 0.112 12-30 8.08 ct ct 1.00	1		· ·	 					 					
179 221-May 1429	1		· ·	 	· ·									
180 24 May 13-42 Randough Rd Srin 1750H/503m 0.87 0.038 9.50 8.10	1		· ·						 		<1			
1821 24-May 14-004 Fairford Bindge 14/2019/43781 0.98 0.092 11-150 8.101	1	179	21-May	14:29	WWTP	1420ft/433m	1.07	0.112	12.90	8.08	<1	<1		
1821 24-May 14-004 Fairford Bindge 14/2019/43781 0.98 0.092 11-150 8.101	1	180	24-May	13:42	Randolph Rd Stn	1650ft/503m	0.87	0.039	9.60	8.10			Α	А
182 24-May 14-22 Gordon Station 18201/555m 0.58 0.079 12-00 8.10	1		<u> </u>		· ·	-								
183 78-May 13-40 Obunagen Lake Pumphouse 14701/433m 1.00 0.081 11.60 8.04 <1 <1 <1 <1 <1 <1 <1 <			· ·		<u> </u>									
1841 28-May 14:09 Naramata Sample Station 1850ft/903m 0.57 0.101 14.70 8.01 <1 <1 <1 <1 <1 <1 <1			· ·			-					_	_	А	А
188 28-May 14:30			28-May		Okanagan Lake Pumphouse	-					<1	<1		
186 28-May 13-28 Fairford Bridge 14-20ft/435m 10.1 0.081 10.90 8.12 <1 <1 <1 <		184	28-May	14:05	Naramata Sample Station	1650ft/503m	0.57	0.101	14.70	8.01	<1	<1		
186 28-May 13-28 Fairford Bridge 14-20ft/435m 10.1 0.081 10.90 8.12 <1 <1 <1 <		185	28-May	14:30	Lawrence Ave Stn	2020ft/616m	0.62	0.038	11.70	8.05	<1	<1		
187 28-May 13-30 Gordon Station 1820ff/555m 0.62 0.063 11-90 8.11 <1 <1 <1 <1 <1 <1 <1			· ·											
188 28-May 14-06 Valleyriew Fet Stn 16-20ft/496m 0.42 0.082 13.00 8.13 c1 c1 c1					·	-								
189			· ·			-			 					
190			28-May		·	1620ft/494m	0.42	0.082	13.20		<1	<1		
191		189	28-May	14:26	4300 Lakeside Rd	1420ft/433m	0.80	0.381	13.10	8.11	<1	<1		
192		190	4-Jun	10:40	Lawrence Ave Stn	2020ft/616m	0.52	0.038	11.00	8.12	<1	<1		
192			4-lun	10.58		-				8 11				
193			ł — — — — — — — — — — — — — — — — — — —		· ·				 					
194			ł											
195			ł						 					
196		194	4-Jun	11:23	Wiltse School	1620ft/494m	0.74	0.212	11.70	8.08	<1	<1		
197 7-Jun 15:14 Valley View Test Stn 1620ft/494m 0.66 0.110 13.70 8.20		195	4-Jun	11:42	Timmins St	1420ft/433m	1.13	0.104	10.70	8.08	<1	<1		
197 7-Jun 15:14 Valley View Test Stn 1620ft/494m 0.66 0.110 13.70 8.20		196	4-Jun	11:43	Smythe Dr	1420ft/433m	0.61	0.056	10.60	8.08	<1	<1		
198			ł		<u>'</u>				 			_	Δ	Δ
199					·									
11-Jun						-								
11-Jun				+									Α	Α
11-Jun	1	200	11-Jun	10:45	Smythe Dr	1420ft/433m	0.82	0.221	14.00	8.13	<1	<1		
11-Jun		201	11-Jun	11:10	Gordon Station	1820ft/555m	0.63	0.066	12.80	8.11	<1	<1		
11-Jun 11:41		202	11-Jun	11:27	Wiltse Blvd	1620ft/494m	1.02	0.150	11.40	8.08	<1	<1		
204 11-Jun 14:22						-								
11-Jun			1						1					
June 15:50						-								
1940 1940			ł						 					
June 208 15-Jun 12:54 Carmi Pump Stn 1820ft/555m 0.70 0.110 12:50 8.20			ł — — — — — — — — — — — — — — — — — — —								<1	<1		
June		207	15-Jun	13:00	1946 Harris Dr	2020ft/616m	0.64	0.052	17.30	8.10			Α	Α
June		208	15-Jun	12:54	Carmi Pump Stn	1820ft/555m	0.70	0.110	12.50	8.20			А	А
Sune 210 18-Jun 11:25 Fairford Bridge 1420ft/433m 0.89 0.051 12:20 8.14 <1 <1 <1 <1 <1 <1 <1			ł	+	·				 					
211 18-Jun 11:40 Riverside Dr 1420ft/433m 1.02 0.054 11:50 8.09 <1 <1	June		ł — — — — — — — — — — — — — — — — — — —		· ·	-			 		<i>~</i> 1	<i>~</i> 1		
212 18-Jun 13:25 WWTP 1420ft/433m 1.01 0.046 18.70 8.08 <1 <1 <	1		ł											
213 18-Jun 13:57 Smythe Dr 1420ft/433m 0.63 0.067 16:00 8.08 <1			1						 					
214 18-Jun 16:09 Wiltse Blvd 1620ft/494m 0.65 0.109 13:30 8.05 <1		212	18-Jun	 		-			 		<1	<1		
215 18-Jun 16:26 Gordon 1820ft/555m 0.58 0.043 13.30 8.12 <1	1	213	18-Jun	13:57	Smythe Dr	1420ft/433m	0.63	0.067	16.00	8.08	<1	<1		
215 18-Jun 16:26 Gordon 1820ft/555m 0.58 0.043 13.30 8.12 <1		214	18-Jun	16:09	Wiltse Blvd	1620ft/494m	0.65	0.109	13.30	8.05	<1	<1		
216 18-Jun 16:50 Lawrence Ave 2020ff/616m 0.63 0.035 12:90 8.05 <1 <1 217 21-Jun 10:58 Smythe Dr 1420ft/433m 0.93 0.263 15:10 8.13 A A A 218 21-Jun 11:22 Carmi Pump Stn 1820ft/555m 0.69 0.131 11:20 8.08 A A A 219 21-Jun 13:42 Randolph Rd Stn 1650ft/503m 0.86 0.085 12:30 8.02 A A A 220 25-Jun 10:13 1900 Penticton Ave 1650ft/503m 1.09 0.028 11.40 8.12 <1			ł — — — — — — — — — — — — — — — — — — —											
217 21-Jun 10:58 Smythe Dr 1420ft/433m 0.93 0.263 15:10 8:13 A A 218 21-Jun 11:22 Carmi Pump Stn 1820ft/555m 0.69 0.131 11:20 8.08 A A A 219 21-Jun 13:42 Randolph Rd Stn 1650ft/503m 0.86 0.085 12:30 8.02 A A A 220 25-Jun 10:13 1900 Penticton Ave 1650ft/503m 1.09 0.028 11:40 8.12 <1			ł			·								
218 21-Jun 11:22 Carmi Pump Stn 1820ft/555m 0.69 0.131 11.20 8.08 A A 219 21-Jun 13:42 Randolph Rd Stn 1650ft/503m 0.86 0.085 12:30 8.02 A A A 220 25-Jun 10:13 1900 Penticton Ave 1650ft/503m 1.09 0.028 11.40 8.12 <1	1					-					∠1		Α.	
219 21-Jun 13:42 Randolph Rd Stn 1650ft/503m 0.86 0.085 12:30 8.02 A A A 220 25-Jun 10:13 1900 Penticton Ave 1650ft/503m 1.09 0.028 11:40 8.12 <1	1				<u>'</u>									
220 25-Jun 10:13 1900 Penticton Ave 1650ft/503m 1.09 0.028 11.40 8.12 <1		218	21-Jun		Carmi Pump Stn	1820ft/555m	0.69	0.131	11.20	8.08			Α	Α
220 25-Jun 10:13 1900 Penticton Ave 1650ft/503m 1.09 0.028 11.40 8.12 <1		219	21-Jun	13:42	Randolph Rd Stn	1650ft/503m	0.86	0.085	12.30	8.02			Α	Α
221 25-Jun 13:10 Randolph Stn 1650ft/503m 0.96 0.031 12:10 8:17 <1					· · · · · · · · · · · · · · · · · · ·	-					<1	<1		
222 25-Jun 13:25 Valley View 1620ft/494m 0.55 0.038 15.70 8.10 <1			ł						 					
223 25-Jun 13:35 Riverside Stn 1420ft/433m 1.14 0.049 11.70 8.10 <1					·	-								
224 25-Jun 13:45 4300 Lakeside Rd 1420ft/433m 0.96 0.656 14.80 8.08 <1					•				 					
225 25-Jun 14:00 Lawrence Ave 2020ft/616m 0.66 0.039 12.80 8.11 <1	1		ł — — — — — — — — — — — — — — — — — — —	 					 					
226 25-Jun 14:10 Carmi Station 1820ft/555m 0.69 0.087 12.70 8.09 <1		224	25-Jun	13:45	4300 Lakeside Rd	1420ft/433m	0.96	0.656	14.80	8.08	<1	<1		
226 25-Jun 14:10 Carmi Station 1820ft/555m 0.69 0.087 12.70 8.09 <1		225	25-Jun	14:00	Lawrence Ave	2020ft/616m	0.66	0.039	12.80	8.11	<1	<1		
227 28-Jun 11:05 Gordon Ave Stn 1820ft/555m 0.96 0.051 12.20 8.13 A A 228 28-Jun 11:27 Timmins St Stn 1420ft/433m 1.18 0.059 11.00 8.09 A A			i e	 										
228 28-Jun 11:27 Timmins St Stn 1420ft/433m 1.18 0.059 11.00 8.09 A A	1		ł — — — — — — — — — — — — — — — — — — —						 		· · · ·	-	Λ	۸
			ł — — — — — — — — — — — — — — — — — — —	 					 					
229 28-Jun 11:46 Randolph Rd Stn 1650ft/503m 0.83 0.052 11.70 8.07 A A			1	+					1					
		229	28-Jun	11:46	Randolph Rd Stn	1650ft/503m	0.83	0.052	11.70	8.07			Α	Α

201 2-90 10-50 Sendelph Mark 10-00 10-90			_			,		Г	1	·				
232 And 1920 Secondary Star 1920		230	2-Jul	10:55	Randolph Rd Stn	1650ft/503m	0.90	0.033	11.90	8.10	<1	<1		
288 2.3 ml 18-50 Sporose no Pare MEDITIONS 0.64 0.004 18-50 300 -5 -6 -1		231	2-Jul	11:48	Community Centre	1420ft/433m	0.99	0.047	14.90	8.06	<1	<1		
288 2.3 ml 18-50 Sporose no Pare MEDITIONS 0.64 0.004 18-50 300 -5 -6 -1		232	2-Jul	13:25	Fairford Bridge Stn	1420ft/433m	1.04	0.312	13.60	8.11	<1	<1		
244			!						•		t			
250 2-941 5500 1450									 		 			
286 2.14 15.00 Laboroca de 18 20076/5600 0.56 0.13 13.20 2.51 1.51					·				+		 			
237 2-00 12-00		235	2-Jul	14:35	Smythe Dr Stn	1420ft/433m	0.62	0.073	16.90	8.09	<1	<1		
288 5.14 1.150 Williss good Van 1.207/4539 0.50 0.111 1.151 1.14 A. A. A. A. A. C. C. C. C. C. 1.150 0.150		236	2-Jul	15:00	Lawrence Ave Stn	2020ft/616m	0.69	0.054	13.80	8.03	<1	<1		
288 5.14 1.150 Williss good Van 1.207/4539 0.50 0.111 1.151 1.14 A. A. A. A. A. C. C. C. C. C. 1.150 0.150		237	5-Jul	13:35	Carmi Ave Stn	1820ft/555m	0.64	0.103	13.30	8.13			Α	Α
290 5 14 12-10 Assignment for						<u> </u>								
1-10 1-10			!			<u> </u>			 	!				
240 3-bit 1110			†			· ·			1	!		.4	A	^
242 9-Jul 1128		-			·	<u> </u>			•	!	-			
2415 S-Jul 13155 Somple Pr Sin 15000 15		241	9-Jul	11:10	Ok Lake Pumphouse	1420ft/433m	0.92	0.066	14.20	7.99	<1	<1		
24.6 79.00 1934 Valley-over Test Stat 1820/17/2016 0.93 0.941 24.00 8.00 0.1 0.1		242	9-Jul	11:28	AWWTP	1420ft/433m	0.66	0.052	20.40	8.00	<1	<1		
240. 9-Jul. 12500 General Area Str. 32070755600 0.94 0.941 1.800 8.001 0.1 0.1 0.1 0.2 0.1 0.2		243	9-Jul	13:15	Smythe Dr Stn	1420ft/433m	0.60	0.071	11.00	8.00	<1	<1		
240. 9-Jul. 12500 General Area Str. 32070755600 0.94 0.941 1.800 8.001 0.1 0.1 0.1 0.2 0.1 0.2		244	9-Jul	13:34	•	1650ft/503m	0.57	0.061	18.60	8.02	<1	<1		
246 S-Jul S-100 Learners Are Star 2000(1958) 0.55 0.055 1.85 8.00 <1 < <					,	 								
14 12 13 13 13 13 13 13 13											 			
148 17-101 11-79						·			+		<1	<1	_	
249 37-Jul 11-85														
1.00 1.00		248	12-Jul	11:20	4300 Lakeside Rd	1420ft/433m	0.90	0.307	18.40	7.99			Α	Α
1970 1984 13-16		249	12-Jul	11:45	Riverside Dr STN	1420ft/433m	1.03	0.118	12.90	8.02			Α	Α
1970 1984 13-16		250	16-Jul	10:30	Smythe Dr Stn	1420ft/433m	0.73	0.061	17.50	8.06	<1	<1		
252	July		!		•	<u> </u>			 	!	Overgrown			
258 18-bit 13-39 Interview Are Step 2070/fyl 18-7 0.97 0.97 1.50 7.79 c.1 c.1		-			,	<u> </u>			+					
254 18-but 13:55			†			· ·			 	!	-			
255 38-but 11-30											!			
2-56 1-5 mJ 14-45 Severande for \$1 m 14-20(Pt/498 m) 0.92 0.069 13-80 8.00 <1 <1 <		254	16-Jul	13:55	Randolph Rd Stn	1650ft/503m	0.90	0.043	14.80	7.97	<1	<1		
2-56 1-5 mJ 14-45 Severande for \$1 m 14-20(Pt/498 m) 0.92 0.069 13-80 8.00 <1 <1 <		255	16-Jul	14:30	Fairford Bridge Stn	1420ft/433m	1.08	0.068	13.70	7.99	<1	<1		
257 18-but Vulley-time Recample 10:001/495m 0.27 0.122 20:10 8.18 0.00 0.00			16-Jul	14:45		 			 	8.00	 			
258 18-but 10-000 10-000 10-000 10-000 10-000 10-000 10-000 10-000 10-000 10-000 10-000 10-000 10-000 10-000 10-000 10-000 10-000 10-0000 10-0000 10-0000			!						 	!			0 00	0.00
299 19-94 11-90 11-90 199e Harris Dr. 2020Pt/958m 7-50 0.094 12-00 8.01 A A A					· · · · · ·	 			+		 			
260 159-Jul 15:00 Navarnata 86:50n 1650n 1500n 0.56 0.053 23:50 8.64 A A C				44.45	· · · · · · · · · · · · · · · · · · ·						-			
Test			_							-				
262 22-bit 32-30 Randoph Rd Shm 1850ff/50m 0.71 0.046 14.20 7.28 ct ct 1.20		260	19-Jul	15:00	Naramata Rd Stn	1650ft/503m	0.56	0.053	23.50	8.04			Α	Α
252 23-Jul 33.30 Randolph R0 50n 1850ff/503m 0.71 0.046 14.20 7.88 ct ct 1 1 1 1 1 1 1 1 1		261	19-Jul	15:48	Smythe Dr Stn	1420ft/433m	0.25	0.058	18.90	7.97	<u> </u>		Α	Α
Teach 1400		262	23-Jul	13:30	Randolph Rd Stn	1650ft/503m	0.71	0.046	14.20	7.98	<1	<1		
284 23-14					· · · · · · · · · · · · · · · · · · ·				 		 			
265 23-siul 1357 Willies School Str 16201(1494m 0.57 0.140 12.70 8.00 <1 <1 <		-	†			· ·			•	!				
266 23-Jul 1455 Valleyriew lest 5rt 1420ft/49am 0.55 0.090 18.70 8.00 <1 <1 <1 <2 <2 <2 <2 <2											 			
267									 		<1			
268 24-sil 7:30 1900 Penticina New 3650f/503m 0.65 0.104 10.40 8.01 <1 <1 <1 <		266	23-Jul	14:55	Valleyview Test Stn	1620ft/494m	0.55	0.090	18.70	8.00	<1	<1		
289 30-Jul 8:50 Lawrence Ave Stn 2000f/e16m 1.08 0.153 13:50 8:00 <1 <1 <		267	23-Jul	16:46	Smythe Dr Stn	1420ft/433m	0.22	0.190	18.80	7.90	<1	<1		
289 30-Jul 8:50 Lawrence Ave Stn 2000f/e16m 1.08 0.153 13:50 8:00 <1 <1 <		268	24-Jul	7:30	1900 Penticton Ave	1650ft/503m	0.65	0.104	10.40	8.01	<1	<1		
270						-			+		 			
271 30-bit 10:10 AWWIP 1420ft/433m 0.28 0.061 20.50 7.97 c1 c1 c1 c2 c2 c3 c3 c3 c4 c4 c4 c4 c5 c3 c4 c4 c4 c5 c5 c5 c5 c5			!			<u> </u>			 		 			
272 2.Aug 13:15 Falford indige Stn 1420ft/433m 1.08 0.560 1.14.40 8.03											i			
273 2Aug 11:40 Gordon Sin 1820ft/555m 0.73 0.136 15:20 8.05 A A		ł			AWWTP	1420ft/433m	0.28	0.061	20.50		<1	<1		
274		272	2-Aug	11:15	Fairford Bridge Stn	1420ft/433m	1.08	0.560	14.40	8.03			Α	Α
275 G.Aug 11:00 Gordon Stn 1320ft/355m 0.63 0.051 15:20 8.02 <1 <1 <		273	2-Aug	11:40	Gordon Stn	1820ft/555m	0.73	0.136	15.20	8.05			Α	Α
275 G.Aug 11:00 Gordon Stn 1320ft/355m 0.63 0.051 15:20 8.02 <1 <1 <		274		13:25	Naramata rd Stn		0.28	0.063	22.40	8.02	1		Α	Α
276											_1	~1	, ,	
277									 		 			
278					•				•	.	i			
279 6-Aug			6-Aug		Randolph Rd Stn				14.90		<1	<1		
280 6-Aug 13:50 Timmins St Stn 14/2017/433m 1.18 0.104 14:10 7.91 <1 <1		278	6-Aug	13:15	Okanagan Lake Pumphouse	1420ft/433m	0.73	0.053	16.40	7.98	<1	<1		
281 6-Aug		279	6-Aug	13:35	Riverside Dr Stn	1420ft/433m	1.00	0.123	15.10	8.00	<1	<1		
281 6-Aug		280	6-Aug	13:50	Timmins St Stn	1420ft/433m	1.18	0.104	14.10	7.91	<1	<1		
282 9-Aug 15:24						<u> </u>			 		t			
283 9-Aug 17:20 1900 Penticton Ave 1650ft/503m 1.14 0.080 13.90 8.10						·					\ <u> </u>	\1	^	^
284 13-Aug 11:12 City Hall Lunch Room 1420ft/433m 1.13 0.086 16.70 8.02 <1 <1						<u> </u>			 		<u> </u>			
285 13-Aug 11:26 Community Centre 1420ft/433m 0.67 0.097 22.80 8.06 <1 <1						<u> </u>			 		<u> </u>		А	А
286 13-Aug 11:53					•				 		-			
287 13-Aug 13:25 Carmi Stn 1820ft/555m 0.43 0.180 15.60 7.96 <1 <1		285	13-Aug	11:26	Community Centre	1420ft/433m	0.67	0.097	22.80	8.06	<1	<1		
287 13-Aug 13:25 Carmi Stn 1820ft/555m 0.43 0.180 15:60 7.96 <1 <1		286	13-Aug	11:53	AWWTP	1420ft/433m	0.69	0.355	22.50	7.99	<1	<1		
August 13-Aug 13:40		287	13-Aug	13:25	Carmi Stn	1820ft/555m	0.43	0.180	15.60	7.96	<1	<1		
August August August									•		i			
August Au		-				 								
August 291 16-Aug 11:25 Randolph Rd Stn 1650ff/503m 0.87 0.074 15.20 8.00 A A A														
August 292 16-Aug 11:52 Gordon Stn 1820ft/555m 0.70 0.108 15:20 8.13		-				 			+		<1	<1	_	
292 16-Aug 11:52 Gordon Stn 1820ft/555m 0.70 0.108 15:20 8.13 A A A	August		<u> </u>		<u>'</u>	-			 					
294 20-Aug 10:50 Valleyview dr. Stn 1620ft/494m 0.36 0.051 21.70 8.01 <1		292	16-Aug	11:52	Gordon Stn	1820ft/555m	0.70	0.108	15.20	8.13			Α	Α
294 20-Aug 10:50 Valleyview dr. Stn 1620ft/494m 0.36 0.051 21.70 8.01 <1		293	20-Aug	10:30	Smythe Dr Stn	1420ft/433m	0.69	0.070	18.70	8.00	<1	<1		
295 20-Aug 11:10 Fairford Bridge Stn 1420ft/433m 1.20 0.044 14.30 7.98 <1 <1 296 20-Aug 11:40 Riverside Dr Stn 1420ft/433m 1.09 0.161 14.20 7.96 <1			<u> </u>		•	<u> </u>			 		<1			
296 20-Aug 11:40 Riverside Dr Stn 1420ft/433m 1.09 0.161 14.20 7.96 <1					,	 				-	 			
297 20-Aug 13:25 Naramata rd Stn 1420ft/433m 0.28 0.082 22.80 8.07 <1 <1 298 20-Aug 14:05 Carmi Stn 1820ft/555m 0.50 0.067 15.00 8.05 <1	1					<u> </u>			•		t			
298 20-Aug 14:05 Carmi Stn 1820ft/555m 0.50 0.067 15.00 8.05 <1 <1 299 20-Aug 14:25 Lawrence Ave Stn 2020ft/616m 0.58 0.049 16:10 8.00 <1		206	// / / / / / / / / / / / / / / / / / / /		- OFFICE AND A SECOND	1 142011/433M	1.09		14.20		i			
299 20-Aug 14:25 Lawrence Ave Stn 2020ft/616m 0.58 0.049 16.10 8.00 <1 <1 300 23-Aug 12:08 Naramata rd Stn 1650ft/503m 0.39 0.160 21.80 8.00 A A A 301 24-Aug 17:15 1900 Penticton Ave 1650ft/503m 1.10 0.130 12.00 8.10 A A A 302 27-Aug 10:45 Randolph Rd Stn 1650ft/503m 0.93 0.071 14.40 8.01 <1			<u> </u>			· ·	~ ~ -	0 00-	22.5			. /1	_	ı
300 23-Aug 12:08 Naramata rd Stn 1650ft/503m 0.39 0.160 21.80 8.00		297	20-Aug	13:25	Naramata rd Stn	1420ft/433m			•	-	t			
301 24-Aug 17:15 1900 Penticton Ave 1650ft/503m 1.10 0.130 12.00 8.10 A A 302 27-Aug 10:45 Randolph Rd Stn 1650ft/503m 0.93 0.071 14.40 8.01 <1 <1 303 27-Aug 11:10 Timmins St Stn 1420ft/433m 1.25 0.078 13.90 7.99 <1 <1 304 27-Aug 11:45 Smythe Dr Stn 1420ft/433m 0.77 0.107 19.00 7.98 <1 <1 305 27-Aug 13:30 Gordon Stn 1820ft/555m 0.63 0.077 15.10 8.04 <1 <1 306 27-Aug 13:45 Wiltse School 1820ft/555m 0.75 0.216 13.40 7.99 <1 <1 307 27-Aug 14:10 Lawrence Ave Stn 2020ft/616m 0.66 0.042 14.90 7.96 <1 <1 308 28-Aug 8:10 1900 Penticton Ave 1620ft/494m 0.92 0.047 14.90 7.98 <1 <1 309 30-Aug 11:40 Riverside Dr Stn 1420ft/433m 1.10 0.124 14.00 8.08 A A 310 30-Aug 12:00 Carmi Stn 1820ft/555m 0.51 0.091 14.80 8.01 A A		297 298	20-Aug 20-Aug	13:25 14:05	Naramata rd Stn Carmi Stn	1420ft/433m 1820ft/555m	0.50	0.067	•	8.05	<1	<1		
301 24-Aug 17:15 1900 Penticton Ave 1650ft/503m 1.10 0.130 12.00 8.10 A A 302 27-Aug 10:45 Randolph Rd Stn 1650ft/503m 0.93 0.071 14.40 8.01 <1 <1 303 27-Aug 11:10 Timmins St Stn 1420ft/433m 1.25 0.078 13.90 7.99 <1 <1 304 27-Aug 11:45 Smythe Dr Stn 1420ft/433m 0.77 0.107 19.00 7.98 <1 <1 305 27-Aug 13:30 Gordon Stn 1820ft/555m 0.63 0.077 15.10 8.04 <1 <1 306 27-Aug 13:45 Wiltse School 1820ft/555m 0.75 0.216 13.40 7.99 <1 <1 307 27-Aug 14:10 Lawrence Ave Stn 2020ft/616m 0.66 0.042 14.90 7.96 <1 <1 308 28-Aug 8:10 1900 Penticton Ave 1620ft/494m 0.92 0.047 14.90 7.98 <1 <1 309 30-Aug 11:40 Riverside Dr Stn 1420ft/433m 1.10 0.124 14.00 8.08 A A 310 30-Aug 12:00 Carmi Stn 1820ft/555m 0.51 0.091 14.80 8.01 A A		297 298	20-Aug 20-Aug	13:25 14:05	Naramata rd Stn Carmi Stn	1420ft/433m 1820ft/555m	0.50	0.067	15.00	8.05	<1	<1		
302 27-Aug 10:45 Randolph Rd Stn 1650ft/503m 0.93 0.071 14.40 8.01 <1 <1 303 27-Aug 11:10 Timmins St Stn 1420ft/433m 1.25 0.078 13.90 7.99 <1		297 298 299	20-Aug 20-Aug 20-Aug	13:25 14:05 14:25	Naramata rd Stn Carmi Stn Lawrence Ave Stn	1420ft/433m 1820ft/555m 2020ft/616m	0.50 0.58	0.067 0.049	15.00 16.10	8.05 8.00	<1	<1	A	A
303 27-Aug 11:10 Timmins St Stn 1420ft/433m 1.25 0.078 13.90 7.99 <1 <1		297 298 299 300	20-Aug 20-Aug 20-Aug 23-Aug	13:25 14:05 14:25 12:08	Naramata rd Stn Carmi Stn Lawrence Ave Stn Naramata rd Stn	1420ft/433m 1820ft/555m 2020ft/616m 1650ft/503m	0.50 0.58 0.39	0.067 0.049 0.160	15.00 16.10 21.80	8.05 8.00 8.00	<1	<1		
304 27-Aug 11:45 Smythe Dr Stn 1420ft/433m 0.77 0.107 19.00 7.98 <1		297 298 299 300 301	20-Aug 20-Aug 20-Aug 23-Aug 24-Aug	13:25 14:05 14:25 12:08 17:15	Naramata rd Stn Carmi Stn Lawrence Ave Stn Naramata rd Stn 1900 Penticton Ave	1420ft/433m 1820ft/555m 2020ft/616m 1650ft/503m 1650ft/503m	0.50 0.58 0.39 1.10	0.067 0.049 0.160 0.130	15.00 16.10 21.80 12.00	8.05 8.00 8.00 8.10	<1 <1	<1 <1		
305 27-Aug 13:30 Gordon Stn 1820ft/555m 0.63 0.077 15.10 8.04 <1 <1 306 27-Aug 13:45 Wiltse School 1820ft/555m 0.75 0.216 13.40 7.99 <1		297 298 299 300 301 302	20-Aug 20-Aug 20-Aug 23-Aug 24-Aug 27-Aug	13:25 14:05 14:25 12:08 17:15 10:45	Naramata rd Stn Carmi Stn Lawrence Ave Stn Naramata rd Stn 1900 Penticton Ave Randolph Rd Stn	1420ft/433m 1820ft/555m 2020ft/616m 1650ft/503m 1650ft/503m	0.50 0.58 0.39 1.10 0.93	0.067 0.049 0.160 0.130 0.071	15.00 16.10 21.80 12.00 14.40	8.05 8.00 8.00 8.10 8.01	<1 <1 <1	<1 <1 <1		
306 27-Aug 13:45 Wiltse School 1820ft/555m 0.75 0.216 13.40 7.99 <1 <1 307 27-Aug 14:10 Lawrence Ave Stn 2020ft/616m 0.66 0.042 14:90 7.96 <1		297 298 299 300 301 302 303	20-Aug 20-Aug 20-Aug 23-Aug 24-Aug 27-Aug 27-Aug	13:25 14:05 14:25 12:08 17:15 10:45 11:10	Naramata rd Stn Carmi Stn Lawrence Ave Stn Naramata rd Stn 1900 Penticton Ave Randolph Rd Stn Timmins St Stn	1420ft/433m 1820ft/555m 2020ft/616m 1650ft/503m 1650ft/503m 1650ft/503m 1420ft/433m	0.50 0.58 0.39 1.10 0.93 1.25	0.067 0.049 0.160 0.130 0.071 0.078	15.00 16.10 21.80 12.00 14.40 13.90	8.05 8.00 8.00 8.10 8.01 7.99	<1 <1 <1 <1 <1	<1 <1 <1 <1 <1		
307 27-Aug 14:10 Lawrence Ave Stn 2020ft/616m 0.66 0.042 14:90 7.96 <1 <1 308 28-Aug 8:10 1900 Penticton Ave 1620ft/494m 0.92 0.047 14.90 7.98 <1		297 298 299 300 301 302 303 304	20-Aug 20-Aug 20-Aug 23-Aug 24-Aug 27-Aug 27-Aug 27-Aug	13:25 14:05 14:25 12:08 17:15 10:45 11:10 11:45	Naramata rd Stn Carmi Stn Lawrence Ave Stn Naramata rd Stn 1900 Penticton Ave Randolph Rd Stn Timmins St Stn Smythe Dr Stn	1420ft/433m 1820ft/555m 2020ft/616m 1650ft/503m 1650ft/503m 1650ft/503m 1420ft/433m 1420ft/433m	0.50 0.58 0.39 1.10 0.93 1.25 0.77	0.067 0.049 0.160 0.130 0.071 0.078 0.107	15.00 16.10 21.80 12.00 14.40 13.90 19.00	8.05 8.00 8.00 8.10 8.01 7.99 7.98	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<1 <1 <1 <1 <1 <1		
307 27-Aug 14:10 Lawrence Ave Stn 2020ft/616m 0.66 0.042 14:90 7.96 <1 <1 308 28-Aug 8:10 1900 Penticton Ave 1620ft/494m 0.92 0.047 14.90 7.98 <1		297 298 299 300 301 302 303 304	20-Aug 20-Aug 20-Aug 23-Aug 24-Aug 27-Aug 27-Aug 27-Aug	13:25 14:05 14:25 12:08 17:15 10:45 11:10 11:45	Naramata rd Stn Carmi Stn Lawrence Ave Stn Naramata rd Stn 1900 Penticton Ave Randolph Rd Stn Timmins St Stn Smythe Dr Stn	1420ft/433m 1820ft/555m 2020ft/616m 1650ft/503m 1650ft/503m 1650ft/503m 1420ft/433m 1420ft/433m	0.50 0.58 0.39 1.10 0.93 1.25 0.77	0.067 0.049 0.160 0.130 0.071 0.078 0.107	15.00 16.10 21.80 12.00 14.40 13.90 19.00	8.05 8.00 8.00 8.10 8.01 7.99 7.98	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<1 <1 <1 <1 <1 <1		
308 28-Aug 8:10 1900 Penticton Ave 1620ft/494m 0.92 0.047 14.90 7.98 <1		297 298 299 300 301 302 303 304 305	20-Aug 20-Aug 20-Aug 23-Aug 24-Aug 27-Aug 27-Aug 27-Aug 27-Aug	13:25 14:05 14:25 12:08 17:15 10:45 11:10 11:45 13:30	Naramata rd Stn Carmi Stn Lawrence Ave Stn Naramata rd Stn 1900 Penticton Ave Randolph Rd Stn Timmins St Stn Smythe Dr Stn Gordon Stn	1420ft/433m 1820ft/555m 2020ft/616m 1650ft/503m 1650ft/503m 1650ft/503m 1420ft/433m 1420ft/433m 1820ft/555m	0.50 0.58 0.39 1.10 0.93 1.25 0.77 0.63	0.067 0.049 0.160 0.130 0.071 0.078 0.107 0.077	15.00 16.10 21.80 12.00 14.40 13.90 19.00 15.10	8.05 8.00 8.00 8.10 8.01 7.99 7.98 8.04	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<1 <1 <1 <1 <1 <1 <1		
309 30-Aug 11:40 Riverside Dr Stn 1420ft/433m 1.10 0.124 14.00 8.08 A A 310 30-Aug 12:00 Carmi Stn 1820ft/555m 0.51 0.091 14.80 8.01 A A		297 298 299 300 301 302 303 304 305 306	20-Aug 20-Aug 20-Aug 23-Aug 24-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug	13:25 14:05 14:25 12:08 17:15 10:45 11:10 11:45 13:30 13:45	Naramata rd Stn Carmi Stn Lawrence Ave Stn Naramata rd Stn 1900 Penticton Ave Randolph Rd Stn Timmins St Stn Smythe Dr Stn Gordon Stn Wiltse School	1420ft/433m 1820ft/555m 2020ft/616m 1650ft/503m 1650ft/503m 1650ft/503m 1420ft/433m 1420ft/433m 1820ft/555m	0.50 0.58 0.39 1.10 0.93 1.25 0.77 0.63 0.75	0.067 0.049 0.160 0.130 0.071 0.078 0.107 0.077 0.216	15.00 16.10 21.80 12.00 14.40 13.90 19.00 15.10 13.40	8.05 8.00 8.00 8.10 8.01 7.99 7.98 8.04 7.99	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1		
310 30-Aug 12:00 Carmi Stn 1820ft/555m 0.51 0.091 14.80 8.01 A A		297 298 299 300 301 302 303 304 305 306 307	20-Aug 20-Aug 20-Aug 23-Aug 24-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug	13:25 14:05 14:25 12:08 17:15 10:45 11:10 11:45 13:30 13:45 14:10	Naramata rd Stn Carmi Stn Lawrence Ave Stn Naramata rd Stn 1900 Penticton Ave Randolph Rd Stn Timmins St Stn Smythe Dr Stn Gordon Stn Wiltse School Lawrence Ave Stn	1420ft/433m 1820ft/555m 2020ft/616m 1650ft/503m 1650ft/503m 1650ft/503m 1420ft/433m 1420ft/433m 1820ft/555m 1820ft/555m 2020ft/616m	0.50 0.58 0.39 1.10 0.93 1.25 0.77 0.63 0.75 0.66	0.067 0.049 0.160 0.130 0.071 0.078 0.107 0.077 0.216 0.042	15.00 16.10 21.80 12.00 14.40 13.90 19.00 15.10 13.40 14.90	8.05 8.00 8.00 8.10 8.01 7.99 7.98 8.04 7.99 7.96	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <		
		297 298 299 300 301 302 303 304 305 306 307 308	20-Aug 20-Aug 20-Aug 23-Aug 24-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug	13:25 14:05 14:25 12:08 17:15 10:45 11:10 11:45 13:30 13:45 14:10 8:10	Naramata rd Stn Carmi Stn Lawrence Ave Stn Naramata rd Stn 1900 Penticton Ave Randolph Rd Stn Timmins St Stn Smythe Dr Stn Gordon Stn Wiltse School Lawrence Ave Stn 1900 Penticton Ave	1420ft/433m 1820ft/555m 2020ft/616m 1650ft/503m 1650ft/503m 1650ft/503m 1420ft/433m 1420ft/433m 1820ft/555m 1820ft/555m 2020ft/616m 1620ft/494m	0.50 0.58 0.39 1.10 0.93 1.25 0.77 0.63 0.75 0.66 0.92	0.067 0.049 0.160 0.130 0.071 0.078 0.107 0.077 0.216 0.042 0.047	15.00 16.10 21.80 12.00 14.40 13.90 19.00 15.10 13.40 14.90	8.05 8.00 8.00 8.10 8.01 7.99 7.98 8.04 7.99 7.96 7.98	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
311 30-Aug 13:30 Valleyview dr. Stn 1650ft/503m 0.34 0.098 20.10 7.98 A A		297 298 299 300 301 302 303 304 305 306 307 308	20-Aug 20-Aug 20-Aug 23-Aug 24-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug 30-Aug	13:25 14:05 14:25 12:08 17:15 10:45 11:10 11:45 13:30 13:45 14:10 8:10 11:40	Naramata rd Stn Carmi Stn Lawrence Ave Stn Naramata rd Stn 1900 Penticton Ave Randolph Rd Stn Timmins St Stn Smythe Dr Stn Gordon Stn Wiltse School Lawrence Ave Stn 1900 Penticton Ave Riverside Dr Stn	1420ft/433m 1820ft/555m 2020ft/616m 1650ft/503m 1650ft/503m 1650ft/503m 1420ft/433m 1420ft/433m 1820ft/555m 1820ft/555m 2020ft/616m 1620ft/494m 1420ft/433m	0.50 0.58 0.39 1.10 0.93 1.25 0.77 0.63 0.75 0.66 0.92 1.10	0.067 0.049 0.160 0.130 0.071 0.078 0.107 0.077 0.216 0.042 0.042 0.047 0.124	15.00 16.10 21.80 12.00 14.40 13.90 19.00 15.10 13.40 14.90 14.90 14.00	8.05 8.00 8.00 8.10 8.01 7.99 7.98 8.04 7.99 7.96 7.98 8.08	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
		297 298 299 300 301 302 303 304 305 306 307 308 309 310	20-Aug 20-Aug 20-Aug 23-Aug 24-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug 27-Aug 30-Aug 30-Aug	13:25 14:05 14:25 12:08 17:15 10:45 11:10 11:45 13:30 13:45 14:10 8:10 11:40 12:00	Naramata rd Stn Carmi Stn Lawrence Ave Stn Naramata rd Stn 1900 Penticton Ave Randolph Rd Stn Timmins St Stn Smythe Dr Stn Gordon Stn Wiltse School Lawrence Ave Stn 1900 Penticton Ave Riverside Dr Stn Carmi Stn	1420ft/433m 1820ft/555m 2020ft/616m 1650ft/503m 1650ft/503m 1650ft/503m 1420ft/433m 1420ft/433m 1820ft/555m 2020ft/616m 1620ft/494m 1420ft/433m 1820ft/555m	0.50 0.58 0.39 1.10 0.93 1.25 0.77 0.63 0.75 0.66 0.92 1.10 0.51	0.067 0.049 0.160 0.130 0.071 0.078 0.107 0.077 0.216 0.042 0.042 0.047 0.124 0.091	15.00 16.10 21.80 12.00 14.40 13.90 19.00 15.10 13.40 14.90 14.90 14.80	8.05 8.00 8.00 8.10 8.01 7.99 7.98 8.04 7.99 7.96 7.98 8.08 8.01	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A A A

132 1-50												1		1
24. 3-929 12-22 septimal register 34,007,6540 1,00		312	3-Sep	12:05	Randolph Rd Stn	1650ft/503m	0.86	0.039	14.60	8.08	<1	<1		
195 Morg. 1977 ASSES Marches M. 1970/1536 1.60 1.		313	3-Sep	12:30	Riverside Dr Stn	1420ft/433m	1.12	0.058	14.30	8.07	<1	<1		
195 Morg. 1977 ASSES Marches M. 1970/1536 1.60 1.		314	3-Sep	12:53	Fairford Bridge	1420ft/433m	1.00	0.040	14.80	8.04	<1	<1		
Section 1,150			<u> </u>	-										
177 5-6p			•											
230 2-800 2-800 Commant 2-800 Comman			<u> </u>	-										
1975 6-Sep 10-00			 		· · · · · · · · · · · · · · · · · · ·									
200 9-79 13-84 Normatic Rd SouthWiston 12-00-12-12 12-00 No. A A A A A A A A A			3-Sep		Carmi Stn				14.70		<1	<1		
231 6-5m 33-05		319	6-Sep	10:40	Lawrence Ave Stn	2020ft/616m	0.62	0.060	13.90	7.96			Α	Α
222 10-bmg 13-00 Learners Are Sim S200F(S204m) 10-00 14-00 7-96 12 13 1 1 1 1 1 1 1 1		320	6-Sep	11:43	Naramata Rd.	1650ft/503m	0.38	0.043	21.10	8.02			Α	Α
222 10-bmg 13-00 Learners Are Sim S200F(S204m) 10-00 14-00 7-96 12 13 1 1 1 1 1 1 1 1		321	6-Sep	12:30	Smythe Dr.	1420ft/433m	0.86	0.062	19.00	7.96			Α	Α
232 30-ber 1320 Corpton for Stin 1520 1500 0.004 1500 7.941 1 1 1 1 1 1 1 1 1			 		,							-1		, ,
234 10 Sep 13510 Velloperix (est stim 1,000 Philadelin 138 136 Cent 136			<u> </u>											
275 10-5 to 11-5			<u> </u>	-										
276 10 Style 17275 Decempenation of Authoristics 0.908 0.0087 0.0010 7.0010 7.001		324	10-Sep	13:16	Valleyview Test Stn	1620ft/494m	0.34	0.068	20.60	8.01	<1	<1		
227 30 Sep 12-65		325	10-Sep	11:54	Randolph Rd Stn	1650ft/503m	0.89	0.037	14.70	7.90	<1	<1		
238 30-5-pp 13-05 Communic Centre Lanch Recom A2001/433an 11-5 0.075 18-00 7-75 4.1 4.1 4.2 4.2 4.2 4.3 4.4 4.5 4.		326	10-Sep	12:25	Okanagan Lake Pumpstation	1420ft/433m	0.98	0.062	20.10	7.91	<1	<1		
238 30-5-pp 13-05 Communic Centre Lanch Recom A2001/433an 11-5 0.075 18-00 7-75 4.1 4.1 4.2 4.2 4.2 4.3 4.4 4.5 4.		327	10-Sep	12:45	Riverside Dr Stn	1420ft/433m	1.19	0.046	14.40	7.93	<1	<1		
\$2.99 \$3.5 \$1.00 \text{ \$1.00 \text{		328	<u> </u>	13.05	Community Centre Lunch Room					7 87	<1	<1		
September Sept					•							1	۸	۸
331 13-59a 11-15			<u> </u>										1	
September			· ·										 	
September			<u> </u>		4300 Lakeside Rd									
334 14-59p 1127 379 Martin 1420Pt/433m 1.12 0.067 181.0 7.88 0.00 0.00 0.00 336 14-58p 12-12 1-527 Martin 1420Pt/433m 1.30 0.244 12-20 7.26 0.00		332	13-Sep	16:14	4-597 Martin	1420ft/433m	1.07	0.043	17.10	8.01			0.00	1.00
335 14-Sep 11-55 Perintipus Library 14-201/433m 1.05 0.096 21,40 7.87 0.00 0.00 387 14-Sep 17-50 2-597 Martin 14-200/433m 1.32 1.24 7.87 0.00 0.00 388 14-Sep 13-10 57-00 4-397 Martin 14-200/433m 1.32 1.24 7.88 0.00 0.00 338 14-Sep 13-10 57-00 4-397 Martin 14-200/433m 1.32 1.20 7.88 0.00 0.00 339 14-Sep 13-10 57-00 57-00 Martin 14-200/433m 1.32 1.20 7.88 0.00 0.00 340 17-Sep 19-10 Nariant Bris 15-000/500m 0.47 0.060 13.20 7.88 0.00 0.00 341 17-Sep 10-38 Timmins S. Sm 14-200/433m 1.32 1.00 0.051 1.60 7.87 4.1 4.1 1.20	September	333	13-Sep	16:14	4-597 Martin	1420ft/433m	1.07	0.043	17.10	8.01			0.00	2.00
335 14-Sep 11-55 Perintiput Library 14-201/433m 1.05 0.096 21,40 7.87 0.00 0.00 387 14-Sep 17-50 2-597 Martin 14-200/433m 1.32 1.24 7.87 0.00 0.00 388 14-Sep 13-10 57-00 4-397 Martin 14-200/433m 1.32 1.24 7.88 0.00 0.00 338 14-Sep 13-10 57-00 4-397 Martin 14-200/433m 1.32 1.20 7.88 0.00 0.00 339 14-Sep 13-10 57-00 57-00 Martin 14-200/433m 1.32 1.20 7.88 0.00 0.00 340 17-Sep 19-10 Nariant Bris 15-000/500m 0.47 0.049 20-40 7-99 41 41 1.20 1.2		334	14-Sep	11:27	579 Martin	1420ft/433m	1.12	0.067	18.10	7.88			0.00	0.00
336 14-5mp 12-72 1-397 Metrin 1-02074/38m 1.39 0.234 12-70 7.56 0.00 0.00 0.00 338 14-5mp 13.00 5.00 4-597 Metrin 1-02074/33m 1.40 1.50 7.50 0.00 0.00 0.00 338 14-5mp 13.00 5.00 Metrin 1-02074/33m 1.40 0.00			<u> </u>										1	
337 14 Sept 1750			<u> </u>		,								 	
338 14-5ep 13.00 4-597 Martin			<u> </u>					0.234	12.40	7.86				
339 145-8p 3310 370 Martin 1420Pt/333n 1.27 0.090 1310 7.89 <1 <1 <1 <1 <1 <1 <1 <													 	
3910 17-589 19-90 Naramata Rd. Sth 18-50ft/920m 0.47 0.049 20-00 7.99 <1 <1 <1 <			14-Sep	-									 	
341 17.5% 10.38		339	14-Sep	13:10	570 Martin	1420ft/433m	1.27	0.090	13.20	7.88			0.00	0.00
341 17.5% 10.38		340	17-Sep	9:40	Naramata Rd. Stn	1650ft/503m	0.47	0.049	20.40	7.99	<1	<1		
342 17-56p 10-56 Fairford Bridge Stn 1420ft/(143m) 1.09 0.051 14.60 7.94 ct ct											_	_	1	
343 37-5ep 11-90 Lawrence Aver Str. 2020/1/456m 0.53 0.057 14-70 7-91 <1 <1			<u> </u>											
344 17-560 11-57			<u> </u>		-									
345			<u> </u>	-										
346		344	17-Sep		Carmi Stn	1820ft/555m	0.53	0.092	14.10		<1	<1		
347 70 58-pc 11:26 Randolph Rist 18:50f/533m 0.90 0.120 14:30 7.90		345	17-Sep	12:40	Valleyview Stn	1620ft/494m	0.30	0.076	20.00	7.98	<1	<1		
348		346	17-Sep	13:05	Smyth Dr	1420ft/433m	0.80	0.328	18.30	7.96	<1	<1		
348		347	20-Sep	11:26	Randolph Rd Stn	1650ft/503m	0.90	0.120	14.30	7.90			Α	Α
349 20 Sep 13:17 Gordon Ave Sm 1820tr/SSSm 0.63 0.10 15:00 8:00			<u> </u>	-	<u>'</u>								 	
350 24 Sep 10-35 Randolph Rd Stn 1450ft/503m 0.90 0.070 13-90 8.10 <1 <1 <1 <1 <1 <1 <1			 										 	
351 24-Sep 113-10 City Hall Lunch Boom 14/20ft/433m 0.92 0.090 15.80 8.10 <1 <1 < < < < < < <			<u> </u>	-								_	A	A
352 24 Sep 11:36 Columbia School Lunch Room 1820ft/555m 0.69 0.110 15:40 8.00 <1 <1 <1 <			 		<u>'</u>	-					<1			
353 34-Sep 14-07		351	24-Sep	11:10	City Hall Lunch Room	1420ft/433m	0.92	0.090	16.80	8.10	<1	<1		
354 24-Sep		352	24-Sep	11:36	Columbia School Lunch Room	1820ft/555m	1.18	0.110	12.60	8.00	<1	<1		
354 24-Sep		353	24-Sep	14:07	Lawrence Ave Stn	2020ft/616m	0.69	0.110	15.40	8.00	<1	<1		
355 1-Oct 11:06 Naramata Rd Stn 1650ft/503m 0.57 0.130 18.90 8.20 <1 <1			· ·	14.40		_					<1			
356			2 - 3cp	17.70							'1	\ <u>1</u>		
3577 1-Oct 11:59 Lawrence Ave Stn 2020ft/616m 0.56 0.150 13:00 8.20 <1 <1		255	1 Oct	11.06		1 C C O f+ / C O 2 m	0.57	0.120	1000	0.20	-1	-1		
3588 1-Oct 12:15 Carmi Pump Stn 1820ft/555m 0.79 0.160 12:50 8.10 <1 <1 <														
359		356	1-Oct	11:36	Riverside Dr Stn	1420ft/433m	1.12	0.130		8.20		<1		
360		356	1-Oct	11:36	Riverside Dr Stn	1420ft/433m	1.12	0.130	13.00	8.20	<1	<1		
360		356 357	1-Oct 1-Oct	11:36 11:59	Riverside Dr Stn Lawrence Ave Stn	1420ft/433m 2020ft/616m	1.12 0.56	0.130 0.150	13.00 13.00	8.20 8.20	<1 <1	<1 <1		
361 4-Oct 11:06		356 357 358	1-Oct 1-Oct 1-Oct	11:36 11:59 12:15	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn	1420ft/433m 2020ft/616m 1820ft/555m	1.12 0.56 0.79	0.130 0.150 0.160	13.00 13.00 12.50	8.20 8.20 8.10	<1 <1 <1	<1 <1 <1		
362 4-Oct 13:33 Gordon Ave Stn 1820ft/555m 0.63 0.054 13:30 8.01		356 357 358 359	1-Oct 1-Oct 1-Oct 1-Oct	11:36 11:59 12:15 13:36	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m	1.12 0.56 0.79 0.33	0.130 0.150 0.160 0.130	13.00 13.00 12.50 17.90	8.20 8.20 8.10 8.20	<1 <1 <1 <1	<1 <1 <1 <1		
363 4-Oct 14:07 Elm Stn 1420ft/433m 0.90 0.177 13.80 7.99		356 357 358 359 360	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct	11:36 11:59 12:15 13:36 13:55	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m	1.12 0.56 0.79 0.33 0.80	0.130 0.150 0.160 0.130 0.015	13.00 13.00 12.50 17.90 17.10	8.20 8.20 8.10 8.20 8.10	<1 <1 <1 <1	<1 <1 <1 <1		A
364		356 357 358 359 360 361	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct	11:36 11:59 12:15 13:36 13:55 11:06	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m	1.12 0.56 0.79 0.33 0.80 0.91	0.130 0.150 0.160 0.130 0.015 0.285	13.00 13.00 12.50 17.90 17.10 13.10	8.20 8.20 8.10 8.20 8.10 7.97	<1 <1 <1 <1	<1 <1 <1 <1		
365 8-Oct 13:34		356 357 358 359 360 361 362	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1820ft/555m	1.12 0.56 0.79 0.33 0.80 0.91 0.63	0.130 0.150 0.160 0.130 0.015 0.285 0.054	13.00 13.00 12.50 17.90 17.10 13.10	8.20 8.20 8.10 8.20 8.10 7.97 8.01	<1 <1 <1 <1	<1 <1 <1 <1	Α	Α
366 8-Oct 13:46		356 357 358 359 360 361 362 363	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1820ft/555m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177	13.00 13.00 12.50 17.90 17.10 13.10	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99	<1 <1 <1 <1	<1 <1 <1 <1	Α	Α
366 8-Oct 13:46		356 357 358 359 360 361 362 363	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1820ft/555m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99	<1 <1 <1 <1 <1	<1 <1 <1 <1 <1	Α	Α
367 8-Oct 14:07		356 357 358 359 360 361 362 363 364	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1820ft/555m 1420ft/433m 1650ft/503m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95	<1 <1 <1 <1 <1	<1 <1 <1 <1 <1	Α	Α
368 8-Oct 14:20 City Yards 1650ft/503m 0.72 0.206 16.80 7.91 <1 <1 <1 <1 <1 <1 <1		356 357 358 359 360 361 362 363 364 365	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1820ft/555m 1420ft/433m 1650ft/503m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	Α	Α
369 8-Oct 11:50 1900 Penticton Ave 1650ft/503m 1.08 0.037 9.80 7.87 <1 <1		356 357 358 359 360 361 362 363 364 365 366	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	Α	Α
370		356 357 358 359 360 361 362 363 364 365 366 367	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Andolph Rd Stn Randolph Rd Stn Randolph Rd Stn Cardon Ave Stn Randolph Rd Stn Cardon Ave Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1820ft/555m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	Α	Α
October 371 15-Oct 11:45 Naramata Rd Stn 1650ft/503m 0.39 0.068 17.30 8.05 <1 <1		356 357 358 359 360 361 362 363 364 365 366 367 368	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 8-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1820ft/555m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/555m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.80 13.60 16.80	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	Α	Α
October 372 15-Oct 13:30 WWTP 1420ft/433m 0.81 0.059 16.70 7.86 <1 <1		356 357 358 359 360 361 362 363 364 365 366 367 368 369	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 8-Oct 8-Oct 8-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Andolph Rd Stn Randolph Rd Stn City Yards 1900 Penticton Ave	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1820ft/555m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1650ft/503m 1650ft/555m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91 7.87	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
373 15-Oct 14:05 4300 Lakeside Rd 1420ft/433m 0.79 0.094 15.10 7.93 <1		356 357 358 359 360 361 362 363 364 365 366 367 368 369 370	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn City Yards 1900 Penticton Ave Timmins St Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1650ft/503m 1650ft/503m 1650ft/503m 1650ft/503m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91 7.87 8.20	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
373 15-Oct 14:05 4300 Lakeside Rd 1420ft/433m 0.79 0.094 15.10 7.93 <1		356 357 358 359 360 361 362 363 364 365 366 367 368 369 370	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn City Yards 1900 Penticton Ave Timmins St Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1650ft/503m 1650ft/503m 1650ft/503m 1650ft/503m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91 7.87 8.20	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
374 15-Oct 14:30 Wiltse Blvd Stn 1620ft/494m 0.55 0.087 13.40 7.90 <1 <1 <1 375 15-Oct 14:40 Carmi Pump Stn 1820ft/555m 0.90 0.077 12.10 7.90 <1 <1 <1 376 15-Oct 14:52 Lawrence Ave Stn 2020ft/616m 0.63 0.076 13.60 7.89 <1 <1 <1 377 18-Oct 11:45 Randolph Rd Stn 1650ft/503m 0.78 0.120 12.30 7.90	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Andolph Rd Stn Randolph Rd Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1820ft/555m 1420ft/433m 1650ft/503m 1420ft/433m 1820ft/555m 1650ft/503m 1650ft/503m 1650ft/503m 1650ft/503m 1650ft/503m 1650ft/503m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91 7.87 8.20 8.05	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
375 15-Oct 14:40 Carmi Pump Stn 1820ft/555m 0.90 0.077 12:10 7.90 <1 <1 376 15-Oct 14:52 Lawrence Ave Stn 2020ft/616m 0.63 0.076 13.60 7.89 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1650ft/555m 1650ft/503m 1650ft/503m 1420ft/433m 1650ft/503m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30 16.70	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91 7.87 8.20 8.05 7.86	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
376	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/433m 1650ft/503m 1650ft/503m 1650ft/503m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.80 13.60 16.80 9.80 10.80 17.30 16.70 15.10	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
377 18-Oct 11:45 Randolph Rd Stn 1650ft/503m 0.78 0.120 12.30 7.90 A A A 378 22-Oct 10:45 Randolph Rd Stn 1650ft/503m 0.80 0.037 11.20 7.97 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1650ft/555m 1650ft/503m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
378 22-Oct 10:45 Randolph Rd Stn 1650ff/503m 0.80 0.037 11:20 7.97 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/555m 1650ft/503m 1650ft/503m 1650ft/503m 1420ft/433m 1620ft/433m 1420ft/433m 1620ft/433m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/435m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/435m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077	13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
379 22-Oct 11:07 Riverside Dr Stn 1420ft/433m 0.83 0.072 13.50 7.97 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40 14:52	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn City Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1650ft/555m 1650ft/503m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/436m 1420ft/436m 1420ft/436m 1420ft/436m 1420ft/436m 1420ft/436m 1420ft/436m 1620ft/494m 1820ft/555m 2020ft/616m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.076	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.89	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
379 22-Oct 11:07 Riverside Dr Stn 1420ft/433m 0.83 0.072 13.50 7.97 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40 14:52	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn City Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1650ft/555m 1650ft/503m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/436m 1420ft/436m 1420ft/436m 1420ft/436m 1420ft/436m 1420ft/436m 1420ft/436m 1620ft/494m 1820ft/555m 2020ft/616m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.076	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.89	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
380 22-Oct 11:24 Timmins St Stn 1420ft/433m 1.09 0.049 12:10 7.94 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40 14:52 11:45	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn Randolph Rd Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1650ft/555m 1650ft/503m 1650ft/503m 1420ft/433m 1650ft/503m 1650ft/503m 1650ft/503m 1650ft/503m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/503m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.78	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.89 7.90	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
381 22-Oct 11:36 Fairford Bridge Stn 1420ft/433m 0.85 0.386 13.00 7.96 <1 <1 382 22-Oct 13:44 Smythe Dr Stn 1420ft/433m 0.44 0.077 15.70 7.91 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40 14:52 11:45 10:45	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Carmi Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/555m 1650ft/503m 1420ft/555m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1650ft/503m 1650ft/503m 1650ft/555m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.79	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120 0.037	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.80 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30 11.20	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.90 7.97	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
382 22-Oct 13:44 Smythe Dr Stn 1420ft/433m 0.44 0.077 15.70 7.91 <1 <1 383 22-Oct 14:14 Lawrence Ave Stn 2020ft/616m 0.36 0.052 13:20 7.94 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 22-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40 14:52 11:45 10:45 10:45 11:07	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1650ft/555m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/555m 2020ft/616m 1650ft/503m 1650ft/503m 1650ft/503m 1650ft/503m 1650ft/503m 1650ft/503m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.78 0.80 0.80	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120 0.037 0.072	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30 11.20 13.50	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.90 7.97	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
383 22-Oct 14:14 Lawrence Ave Stn 2020ft/616m 0.36 0.052 13:20 7.94 <1 <1 384 29-Oct 13:44 City Yards 1650ft/503m 0.90 0.101 14.10 7.92 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 22-Oct 22-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:40 14:52 11:45 10:45 11:07 11:24	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Randolph Rd Stn Riverside Dr Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/555m 1650ft/503m 1420ft/555m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1620ft/433m 1620ft/433m 1620ft/494m 1820ft/555m 2020ft/616m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.79 0.55	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120 0.037 0.072 0.049	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 13.80 13.80 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30 11.20 13.50 12.10	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.90 7.97 7.97 7.94	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
384 29-Oct 13:44 City Yards 1650ft/503m 0.90 0.101 14.10 7.92 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 22-Oct 22-Oct 22-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40 14:52 11:45 10:45 11:07 11:24 11:36	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn Riverside Dr Stn Timmins St Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1650ft/555m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1620ft/494m 1820ft/555m 2020ft/616m 1650ft/503m 1650ft/503m 1620ft/503m 1420ft/433m 1620ft/494m 1820ft/555m 2020ft/616m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.79 0.85	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120 0.037 0.0120 0.037 0.072 0.049 0.386	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30 11.20 13.50 13.50 12.10 13.00	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.97 7.97 7.94 7.96	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
385 29-Oct 13:54 Wiltse School STN 1620ft/494m 0.51 0.105 12.30 7.97 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 22-Oct 22-Oct 22-Oct 22-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40 14:52 11:45 10:45 11:07 11:24 11:36 13:44	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn Riverside Dr Stn Riverside Dr Stn Timmins St Stn Riverside Dr Stn Timmins St Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/555m 1650ft/503m 1420ft/555m 1650ft/503m 1420ft/433m 1620ft/433m 1420ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/555m 2020ft/616m 1650ft/503m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.79 0.55 0.90 0.63	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120 0.037 0.072 0.049 0.386 0.077	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30 11.20 13.50 12.10 13.50 12.10 13.50	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.90 7.97 7.97 7.94 7.96 7.91	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
385 29-Oct 13:54 Wiltse School STN 1620ft/494m 0.51 0.105 12.30 7.97 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 22-Oct 22-Oct 22-Oct 22-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40 14:52 11:45 10:45 11:07 11:24 11:36 13:44	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn Riverside Dr Stn Riverside Dr Stn Timmins St Stn Riverside Dr Stn Timmins St Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/555m 1650ft/503m 1420ft/555m 1650ft/503m 1420ft/433m 1620ft/433m 1420ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/555m 2020ft/616m 1650ft/503m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.79 0.55 0.90 0.63	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120 0.037 0.072 0.049 0.386 0.077	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30 11.20 13.50 12.10 13.50 12.10 13.50	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.90 7.97 7.97 7.94 7.96 7.91	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
386 29-Oct 14:07 Gordon STN 1820ft/555m 0.33 0.114 12.50 8.01 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 22-Oct 22-Oct 22-Oct 22-Oct 22-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:40 14:52 11:45 10:45 11:07 11:24 11:36 13:44 14:14	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Carmi Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn Riverside Dr Stn Timmins St Stn Riverside Dr Stn Timmins St Stn Timmins St Stn Timmins St Stn Fairford Bridge Stn Smythe Dr Stn Lawrence Ave Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1820ft/555m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1620ft/433m 1620ft/433m 1620ft/555m 2020ft/616m 1650ft/503m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.78 0.80 0.80 0.83 1.09 0.83 1.09 0.83	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120 0.037 0.120 0.037 0.072 0.049 0.386 0.077 0.052	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30 11.20 13.50 12.10 13.50 13.00 15.70 13.20	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.97 7.97 7.94 7.96 7.91	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
387 29-Oct 14:20 OK Lake Pumphouse 1420ft/433m 0.80 0.083 11.90 7.92 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 22-Oct 22-Oct 22-Oct 22-Oct 22-Oct 22-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40 14:52 11:45 10:45 11:07 11:24 11:36 13:44 14:14	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn Riverside Dr Stn Timmins St Stn Riverside Dr Stn Timmins St Stn Fairford Bridge Stn Smythe Dr Stn Lawrence Ave Stn Lawrence Ave Stn	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/555m 1650ft/503m 1420ft/555m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/555m 2020ft/616m 1650ft/503m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.78 0.80 0.83 1.09 0.83 1.09 0.83 1.09 0.83 0.90	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120 0.037 0.120 0.037 0.072 0.049 0.386 0.077 0.052 0.101	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.80 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30 11.20 13.50 12.10 13.50 12.10 13.00 15.70 13.20 14.10	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.90 7.97 7.97 7.94 7.94 7.92	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
388 29-Oct 14:50 Randolph STN 1650ft/503m 0.82 0.069 11.00 7.94 <1 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 22-Oct 22-Oct 22-Oct 22-Oct 22-Oct 29-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:40 14:52 11:45 10:45 11:07 11:24 11:36 13:44 14:14 13:44	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn Riverside Dr Stn Timmins St Stn Riverside Dr Stn Timmins St Stn Timmins St Stn Riverside Dr Stn Timmins St Stn Fairford Bridge Stn Smythe Dr Stn Lawrence Ave Stn City Yards Wiltse School STN	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1820ft/555m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1620ft/494m 1820ft/555m 2020ft/616m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1650ft/503m 1420ft/434m 1650ft/503m 1420ft/434m 1650ft/503m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.79 0.55 0.90 0.63 0.79 0.55	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120 0.037 0.120 0.037 0.072 0.049 0.386 0.077 0.052 0.101 0.105	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.80 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30 11.20 13.50 13.50 13.20 14.10 12.30	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.90 7.97 7.97 7.94 7.94 7.92 7.97	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 22-Oct 22-Oct 22-Oct 22-Oct 29-Oct 29-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40 14:52 11:45 10:45 11:07 11:24 11:36 13:44 14:14 13:44 13:54 14:07	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn Riverside Dr Stn Timmins St Stn Riverside Dr Stn Timmins St Stn Smythe Dr Stn Lawrence Ave Stn City Yards Wiltse School STN Gordon STN	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1650ft/555m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1620ft/494m 1820ft/555m 2020ft/616m 1650ft/503m 1420ft/433m 1420ft/433m 1620ft/433m 1650ft/503m 1650ft/433m 1420ft/433m 1420ft/435m 1650ft/503m 1650ft/503m 1650ft/503m 1620ft/494m 1820ft/555m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.78 0.80 0.83 1.09 0.85 0.90 0.85 0.90 0.85 0.90 0.86	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120 0.037 0.120 0.037 0.072 0.049 0.386 0.077 0.052 0.101 0.105 0.114	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 11.80 13.50 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30 11.20 13.50 12.30 11.20 13.50 12.10 13.00 15.70 13.20 14.10 12.30 12.50	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.89 7.90 7.97 7.97 7.94 7.94 7.92 7.97 8.01	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
389 29-Oct 15:13 Lawrence Ave STN 2020ft/616m 0.27 0.088 13.70 7.95 <1 <1	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 22-Oct 22-Oct 22-Oct 22-Oct 22-Oct 29-Oct 29-Oct 29-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40 14:52 11:45 10:45 11:07 11:24 11:36 13:44 14:14 13:44 13:54 14:07	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn City Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn Randolph Rd Stn Randolph Rd Stn Randolph Rd Stn Riverside Dr Stn Randolph Rd Stn Randolph Rd Stn Riverside Dr Stn Timmins St Stn Fairford Bridge Stn Smythe Dr Stn Lawrence Ave Stn Cary Yards Wiltse School STN Gordon STN OK Lake Pumphouse	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/555m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1620ft/433m 1620ft/433m 1620ft/494m 1820ft/555m 2020ft/616m 1650ft/503m 1420ft/433m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.78 0.80 0.83 1.09 0.85 0.44 0.36 0.90 0.51 0.33 0.80	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120 0.037 0.120 0.037 0.072 0.049 0.386 0.077 0.052 0.101 0.105 0.114 0.083	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 13.80 13.80 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30 11.20 13.50 12.10 13.50 12.10 13.00 15.70 13.20 14.10 12.30 11.20 13.90 11.90	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.90 7.97 7.97 7.97 7.94 7.94 7.92 7.97 8.01 7.99	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A
	October	356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388	1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 1-Oct 4-Oct 4-Oct 4-Oct 8-Oct 8-Oct 8-Oct 8-Oct 10-Oct 15-Oct 15-Oct 15-Oct 15-Oct 15-Oct 22-Oct 22-Oct 22-Oct 22-Oct 29-Oct 29-Oct 29-Oct 29-Oct	11:36 11:59 12:15 13:36 13:55 11:06 13:33 14:07 13:18 13:34 13:46 14:07 14:20 11:50 11:18 11:45 13:30 14:05 14:30 14:40 14:52 11:45 10:45 11:07 11:24 11:36 13:44 14:14 13:54 14:07 14:20 14:50	Riverside Dr Stn Lawrence Ave Stn Carmi Pump Stn Valleyview Test Stn Smythe Dr Stn Randolph Rd Stn Gordon Ave Stn Elm Stn Randolph Rd Stn Lake Pump Stn Riverside Dr Stn Gordon Ave Stn City Yards 1900 Penticton Ave Timmins St Stn Naramata Rd Stn WWTP 4300 Lakeside Rd Wiltse Blvd Stn Carmi Pump Stn Lawrence Ave Stn Randolph Rd Stn Randolph Rd Stn Riverside Dr Stn Smythe Dr Stn Timmins St Stn Smythe Dr Stn Lawrence Ave Stn City Yards Wiltse School STN Gordon STN OK Lake Pumphouse Randolph STN	1420ft/433m 2020ft/616m 1820ft/555m 1620ft/494m 1420ft/433m 1650ft/503m 1420ft/433m 1420ft/433m 1420ft/433m 1420ft/555m 1650ft/503m 1420ft/555m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1650ft/503m 1420ft/433m 1620ft/433m 1620ft/433m 1620ft/433m 1620ft/494m 1820ft/555m 2020ft/616m 1650ft/503m 1420ft/433m 1650ft/503m 1650ft/503m 1650ft/503m 1650ft/503m	1.12 0.56 0.79 0.33 0.80 0.91 0.63 0.90 0.92 0.86 1.00 0.61 0.72 1.08 1.20 0.39 0.81 0.79 0.55 0.90 0.63 0.78 0.80 0.83 1.09 0.85 0.44 0.36 0.90 0.51 0.33 0.80 0.82	0.130 0.150 0.160 0.130 0.015 0.285 0.054 0.177 0.060 0.172 0.046 0.051 0.206 0.037 0.110 0.068 0.059 0.094 0.087 0.077 0.076 0.120 0.037 0.120 0.037 0.072 0.049 0.386 0.077 0.052 0.101 0.105 0.114 0.083 0.069	13.00 13.00 13.00 12.50 17.90 17.10 13.10 13.30 13.80 13.80 13.80 13.60 16.80 9.80 10.80 17.30 16.70 15.10 13.40 12.10 13.60 12.30 11.20 13.50 12.10 13.50 12.10 13.00 15.70 13.20 14.10 12.30 11.20 13.90 11.90	8.20 8.20 8.10 8.20 8.10 7.97 8.01 7.99 7.95 7.92 7.97 7.91 7.87 8.20 8.05 7.86 7.93 7.90 7.90 7.97 7.97 7.97 7.94 7.96 7.91 7.94 7.92 7.97 8.01 7.92 7.97	<1	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	A	A

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	390	1-Nov	11:02	4300 Lakeside Rd	1420ft/433m	0.57	0.475	13.70	7.91			Α	Α
	391	1-Nov	11:35	Carmi Reservoir	1820ft/555m	0.40	0.146	11.00	7.94			Α	Α
	392	1-Nov	11:55	1900 Penticton Ave	1650ft/503m	0.86	0.082	14.30	7.93			Α	Α
	393	5-Nov	11:08	Gordon Ave STN	1820ft/555m	0.27	0.076	12.20	8.01	<1	<1		
ŀ	394	5-Nov	12:03	WWTP	1420ft/433m	0.77	0.086	13.10	7.95	<1	<1		
1		1				!						-	
	395	5-Nov	12:31	Community Centre Lunch Room	1420ft/433m	0.89	0.057	13.60	7.93	<1	<1		
	396	5-Nov	12:57	City Hall Lunch Room	1420ft/433m	0.61	0.091	14.70	7.95	<1	<1		
	397	5-Nov	13:12	OK Lake Pumphouse STN	1420ft/433m	0.81	0.098	11.60	7.95	<1	<1		
	398	5-Nov	13:55	Carmi Ave STN	1820ft/555m	0.40	0.156	11.00	7.97	<1	<1		
	399	8-Nov	9:00	Naramata Rd Stn	1650ft/503m	0.23	0.058	12.80	7.85			А	А
	400	8-Nov	9:25	Lake Pump Stn	1420ft/433m	0.82	0.075	11.50	7.88			Α	Α
	401	8-Nov	10:01	Carmi Stn	1820ft/555m	0.35	0.120	11.70	7.87			i	1
								 				A	А
	402	12-Nov	11:35	Smythe Dr Stn	1420ft/433m	0.39	0.090	13.20	8.10	<1	<1		
	403	12-Nov	11:58	Wiltse Blvd Stn	1620ft/494m	0.97	0.220	8.80	8.10	<1	<1		
	404	12-Nov	12:18	Carmi Pump House	1820ft/555m	0.39	0.100	10.00	8.10	<1	<1		
	405	12-Nov	12:31	Lawrence Ave Stn	2020ft/616m	0.29	0.080	11.60	8.10	<1	<1		
l	406	12-Nov	14:20	Riverside Dr Stn	1420ft/433m	0.89	0.110	10.80	8.10	<1	<1		
November	407	12-Nov	14:50	Naramata Rd Stn	1650ft/503m	0.22	0.080	12.80	8.00	<1	<1		
INOVEITIBEI		ł								<u> </u>	<u> </u>	<u> </u>	
	408	15-Nov	14:39	1900 Penticton Ave	1650ft/503m	0.89	0.100	13.30	8.02			Α	А
	409	15-Nov	15:37	Carmi Stn	1820ft/555m	0.37	0.078	10.60	8.07			Α	Α
	410	15-Nov	16:02	1946 Harris Dr	2020ft/616m	0.16	0.076	14.00	8.06		<u> </u>	Α	Α
	411	19-Nov	14:10	Naramata Rd Stn	1650ft/503m	0.29	0.047	11.60	8.06	<1	<1		
	412	19-Nov	11:51	Smythe Dr Stn	1420ft/433m	0.42	0.100	12.50	8.10	<1	<1	<u> </u>	
	413	19-Nov	12:20	Gordon Ave Stn	1820ft/555m	0.51	0.120	10.00	8.10	<1	<1	 	
		ł						<u> </u>			t	 	
	414	19-Nov	13:40	City Yards	1650ft/503m	0.95	0.190	10.40	8.10	<1	<1	<u> </u>	
	415	19-Nov	14:00	Lawrence Ave Stn	2020ft/616m	0.35	0.090	10.30	8.10	<1	<1		
	416	19-Nov	14:47	1900 Penticton Ave	1650ft/503m	0.98	0.082	10.30	7.80	<1	<1		<u> </u>
	417	22-Nov	13:32	1946 Harris Dr	2020ft/616m	0.21	0.057	12.80	7.95			Α	Α
	418	22-Nov	14:05	Randolph Rd. STN	1650ft/503m	0.72	0.044	10.10	7.86			А	Α
	419	22-Nov	14:20	City Hall Lunch Room	1420ft/433m	0.79	0.102	18.20	7.89		 	A	A
	419	26-Nov	10:45	· · · · · · · · · · · · · · · · · · ·		0.79	0.102	10.40	8.02	-11	-11	 ^	- ^
				Naramata Rd Stn	1650ft/503m					<1	<1	-	
	421	26-Nov	11:45	1900 Penticton Ave	1650ft/503m	0.98	0.037	11.70	7.97	<1	<1		
	422	26-Nov	14:00	Smythe Dr Stn	1420ft/433m	0.48	0.064	10.80	8.01	<1	<1		
	423	26-Nov	14:25	Timmins Street Sample Stn	1420ft/433m	1.28	0.058	8.40	7.98	<1	<1		
	424	29-Nov	11:54	Carmi STN	1820ft/555m	0.49	0.110	9.30	8.00			Α	Α
	425	3-Dec	11:00	Naramata Stn	1650ft/503m	0.38	0.041	9.60	8.04	<1	<1	<u> </u>	
-		ł — — — — — — — — — — — — — — — — — — —									i		
	426	3-Dec	11:25	Okanagan Lake Pump House	1420ft/433m	0.87	0.084	9.00	8.00	<1	<1		<u> </u>
	427	3-Dec	13:25	AWWTP	1420ft/433m	0.89	0.047	10.10	8.01	<1	<1		
	428	3-Dec	14:15	4300 Lakesid Rd	1420ft/433m	0.65	0.258	10.10	8.04	<1	<1		
	429	3-Dec	14:25	Wiltse sample stn	1620ft/494m	0.53	0.083	8.10	8.08	<1	<1		
	430	3-Dec	14:45	Carmi Pump House	1820ft/555m	0.42	0.278	9.70	8.10	<1	<1		
	431	3-Dec	15:00	Lawrence sample stn	2020ft/616m	0.46	0.038	7.80	8.09	<1	<1		
ŀ	432	6-Dec	12:00	Randolph Rd Stn	1650ft/503m	0.84	0.110	8.30	8.00	`-	1-1-		
		ł — — — — — — — — — — — — — — — — — — —		<u>'</u>		-		 				A	A
	433	6-Dec	12:45	Okanagan Lake Pump House	1420ft/433m	0.94	0.100	7.90	8.00			А	Α
	434	6-Dec	13:21	Carmi Pump House	1820ft/555m	0.54	0.120	7.30	8.00			Α	Α
	435	6-Dec	14:00	1900 Penticton Ave	1650ft/503m	1.07	0.120	12.20	8.00			Α	Α
	436	10-Dec	14.:48	Carmi Pump House	1820ft/555m	0.48	0.068	10.10	8.15	<1	<1		
	437	10-Dec	15:16	1946 Harris Dr	2020ft/616m	0.35	0.040	11.00	8.12	<1	<1	İ	
	438	10-Dec	15:42	Randolph Rd Stn	1650ft/503m	0.80	0.027	7.20	8.05	<1	<1	<u> </u>	
		i e		'							 	 	
	439	10-Dec	17:09	1900 Penticton Ave	1650ft/503m	0.87	0.068	12.50	8.10	<1	<1	<u> </u>	
	440	10-Dec	14:41	4300 Lakeside Rd.	1420ft/433m	0.54	0.133	9.30	8.12	<1	<1		
	441	10-Dec	15:00	Wiltse sample stn	1620ft/494m	0.53	0.075	7.60	8.10	<1	<1		
December	442	10-Dec	15:20	Gordon Ave Stn	1820ft/555m	0.44	0.075	8.00	8.13	<1	<1	<u></u>	<u></u>
	443	14-Dec	13:30	Gordon	1820ft/555m	0.41	0.074	7.70	8.09			Α	А
	444	14-Dec	13:50	Carmi	1820ft/555m	0.48	0.129	8.90	8.08		<u> </u>	Α	Α
1	445	14-Dec	14:13	Lake Pump Stn	1620ft/494m	0.96	0.069	7.90	8.02		 	A	A
		ł		·		-					1	 	
	446	14-Dec	14:40	1900 Penticton Ave	1650ft/503m	1.03	0.237	8.40	8.03			Α	Α
	447	17-Dec	10:40	Randolph Rd. STN	1650ft/503m	0.89	0.039	8.20	7.98	<1	<1		
	448	17-Dec	11:05	OK Lake Pump STN	1420ft/433m	0.98	0.064	7.40	8.00	<1	<1		
	449	17-Dec	11:45	Naramata Rd. STN	1650ft/503m	0.40	0.062	9.40	7.98	<1	<1		<u> </u>
	450	17-Dec	12:15	Community Centre Lunch Room	1420ft/433m	1.04	0.054	8.90	8.02	<1	<1		
	451	17-Dec	12:45	4300 Lakeside Rd. STN	1420ft/433m	0.78	0.126	8.50	8.00	<1	<1		
	452	17-Dec	13:05	Gordon STN	1820ft/555m	0.47	0.072	7.20	8.06	<1	<1		<u> </u>
		1				-		<u> </u>			-	 	
	453	17-Dec	13:25	Wiltse School STN	1620ft/494m	0.54	0.120	7.20	8.05	<1	<1	 	
	454	20-Dec	15:00	Gordon Ave Stn	1820ft/555m	0.50	0.130	7.00	8.10			Α	А
	455	20-Dec	15:25	Randolph Rd Stn	1650ft/503m	0.90	0.070	7.10	8.10		<u></u>	Α	Α
[456	20-Dec	16:05	1900 Penticton Ave	1650ft/503m	1.09	0.080	6.00	8.10	<u></u>		А	А
	457	27-Dec	11:45	1900 Penticton Ave	1650ft/503m	1.05	0.073	7.80	8.19			Α	Α
	458	27-Dec	13:10	1946 Harris Dr	2020ft/616m	0.39	0.047	9.60	8.15		1	A	A
	459	27-Dec 27-Dec	14:46	Randolph Rd. STN	1650ft/503m	0.92	0.047	6.30	8.09				
	439	27-Dec	14.40	nanuuipii ku. Siiv	-		0.043	0.50	0.09			А	А
-		I	I		Α	nnual		1		I	I	1	
Average						0.78	0.11	11.43	8.00				
n						459		<u> </u>					
		. — —	. —								-	. —	. —





REPORTED TO Penticton, City of - DW & STP

You know that the sample you collected after

snowshoeing to site, digging 5 meters, and

racing to get it on a plane so you can submit it

to the lab for time sensitive results needed to

make important and expensive decisions

(whew) is VERY important. We know that too.

171 Main Street

PENTICTON, BC V2A 5A9

ATTENTION Alistair Wardlaw WORK ORDER 24B0959

PO NUMBER RECEIVED / TEMP 2024-02-07 10:11 / 7.1°C

PROJECT Quarterly Samples REPORTED 2024-02-15 13:59

PROJECT INFO OPR178-025 COC NUMBER B113333

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks

We've Got Chemistry

It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve

Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here: https://www.caro.ca/terms-conditions

If you have any questions or concerns, please contact me at bwhitehead@caro.ca

Authorized By:

Brent Whitehead Account Manager M what



REPORTED TO PROJECT	Penticton, City of - DW of Quarterly Samples	& STP			WORK ORDER REPORTED	24B0959 2024-02-1	5 13:59
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
PRV Stn (24B0959	9-01) Matrix: Water Sa	mpled: 2024-02-0	06 11:00				
Anions							
Chloride		9.90	AO ≤ 250	0.10	mg/L	2024-02-09	
Fluoride		< 0.10	MAC = 1.5		mg/L	2024-02-09	
Nitrate (as N)		0.041	MAC = 10	0.010		2024-02-09	
Nitrite (as N)		< 0.010	MAC = 1	0.010		2024-02-09	
Sulfate		22.0	AO ≤ 500		mg/L	2024-02-09	
Calculated Paramet	ers	22.0	7.0 = 000	1.0	9/ =	2021 02 00	
Total Trihalometha		0.0364	MAC = 0.1	0.00400	ma/l	N/A	
Hardness, Total (as		96.4	None Required	0.500		N/A	
Langelier Index		-0.3	N/A	-5.0	g, <u>-</u>	2024-02-14	CT6
Nitrogen, Organic		0.0700	N/A	0.0500	ma/l	N/A	
Solids, Total Dissol	ved	132	AO ≤ 500		mg/L	N/A	
General Parameters					.		
Alkalinity, Total (as		86.6	N/A	1.0	mg/L	2024-02-10	
	nthalein (as CaCO3)	< 1.0	N/A		mg/L	2024-02-10	
Alkalinity, Bicarbon		86.6	N/A		mg/L	2024-02-10	
Alkalinity, Carbona		< 1.0	N/A		mg/L	2024-02-10	
Alkalinity, Hydroxid		< 1.0	N/A		mg/L	2024-02-10	
Ammonia, Total (as	<u> </u>	< 0.050	None Required	0.050		2024-02-13	
Carbon, Total Orga		4.51	N/A		mg/L	2024-02-12	
Colour, True		6.4	AO ≤ 15		CU	2024-02-09	
Conductivity (EC)		240	N/A		μS/cm	2024-02-10	
Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	·	2024-02-09	
Nitrogen, Total Kjel	dahl	0.070	N/A	0.050		2024-02-13	
pH		7.89	7.0-10.5	0.10		2024-02-10	HT2
Phosphorus, Total	(as P)	< 0.0050	N/A	0.0050	mg/L	2024-02-12	
Sulfide, Total	,	< 0.020	AO ≤ 0.05	0.020		2024-02-12	
Temperature, at pl	1	21.3	N/A		°C	2024-02-10	HT2
Turbidity		0.23	OG < 1	0.10	NTU	2024-02-09	
UV Transmittance	@ 254 nm - Unfiltered	92.4	N/A	0.10	% T	2024-02-09	
Haloacetic Acids							
Monochloroacetic /	Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-13	
Monobromoacetic	Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-13	
Dichloroacetic Acid		0.0190	N/A	0.0020		2024-02-13	
Trichloroacetic Acid	d	0.0182	N/A	0.0020		2024-02-13	
Dibromoacetic Acid	1	< 0.0020	N/A	0.0020		2024-02-13	
Total Haloacetic Ac	cids (HAA5)	0.0372	MAC = 0.08	0.00200		N/A	
Surrogate: 2-Brom	opropionic Acid	110		70-130		2024-02-13	
Total Metals							
Aluminum, total		0.0103	OG < 0.1	0.0050	mg/L	2024-02-13	
Antimony, total		< 0.00020	MAC = 0.006	0.00020		2024-02-13	



Nitrogen, Organic

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
PRV Stn (24B0959-01) Matrix: Water	Sampled: 2024-02-	06 11:00, Continued	ı			
otal Metals, Continued						
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-02-13	
Barium, total	0.0174	MAC = 2	0.0050	mg/L	2024-02-13	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-02-13	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-02-14	
Calcium, total	26.7	None Required	0.20	mg/L	2024-02-13	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-02-13	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-02-13	
Copper, total	0.00043	MAC = 2	0.00040	mg/L	2024-02-13	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2024-02-13	
Lead, total	< 0.00020	MAC = 0.005	0.00020		2024-02-13	
Magnesium, total	7.17	None Required	0.010		2024-02-13	
Manganese, total	0.00074	MAC = 0.12	0.00020		2024-02-13	
Mercury, total	< 0.000010	MAC = 0.001	0.000010		2024-02-14	
Molybdenum, total	0.00256	N/A	0.00010		2024-02-13	
Nickel, total	0.00069	N/A	0.00040		2024-02-13	
Potassium, total	1.97	N/A		mg/L	2024-02-13	
Selenium, total	< 0.00050	MAC = 0.05	0.00050		2024-02-13	
Sodium, total	11.4	AO ≤ 200		mg/L	2024-02-13	
Strontium, total	0.215	MAC = 7	0.0010		2024-02-13	
Uranium, total	0.00060	MAC = 0.02	0.00010		2024-02-13	
Zinc, total	< 0.0040	AO ≤ 5	0.000020		2024-02-13	
olatile Organic Compounds (VOC)	V 0.0040	A0 3 3	0.0040	mg/L	2024-02-13	
Bromodichloromethane	0.0022	N/A	0.0010	ma/l	2024-02-13	
Bromoform	< 0.0010	N/A	0.0010		2024-02-13	
Chloroform	0.0341	N/A	0.0010		2024-02-13	
Dibromochloromethane	< 0.0010	N/A	0.0010		2024-02-13	
Surrogate: Toluene-d8	104	14/1	70-130	%	2024-02-13	
Surrogate: 4-Bromofluorobenzene	100		70-130	%	2024-02-13	
carmi Pumpstation (24B0959-02) Ma		d: 2024-02-06 11:25				
	9.63	AO < 250	0.40	ma/l	2024 02 02	
Chloride		AO ≤ 250 MAC = 1.5		mg/L	2024-02-09	
Fluoride	< 0.10			mg/L	2024-02-09	
Nitrate (as N)	0.043	MAC = 10	0.010		2024-02-09	
Nitrite (as N)	< 0.010	MAC = 1	0.010		2024-02-09	
Sulfate	22.1	AO ≤ 500	1.0	mg/L	2024-02-09	
Calculated Parameters						
Hardness, Total (as CaCO3)	98.8	None Required	0.500	mg/L	N/A	
Langelier Index	-0.9	N/A	-5.0		2024-02-14	CT6

N/A

N/A

0.0500 mg/L

0.0780



REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER REPORTED 24B0959 2024-02-15 13:59

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Carmi Pumpstation (24B0959-02) Matrix	: Water Sample	d: 2024-02-06 11:25	, Continued			
Calculated Parameters, Continued						
Solids, Total Dissolved	137	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	92.5	N/A	1.0	mg/L	2024-02-10	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2024-02-10	
Alkalinity, Bicarbonate (as CaCO3)	92.5	N/A	1.0	mg/L	2024-02-10	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2024-02-10	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-02-10	
Ammonia, Total (as N)	< 0.050	None Required	0.050		2024-02-13	
Carbon, Total Organic	4.14	N/A	0.50		2024-02-12	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2024-02-09	
Conductivity (EC)	241	N/A	2.0	μS/cm	2024-02-10	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-02-09	
Nitrogen, Total Kjeldahl	0.078	N/A	0.050	mg/L	2024-02-13	
pH	7.24	7.0-10.5	0.10	pH units	2024-02-10	HT2
Phosphorus, Total (as P)	< 0.0050	N/A	0.0050	mg/L	2024-02-12	
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2024-02-12	
Temperature, at pH	21.0	N/A		°C	2024-02-10	HT2
Turbidity	0.25	OG < 1	0.10	NTU	2024-02-09	
UV Transmittance @ 254 nm - Unfiltered	92.2	N/A	0.10	% T	2024-02-09	
Fotal Metals						
Aluminum, total	0.0119	OG < 0.1	0.0050	mg/L	2024-02-13	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-02-13	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-02-13	
Barium, total	0.0177	MAC = 2	0.0050	mg/L	2024-02-13	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-02-13	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-02-14	
Calcium, total	27.4	None Required	0.20	mg/L	2024-02-13	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-02-13	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-02-13	
Copper, total	0.00214	MAC = 2	0.00040	mg/L	2024-02-13	
Iron, total	0.034	AO ≤ 0.3	0.010	mg/L	2024-02-13	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-02-13	
Magnesium, total	7.35	None Required	0.010	mg/L	2024-02-13	
Manganese, total	0.00129	MAC = 0.12	0.00020	mg/L	2024-02-13	
Mercury, total	< 0.000010	MAC = 0.001	0.000010		2024-02-14	
Molybdenum, total	0.00260	N/A	0.00010		2024-02-13	
Nickel, total	< 0.00040	N/A	0.00040		2024-02-13	
Potassium, total	2.03	N/A		mg/L	2024-02-13	
Selenium, total	< 0.00050	MAC = 0.05	0.00050		2024-02-13	
Sodium, total	11.9	AO ≤ 200		mg/L	2024-02-13	
Strontium, total	0.226	MAC = 7	0.0010		2024-02-13	
Uranium, total	0.000099	MAC = 0.02	0.000020		2024-02-13	



PROJECT Quarterly Samples	V & STP			WORK ORDER REPORTED	24B0959 2024-02-1	5 13:59
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Carmi Pumpstation (24B0959-02) Matri	x: Water Sampled	: 2024-02-06 11:25	5, Continued			
Total Metals, Continued						
Zinc, total	0.0063	AO ≤ 5	0.0040	mg/L	2024-02-13	
Smythe Dr. Sample Stn (24B0959-03) N	latrix: Water Sam _l	pled: 2024-02-06 1	1:50			
Calculated Parameters						
Total Trihalomethanes	0.0645	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	ma/l	2024-02-13	
Monobromoacetic Acid	< 0.0020	N/A	0.0020		2024-02-13	
Dichloroacetic Acid	0.0287	N/A	0.0020		2024-02-13	
Trichloroacetic Acid	0.0308	N/A	0.0020		2024-02-13	
Dibromoacetic Acid	< 0.0020	N/A	0.0020		2024-02-13	
Total Haloacetic Acids (HAA5)	0.0594	MAC = 0.08	0.00200		N/A	
Surrogate: 2-Bromopropionic Acid	107	1411 10 0.00	70-130		2024-02-13	
Bromodichloromethane Bromoform Chloroform Dibromochloromethane Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene	0.0044 < 0.0010 0.0601 < 0.0010 105 102	N/A N/A N/A N/A	0.0010 0.0010 0.0010 0.0010 70-130	mg/L mg/L mg/L	2024-02-13 2024-02-13 2024-02-13 2024-02-13 2024-02-13 2024-02-13	
	rix: Water Sample	ed: 2024-02-06 13:	10			
Randolph Rd Station (24B0959-04) Mat	trix: Water Sample	ed: 2024-02-06 13:	10			
Randolph Rd Station (24B0959-04) Mat Calculated Parameters Total Trihalomethanes	trix: Water Sample 0.0609	ed: 2024-02-06 13: MAC = 0.1	0.00400	mg/L	N/A	
Randolph Rd Station (24B0959-04) Mat Calculated Parameters Total Trihalomethanes Haloacetic Acids	0.0609	MAC = 0.1	0.00400			
Randolph Rd Station (24B0959-04) Mat Calculated Parameters Total Trihalomethanes Haloacetic Acids Monochloroacetic Acid	0.0609	MAC = 0.1 N/A	0.00400	mg/L	2024-02-13	
Randolph Rd Station (24B0959-04) Mai Calculated Parameters Total Trihalomethanes Haloacetic Acids Monochloroacetic Acid Monobromoacetic Acid	0.0609 < 0.0020 < 0.0020	MAC = 0.1 N/A N/A	0.00400 0.0020 0.0020	mg/L mg/L	2024-02-13 2024-02-13	
Randolph Rd Station (24B0959-04) Mai Calculated Parameters Total Trihalomethanes Haloacetic Acids Monochloroacetic Acid Monobromoacetic Acid Dichloroacetic Acid	0.0609 < 0.0020 < 0.0020 0.0280	MAC = 0.1 N/A N/A N/A	0.00400 0.0020 0.0020 0.0020	mg/L mg/L mg/L	2024-02-13 2024-02-13 2024-02-13	
Randolph Rd Station (24B0959-04) Material Randolph Rd Randolph Rd Randolph Rd Randolph Rd Randolph Rd Randol	0.0609 < 0.0020 < 0.0020 0.0280 0.0303	MAC = 0.1 N/A N/A N/A N/A N/A	0.00400 0.0020 0.0020 0.0020 0.0020	mg/L mg/L mg/L mg/L	2024-02-13 2024-02-13 2024-02-13 2024-02-13	
Randolph Rd Station (24B0959-04) Material Calculated Parameters Total Trihalomethanes Haloacetic Acids Monochloroacetic Acid Monobromoacetic Acid Dichloroacetic Acid Trichloroacetic Acid Dibromoacetic Acid	0.0609 < 0.0020 < 0.0020 0.0280 0.0303 < 0.0020	MAC = 0.1 N/A N/A N/A N/A N/A N/A	0.00400 0.0020 0.0020 0.0020 0.0020 0.0020	mg/L mg/L mg/L mg/L mg/L	2024-02-13 2024-02-13 2024-02-13 2024-02-13 2024-02-13	
Randolph Rd Station (24B0959-04) Mat Calculated Parameters Total Trihalomethanes Haloacetic Acids Monochloroacetic Acid Monobromoacetic Acid Dichloroacetic Acid Trichloroacetic Acid Dibromoacetic Acid Total Haloacetic Acids (HAA5)	0.0609 < 0.0020 < 0.0020 0.0280 0.0303 < 0.0020 0.0583	MAC = 0.1 N/A N/A N/A N/A N/A	0.00400 0.0020 0.0020 0.0020 0.0020 0.0020	mg/L mg/L mg/L mg/L mg/L mg/L	2024-02-13 2024-02-13 2024-02-13 2024-02-13 N/A	
Randolph Rd Station (24B0959-04) Material Calculated Parameters Total Trihalomethanes Haloacetic Acids Monochloroacetic Acid Monobromoacetic Acid Dichloroacetic Acid Trichloroacetic Acid Dibromoacetic Acid	0.0609 < 0.0020 < 0.0020 0.0280 0.0303 < 0.0020	MAC = 0.1 N/A N/A N/A N/A N/A N/A	0.00400 0.0020 0.0020 0.0020 0.0020 0.0020	mg/L mg/L mg/L mg/L mg/L mg/L	2024-02-13 2024-02-13 2024-02-13 2024-02-13 2024-02-13	
Randolph Rd Station (24B0959-04) Material Calculated Parameters Total Trihalomethanes Haloacetic Acids Monochloroacetic Acid Monobromoacetic Acid Dichloroacetic Acid Trichloroacetic Acid Dibromoacetic Acid Dibromoacetic Acid Total Haloacetic Acids (HAA5) Surrogate: 2-Bromopropionic Acid Volatile Organic Compounds (VOC)	0.0609 < 0.0020 < 0.0020 0.0280 0.0303 < 0.0020 0.0583 110	MAC = 0.1 N/A N/A N/A N/A N/A N/A N/A MAC = 0.08	0.00400 0.0020 0.0020 0.0020 0.0020 0.00200 70-130	mg/L mg/L mg/L mg/L mg/L mg/L %	2024-02-13 2024-02-13 2024-02-13 2024-02-13 2024-02-13 N/A 2024-02-13	
Randolph Rd Station (24B0959-04) Material Calculated Parameters Total Trihalomethanes Haloacetic Acids Monochloroacetic Acid Monobromoacetic Acid Dichloroacetic Acid Trichloroacetic Acid Dibromoacetic Acid Total Haloacetic Acids (HAA5) Surrogate: 2-Bromopropionic Acid	0.0609 < 0.0020 < 0.0020 0.0280 0.0303 < 0.0020 0.0583 110	MAC = 0.1 N/A N/A N/A N/A N/A N/A MAC = 0.08	0.00400 0.0020 0.0020 0.0020 0.0020 0.00200 70-130	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-02-13 2024-02-13 2024-02-13 2024-02-13 2024-02-13 N/A 2024-02-13	
Randolph Rd Station (24B0959-04) Material Calculated Parameters Total Trihalomethanes Haloacetic Acids Monochloroacetic Acid Monobromoacetic Acid Dichloroacetic Acid Trichloroacetic Acid Dibromoacetic Acid Total Haloacetic Acids (HAA5) Surrogate: 2-Bromopropionic Acid Volatile Organic Compounds (VOC) Bromodichloromethane	0.0609 < 0.0020 < 0.0020 0.0280 0.0303 < 0.0020 0.0583 110 0.0038 < 0.0010	MAC = 0.1 N/A N/A N/A N/A N/A MAC = 0.08	0.00400 0.0020 0.0020 0.0020 0.0020 0.0020 70-130 0.0010	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-02-13 2024-02-13 2024-02-13 2024-02-13 N/A 2024-02-13 2024-02-13 2024-02-13	
Randolph Rd Station (24B0959-04) Material Calculated Parameters Total Trihalomethanes Haloacetic Acids Monochloroacetic Acid Monobromoacetic Acid Dichloroacetic Acid Trichloroacetic Acid Dibromoacetic Acid Total Haloacetic Acids (HAA5) Surrogate: 2-Bromopropionic Acid Volatile Organic Compounds (VOC) Bromodichloromethane Bromoform	0.0609 < 0.0020 < 0.0020 0.0280 0.0303 < 0.0020 0.0583 110	MAC = 0.1 N/A N/A N/A N/A N/A N/A MAC = 0.08	0.00400 0.0020 0.0020 0.0020 0.0020 0.00200 70-130	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-02-13 2024-02-13 2024-02-13 2024-02-13 2024-02-13 N/A 2024-02-13	



REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER

24B0959

REPORTED 2024-02-15 13:59

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
Randolph Rd Station (24B0959-04) Matrix: W	/ater Sample	ed: 2024-02-06 13:10	, Continued		

Volatile Organic Compounds (VOC), Continued

 Surrogate: 4-Bromofluorobenzene
 94
 70-130
 %
 2024-02-13

Naramata Rd Sample Stn (24B0959-05) | Matrix: Water | Sampled: 2024-02-06 13:20

Calculated Parameters					
Total Trihalomethanes	0.0609	MAC = 0.1	0.00400	mg/L	N/A
Haloacetic Acids					
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-13
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-13
Dichloroacetic Acid	0.0301	N/A	0.0020	mg/L	2024-02-13
Trichloroacetic Acid	0.0321	N/A	0.0020	mg/L	2024-02-13
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-02-13
Total Haloacetic Acids (HAA5)	0.0622	MAC = 0.08	0.00200	mg/L	N/A
Surrogate: 2-Bromopropionic Acid	115		70-130	%	2024-02-13
/olatile Organic Compounds (VOC)					
Bromodichloromethane	0.0042	N/A	0.0010	mg/L	2024-02-13
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-02-13
Chloroform	0.0567	N/A	0.0010	mg/L	2024-02-13
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-02-13
Surrogate: Toluene-d8	100		70-130	%	2024-02-13
Surrogate: 4-Bromofluorobenzene	96		70-130	%	2024-02-13

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.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER

24B0959

REPORTED

2024-02-15 13:59

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH3 G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO2 Detection	✓	Kelowna
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2021)	Calculation		N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2021)	Block Digestion and Flow Injection Analysis	✓	Kelowna
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Phosphorus, Total in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2021)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Sulfide, Total in Water	SM 4500-S2 D* (2021)	Colorimetry (Methylene Blue)	✓	Edmonton
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Transmittance at 254 nm - Unfiltered in Water	SM 5910 B* (2021)	Ultraviolet Absorption	✓	Kelowna
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond
Turbidity in Water	SM 2130 B (2020)	Nephelometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL Reporting Limit (default) % T Percent Transmittance

Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors

°C Degrees Celcius AO Aesthetic Objective

CU Colour Units (referenced against a platinum cobalt standard)

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

NTU Nephelometric Turbidity Units
OG Operational Guideline (treated water)
pH units pH < 7 = acidic, ph > 7 = basic $\mu S/cm$ Microsiemens per centimetre
ASTM ASTM International Test Methods

EPA United States Environmental Protection Agency Test Methods

SM Standard Methods for the Examination of Water and Wastewater, American Public Health Association



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER REPORTED 24B0959

D 2024-02-15 13:59

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed. The quality control (QC) data is available upon request

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do <u>not</u> take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager:bwhitehead@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.



CERTIFICATE OF ANALYSIS

Penticton, City of - DW & STP **REPORTED TO**

You know that the sample you collected after

snowshoeing to site, digging 5 meters, and

racing to get it on a plane so you can submit it

to the lab for time sensitive results needed to

make important and expensive decisions

(whew) is VERY important. We know that too.

171 Main Street

PENTICTON, BC V2A 5A9

ATTENTION Alistair Wardlaw **WORK ORDER** 24B1778

PO NUMBER

2024-02-14 10:50 / 8.7°C **RECEIVED / TEMP REPORTED** 2024-02-22 16:25 **PROJECT Quarterly Samples**

OPR178-025 B1122 **PROJECT INFO COC NUMBER**

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks

We've Got Chemistry

It's simple. We figure the more you working enjoy with fun and our engaged team the more members; likely you are to give us continued opportunities to support you.

Ahead of the Curve

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If you have any questions or concerns, please contact me at bwhitehead@caro.ca

Authorized By:

Brent Whitehead Account Manager What



	Penticton, City of - DW Quarterly Samples	& STP			WORK ORDER REPORTED	24B1778 2024-02-2	2 16:25
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
Okanagan lake Sam	ple Tap (24B1778-01)	Matrix: Water	Sampled: 2024-02-	14 06:20			
Anions							
Chloride		6.87	AO ≤ 250	0.10	mg/L	2024-02-16	
Fluoride		0.12	MAC = 1.5	0.10	mg/L	2024-02-16	
Nitrate (as N)		0.054	MAC = 10	0.010	mg/L	2024-02-16	
Nitrite (as N)		< 0.010	MAC = 1	0.010	mg/L	2024-02-16	
Sulfate		32.9	AO ≤ 500		mg/L	2024-02-16	
Calculated Parameter	s						
Hardness, Total (as 0	CaCO3)	128	None Required	0.500	mg/L	N/A	
Langelier Index		-0.4	N/A	-5.0		2024-02-22	CT6
Nitrogen, Organic		0.169	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolve	ed	172	AO ≤ 500	1.00	mg/L	N/A	
General Parameters							
Alkalinity, Total (as C	aCO3)	118	N/A	1.0	mg/L	2024-02-17	
Alkalinity, Phenolphth	<u> </u>	< 1.0	N/A		mg/L	2024-02-17	
Alkalinity, Bicarbonat		118	N/A	1.0		2024-02-17	
Alkalinity, Carbonate		< 1.0	N/A	1.0		2024-02-17	
Alkalinity, Hydroxide		< 1.0	N/A		mg/L	2024-02-17	
Ammonia, Total (as N	,	< 0.050	None Required	0.050		2024-02-17	
Carbon, Total Organi	•	4.53	 N/A	0.50		2024-02-16	
Colour, True		< 5.0	AO ≤ 15	5.0		2024-02-17	
Conductivity (EC)		301	N/A	2.0	μS/cm	2024-02-17	
Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	·	2024-02-20	
Nitrogen, Total Kjelda	ahl	0.169	N/A	0.050		2024-02-21	
pH		7.55	7.0-10.5		pH units	2024-02-17	HT2
Phosphorus, Total (a	s P)	0.0051	N/A	0.0050	•	2024-02-21	
Sulfide, Total	,	< 0.020	AO ≤ 0.05	0.020		2024-02-20	
Temperature, at pH		20.5	N/A		°C	2024-02-17	HT2
Turbidity		0.20	OG < 1	0.10	NTU	2024-02-16	
UV Transmittance @	254 nm - Unfiltered	86.9	N/A	0.10	% T	2024-02-17	
Total Metals							
Aluminum, total		< 0.0050	OG < 0.1	0.0050	mg/L	2024-02-21	
Antimony, total		< 0.00020	MAC = 0.006	0.00020		2024-02-21	
Arsenic, total		< 0.00050	MAC = 0.01	0.00050		2024-02-21	
Barium, total		0.0220	MAC = 2	0.0050		2024-02-21	
Boron, total		< 0.0500	MAC = 5	0.0500		2024-02-21	
Cadmium, total		< 0.000010	MAC = 0.007	0.000010		2024-02-21	
Calcium, total		35.6	None Required		mg/L	2024-02-21	
Chromium, total		< 0.00050	MAC = 0.05	0.00050		2024-02-21	
Cobalt, total		< 0.00010	N/A	0.00010		2024-02-21	
Copper, total		0.00293	MAC = 2	0.00040		2024-02-21	
Iron, total		< 0.010	AO ≤ 0.3	0.010		2024-02-21	
Lead, total		< 0.00020	MAC = 0.005	0.00020		2024-02-21	



REPORTED TO	Penticton, City of - DW & STP	WORK ORDER	24B1778
PROJECT	Quarterly Samples	REPORTED	2024-02-22 16:25

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Okanagan lake Sample Tap (24B1778-01) Matrix: Water	Sampled: 2024-02-	14 06:20, Coı	ntinued		
Total Metals, Continued						
Magnesium, total	9.49	None Required	0.010	mg/L	2024-02-21	
Manganese, total	< 0.00080	MAC = 0.12	0.00020	mg/L	2024-02-21	RA3
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-02-21	
Molybdenum, total	0.00338	N/A	0.00010	mg/L	2024-02-21	
Nickel, total	0.00056	N/A	0.00040	mg/L	2024-02-21	
Potassium, total	2.52	N/A	0.10	mg/L	2024-02-21	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-02-21	
Sodium, total	11.9	AO ≤ 200	0.10	mg/L	2024-02-21	
Strontium, total	0.287	MAC = 7	0.0010	mg/L	2024-02-21	
Uranium, total	0.00228	MAC = 0.02	0.000020	mg/L	2024-02-21	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-02-21	
Penticton Creek Sample Tap (24B1778-0	2) Matrix: Water	Sampled: 2024-02	-14 06:25			
Anions Chloride	0.37	AO ≤ 250	0.10	mg/L	2024-02-16	
Fluoride	< 0.10	MAC = 1.5		mg/L	2024-02-16	
Nitrate (as N)	< 0.010	MAC = 1.5	0.010		2024-02-16	
Nitrite (as N)	< 0.010	MAC = 1	0.010		2024-02-16	
Sulfate	1.7	AO ≤ 500		mg/L	2024-02-16	
				3 /-		
Calculated Parameters			0.500	,,		
Hardness, Total (as CaCO3)	16.6	None Required	0.500	mg/L	N/A	
Langelier Index	-3.3	N/A	-5.0		2024-02-21	CT6
Nitrogen, Organic	0.205	N/A	0.0500		N/A	
Solids, Total Dissolved	20.1	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	14.8	N/A	1.0	mg/L	2024-02-17	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-02-17	
Alkalinity, Bicarbonate (as CaCO3)	14.8	N/A	1.0	mg/L	2024-02-17	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-02-17	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-02-17	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2024-02-17	
Carbon, Total Organic	6.43	N/A	0.50	mg/L	2024-02-16	
Colour, True	42	AO ≤ 15		CU	2024-02-17	
Conductivity (EC)	43.3	N/A	2.0	μS/cm	2024-02-17	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020		2024-02-20	
Nitrogen, Total Kjeldahl	0.205	N/A	0.050		2024-02-21	
рН	6.33	7.0-10.5	0.10	pH units	2024-02-17	HT2
Phosphorus, Total (as P)	0.0102	N/A	0.0050		2024-02-21	
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020		2024-02-20	
Temperature, at pH	21.2	N/A		°C	2024-02-17	HT2



REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER REPORTED 24B1778

RTED 2024-02-22 16:25

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Penticton Creek Sample Tap (24B1778-02	2) Matrix: Water	Sampled: 2024-02	-14 06:25, Co	ontinued		
General Parameters, Continued						
Turbidity	1.52	OG < 1	0.10	NTU	2024-02-16	
UV Transmittance @ 254 nm - Unfiltered	54.3	N/A	0.10	% T	2024-02-17	
Total Metals						
Aluminum, total	0.153	OG < 0.1	0.0050	mg/L	2024-02-21	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-02-21	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-02-21	
Barium, total	0.0065	MAC = 2	0.0050	mg/L	2024-02-21	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-02-21	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-02-21	
Calcium, total	4.57	None Required	0.20	mg/L	2024-02-21	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-02-21	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-02-21	
Copper, total	0.00206	MAC = 2	0.00040	mg/L	2024-02-21	
Iron, total	0.343	AO ≤ 0.3	0.010	mg/L	2024-02-21	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-02-21	
Magnesium, total	1.24	None Required	0.010	mg/L	2024-02-21	
Manganese, total	0.00567	MAC = 0.12	0.00020	mg/L	2024-02-21	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-02-21	
Molybdenum, total	0.00056	N/A	0.00010	mg/L	2024-02-21	
Nickel, total	0.00044	N/A	0.00040	mg/L	2024-02-21	
Potassium, total	0.54	N/A	0.10	mg/L	2024-02-21	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-02-21	
Sodium, total	2.61	AO ≤ 200	0.10	mg/L	2024-02-21	
Strontium, total	0.0503	MAC = 7	0.0010	mg/L	2024-02-21	
Uranium, total	0.000612	MAC = 0.02	0.000020	mg/L	2024-02-21	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-02-21	

Sample Qualifiers:

RA3

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.

The Reporting Limit has been raised due to comparable level detected in the blank(s).



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER REPORTED 24B1778 2024-02-22 16:25

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH3 G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO2 Detection	✓	Kelowna
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2021)	Calculation		N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2021)	Block Digestion and Flow Injection Analysis	✓	Kelowna
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Phosphorus, Total in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2021)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Sulfide, Total in Water	SM 4500-S2 D* (2021)	Colorimetry (Methylene Blue)	✓	Edmonton
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Transmittance at 254 nm - Unfiltered in Water	SM 5910 B* (2021)	Ultraviolet Absorption	✓	Kelowna
Turbidity in Water	SM 2130 B (2020)	Nephelometry	✓	Kelowna

Glossary of Terms:

RL Reporting Limit (default) % T Percent Transmittance

Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors

°C Degrees Celcius AO Aesthetic Objective

CU Colour Units (referenced against a platinum cobalt standard)

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

NTU Nephelometric Turbidity Units
OG Operational Guideline (treated water)
pH units pH < 7 = acidic, ph > 7 = basic $\mu S/cm$ Microsiemens per centimetre
ASTM ASTM International Test Methods

EPA United States Environmental Protection Agency Test Methods

SM Standard Methods for the Examination of Water and Wastewater, American Public Health Association



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER
REPORTED

24B1778

D 2024-02-22 16:25

General Comments:

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Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do <u>not</u> take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager:bwhitehead@caro.ca

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CERTIFICATE OF ANALYSIS

Penticton, City of - DW & STP **REPORTED TO**

171 Main Street

PENTICTON, BC V2A 5A9

ATTENTION Alistair Wardlaw **WORK ORDER** 24E3859

PO NUMBER

2024-05-29 10:24 / 10.9°C **RECEIVED / TEMP REPORTED** 2024-06-17 16:50 **PROJECT Quarterly Samples**

OPR178-025 B135507 **PROJECT INFO COC NUMBER**

Introduction:

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Big Picture Sidekicks



We've Got Chemistry



Ahead of the Curve



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

It's simple. We figure the more you working enjoy with fun and our engaged team the more members; likely you are to give us continued opportunities to support you.

Through research, regulation and instrumentation, knowledge, are your analytical centre the knowledge technical you BEFORE you need it, so you can stay up to date and in the know.

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If you have any questions or concerns, please contact me at bwhitehead@caro.ca

Authorized By:

Brent Whitehead Account Manager What

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REPORTED TO Penticton, City of - Department of the Project P	W & STP			WORK ORDER REPORTED	24E3859 2024-06-1	7 16:50
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
PRV Station (24E3859-01) Matrix: Wat	ter Sampled: 2024-	05-28 11:20				
Anions						
Chloride	9.77	AO ≤ 250	0.10	mg/L	2024-05-31	
Fluoride	0.15	MAC = 1.5		mg/L	2024-05-31	
Nitrate (as N)	0.071	MAC = 10	0.010		2024-05-31	
Nitrite (as N)	< 0.010	MAC = 1	0.010		2024-05-31	
Sulfate	27.1	AO ≤ 500		mg/L	2024-05-31	
Calculated Parameters						
Total Trihalomethanes	0.0398	MAC = 0.1	0.00400	mg/L	N/A	
Hardness, Total (as CaCO3)	119	None Required	0.500	mg/L	N/A	
Langelier Index	-0.8	N/A	-5.0		2024-06-06	CT6
Nitrogen, Organic	0.0940	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolved	158	AO ≤ 500		mg/L	N/A	
General Parameters						
Carbon, Total Organic	3.94	N/A	0.500	ma/l	2024-06-13	
Alkalinity, Total (as CaCO3)	104	N/A		mg/L	2024-06-04	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2024-06-04	
Alkalinity, Bicarbonate (as CaCO3)	104	N/A		mg/L	2024-06-04	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2024-06-04	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2024-06-04	
Ammonia, Total (as N)	< 0.050	None Required	0.050		2024-05-31	
Colour, True	< 5.0	AO ≤ 15		CU	2024-05-31	
Conductivity (EC)	304	N/A		μS/cm	2024-06-04	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	·	2024-06-04	
Nitrogen, Total Kjeldahl	0.094	N/A	0.0020		2024-06-03	
pH	7.33	7.0-10.5		pH units	2024-06-04	HT2
Phosphorus, Total (as P)	< 0.0050	N/A	0.0050	•	2024-05-31	1112
Sulfide, Total	< 0.020	AO ≤ 0.05	0.0030		2024-03-31	
Temperature, at pH	19.7	N/A	0.020	°C	2024-06-04	HT2
Turbidity	0.76	OG < 1	0.10	NTU	2024-00-04	1112
UV Transmittance @ 254 nm - Unfiltered	93.5	N/A	0.10		2024-03-30	HT1
	93.5	IN/A	0.10	70 1	2024-00-03	пп
Haloacetic Acids	z 0 0000	N1/A	0.0000	/I	2024 02 24	
Monochloroacetic Acid	< 0.0020	N/A	0.0020		2024-06-04	
Monobromoacetic Acid	< 0.0020	N/A	0.0020		2024-06-04	
Dichloroacetic Acid	0.0113	N/A	0.0020		2024-06-04	
Trichloroacetic Acid	0.0106	N/A	0.0020		2024-06-04	
Dibromoacetic Acid	< 0.0020	N/A	0.0020		2024-06-04	
Total Haloacetic Acids (HAA5)	0.0219	MAC = 0.08	0.00200		N/A	
Surrogate: 2-Bromopropionic Acid	80		70-130	%	2024-06-04	
Total Metals						
Aluminum, total	0.0972	OG < 0.1	0.0050	mg/L	2024-06-04	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-06-04	



REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER REPORTED 24E3859

PORTED 2024-06-17 16:50

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
PRV Station (24E3859-01) Matrix: Wa	nter Sampled: 2024-	-05-28 11:20, Contin	ued			
Total Metals, Continued						
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-06-04	
Barium, total	0.0227	MAC = 2	0.0050	mg/L	2024-06-04	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-06-04	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-06-04	
Calcium, total	32.0	None Required	0.20	mg/L	2024-06-04	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-06-04	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-06-04	
Copper, total	0.00058	MAC = 2	0.00040	mg/L	2024-06-04	
Iron, total	0.010	AO ≤ 0.3	0.010	mg/L	2024-06-04	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-06-04	
Magnesium, total	9.41	None Required	0.010	mg/L	2024-06-04	
Manganese, total	0.00970	MAC = 0.12	0.00020	mg/L	2024-06-04	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-06-03	
Molybdenum, total	0.00307	N/A	0.00010	mg/L	2024-06-04	
Nickel, total	0.00044	N/A	0.00040	mg/L	2024-06-04	
Potassium, total	2.49	N/A	0.10	mg/L	2024-06-04	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-06-04	
Sodium, total	14.0	AO ≤ 200	0.10	mg/L	2024-06-04	
Strontium, total	0.276	MAC = 7	0.0010	mg/L	2024-06-04	
Uranium, total	0.000172	MAC = 0.02	0.000020	mg/L	2024-06-04	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-06-04	
/olatile Organic Compounds (VOC)						
Bromodichloromethane	0.0035	N/A	0.0010	mg/L	2024-06-03	
Bromoform	< 0.0010	N/A	0.0010		2024-06-03	
Chloroform	0.0363	N/A	0.0010	mg/L	2024-06-03	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-06-03	
Surrogate: Toluene-d8	125		70-130		2024-06-03	
Surrogate: 4-Bromofluorobenzene	94		70-130	%	2024-06-03	

Anions						
Chloride	9.37	AO ≤ 250	0.10	mg/L	2024-05-31	
Fluoride	0.15	MAC = 1.5	0.10	mg/L	2024-05-31	
Nitrate (as N)	0.063	MAC = 10	0.010	mg/L	2024-05-31	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2024-05-31	
Sulfate	26.5	AO ≤ 500	1.0	mg/L	2024-05-31	
Calculated Parameters						
Hardness, Total (as CaCO3)	118	None Required	0.500	mg/L	N/A	
Langelier Index	-0.7	N/A	- 5.0		2024-06-06	CT6
Nitrogen, Organic	0.0770	N/A	0.0500	mg/L	N/A	



REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER REPORTED 24E3859 2024-06-17 16:50

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier

Allalyte	Result	Guideillie	IXE.	Offics	Allalyzeu	Qualific
Wiltse Sample Stn (24E3859-02) Matrix:	Water Sampled	: 2024-05-28 10:30,	Continued			
Calculated Parameters, Continued						
Solids, Total Dissolved	156	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Carbon, Total Organic	4.03	N/A	0.500	ma/l	2024-06-13	
Alkalinity, Total (as CaCO3)	104	N/A		mg/L	2024-06-04	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2024-06-04	
Alkalinity, Bicarbonate (as CaCO3)	104	N/A		mg/L	2024-06-04	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2024-06-04	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2024-06-04	
Ammonia, Total (as N)	0.052	None Required	0.050		2024-05-31	
Colour, True	< 5.0	AO ≤ 15		CU	2024-05-31	
Conductivity (EC)	279	N/A		μS/cm	2024-06-04	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	•	2024-06-04	
Nitrogen, Total Kjeldahl	0.129	N/A	0.050		2024-06-03	
Hq	7.34	7.0-10.5		pH units	2024-06-04	HT2
Phosphorus, Total (as P)	< 0.0050	N/A	0.0050	•	2024-05-31	
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020		2024-06-03	
Temperature, at pH	20.0	N/A		°C	2024-06-04	HT2
Turbidity	0.71	OG < 1	0.10	NTU	2024-05-30	
UV Transmittance @ 254 nm - Unfiltered	93.7	N/A	0.10	% T	2024-06-03	HT1
Aluminum, total Antimony, total	0.0155 < 0.00020	OG < 0.1 MAC = 0.006	0.0050 0.00020		2024-06-05 2024-06-05	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-06-05	
Barium, total	0.0211	MAC = 2	0.0050	mg/L	2024-06-05	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-06-05	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-06-05	
Calcium, total	31.7	None Required	0.20	mg/L	2024-06-05	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-06-05	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-06-05	
Copper, total	0.0110	MAC = 2	0.00040	mg/L	2024-06-05	
Iron, total	0.022	AO ≤ 0.3	0.010	mg/L	2024-06-05	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-06-05	
Magnesium, total	9.42	None Required	0.010	mg/L	2024-06-05	
Manganese, total	0.00093	MAC = 0.12	0.00020	mg/L	2024-06-05	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-06-03	
Molybdenum, total	0.00325	N/A	0.00010		2024-06-05	
Nickel, total	0.00043	N/A	0.00040	mg/L	2024-06-05	
Potassium, total	2.37	N/A		mg/L	2024-06-05	
Selenium, total	< 0.00050	MAC = 0.05	0.00050		2024-06-05	
Sodium, total	13.3	AO ≤ 200		mg/L	2024-06-05	
Strontium, total	0.272	MAC = 7	0.0010		2024-06-05	
Uranium, total	0.000172	MAC = 0.02	0.000020	mg/L	2024-06- <u>05</u>	Pane 4 c



REPORTED TO PROJECT	Penticton, City of - DW & Quarterly Samples	STP			WORK ORDER REPORTED	24E3859 2024-06-1	7 16:50
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifie
Wiltse Sample St	n (24E3859-02) Matrix: W	/ater Sampled:	2024-05-28 10:30,	Continued			
Total Metals, Conti	nued						
Zinc, total		< 0.0040	AO ≤ 5	0.0040	mg/L	2024-06-05	
Smythe Dr. Samp	ole Stn (24E3859-03) Matr	rix: Water Sam _l	pled: 2024-05-28 10	0:55			
Calculated Parame	eters						
Total Trihalometha	anes	0.0635	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids							
Monochloroacetic	Acid	< 0.0020	N/A	0.0020	ma/l	2024-06-04	
Monobromoacetic		< 0.0020	N/A	0.0020		2024-06-04	
Dichloroacetic Aci		0.0166	N/A	0.0020		2024-06-04	
Trichloroacetic Ac		0.0166	N/A	0.0020		2024-06-04	
Dibromoacetic Ac		< 0.0020	N/A	0.0020		2024-06-04	
Total Haloacetic A		0.0332	MAC = 0.08	0.00200		N/A	
Surrogate: 2-Bron	, ,	82		70-130		2024-06-04	
Valatila Ormania Ci	omnoundo (MOC)						
Volatile Organic Co							
Bromodichlorome	thane	0.0061	N/A	0.0010		2024-06-03	
Bromoform		< 0.0010	N/A	0.0010		2024-06-03	
Chloroform		0.0574	N/A	0.0010		2024-06-03	
Dibromochlorome		< 0.0010	N/A	0.0010		2024-06-03	
Surrogate: Toluen Surrogate: 4-Bron		125 101		70-130 70-130	%	2024-06-03	
Naramata Rd Sar	mple Stn (24E3859-04) Ma	atrix: Water Sa	mpled: 2024-05-28	09:00			
Calculated Parame							
Total Trihalometha	ines	0.0859	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids							
Monochloroacetic	Acid	< 0.0020	N/A	0.0020	mg/L	2024-06-04	
Monobromoacetic	Acid	< 0.0020	N/A	0.0020	mg/L	2024-06-04	
Dichloroacetic Aci	d	0.0235	N/A	0.0020	mg/L	2024-06-04	
Trichloroacetic Ac	id	0.0201	N/A	0.0020	mg/L	2024-06-04	
Dibromoacetic Ac	id	< 0.0020	N/A	0.0020	mg/L	2024-06-04	
Total Haloacetic A	cids (HAA5)	0.0436	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bron	nopropionic Acid	74		70-130	%	2024-06-04	
	ompounds (VOC)						
Volatile Organic Co			N/A	0.0010	mg/L	2024-06-03	
Volatile Organic Co	thane	0.0078					
	thane	< 0.0078	N/A	0.0010		2024-06-03	
Bromodichlorome Bromoform Chloroform				0.0010 0.0010		2024-06-03 2024-06-03	
Bromodichlorome Bromoform		< 0.0010	N/A		mg/L		



REPORTED TO PROJECT	Penticton, City of - DW 8 Quarterly Samples	& STP			WORK ORDER REPORTED	24E3859 2024-06-1	7 16:50
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifie
Naramata Rd San	nple Stn (24E3859-04) M	atrix: Water Sa	mpled: 2024-05-28	09:00, Conti	nued		
Volatile Organic Co	ompounds (VOC), Continued	1					
Surrogate: 4-Brom	nofluorobenzene	106		70-130	%	2024-06-03	
Randolph Rd Sar	mple Stn (24E3859-05) M	atrix: Water Sa	mpled: 2024-05-28	09:20			
Calculated Parame	ters						
Total Trihalometha	nes	0.0595	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids							
Monochloroacetic	Acid	< 0.0020	N/A	0.0020	ma/l	2024-06-04	
Monobromoacetic		< 0.0020	N/A	0.0020		2024-06-04	
Dichloroacetic Acid	d	0.0168	N/A	0.0020		2024-06-04	
Trichloroacetic Aci	id	0.0167	N/A	0.0020		2024-06-04	
Dibromoacetic Aci	d	< 0.0020	N/A	0.0020	mg/L	2024-06-04	
Total Haloacetic A	cids (HAA5)	0.0335	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Brom	nopropionic Acid	80		70-130	%	2024-06-04	
Volatile Organic Co	ompounds (VOC)						
Bromodichloromet		0.0057	N/A	0.0010	ma/l	2024-06-03	
Bromoform	ilialic .	< 0.0037	N/A	0.0010		2024-06-03	
Chloroform		0.0538	N/A	0.0010		2024-06-03	
Dibromochloromet	thane	< 0.0010	N/A	0.0010		2024-06-03	
Surrogate: Toluene		120		70-130	%	2024-06-03	
Surrogate: 4-Brom		97		70-130	%	2024-06-03	
Okanagan Lake S Anions	Sample Tap (24E3859-06)	Matrix: Water		28 11:40			
					/I		
Chloride		5.61	AO ≤ 250	0.10		2024-05-31	
Fluoride		0.16	MAC = 1.5	0.10	mg/L	2024-05-31	
Fluoride Nitrate (as N)		0.16 0.093	MAC = 1.5 MAC = 10	0.10 0.010	mg/L mg/L	2024-05-31 2024-05-31	
Fluoride Nitrate (as N) Nitrite (as N)		0.16 0.093 < 0.010	MAC = 1.5 MAC = 10 MAC = 1	0.10 0.010 0.010	mg/L mg/L mg/L	2024-05-31 2024-05-31 2024-05-31	
Fluoride Nitrate (as N) Nitrite (as N) Sulfate	tore	0.16 0.093	MAC = 1.5 MAC = 10	0.10 0.010 0.010	mg/L mg/L	2024-05-31 2024-05-31	
Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parame		0.16 0.093 < 0.010 28.1	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500	0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2024-05-31 2024-05-31 2024-05-31 2024-05-31	
Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parame Hardness, Total (a		0.16 0.093 < 0.010 28.1	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required	0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2024-05-31 2024-05-31 2024-05-31 2024-05-31 N/A	CTG
Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parame Hardness, Total (a Langelier Index	s CaCO3)	0.16 0.093 < 0.010 28.1 124 -0.7	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A	0.10 0.010 0.010 1.0 0.500	mg/L mg/L mg/L mg/L mg/L	2024-05-31 2024-05-31 2024-05-31 2024-05-31 N/A 2024-06-06	CT6
Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parame Hardness, Total (a Langelier Index Nitrogen, Organic	is CaCO3)	0.16 0.093 < 0.010 28.1 124 -0.7 0.190	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A N/A	0.10 0.010 0.010 1.0 0.500 -5.0 0.0500	mg/L mg/L mg/L mg/L mg/L	2024-05-31 2024-05-31 2024-05-31 2024-05-31 N/A 2024-06-06 N/A	CT6
Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parame Hardness, Total (a Langelier Index	s CaCO3)	0.16 0.093 < 0.010 28.1 124 -0.7	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A	0.10 0.010 0.010 1.0 0.500 -5.0 0.0500	mg/L mg/L mg/L mg/L mg/L	2024-05-31 2024-05-31 2024-05-31 2024-05-31 N/A 2024-06-06	CT6
Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parame Hardness, Total (a Langelier Index Nitrogen, Organic Solids, Total Disso	s CaCO3)	0.16 0.093 < 0.010 28.1 124 -0.7 0.190 160	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A N/A AO ≤ 500	0.10 0.010 0.010 1.0 0.500 -5.0 0.0500 1.00	mg/L mg/L mg/L mg/L mg/L mg/L	2024-05-31 2024-05-31 2024-05-31 2024-05-31 N/A 2024-06-06 N/A N/A	CT6
Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parame Hardness, Total (a Langelier Index Nitrogen, Organic Solids, Total Disso General Parameter: Carbon, Total Organic	olved s anic	0.16 0.093 < 0.010 28.1 124 -0.7 0.190 160	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A N/A AO ≤ 500	0.10 0.010 1.0 0.500 -5.0 0.0500 1.00	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-05-31 2024-05-31 2024-05-31 2024-05-31 N/A 2024-06-06 N/A N/A	CT6
Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parame Hardness, Total (a Langelier Index Nitrogen, Organic Solids, Total Disso General Parameters Carbon, Total Organ Alkalinity, Total (as	olved s anic	0.16 0.093 < 0.010 28.1 124 -0.7 0.190 160	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A N/A AO ≤ 500	0.10 0.010 0.010 1.0 0.500 -5.0 0.0500 1.00 0.500 1.00	mg/L mg/L mg/L mg/L mg/L mg/L	2024-05-31 2024-05-31 2024-05-31 2024-05-31 N/A 2024-06-06 N/A N/A	CT6



REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER REPORTED 24E3859

PORTED 2024-06-17 16:50

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Okanagan Lake Sample Tap (24E3859-06)	Matrix: Water	Sampled: 2024-05-	28 11:40, Co	ntinued		
General Parameters, Continued						
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-06-04	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2024-06-04	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2024-05-31	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2024-05-31	
Conductivity (EC)	307	N/A	2.0	μS/cm	2024-06-04	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-06-04	
Nitrogen, Total Kjeldahl	0.190	N/A	0.050		2024-06-03	
pH	7.33	7.0-10.5	0.10	pH units	2024-06-04	HT2
Phosphorus, Total (as P)	0.0076	N/A	0.0050	mg/L	2024-05-31	
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2024-06-03	
Temperature, at pH	20.3	N/A		°C	2024-06-04	HT2
Turbidity	0.46	OG < 1	0.10	NTU	2024-05-30	
UV Transmittance @ 254 nm - Unfiltered	87.5	N/A	0.10	% T	2024-06-03	HT1
Total Metals						
Aluminum, total	0.0075	OG < 0.1	0.0050	mg/L	2024-06-04	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-06-04	
Arsenic, total	0.00050	MAC = 0.01	0.00050	mg/L	2024-06-04	
Barium, total	0.0231	MAC = 2	0.0050	mg/L	2024-06-04	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-06-04	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-06-04	
Calcium, total	33.7	None Required	0.20	mg/L	2024-06-04	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-06-04	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-06-04	
Copper, total	0.00365	MAC = 2	0.00040	mg/L	2024-06-04	
Iron, total	0.011	AO ≤ 0.3	0.010	mg/L	2024-06-04	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-06-04	
Magnesium, total	9.72	None Required	0.010	mg/L	2024-06-04	
Manganese, total	0.00155	MAC = 0.12	0.00020	mg/L	2024-06-04	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-06-03	
Molybdenum, total	0.00344	N/A	0.00010	mg/L	2024-06-04	
Nickel, total	0.00085	N/A	0.00040	mg/L	2024-06-04	
Potassium, total	2.53	N/A	0.10	mg/L	2024-06-04	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-06-04	
Sodium, total	12.5	AO ≤ 200		mg/L	2024-06-04	
Strontium, total	0.283	MAC = 7	0.0010		2024-06-04	
Uranium, total	0.00258	MAC = 0.02	0.000020		2024-06-04	
Zinc, total	< 0.0040	AO ≤ 5	0.0040		2024-06-04	

Penticton Creek Sample Tap (24E3859-07) | Matrix: Water | Sampled: 2024-05-28 11:35

Anions

Chloride **0.35** AO \leq 250 0.10 mg/L 2024-05-31



REPORTED TO	Penticton, City of - DW & STP	WORK ORDER	24E3859
PROJECT	Quarterly Samples	REPORTED	2024-06-17 16:50

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Penticton Creek Sample Tap (24E3859-07	') Matrix: Water	Sampled: 2024-05	-28 11:35, Co	ontinued		
Anions, Continued						
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2024-05-31	
Nitrate (as N)	< 0.010	MAC = 10	0.010		2024-05-31	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2024-05-31	
Sulfate	< 1.0	AO ≤ 500		mg/L	2024-05-31	
Calculated Parameters						
Hardness, Total (as CaCO3)	8.42	None Required	0.500	ma/L	N/A	
Langelier Index	-4.5	 N/A	-5.0		2024-06-06	СТ6
Nitrogen, Organic	0.292	N/A	0.0500	ma/L	N/A	
Solids, Total Dissolved	6.32	AO ≤ 500		mg/L	N/A	
General Parameters					<u> </u>	
Carbon, Total Organic	13.6	N/A	0.500	ma/l	2024-06-13	
Alkalinity, Total (as CaCO3)	13.6	N/A		mg/L	2024-06-04	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2024-06-04	
Alkalinity, Bicarbonate (as CaCO3)	1.5	N/A		mg/L	2024-06-04	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2024-06-04	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2024-06-04	
Ammonia, Total (as N)	< 0.050	None Required				
Colour, True	× 0.030	AO ≤ 15	0.050	CU	2024-05-31	
Conductivity (EC)	22.8	N/A		μS/cm	2024-06-04	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	•	2024-06-04	
Nitrogen, Total Kjeldahl	0.292	N/A	0.0020		2024-06-03	
	6.42	7.0-10.5		pH units	2024-06-04	HT2
pH		7.0-10.5 N/A		•	2024-05-31	ПІД
Phosphorus, Total (as P)	0.0109	AO ≤ 0.05	0.0050			
Sulfide, Total	< 0.020		0.020	°C	2024-06-03	LITO
Temperature, at pH	20.2	N/A	0.10		2024-06-04	HT2
Turbidity	0.95	OG < 1		NTU	2024-05-30	LITA
UV Transmittance @ 254 nm - Unfiltered	28.2	N/A	0.10	% I	2024-06-03	HT1
Total Metals Aluminum, total	0.411	OG < 0.1	0.0050	ma/l	2024-06-04	
Antimony, total	< 0.00020	MAC = 0.006	0.00020		2024-06-04	
Arsenic, total	< 0.00050	MAC = 0.000	0.00020		2024-06-04	
Barium, total	0.0064	MAC = 2	0.0050		2024-06-04	
Boron, total	< 0.0500	MAC = 5	0.0500		2024-06-04	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010		2024-06-04	
Calcium, total	2.38	None Required		mg/L	2024-06-04	
Chromium, total	0.00056	MAC = 0.05	0.00050		2024-06-04	
Cobalt, total	0.00036	N/A	0.00030		2024-06-04	
Copper, total	0.00289	MAC = 2	0.00010		2024-06-04	
Iron, total	0.00289	AO ≤ 0.3	0.00040		2024-06-04	
Lead, total			0.00020			
·	< 0.00020	MAC = 0.005	0.00020		2024-06-04	
Magnesium, total	0.599	None Required	0.010	ilig/L		Page 8 of



REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER REPORTED 24E3859

2024-06-17 16:50

Analyte	Result	Guideline	RL Un	its Analyzed	Qualifier
Penticton Creek Sample Tap (24	E3859-07) Matrix: Water	Sampled: 2024-05	5-28 11:35, Contir	nued	
Total Metals, Continued					
Manganese, total	0.00377	MAC = 0.12	0.00020 mg/	/L 2024-06-04	
Mercury, total	< 0.000010	MAC = 0.001	0.000010 mg/	/L 2024-06-03	
Molybdenum, total	0.00021	N/A	0.00010 mg/	/L 2024-06-04	
Nickel, total	0.00041	N/A	0.00040 mg/	/L 2024-06-04	
Potassium, total	0.36	N/A	0.10 mg/	/L 2024-06-04	
Selenium, total	< 0.00050	MAC = 0.05	0.00050 mg/	/L 2024-06-04	
Sodium, total	1.72	AO ≤ 200	0.10 mg/	/L 2024-06-04	
Strontium, total	0.0320	MAC = 7	0.0010 mg/	/L 2024-06-04	
Uranium, total	0.000479	MAC = 0.02	0.000020 mg/	/L 2024-06-04	
Zinc, total	< 0.0040	AO ≤ 5	0.0040 mg/	/L 2024-06-04	

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.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER

24E3859

REPORTED 2024-06-17 16:50

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH3 G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Carbon, Total Organic in Water in Water	SM 5310 B* (2022)	Combustion, Infrared CO2 Detection		Sublet
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2021)	Calculation		N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2021)	Block Digestion and Flow Injection Analysis	✓	Kelowna
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Phosphorus, Total in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2021)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Sulfide, Total in Water	SM 4500-S2 D* (2021)	Colorimetry (Methylene Blue)	✓	Edmonton
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Transmittance at 254 nm - Unfiltered in Water	SM 5910 B* (2021)	Ultraviolet Absorption	✓	Kelowna
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond
Turbidity in Water	SM 2130 B (2020)	Nephelometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL Reporting Limit (default) % T Percent Transmittance

Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors

°C Degrees Celcius AO Aesthetic Objective

CU Colour Units (referenced against a platinum cobalt standard)

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

NTU Nephelometric Turbidity Units
OG Operational Guideline (treated water)
pH units pH < 7 = acidic, ph > 7 = basic $\mu S/cm$ Microsiemens per centimetre



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

EPA United States Environmental Protection Agency Test Methods

SM Standard Methods for the Examination of Water and Wastewater, American Public Health Association

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed. The quality control (QC) data is available upon request

WORK ORDER

REPORTED

24E3859

2024-06-17 16:50

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do <u>not</u> take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager:bwhitehead@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.





CERTIFICATE OF ANALYSIS

Penticton, City of - DW & STP **REPORTED TO**

You know that the sample you collected after

snowshoeing to site, digging 5 meters, and

racing to get it on a plane so you can submit it

to the lab for time sensitive results needed to

make important and expensive decisions

(whew) is VERY important. We know that too.

171 Main Street

PENTICTON, BC V2A 5A9

ATTENTION Alistair Wardlaw **WORK ORDER** 24H3271

PO NUMBER

2024-08-26 10:13 / 4.4°C **RECEIVED / TEMP REPORTED** 2024-09-03 11:19 **PROJECT Quarterly Samples**

OPR178-025 B112233 **PROJECT INFO COC NUMBER**

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks

We've Got Chemistry

It's simple. We figure the more you working enjoy with fun and our engaged team the more members; likely you are to give us continued opportunities to support you.

Ahead of the Curve

Through research, regulation and instrumentation, knowledge, are your analytical centre the knowledge technical you BEFORE you need it, so you can stay up to date and in the know.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here: https://www.caro.ca/terms-conditions

If you have any questions or concerns, please contact me at bwhitehead@caro.ca

Authorized By:

Brent Whitehead Account Manager What



REPORTED TO	Penticton,	City of -	DW & S	ťΡ
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PROJECT Quarterly Samples

WORK ORDER REPORTED 24H3271

PORTED 2024-09-03 11:19

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Smythe Dr. (24H3271-01) Matrix: Wate	r Sampled: 2024-0	8-25 06:10				
Calculated Parameters						
Total Trihalomethanes	0.0663	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-08-31	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-08-31	
Dichloroacetic Acid	0.0245	N/A	0.0020	mg/L	2024-08-31	
Trichloroacetic Acid	0.0292	N/A	0.0020	mg/L	2024-08-31	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-08-31	
Total Haloacetic Acids (HAA5)	0.0537	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	105		70-130	%	2024-08-31	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0050	N/A	0.0010	mg/L	2024-08-28	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-08-28	
Chloroform	0.0612	N/A	0.0010	mg/L	2024-08-28	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-08-28	
Surrogate: Toluene-d8	110		70-130	%	2024-08-28	
Surrogate: 4-Bromofluorobenzene	77		70-130	%	2024-08-28	

Naramata Rd Stn (24H3271-02) | Matrix: Water | Sampled: 2024-08-25 06:30

alculated Parameters					
Total Trihalomethanes	0.0952	MAC = 0.1	0.00400	mg/L	N/A
aloacetic Acids					
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-08-31
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-08-31
Dichloroacetic Acid	0.0212	N/A	0.0020	mg/L	2024-08-31
Trichloroacetic Acid	0.0412	N/A	0.0020	mg/L	2024-08-31
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-08-31
Total Haloacetic Acids (HAA5)	0.0625	MAC = 0.08	0.00200	mg/L	N/A
Surrogate: 2-Bromopropionic Acid	106		70-130	%	2024-08-31
olatile Organic Compounds (VOC)					
Bromodichloromethane	0.0068	N/A	0.0010	mg/L	2024-08-28
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-08-28
Chloroform	0.0884	N/A	0.0010	mg/L	2024-08-28
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-08-28
	440		70-130	%	2024-08-28
Surrogate: Toluene-d8	110		70-130	70	2024-00-20

Fairford Bridge Stn (24H3271-03) | Matrix: Water | Sampled: 2024-08-25 10:50



REPORTED TO Penticton, City of - DW Quarterly Samples	•			WORK ORDER REPORTED	24H3271 2024-09-03 11:19	
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Fairford Bridge Stn (24H3271-03) Matrix	ง: Water Sample	d: 2024-08-25 10:50,	Continued			
Anions, Continued						
Chloride	9.70	AO ≤ 250	0.10	mg/L	2024-08-27	
Fluoride	< 0.10	MAC = 1.5		mg/L	2024-08-27	
Nitrate (as N)	0.075	MAC = 10	0.010		2024-08-27	
Nitrite (as N)	< 0.010	MAC = 1	0.010		2024-08-27	
Sulfate	23.9	AO ≤ 500		mg/L	2024-08-27	
Calculated Parameters						
Total Trihalomethanes	0.0528	MAC = 0.1	0.00400	mg/L	N/A	
Hardness, Total (as CaCO3)	101	None Required	0.500	mg/L	N/A	
Langelier Index	-0.1	N/A	-5.0		2024-08-29	СТ6
Nitrogen, Organic	0.131	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolved	137	AO ≤ 500		mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	88.7	N/A	1.0	mg/L	2024-08-28	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2024-08-28	
Alkalinity, Bicarbonate (as CaCO3)	88.7	N/A		mg/L	2024-08-28	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2024-08-28	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2024-08-28	
Ammonia, Total (as N)	< 0.050	None Required	0.050		2024-08-28	
Carbon, Total Organic	2.89	N/A		mg/L	2024-08-28	
Colour, True	< 5.0	AO ≤ 15		CU	2024-08-28	
Conductivity (EC)	264	N/A		μS/cm	2024-08-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	•	2024-08-28	
Nitrogen, Total Kjeldahl	0.131	N/A	0.050		2024-08-29	
рН	8.03	7.0-10.5		pH units	2024-08-28	HT2
Phosphorus, Total (as P)	< 0.0050	N/A	0.0050	•	2024-08-29	1112
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020		2024-08-30	
Temperature, at pH	22.4	N/A	0.020	°C	2024-08-28	HT2
Turbidity	0.10	OG < 1	0.10	NTU	2024-08-27	
UV Transmittance @ 254 nm - Unfiltered	92.9	N/A	0.10		2024-08-26	
Haloacetic Acids		.,,				
Monochloroacetic Acid	< 0.0020	N/A	0.0020	ma/l	2024-08-31	
Monobromoacetic Acid	< 0.0020	N/A	0.0020		2024-08-31	
Dichloroacetic Acid		N/A N/A	0.0020			
Trichloroacetic Acid	0.0197 0.0239	N/A N/A			2024-08-31	
Dibromoacetic Acid	< 0.0239	N/A N/A	0.0020		2024-08-31	
Total Haloacetic Acids (HAA5)	0.0436	MAC = 0.08	0.0020		N/A	
Surrogate: 2-Bromopropionic Acid	109	IVIAC - 0.00	70-130		2024-08-31	
Total Metals	109		70-130	70	2027-00-31	
		00 04	0.0055		0004.00.0=	
Aluminum, total	0.0128	OG < 0.1	0.0050		2024-08-27	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-08-27	



REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER REPORTED 24H3271

EPORTED 2024-09-03 11:19

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Fairford Bridge Stn (24H3271-03) Mat	rix: Water Sample	d: 2024-08-25 10:50	, Continued			
Total Metals, Continued						
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-08-27	
Barium, total	0.0188	MAC = 2	0.0050	mg/L	2024-08-27	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-08-27	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-08-27	
Calcium, total	27.7	None Required	0.20	mg/L	2024-08-27	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-08-27	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-08-27	
Copper, total	0.00156	MAC = 2	0.00040	mg/L	2024-08-27	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2024-08-27	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-08-27	
Magnesium, total	7.63	None Required	0.010	mg/L	2024-08-27	
Manganese, total	0.00110	MAC = 0.12	0.00020	mg/L	2024-08-27	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-08-27	
Molybdenum, total	0.00282	N/A	0.00010	mg/L	2024-08-27	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2024-08-27	
Potassium, total	1.91	N/A	0.10	mg/L	2024-08-27	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-08-27	
Sodium, total	11.9	AO ≤ 200	0.10	mg/L	2024-08-27	
Strontium, total	0.230	MAC = 7	0.0010	mg/L	2024-08-27	
Uranium, total	0.000096	MAC = 0.02	0.000020	mg/L	2024-08-27	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-08-27	
/olatile Organic Compounds (VOC)						
Bromodichloromethane	0.0039	N/A	0.0010	mg/L	2024-08-28	
Bromoform	< 0.0010	N/A	0.0010		2024-08-28	
Chloroform	0.0488	N/A	0.0010	mg/L	2024-08-28	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-08-28	
Surrogate: Toluene-d8	113		70-130	%	2024-08-28	
Surrogate: 4-Bromofluorobenzene	77		70-130		2024-08-28	
PRV Station (24H3271-04) Matrix: Wa	ter Sampled: 2024	-08-25 11:25				
Anions						
Chloride	9.69	AO ≤ 250		mg/L	2024-08-27	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2024-08-27	
A 114 (1110 10	0 0 4 0		0004 00 07	

Calculated Parameters
Total Tribalamathanas

Nitrate (as N)

Nitrite (as N)

Sulfate

Total Trihalomethanes	0.0268	MAC = 0.1	0.00400 mg/L	N/A	
Hardness, Total (as CaCO3)	100	None Required	0.500 mg/L	N/A	
Langelier Index	-0.4	N/A	-5.0	2024-08-29	CT6

MAC = 10

MAC = 1

AO ≤ 500

0.010 mg/L

0.010 mg/L

1.0 mg/L

0.074

24.2

< 0.010

2024-08-27

2024-08-27

2024-08-27



REPORTED TO	Penticton, City of - DW & STP
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PROJECT Quarterly Samples

WORK ORDER REPORTED 24H3271 2024-09-03 11:19

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifi
PRV Station (24H3271-04) Matrix: Water	Sampled: 2024-	-08-25 11:25, Contir	nued			
Calculated Parameters, Continued						
Nitrogen, Organic	0.101	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolved	137	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	87.6	N/A	1.0	mg/L	2024-08-28	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2024-08-28	
Alkalinity, Bicarbonate (as CaCO3)	87.6	N/A		mg/L	2024-08-28	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2024-08-28	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2024-08-28	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2024-08-28	
Carbon, Total Organic	3.32	N/A	0.50	mg/L	2024-08-28	
Colour, True	< 5.0	AO ≤ 15		CU	2024-08-28	
Conductivity (EC)	263	N/A	2.0	μS/cm	2024-08-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-08-28	
Nitrogen, Total Kjeldahl	0.101	N/A	0.050	mg/L	2024-08-29	
pH	7.75	7.0-10.5	0.10	pH units	2024-08-28	HT2
Phosphorus, Total (as P)	< 0.0050	N/A	0.0050	mg/L	2024-08-29	
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2024-08-30	
Temperature, at pH	22.8	N/A		°C	2024-08-28	HT2
Turbidity	< 0.10	OG < 1	0.10	NTU	2024-08-27	
UV Transmittance @ 254 nm - Unfiltered	92.6	N/A	0.10	% T	2024-08-26	
Haloacetic Acids						
	4.0.0000	NI/A	0.0000		2024 00 24	
Monochloroacetic Acid	< 0.0020	N/A	0.0020		2024-08-31	
Monobromoacetic Acid Dichloroacetic Acid	< 0.0020	N/A N/A	0.0020		2024-08-31	
Trichloroacetic Acid	0.0155 0.0183	N/A N/A	0.0020		2024-08-31	
Dibromoacetic Acid	< 0.0020	N/A	0.0020		2024-08-31	
Total Haloacetic Acids (HAA5)	0.0338	MAC = 0.08	0.0020		N/A	
Surrogate: 2-Bromopropionic Acid	101	WAO - 0.00	70-130		2024-08-31	
Total Metals	101		70-130	70	2027 00 07	
Aluminum, total	0.0117	OG < 0.1	0.0050	ma/l	2024-08-27	
Antimony, total	< 0.00020	MAC = 0.006	0.00020		2024-08-27	
Arsenic, total	< 0.00050	MAC = 0.000	0.00050		2024-08-27	
Barium, total	0.0186	MAC = 2	0.0050		2024-08-27	
Boron, total	< 0.0500	MAC = 5	0.0500		2024-08-27	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010		2024-08-27	
Calcium, total	27.6	None Required		mg/L	2024-08-27	
Chromium, total	< 0.00050	MAC = 0.05	0.00050		2024-08-27	
Cobalt, total	< 0.00010	N/A	0.00010		2024-08-27	
Copper, total	0.00266	MAC = 2	0.00040		2024-08-27	
Iron, total	< 0.010	AO ≤ 0.3	0.010		2024-08-27	
Lead, total	0.00042	MAC = 0.005	0.00020		2024-08-27	
·						Page 5



REPORTED TO	Penticton, City of - DW & STP	WORK ORDER	24H3271
PROJECT	Quarterly Samples	REPORTED	2024-09-03 11:19

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
PRV Station (24H3271-04) Matrix: Wat	er Sampled: 2024	-08-25 11:25, Contin	ued			
Total Metals, Continued						
Magnesium, total	7.57	None Required	0.010	mg/L	2024-08-27	
Manganese, total	0.00142	MAC = 0.12	0.00020		2024-08-27	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-08-27	
Molybdenum, total	0.00273	N/A	0.00010	mg/L	2024-08-27	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2024-08-27	
Potassium, total	1.89	N/A	0.10	mg/L	2024-08-27	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-08-27	
Sodium, total	11.9	AO ≤ 200	0.10	mg/L	2024-08-27	
Strontium, total	0.228	MAC = 7	0.0010	mg/L	2024-08-27	
Uranium, total	0.000091	MAC = 0.02	0.000020	mg/L	2024-08-27	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-08-27	
/olatile Organic Compounds (VOC)						
Benzene	< 0.5	MAC = 5	0.5	μg/L	2024-08-28	
Bromodichloromethane	0.0031	N/A	0.0010		2024-08-28	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-08-28	
Chloroform	0.0236	N/A	0.0010		2024-08-28	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-08-28	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	μg/L	2024-08-28	
Methyl tert-butyl ether	< 1.0	AO ≤ 15		μg/L	2024-08-28	
Styrene	< 1.0	N/A		μg/L	2024-08-28	
Toluene	< 1.0	MAC = 60		μg/L	2024-08-28	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	μg/L	2024-08-28	
Surrogate: Toluene-d8	108		70-130	%	2024-08-28	
Surroyate. Toluetie-00	100		70-130			
Surrogate: 4-Bromofluorobenzene	78		70-130	%	2024-08-28	
	78	024-08-25 12:00		%	2024-08-28	
Surrogate: 4-Bromofluorobenzene Okanagan Lake (24H3271-05) Matrix: \	78	024-08-25 12:00 AO ≤ 250	70-130	% mg/L	2024-08-28 2024-08-27	
Surrogate: 4-Bromofluorobenzene Okanagan Lake (24H3271-05) Matrix: N	78 Water Sampled: 2		70-130			
Surrogate: 4-Bromofluorobenzene Okanagan Lake (24H3271-05) Matrix: Nations Chloride	78 Water Sampled: 20 6.09	AO ≤ 250	70-130	mg/L mg/L	2024-08-27	
Surrogate: 4-Bromofluorobenzene Okanagan Lake (24H3271-05) Matrix: Nanions Chloride Fluoride	78 Water Sampled: 20 6.09 < 0.10	AO ≤ 250 MAC = 1.5	70-130 0.10 0.10	mg/L mg/L mg/L	2024-08-27 2024-08-27	
Surrogate: 4-Bromofluorobenzene Okanagan Lake (24H3271-05) Matrix: Nations Chloride Fluoride Nitrate (as N)	78 Water Sampled: 20 6.09 < 0.10 0.087	AO ≤ 250 MAC = 1.5 MAC = 10	0.10 0.10 0.010 0.010	mg/L mg/L mg/L	2024-08-27 2024-08-27 2024-08-27	
Surrogate: 4-Bromofluorobenzene Okanagan Lake (24H3271-05) Matrix: Nanions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	78 Water Sampled: 20 6.09 < 0.10 0.087 < 0.010	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1	0.10 0.10 0.010 0.010	mg/L mg/L mg/L mg/L	2024-08-27 2024-08-27 2024-08-27 2024-08-27	
Surrogate: 4-Bromofluorobenzene Okanagan Lake (24H3271-05) Matrix: Nations Chloride Fluoride Nitrate (as N) Nitrite (as N)	78 Water Sampled: 20 6.09 < 0.10 0.087 < 0.010	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1	0.10 0.10 0.010 0.010	mg/L mg/L mg/L mg/L	2024-08-27 2024-08-27 2024-08-27 2024-08-27	
Surrogate: 4-Bromofluorobenzene Okanagan Lake (24H3271-05) Matrix: Nanions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters	78 Water Sampled: 20 6.09 < 0.10 0.087 < 0.010 29.4	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500	0.10 0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2024-08-27 2024-08-27 2024-08-27 2024-08-27 2024-08-27	CT6
Surrogate: 4-Bromofluorobenzene Okanagan Lake (24H3271-05) Matrix: Nanions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3)	78 Water Sampled: 20 6.09 < 0.10 0.087 < 0.010 29.4	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required	0.10 0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L mg/L	2024-08-27 2024-08-27 2024-08-27 2024-08-27 2024-08-27 N/A	CT6
Surrogate: 4-Bromofluorobenzene Okanagan Lake (24H3271-05) Matrix: Nanions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index	78 Water Sampled: 24 6.09 < 0.10 0.087 < 0.010 29.4 123 -0.1	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A	0.10 0.10 0.010 0.010 1.0 0.500 -5.0 0.0500	mg/L mg/L mg/L mg/L mg/L	2024-08-27 2024-08-27 2024-08-27 2024-08-27 2024-08-27 N/A 2024-08-29	CT6
Surrogate: 4-Bromofluorobenzene Okanagan Lake (24H3271-05) Matrix: Nanions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Nitrogen, Organic Solids, Total Dissolved	78 Water Sampled: 20 6.09 < 0.10 0.087 < 0.010 29.4 123 -0.1 0.123	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A N/A	0.10 0.10 0.010 0.010 1.0 0.500 -5.0 0.0500	mg/L mg/L mg/L mg/L mg/L mg/L	2024-08-27 2024-08-27 2024-08-27 2024-08-27 2024-08-27 N/A 2024-08-29 N/A	CT6
Surrogate: 4-Bromofluorobenzene Dkanagan Lake (24H3271-05) Matrix: Nanions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Nitrogen, Organic	78 Water Sampled: 20 6.09 < 0.10 0.087 < 0.010 29.4 123 -0.1 0.123	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A N/A	0.10 0.10 0.010 0.010 1.0 0.500 -5.0 0.0500 1.00	mg/L mg/L mg/L mg/L mg/L mg/L	2024-08-27 2024-08-27 2024-08-27 2024-08-27 2024-08-27 N/A 2024-08-29 N/A	CT6



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PROJECT Quarterly Samples

WORK ORDER REPORTED 24H3271 2024-09-03 11:19

Alkalinity, Carbonate (as CaCO3) < 1.0	I Qualifier	Analyzed	Units	RL	Guideline	Result	Analyte
Alkalinity, Bicarbonate (as CaCO3) 106 N/A 1.0 mg/L 2024-08-2 Alkalinity, Carbonate (as CaCO3) < 1.0				ntinued)24-08-25 12:00, Co	Vater Sampled: 20	Okanagan Lake (24H3271-05) Matrix: V
Alkalinity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-08-2 Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-08-2 Ammonia, Total (as N) < 0.050 None Required 0.050 mg/L 2024-08-2 Carbon, Total Organic 3.53 N/A 0.50 mg/L 2024-08-2 Colour, True < 5.0 AO ≤ 15 5.0 CU 2024-08-2 Conductivity (EC) 299 N/A 2.0 μ/S/cm 2024-08-2 Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2024-08-2 Nitrogen, Total Kjeldahl 0.123 N/A 0.050 mg/L 2024-08-2 Phosphorus, Total (as P) 7.88 7.0-10.5 0.10 pH units 2024-08-2 Phosphorus, Total (as P) < 0.0050 N/A 0.050 mg/L 2024-08-2 Sulfide, Total < 0.020 AO ≤ 0.05 0.020 mg/L 2024-08-2 Phosphorus, Total (as P) 23.0 N/A 0.020 mg/L 2024-08-2 <							General Parameters, Continued
Alkalinily, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-08-2 Ammonia, Total (as N) < 0.050 None Required 0.050 mg/L 2024-08-2 Carbon, Total Organic 3.53 N/A 0.50 mg/L 2024-08-2 Colour, True < 5.0 AO ≤ 15 5.0 CU 2024-08-2 Conductivity (EC) 299 N/A 2.0 µS/cm 2024-08-2 Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2024-08-2 Nitrogen, Total Kjeldahl 0.123 N/A 0.050 mg/L 2024-08-2 Phosphorus, Total (as P) < 0.0050 N/A 0.050 mg/L 2024-08-2 Phosphorus, Total (as P) < 0.0050 N/A 0.0050 mg/L 2024-08-2 Phosphorus, Total (as P) < 0.0050 N/A 0.0050 mg/L 2024-08-2 Phosphorus, Total (as P) 23.0 N/A 0.0050 mg/L 2024-08-2 Phosphorus, Total (as P) 20.0050 MAC	3	2024-08-28	mg/L	1.0	N/A	106	Alkalinity, Bicarbonate (as CaCO3)
Ammonia, Total (as N) < 0.050 None Required 0.050 mg/L 2024-08-2 Carbon, Total Organic 3.53 N/A 0.50 mg/L 2024-08-2 Colour, True < 5.0	3	2024-08-28	mg/L	1.0	N/A	< 1.0	Alkalinity, Carbonate (as CaCO3)
Carbon, Total Organic 3.53 N/A 0.50 mg/L 2024-08-2 Colour, True < 5.0	3	2024-08-28	mg/L	1.0	N/A	< 1.0	Alkalinity, Hydroxide (as CaCO3)
Colour, True < 5.0 AO ≤ 15 5.0 CU 2024-08-2 Conductivity (EC) 299 N/A 2.0 μS/cm 2024-08-2 Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2024-08-2 Nitrogen, Total Kjeldahl 0.123 N/A 0.050 mg/L 2024-08-2 PH 7.88 7.0-10.5 0.10 p Hnits 2024-08-2 Phosphorus, Total (as P) < 0.0050 N/A 0.0050 mg/L 2024-08-2 Sulfide, Total < 0.020 AO ≤ 0.05 0.020 mg/L 2024-08-2 Turbidity 0.21 OG < 1 0.10 NTU 2024-08-2 UV Transmittance @ 254 nm - Unfiltered 86.4 N/A 0.10 NTU 2024-08-2 Total Metals Aluminum, total < 0.0050 OG < 0.1 0.0050 mg/L 2024-08-2 Aluminum, total < 0.0050 MAC = 0.01 0.0050 mg/L 2024-08-2 Arsenic, total < 0.0020 MAC = 0.001	3	2024-08-28	mg/L	0.050	None Required	< 0.050	Ammonia, Total (as N)
Conductivity (EC) 299 N/A 2.0 μS/cm 2024-08-2 Cyanide, Total < 0.0020	3	2024-08-28	mg/L	0.50	N/A	3.53	Carbon, Total Organic
Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2024-08-2 Nitrogen, Total Kjeldahl 0.123 N/A 0.050 mg/L 2024-08-2 pH 7.88 7.0-10.5 0.10 pH units 2024-08-2 Phosphorus, Total (as P) < 0.0050	3	2024-08-28	CU	5.0	AO ≤ 15	< 5.0	Colour, True
Nitrogen, Total Kjeldahl 0.123 N/A 0.050 mg/L 2024-08-2 pH PH 7.88 7.0-10.5 0.10 pH units 2024-08-2 pH units	3	2024-08-28	μS/cm	2.0	N/A	299	Conductivity (EC)
pH 7.88 7.0-10.5 0.10 pH units 2024-08-2 Phosphorus, Total (as P) < 0.0050	3	2024-08-28	mg/L	0.0020	MAC = 0.2	< 0.0020	Cyanide, Total
pH 7.88 7.0-10.5 0.10 pH units 2024-08-2 Phosphorus, Total (as P) < 0.0050		2024-08-29	mg/L	0.050	N/A	0.123	Nitrogen, Total Kjeldahl
Phosphorus, Total (as P) < 0.0050 N/A 0.0050 mg/L 2024-08-2 Sulfide, Total < 0.020	B HT2	2024-08-28			7.0-10.5	7.88	
Temperature, at pH 23.0 N/A °C 2024-08-2 Turbidity 0.21 OG < 1		2024-08-29	-		N/A	< 0.0050	Phosphorus, Total (as P)
Temperature, at pH 23.0 N/A °C 2024-08-2 Turbidity 0.21 OG < 1	<u> </u>	2024-08-30			AO ≤ 0.05	< 0.020	
Turbidity 0.21 OG < 1 0.10 NTU 2024-08-2 UV Transmittance @ 254 nm - Unfiltered 86.4 N/A 0.10 % T 2024-08-2 Total Metals Aluminum, total < 0.0050	B HT2	2024-08-28			N/A	23.0	Temperature, at pH
UV Transmittance @ 254 nm - Unfiltered 86.4 N/A 0.10 % T 2024-08-2 Total Metals Aluminum, total < 0.0050	7	2024-08-27	NTU	0.10	OG < 1	0.21	
Aluminum, total < 0.0050 OG < 0.1 0.0050 mg/L 2024-08-2 Antimony, total < 0.00020	 3	2024-08-26	% T	0.10	N/A	86.4	UV Transmittance @ 254 nm - Unfiltered
Antimony, total < 0.00020 MAC = 0.006 0.00020 mg/L 2024-08-2 Arsenic, total < 0.00050							Total Metals
Arsenic, total < 0.00050 MAC = 0.01 0.00050 mg/L 2024-08-2 Barium, total 0.0216 MAC = 2 0.0050 mg/L 2024-08-2 Boron, total < 0.0500	7	2024-08-27	mg/L	0.0050	OG < 0.1	< 0.0050	Aluminum, total
Barium, total 0.0216 MAC = 2 0.0050 mg/L 2024-08-2 Boron, total < 0.0500	7	2024-08-27	mg/L	0.00020	MAC = 0.006	< 0.00020	Antimony, total
Boron, total < 0.0500 MAC = 5 0.0500 mg/L 2024-08-2 Cadmium, total < 0.000010	7	2024-08-27	mg/L	0.00050	MAC = 0.01	< 0.00050	Arsenic, total
Cadmium, total < 0.000010 MAC = 0.007 0.000010 mg/L 2024-08-2 Calcium, total 33.9 None Required 0.20 mg/L 2024-08-2 Chromium, total < 0.00050	7	2024-08-27	mg/L	0.0050	MAC = 2	0.0216	Barium, total
Calcium, total 33.9 None Required 0.20 mg/L 2024-08-2 Chromium, total < 0.00050	7	2024-08-27	mg/L	0.0500	MAC = 5	< 0.0500	Boron, total
Chromium, total < 0.00050 MAC = 0.05 0.00050 mg/L 2024-08-2 Cobalt, total < 0.00010	7	2024-08-27	mg/L	0.000010	MAC = 0.007	< 0.000010	Cadmium, total
Cobalt, total < 0.00010 N/A 0.00010 mg/L 2024-08-2 Copper, total 0.00235 MAC = 2 0.00040 mg/L 2024-08-2 Iron, total < 0.010	7	2024-08-27	mg/L	0.20	None Required	33.9	Calcium, total
Copper, total 0.00235 MAC = 2 0.00040 mg/L 2024-08-2 Iron, total < 0.010	7	2024-08-27	mg/L	0.00050	MAC = 0.05	< 0.00050	Chromium, total
Iron, total < 0.010 AO ≤ 0.3 0.010 mg/L 2024-08-2 Lead, total < 0.00020	7	2024-08-27	mg/L	0.00010	N/A	< 0.00010	Cobalt, total
Lead, total < 0.00020 MAC = 0.005 0.00020 mg/L 2024-08-2 Magnesium, total 9.17 None Required 0.010 mg/L 2024-08-2 Manganese, total 0.00092 MAC = 0.12 0.00020 mg/L 2024-08-2 Mercury, total < 0.000010	7	2024-08-27	mg/L	0.00040	MAC = 2	0.00235	Copper, total
Magnesium, total 9.17 None Required 0.010 mg/L 2024-08-2 Manganese, total 0.00092 MAC = 0.12 0.00020 mg/L 2024-08-2 Mercury, total < 0.000010	7	2024-08-27	mg/L	0.010	AO ≤ 0.3	< 0.010	Iron, total
Manganese, total 0.00092 MAC = 0.12 0.00020 mg/L 2024-08-2 Mercury, total < 0.000010	7	2024-08-27	mg/L	0.00020	MAC = 0.005	< 0.00020	Lead, total
Mercury, total < 0.000010 MAC = 0.001 0.000010 mg/L 2024-08-2 Molybdenum, total 0.00339 N/A 0.00010 mg/L 2024-08-2 Nickel, total 0.00056 N/A 0.00040 mg/L 2024-08-2	7	2024-08-27	mg/L	0.010	None Required	9.17	Magnesium, total
Molybdenum, total 0.00339 N/A 0.00010 mg/L 2024-08-2 Nickel, total 0.00056 N/A 0.00040 mg/L 2024-08-2	7	2024-08-27	mg/L	0.00020	MAC = 0.12	0.00092	Manganese, total
Nickel, total 0.00056 N/A 0.00040 mg/L 2024-08-2	7	2024-08-27	mg/L	0.000010	MAC = 0.001	< 0.000010	Mercury, total
	7	2024-08-27	mg/L	0.00010	N/A	0.00339	Molybdenum, total
Potassium total 224 Ν/Δ 0.10 mg/l 2024_08-2	7	2024-08-27	mg/L	0.00040	N/A	0.00056	Nickel, total
1 otacolam, total 2024-00-2	7	2024-08-27	mg/L	0.10	N/A	2.24	Potassium, total
Selenium, total < 0.00050 MAC = 0.05 0.00050 mg/L 2024-08-2	7	2024-08-27	mg/L	0.00050	MAC = 0.05	< 0.00050	Selenium, total
Sodium, total 11.6 AO ≤ 200 0.10 mg/L 2024-08-2	7	2024-08-27	mg/L	0.10	AO ≤ 200	11.6	Sodium, total
	7	2024-08-27	mg/L	0.0010	MAC = 7	0.306	
Uranium, total 0.00227 MAC = 0.02 0.000020 mg/L 2024-08-2	7	2024-08-27	mg/L	0.000020	MAC = 0.02	0.00227	Uranium, total

Penticton Creek (24H3271-06) | Matrix: Water | Sampled: 2024-08-25 13:00

Zinc, total

< 0.0040

2024-08-27

AO ≤ 5

0.0040 mg/L



Penticton, City of - DW & STP

TEST RESULTS

REPORTED TO

Antimony, total

Arsenic, total

Barium, total

Boron, total

Cadmium, total

Chromium, total

Calcium, total

Cobalt, total

Copper, total

Iron, total

Lead, total

PROJECT Quarterly Samples	x 011			REPORTED	2024-09-03 11:19	
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Penticton Creek (24H3271-06) Matrix: Wa	ter Sampled: 2	024-08-25 13:00, Co	ntinued			
Anions						
Chloride	0.26	AO ≤ 250	0.10	mg/L	2024-08-28	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2024-08-28	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2024-08-28	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2024-08-28	
Sulfate	< 1.0	AO ≤ 500	1.0	mg/L	2024-08-28	
Calculated Parameters						
Hardness, Total (as CaCO3)	11.3	None Required	0.500	mg/L	N/A	
Langelier Index	-3.4	N/A	-5.0		2024-08-29	CT6
Nitrogen, Organic	0.198	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolved	9.13	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	4.4	N/A	1.0	mg/L	2024-08-28	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-08-28	
Alkalinity, Bicarbonate (as CaCO3)	4.4	N/A	1.0	mg/L	2024-08-28	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-08-28	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-08-28	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2024-08-28	
Carbon, Total Organic	6.21	N/A	0.50	mg/L	2024-08-28	
Colour, True	40	AO ≤ 15	5.0	CU	2024-08-28	
Conductivity (EC)	31.5	N/A	2.0	μS/cm	2024-08-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-08-28	
Nitrogen, Total Kjeldahl	0.198	N/A	0.050	mg/L	2024-08-29	
рН	6.81	7.0-10.5	0.10	pH units	2024-08-28	HT2
Phosphorus, Total (as P)	0.0105	N/A	0.0050	mg/L	2024-08-29	
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2024-08-30	
Temperature, at pH	23.1	N/A		°C	2024-08-28	HT2
Turbidity	0.82	OG < 1	0.10	NTU	2024-08-27	
UV Transmittance @ 254 nm - Unfiltered	51.7	N/A	0.10	% T	2024-08-26	
Total Metals						
Aluminum, total	0.130	OG < 0.1	0.0050	mg/L	2024-08-27	

2024-08-27

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2024-08-27

24H3271

WORK ORDER

MAC = 0.006

MAC = 0.01

MAC = 2

MAC = 5

MAC = 0.007

None Required

MAC = 0.05

N/A

MAC = 2

AO ≤ 0.3

MAC = 0.005

0.00020 mg/L

0.00050 mg/L

0.0050 mg/L

0.0500 mg/L

0.20 mg/L

0.000010 mg/L

0.00050 mg/L

0.00010 mg/L

0.00040 mg/L

0.00020 mg/L

0.010 mg/L

< 0.00020

< 0.00050

0.0057

3.29

< 0.0500

< 0.000010

< 0.00050

< 0.00010

< 0.00020

0.00188

0.433



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PROJECT Quarterly Samples

WORK ORDER REPORTED

24H3271

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Penticton Creek (24H3271-06)	Matrix: Water Sampled: 2	2024-08-25 13:00, C	ontinued			
Total Metals, Continued						
Magnesium, total	0.737	None Required	0.010	mg/L	2024-08-27	
Manganese, total	0.00844	MAC = 0.12	0.00020	mg/L	2024-08-27	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-08-27	
Molybdenum, total	0.00048	N/A	0.00010	mg/L	2024-08-27	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2024-08-27	
Potassium, total	0.44	N/A	0.10	mg/L	2024-08-27	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-08-27	
Sodium, total	1.75	AO ≤ 200	0.10	mg/L	2024-08-27	
Strontium, total	0.0392	MAC = 7	0.0010	mg/L	2024-08-27	
Uranium, total	0.000324	MAC = 0.02	0.000020	mg/L	2024-08-27	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-08-27	

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.



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PROJECT Quarterly Samples

WORK ORDER

24H3271

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Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH3 G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
BTEX in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO2 Detection	✓	Kelowna
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2021)	Calculation		N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2021)	Block Digestion and Flow Injection Analysis	✓	Kelowna
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Phosphorus, Total in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2021)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Sulfide, Total in Water	SM 4500-S2 D* (2021)	Colorimetry (Methylene Blue)	✓	Edmontor
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Transmittance at 254 nm - Unfiltered in Water	SM 5910 B* (2021)	Ultraviolet Absorption	✓	Kelowna
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond
Turbidity in Water	SM 2130 B (2020)	Nephelometry	✓	Kelowna

Glossary of Terms:

RL Reporting Limit (default) % T Percent Transmittance

Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors

°C Degrees Celcius AO Aesthetic Objective

CU Colour Units (referenced against a platinum cobalt standard)

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

NTU Nephelometric Turbidity Units
OG Operational Guideline (treated water)
pH units pH < 7 = acidic, ph > 7 = basic

μg/L Micrograms per litre

μS/cm Microsiemens per centimetre



REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

ASTM International Test Methods

EPA United States Environmental Protection Agency Test Methods

SM Standard Methods for the Examination of Water and Wastewater, American Public Health Association

General Comments:

ASTM

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed. The quality control (QC) data is available upon request

WORK ORDER

REPORTED

24H3271

2024-09-03 11:19

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do <u>not</u> take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager:bwhitehead@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.





2024-11-20 10:36 / 5.1°C

CERTIFICATE OF ANALYSIS

REPORTED TO Penticton, City of - DW & STP

171 Main Street

PENTICTON, BC V2A 5A9

ATTENTION Alistair Wardlaw WORK ORDER 24K2420

PO NUMBER

PROJECT Quarterly Samples REPORTED 2024-11-28 12:52

PROJECT INFO OPR178-025 COC NUMBER B112233

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



We've Got Chemistry



RECEIVED / TEMP

Ahead of the Curve



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here: https://www.caro.ca/terms-conditions

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui Junior Account Manager Flor

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REPORTED TO	Penticton,	City of -	DW & STP
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PROJECT Quarterly Samples

WORK ORDER REPORTED

24K2420

EPORTED 2024-11-28 12:52

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Smythe Dr. Stn (24K2420-01) Matrix: V	Vater Sampled: 202	24-11-19 11:51				
Calculated Parameters						
Total Trihalomethanes	0.0485	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	0.0035	N/A	0.0020	mg/L	2024-11-26	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-11-26	
Dichloroacetic Acid	0.0236	N/A	0.0020	mg/L	2024-11-26	
Trichloroacetic Acid	0.0309	N/A	0.0020	mg/L	2024-11-26	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-11-26	
Total Haloacetic Acids (HAA5)	0.0580	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	109		70-130	%	2024-11-26	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0034	N/A	0.0010	mg/L	2024-11-27	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-11-27	
Chloroform	0.0452	N/A	0.0010	mg/L	2024-11-27	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-11-27	
Surrogate: Toluene-d8	88		70-130	%	2024-11-27	
Surrogate: 4-Bromofluorobenzene	82		70-130	%	2024-11-27	

Naramata Rd Stn (24K2420-02) | Matrix: Water | Sampled: 2024-11-19 14:10

Calculated Parameters					
Total Trihalomethanes	0.0557	MAC = 0.1	0.00400	mg/L	N/A
laloacetic Acids					
Monochloroacetic Acid	0.0034	N/A	0.0020	mg/L	2024-11-26
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-11-26
Dichloroacetic Acid	0.0233	N/A	0.0020	mg/L	2024-11-26
Trichloroacetic Acid	0.0505	N/A	0.0020	mg/L	2024-11-26
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-11-26
Total Haloacetic Acids (HAA5)	0.0771	MAC = 0.08	0.00200	mg/L	N/A
Surrogate: 2-Bromopropionic Acid	120		70-130	%	2024-11-26
olatile Organic Compounds (VOC)					
Bromodichloromethane	0.0041	N/A	0.0010	mg/L	2024-11-27
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-11-27
Chloroform	0.0516	N/A	0.0010	mg/L	2024-11-27
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-11-27
Surrogate: Toluene-d8	84		70-130	%	2024-11-27
			70-130		2024-11-27

Randolph Rd Stn (24K2420-03) | Matrix: Water | Sampled: 2024-11-19 13:45



REPORTED TO	Penticton, City of - DW & STP	WORK ORDER	24K2420
PROJECT	Quarterly Samples	REPORTED	2024-11-28 12:52

	Result	Guideline	RL	Units	Analyzed	Qualifi
Randolph Rd Stn (24K2420-03) Matrix:	Water Sampled:	2024-11-19 13:45, C	ontinued			
Calculated Parameters, Continued						
Total Trihalomethanes	0.0445	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	0.0029	N/A	0.0020	mg/L	2024-11-26	
Monobromoacetic Acid	0.0021	N/A	0.0020	mg/L	2024-11-26	
Dichloroacetic Acid	0.0246	N/A	0.0020		2024-11-26	
Trichloroacetic Acid	0.0396	N/A	0.0020	mg/L	2024-11-26	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-11-26	
Total Haloacetic Acids (HAA5)	0.0693	MAC = 0.08	0.00200		N/A	
Surrogate: 2-Bromopropionic Acid	113		70-130		2024-11-26	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0036	N/A	0.0010	ma/L	2024-11-27	
Bromoform	< 0.0010	N/A	0.0010		2024-11-27	
Chloroform	0.0410	N/A	0.0010		2024-11-27	
Dibromochloromethane	< 0.0010	N/A	0.0010		2024-11-27	
Surrogate: Toluene-d8	92		70-130		2024-11-27	
Surrogate: 4-Bromofluorobenzene	84		70-130		2024-11-27	
(= 1.20 0 1) 1.10 11 11	or Gampied: 2024	-11-19 14:30				
	or Cumpica. 2024	-11-19 14:30				
Anions Chloride	9.08	AO ≤ 250		mg/L	2024-11-21	
Anions Chloride Fluoride	9.08 0.15	AO ≤ 250 MAC = 1.5	0.10	mg/L	2024-11-21	
Anions Chloride Fluoride Nitrate (as N)	9.08 0.15 0.074	AO ≤ 250 MAC = 1.5 MAC = 10	0.10 0.010	mg/L mg/L	2024-11-21 2024-11-21	
Anions Chloride Fluoride	9.08 0.15	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1	0.10 0.010 0.010	mg/L mg/L mg/L	2024-11-21	
Anions Chloride Fluoride Nitrate (as N)	9.08 0.15 0.074	AO ≤ 250 MAC = 1.5 MAC = 10	0.10 0.010 0.010	mg/L mg/L	2024-11-21 2024-11-21	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	9.08 0.15 0.074 < 0.010	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1	0.10 0.010 0.010	mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	9.08 0.15 0.074 < 0.010	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1	0.10 0.010 0.010	mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters	9.08 0.15 0.074 < 0.010 22.5	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1	0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21	
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes	9.08 0.15 0.074 < 0.010 22.5 0.0298	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500	0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A	СТЕ
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3)	9.08 0.15 0.074 < 0.010 22.5 0.0298 93.7	$AO \le 250$ $MAC = 1.5$ $MAC = 10$ $MAC = 1$ $AO \le 500$ $MAC = 0.1$ $None Required$	0.10 0.010 0.010 1.0 0.00400 0.500	mg/L mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A N/A	CT6
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index	9.08 0.15 0.074 < 0.010 22.5 0.0298 93.7 -0.4	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1 None Required N/A	0.10 0.010 0.010 1.0 0.00400 0.500 -5.0 0.0500	mg/L mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A N/A 2024-11-27	СТб
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index Nitrogen, Organic Solids, Total Dissolved	9.08 0.15 0.074 < 0.010 22.5 0.0298 93.7 -0.4 0.106	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1 None Required N/A N/A	0.10 0.010 0.010 1.0 0.00400 0.500 -5.0 0.0500	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A N/A 2024-11-27 N/A	СТб
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index Nitrogen, Organic Solids, Total Dissolved	9.08 0.15 0.074 < 0.010 22.5 0.0298 93.7 -0.4 0.106	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1 None Required N/A N/A	0.10 0.010 1.0 0.00400 0.500 -5.0 0.0500 1.00	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A N/A 2024-11-27 N/A	CT6
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index Nitrogen, Organic Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3)	9.08 0.15 0.074 < 0.010 22.5 0.0298 93.7 -0.4 0.106 126	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1 None Required N/A N/A AO ≤ 500	0.10 0.010 1.0 0.00400 0.500 -5.0 0.0500 1.00	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A N/A 2024-11-27 N/A N/A	СТб
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index Nitrogen, Organic Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3)	9.08 0.15 0.074 < 0.010 22.5 0.0298 93.7 -0.4 0.106 126	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1 None Required N/A N/A AO ≤ 500	0.10 0.010 1.0 0.00400 0.500 -5.0 0.0500 1.00	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A N/A 2024-11-27 N/A N/A 2024-11-21 2024-11-21	СТЕ
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index Nitrogen, Organic Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3) Alkalinity, Bicarbonate (as CaCO3)	9.08 0.15 0.074 < 0.010 22.5 0.0298 93.7 -0.4 0.106 126	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1 None Required N/A N/A AO ≤ 500 N/A N/A	0.10 0.010 1.0 0.00400 0.500 -5.0 0.0500 1.00 1.0 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A N/A 2024-11-27 N/A N/A 2024-11-21 2024-11-21	СТЕ
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index Nitrogen, Organic Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Carbonate (as CaCO3)	9.08 0.15 0.074 < 0.010 22.5 0.0298 93.7 -0.4 0.106 126 77.8 < 1.0 77.8	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1 None Required N/A N/A AO ≤ 500 N/A N/A N/A N/A N/A	0.10 0.010 1.0 0.00400 0.500 -5.0 0.0500 1.00 1.0 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A N/A 2024-11-27 N/A N/A 2024-11-21 2024-11-21	CTG
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index Nitrogen, Organic Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Carbonate (as CaCO3) Alkalinity, Hydroxide (as CaCO3)	9.08 0.15 0.074 < 0.010 22.5 0.0298 93.7 -0.4 0.106 126 77.8 < 1.0 77.8 < 1.0 < 1.0	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1 None Required N/A N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A N/A N	0.10 0.010 1.0 0.00400 0.500 -5.0 0.0500 1.00 1.0 1.0 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A N/A 2024-11-27 N/A N/A 2024-11-21 2024-11-21 2024-11-21 2024-11-21 2024-11-21	CT6
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index Nitrogen, Organic Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Hydroxide (as CaCO3) Alkalinity, Hydroxide (as CaCO3) Alkalinity, Hydroxide (as CaCO3) Alkalinity, Hydroxide (as CaCO3)	9.08 0.15 0.074 < 0.010 22.5 0.0298 93.7 -0.4 0.106 126 77.8 < 1.0 77.8 < 1.0	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1 None Required N/A N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A N/A N	0.10 0.010 1.0 0.00400 0.500 -5.0 0.0500 1.00 1.0 1.0 1.0 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A N/A 2024-11-27 N/A N/A 2024-11-21 2024-11-21 2024-11-21 2024-11-21 2024-11-21 2024-11-21 2024-11-21	СТб
Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index Nitrogen, Organic Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Carbonate (as CaCO3) Alkalinity, Hydroxide (as CaCO3)	9.08 0.15 0.074 < 0.010 22.5 0.0298 93.7 -0.4 0.106 126 77.8 < 1.0 77.8 < 1.0 < 1.0 < 0.050	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1 None Required N/A N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A N/A N	0.10 0.010 1.0 0.00400 0.500 -5.0 0.0500 1.00 1.0 1.0 1.0 0.0500 0.500 5.0 0.0500	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A N/A 2024-11-27 N/A N/A 2024-11-21 2024-11-21 2024-11-21 2024-11-21 2024-11-21	CT6



REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER REPORTED 24K2420 2024-11-28 12:52

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
PRV Station (24K2420-04) Matrix: Water	Sampled: 2024	-11-19 14:30, Contir	ued			
General Parameters, Continued						
Conductivity (EC)	237	N/A	2.0	μS/cm	2024-11-21	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	•	2024-11-22	
Nitrogen, Total Kjeldahl	0.106	N/A	0.050	mg/L	2024-11-22	
pH	7.87	7.0-10.5		pH units	2024-11-21	HT2
Phosphorus, Total (as P)	0.0091	N/A	0.0050	-	2024-11-22	
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2024-11-25	
Temperature, at pH	22.9	N/A		°C	2024-11-21	HT2
Turbidity	0.19	OG < 1	0.10	NTU	2024-11-22	
UV Transmittance @ 254 nm - Unfiltered	92.8	N/A	0.10	% T	2024-11-23	HT1
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	ma/L	2024-11-26	
Monobromoacetic Acid	< 0.0020	N/A	0.0020		2024-11-26	
Dichloroacetic Acid	0.0155	N/A	0.0020		2024-11-26	
Trichloroacetic Acid	0.0218	N/A	0.0020		2024-11-26	
Dibromoacetic Acid	< 0.0020	N/A	0.0020		2024-11-26	
Total Haloacetic Acids (HAA5)	0.0373	MAC = 0.08	0.00200		N/A	
Surrogate: 2-Bromopropionic Acid	110		70-130		2024-11-26	
Total Metals Aluminum, total	0.0440	22.21		_		
· · · · · · · · · · · · · · · · · · ·	0.0113	OG < 0.1 MAC = 0.006	0.0050		2024-11-22	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-11-22	
Antimony, total Arsenic, total	< 0.00020 < 0.00050	MAC = 0.006 MAC = 0.01	0.00020 0.00050	mg/L mg/L	2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total	< 0.00020 < 0.00050 0.0170	MAC = 0.006 MAC = 0.01 MAC = 2	0.00020 0.00050 0.0050	mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total	< 0.00020 < 0.00050 0.0170 < 0.0500	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5	0.00020 0.00050 0.0050 0.0500	mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007	0.00020 0.00050 0.0050 0.0500 0.000010	mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required	0.00020 0.00050 0.0050 0.0500 0.000010	mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05	0.00020 0.00050 0.0050 0.0500 0.000010 0.20 0.00050	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A	0.00020 0.00050 0.0050 0.0500 0.000010 0.20 0.00050 0.00010	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total Copper, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010 0.00082	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A MAC = 2	0.00020 0.00050 0.0050 0.0500 0.000010 0.20 0.00050 0.00010	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total Copper, total Iron, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010 0.00082 < 0.010	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A MAC = 2 AO ≤ 0.3	0.00020 0.00050 0.0050 0.0500 0.000010 0.20 0.00050 0.00010 0.00040	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total Copper, total Iron, total Lead, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010 0.00082 < 0.010 < 0.00020	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A MAC = 2 AO ≤ 0.3 MAC = 0.005	0.00020 0.00050 0.0050 0.0500 0.000010 0.20 0.00050 0.00010 0.00040 0.010	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total Copper, total Iron, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010 0.00082 < 0.010 < 0.00020 6.87	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A MAC = 2 AO ≤ 0.3	0.00020 0.00050 0.0050 0.0500 0.000010 0.20 0.00050 0.00010 0.00040 0.010	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total Copper, total Iron, total Lead, total Magnesium, total Manganese, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010 0.00082 < 0.010 < 0.00020 6.87 0.00121	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A MAC = 2 AO ≤ 0.3 MAC = 0.005 None Required MAC = 0.12	0.00020 0.00050 0.0050 0.0500 0.000010 0.20 0.00050 0.00010 0.00040 0.010 0.00020 0.010	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total Copper, total Iron, total Lead, total Magnesium, total Mercury, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010 0.00082 < 0.010 < 0.00020 6.87 0.00121 < 0.000010	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A MAC = 2 AO ≤ 0.3 MAC = 0.005 None Required MAC = 0.12 MAC = 0.001	0.00020 0.00050 0.0050 0.0500 0.000010 0.20 0.00050 0.00010 0.00040 0.010 0.00020 0.00020 0.00020	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total Copper, total Iron, total Lead, total Magnesium, total Mercury, total Molybdenum, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010 0.00082 < 0.010 < 0.00020 6.87 0.00121	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A MAC = 2 AO ≤ 0.3 MAC = 0.005 None Required MAC = 0.005 None Required MAC = 0.001 MAC = 0.001 N/A	0.00020 0.00050 0.0050 0.0500 0.000010 0.20 0.00050 0.00010 0.00040 0.010 0.00020 0.010 0.00020 0.00010	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total Copper, total Iron, total Lead, total Magnesium, total Mercury, total Molybdenum, total Nickel, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010 0.00082 < 0.010 < 0.00020 6.87 0.00121 < 0.000255 < 0.00040	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A MAC = 2 AO ≤ 0.3 MAC = 0.005 None Required MAC = 0.12 MAC = 0.001 N/A N/A	0.00020 0.00050 0.0050 0.0500 0.000010 0.20 0.00050 0.00010 0.00020 0.010 0.00020 0.00010 0.00020 0.00010 0.00040	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total Copper, total Iron, total Lead, total Magnesium, total Mercury, total Molybdenum, total Nickel, total Potassium, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010 0.00082 < 0.010 < 0.00020 6.87 0.00121 < 0.000255	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A MAC = 2 AO ≤ 0.3 MAC = 0.005 None Required MAC = 0.12 MAC = 0.001 N/A N/A N/A	0.00020 0.00050 0.0050 0.0500 0.000010 0.20 0.00050 0.00010 0.00020 0.010 0.00020 0.00010 0.00020 0.00010 0.00040 0.00010 0.00040	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total Copper, total Iron, total Lead, total Magnesium, total Mercury, total Molybdenum, total Nickel, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010 0.0082 < 0.010 < 0.00020 6.87 0.00121 < 0.000255 < 0.00040 1.85 < 0.00050	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A MAC = 2 AO ≤ 0.3 MAC = 0.005 None Required MAC = 0.12 MAC = 0.001 N/A N/A	0.00020 0.00050 0.0050 0.00500 0.000010 0.20 0.00050 0.00010 0.00020 0.010 0.00020 0.000010 0.00020 0.00010 0.00050	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total Copper, total Iron, total Lead, total Magnesium, total Manganese, total Mercury, total Molybdenum, total Nickel, total Potassium, total Selenium, total Sodium, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010 0.00082 < 0.010 < 0.00020 6.87 0.00121 < 0.00025 < 0.00040 1.85 < 0.00050 11.5	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A MAC = 2 AO ≤ 0.3 MAC = 0.005 None Required MAC = 0.12 MAC = 0.001 N/A N/A N/A N/A MAC = 0.05 AO ≤ 200	0.00020 0.00050 0.0050 0.00500 0.000010 0.20 0.00050 0.00010 0.00020 0.010 0.00020 0.00010 0.00020 0.00010 0.00050 0.10	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	
Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Cobalt, total Copper, total Iron, total Lead, total Magnesium, total Manganese, total Mercury, total Molybdenum, total Nickel, total Potassium, total Selenium, total	< 0.00020 < 0.00050 0.0170 < 0.0500 < 0.000010 26.2 < 0.00050 < 0.00010 0.0082 < 0.010 < 0.00020 6.87 0.00121 < 0.000255 < 0.00040 1.85 < 0.00050	MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05 N/A MAC = 2 AO ≤ 0.3 MAC = 0.005 None Required MAC = 0.12 MAC = 0.001 N/A N/A N/A N/A MAC = 0.05	0.00020 0.00050 0.0050 0.00500 0.000010 0.20 0.00050 0.00010 0.00020 0.010 0.00020 0.000010 0.00020 0.00010 0.00050	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22 2024-11-22	



REPORTED TO PROJECT	Penticton, City of - DW & Quarterly Samples	STP			WORK ORDER REPORTED	24K2420 2024-11-2	8 12:52
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
PRV Station (24K	(2420-04) Matrix: Water	Sampled: 2024-	11-19 14:30, Contin	ued			
Volatile Organic Co	ompounds (VOC)						
Bromodichlorome	thane	0.0022	N/A	0.0010	ma/L	2024-11-27	
Bromoform		< 0.0010	N/A	0.0010		2024-11-27	
Chloroform		0.0276	N/A	0.0010		2024-11-27	
Dibromochlorome	thane	< 0.0010	N/A	0.0010	mg/L	2024-11-27	
Surrogate: Toluen	ne-d8	83		70-130	%	2024-11-27	
Surrogate: 4-Bron	nofluorobenzene	81		70-130	%	2024-11-27	
Lawrence Ave St	n (24K2420-05) Matrix: W	/ater Sampled:	2024-11-19 14:00				
Chloride		9.05	AO ≤ 250	0.10	mg/L	2024-11-21	
Fluoride		0.15	MAC = 1.5		mg/L	2024-11-21	
Nitrate (as N)		0.065	MAC = 10	0.010	mg/L	2024-11-21	
Nitrite (as N)		< 0.010	MAC = 1	0.010	mg/L	2024-11-21	
Sulfate		22.5	AO ≤ 500	1.0	mg/L	2024-11-21	
Calculated Parame	eters						
Hardness, Total (a	as CaCO3)	94.2	None Required	0.500	mg/L	N/A	
Langelier Index	<u> </u>	-0.2	N/A	-5.0		2024-11-27	CT6
Nitrogen, Organic	;	0.166	N/A	0.0500	mg/L	N/A	
Solids, Total Disso	olved	126	AO ≤ 500		mg/L	N/A	
General Parameter	rs .						
Alkalinity, Total (as	s CaCO3)	78.9	N/A	1.0	mg/L	2024-11-21	
	ohthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-11-21	
Alkalinity, Bicarbo	nate (as CaCO3)	78.9	N/A	1.0	mg/L	2024-11-21	
Alkalinity, Carbona	ate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-11-21	
Alkalinity, Hydroxi	de (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-11-21	
Ammonia, Total (a	as N)	< 0.050	None Required	0.050	mg/L	2024-11-22	
Carbon, Total Org	anic	3.30	N/A	0.50	mg/L	2024-11-27	
Colour, True		< 5.0	AO ≤ 15	5.0	CU	2024-11-22	
Conductivity (EC)		239	N/A	2.0	μS/cm	2024-11-21	
Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	mg/L	2024-11-22	
Nitrogen, Total Kje	eldahl	0.166	N/A	0.050	mg/L	2024-11-25	
рН		8.00	7.0-10.5	0.10	pH units	2024-11-21	HT2
Phosphorus, Total	I (as P)	0.0082	N/A	0.0050	mg/L	2024-11-22	
Sulfide, Total		< 0.020	AO ≤ 0.05	0.020	mg/L	2024-11-25	
Temperature, at p	Н	22.7	N/A		°C	2024-11-21	HT2
Turbidity		0.12	OG < 1	0.10	NTU	2024-11-21	
UV Transmittance	@ 254 nm - Unfiltered	93.0	N/A	0.10	% T	2024-11-23	HT1
Total Metals							
Aluminum, total		0.0132	OG < 0.1	0.0050	mg/L	2024-11-22	



REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER REPORTED 24K2420

EPORTED 2024-11-28 12:52

	Result	Guideline	RL	Units	Analyzed	Qualifi
awrence Ave Stn (24K2420-05) M	latrix: Water Sampled:	2024-11-19 14:00,	Continued			
otal Metals, Continued						
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-11-22	
Barium, total	0.0169	MAC = 2	0.0050	mg/L	2024-11-22	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-11-22	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-11-22	
Calcium, total	26.3	None Required	0.20	mg/L	2024-11-22	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-11-22	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-11-22	
Copper, total	0.00508	MAC = 2	0.00040	mg/L	2024-11-22	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2024-11-22	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-11-22	
Magnesium, total	6.93	None Required	0.010	mg/L	2024-11-22	
Manganese, total	0.00022	MAC = 0.12	0.00020	mg/L	2024-11-22	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-11-26	
Molybdenum, total	0.00257	N/A	0.00010	mg/L	2024-11-22	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2024-11-22	
Potassium, total	1.85	N/A	0.10	mg/L	2024-11-22	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-11-22	
Sodium, total	11.1	AO ≤ 200	0.10	mg/L	2024-11-22	
Strontium, total	0.207	MAC = 7	0.0010	mg/L	2024-11-22	
Uranium, total	0.000085	MAC = 0.02	0.000020	mg/L	2024-11-22	
	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-11-22	
Zinc, total	0.00.0	710 = 0				
nions	x: Water Sampled: 202	24-11-19 11:00		ma/l	2024 11 21	
Okangan Lake (24K2420-06) Matri nions Chloride	x: Water Sampled: 202 6.09	24-11-19 11:00 AO ≤ 250	0.10	mg/L	2024-11-21	
Okangan Lake (24K2420-06) Matri Inions Chloride Fluoride	x: Water Sampled: 202 6.09 0.20	AO < 250 MAC = 1.5	0.10 0.10	mg/L	2024-11-21	
Okangan Lake (24K2420-06) Matri Inions Chloride Fluoride Nitrate (as N)	6.09 0.20 0.097	AO < 250 MAC = 1.5 MAC = 10	0.10 0.10 0.010	mg/L mg/L	2024-11-21 2024-11-21	
Okangan Lake (24K2420-06) Matri Inions Chloride Fluoride Nitrate (as N) Nitrite (as N)	6.09 0.20 0.097 < 0.010	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1	0.10 0.10 0.010 0.010	mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21	
Okangan Lake (24K2420-06) Matri Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	6.09 0.20 0.097	AO < 250 MAC = 1.5 MAC = 10	0.10 0.10 0.010 0.010	mg/L mg/L	2024-11-21 2024-11-21	
Okangan Lake (24K2420-06) Matri Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters	6.09 0.20 0.097 < 0.010 31.6	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500	0.10 0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21	
Okangan Lake (24K2420-06) Matri Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3)	6.09 0.20 0.097 < 0.010 31.6	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required	0.10 0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21 N/A	CTA
Okangan Lake (24K2420-06) Matri Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters	6.09 0.20 0.097 < 0.010 31.6	AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500	0.10 0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2024-11-21 2024-11-21 2024-11-21 2024-11-21	CT6

2024-11-21

2024-11-21

2024-11-21

2024-11-21

2024-11-21

Alkalinity, Total (as CaCO3)

Alkalinity, Phenolphthalein (as CaCO3)

Alkalinity, Bicarbonate (as CaCO3)

Alkalinity, Carbonate (as CaCO3)

Alkalinity, Hydroxide (as CaCO3)

N/A

N/A

N/A

N/A

N/A

1.0 mg/L

1.0 mg/L

1.0 mg/L

1.0 mg/L

1.0 mg/L

104

104

< 1.0

< 1.0

< 1.0



REPORTED TO Penticton, City of - DW & STP

PROJECT Quarterly Samples

WORK ORDER REPORTED

0.00040 mg/L

0.00020 mg/L

0.000020 mg/L

0.0040 mg/L

0.010 mg/L

0.010 mg/L

24K2420

2024-11-22

2024-11-22

2024-11-22

2024-11-22

2024-11-22

2024-11-22

2024-11-28 12:52

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier

Okangan Lake (24K2420-06) | Matrix: Water | Sampled: 2024-11-19 11:00, Continued

General Parameters, Continued						
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2024-11-22	
Carbon, Total Organic	4.02	N/A	0.50	mg/L	2024-11-27	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2024-11-22	
Conductivity (EC)	298	N/A	2.0	μS/cm	2024-11-21	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-11-22	
Nitrogen, Total Kjeldahl	0.236	N/A	0.050	mg/L	2024-11-25	
рН	8.07	7.0-10.5	0.10	pH units	2024-11-21	HT2
Phosphorus, Total (as P)	0.121	N/A	0.0050	mg/L	2024-11-22	
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2024-11-25	
Temperature, at pH	22.6	N/A		°C	2024-11-21	HT2
Turbidity	0.21	OG < 1	0.10	NTU	2024-11-21	
UV Transmittance @ 254 nm - Unfiltered	86.6	N/A	0.10	% T	2024-11-23	HT1
otal Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2024-11-22	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-11-22	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-11-22	
Barium, total	0.0210	MAC = 2	0.0050	mg/L	2024-11-22	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-11-22	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-11-22	
Calcium, total	34.9	None Required	0.20	mg/L	2024-11-22	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-11-22	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-11-22	

Manganese, total 0.00077 MAC = 0.120.00020 mg/L 2024-11-22 MAC = 0.001Mercury, total < 0.000010 0.000010 mg/L 2024-11-26 Molybdenum, total 0.00338 N/A 0.00010 mg/L 2024-11-22 0.00058 N/A Nickel, total 0.00040 mg/L 2024-11-22 Potassium, total 2.56 N/A 0.10 mg/L 2024-11-22 < 0.00050 MAC = 0.050.00050 mg/L Selenium, total 2024-11-22 Sodium, total 12.1 AO ≤ 200 0.10 mg/L 2024-11-22 Strontium, total 0.301 MAC = 70.0010 mg/L 2024-11-22

MAC = 2

AO ≤ 0.3

MAC = 0.005

None Required

MAC = 0.02

AO ≤ 5

0.00389

< 0.010

0.00243

< 0.0040

9.47

< 0.00020

Penticton Creek (24K2420-07) | Matrix: Water | Sampled: 2024-11-19 11:15

Chloride	0.40	AO ≤ 250	0.10 mg/L	2024-11-21
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2024-11-21

Copper, total

Iron, total

Lead, total

Magnesium, total

Uranium, total

Zinc, total



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Analyte	Result	Guideline	RL Units	Analyzed	Qualifier

Anions, Continued						
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2024-11-21	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2024-11-21	
Sulfate	1.4	AO ≤ 500	1.0	mg/L	2024-11-21	
Calculated Parameters						
Hardness, Total (as CaCO3)	14.2	None Required	0.500	mg/L	N/A	
Langelier Index	-2.9	N/A	-5.0		2024-11-27	CT6
Nitrogen, Organic	0.199	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolved	13.7	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	6.8	N/A	1.0	mg/L	2024-11-21	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-11-21	
Alkalinity, Bicarbonate (as CaCO3)	6.8	N/A	1.0	mg/L	2024-11-21	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-11-21	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-11-21	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2024-11-22	
Carbon, Total Organic	5.83	N/A	0.50	mg/L	2024-11-27	
Colour, True	35	AO ≤ 15	5.0	CU	2024-11-22	
Conductivity (EC)	38.5	N/A	2.0	μS/cm	2024-11-21	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-11-22	
Nitrogen, Total Kjeldahl	0.199	N/A	0.050	mg/L	2024-11-25	
рН	7.12	7.0-10.5	0.10	pH units	2024-11-21	HT2
Phosphorus, Total (as P)	0.0141	N/A	0.0050	mg/L	2024-11-22	
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2024-11-25	
Temperature, at pH	22.7	N/A		°C	2024-11-21	HT2

Total Metals

UV Transmittance @ 254 nm - Unfiltered

Turbidity

Aluminum, total	0.0869	OG < 0.1	0.0050 mg/L	2024-11-22
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2024-11-22
Arsenic, total	< 0.00050	MAC = 0.01	0.00050 mg/L	2024-11-22
Barium, total	0.0057	MAC = 2	0.0050 mg/L	2024-11-22
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2024-11-22
Cadmium, total	< 0.000010	MAC = 0.007	0.000010 mg/L	2024-11-22
Calcium, total	4.03	None Required	0.20 mg/L	2024-11-22
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2024-11-22
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2024-11-22
Copper, total	0.00160	MAC = 2	0.00040 mg/L	2024-11-22
Iron, total	0.321	AO ≤ 0.3	0.010 mg/L	2024-11-22
Lead, total	< 0.00020	MAC = 0.005	0.00020 mg/L	2024-11-22
Magnesium, total	1.00	None Required	0.010 mg/L	2024-11-22
Manganese, total	0.00446	MAC = 0.12	0.00020 mg/L	2024-11-22

OG < 1

N/A

0.10 NTU

0.10 % T

2024-11-21

2024-11-23

0.68

61.5

HT1



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Analyte	Result	Guideline	RL Units	Analyzed Qualifier			
Penticton Creek (24K2420-07) Matrix: Water Sampled: 2024-11-19 11:15, Continued							
Total Metals, Continued							
Mercury, total	< 0.000010	MAC = 0.001	0.000010 mg/L	2024-11-26			
Molybdenum, total	0.00055	N/A	0.00010 mg/L	2024-11-22			
Nickel, total	< 0.00040	N/A	0.00040 mg/L	2024-11-22			
Potassium, total	0.48	N/A	0.10 mg/L	2024-11-22			
Selenium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2024-11-22			
Sodium, total	2.19	AO ≤ 200	0.10 mg/L	2024-11-22			
Strontium, total	0.0446	MAC = 7	0.0010 mg/L	2024-11-22			
Uranium, total	0.000407	MAC = 0.02	0.000020 mg/L	2024-11-22			
Zinc, total	< 0.0040	AO ≤ 5	0.0040 mg/L	2024-11-22			

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.



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Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH3 G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO2 Detection	✓	Kelowna
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2021)	Calculation		N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	√	Richmond
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2021)	Block Digestion and Flow Injection Analysis	✓	Kelowna
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Phosphorus, Total in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2021)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Sulfide, Total in Water	SM 4500-S2 D* (2021)	Colorimetry (Methylene Blue)	✓	Edmonton
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Transmittance at 254 nm - Unfiltered in Water	SM 5910 B* (2021)	Ultraviolet Absorption	✓	Kelowna
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond
Turbidity in Water	SM 2130 B (2020)	Nephelometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL Reporting Limit (default) % T Percent Transmittance

Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors

°C Degrees Celcius AO Aesthetic Objective

CU Colour Units (referenced against a platinum cobalt standard)

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

NTU Nephelometric Turbidity Units
OG Operational Guideline (treated water)
pH units pH < 7 = acidic, ph > 7 = basic $\mu S/cm$ Microsiemens per centimetre
ASTM ASTM International Test Methods

EPA United States Environmental Protection Agency Test Methods

SM Standard Methods for the Examination of Water and Wastewater, American Public Health Association



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General Comments:

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Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted red. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do <u>not</u> take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager:hhannaoui@caro.ca

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CITY OF PENTICTON

PFAS Testing Plan

Project No.: 203746-00

Date: February 25, 2025

Prepared By: Martin Earle, PhD, EIT

Reviewed By: Kyle Thompson, PhD, PE, Piero Galvagno, PhD, P.Eng.

Subject: Summary of PFAS Sampling Results to Date

1.0 INTRODUCTION

The City of Penticton (City) proactively monitors water, wastewater, and solids produced during wastewater treatment (biosolids) for contaminants which may pose risk to human health or the environment. In 2023, the City began an initiative to monitor a group of contaminants called Per- and Polyfluoroalkyl Substances (PFAS). These synthetic chemicals have special properties which make them very useful in consumer products, manufacturing, and fighting fuel fires. Unfortunately, these same properties also cause many PFAS to be persistent in the environment (e.g., they do not fully biodegrade). The combination of their widespread use and their environmental persistence has resulted in PFAS being universally present across the globe in water and wastewater. A few specific PFAS such as perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic (PFOS) have many studies linking them to human health effects.

Early testing results demonstrate that the City's drinking water is safe and there is no known environmental impact from PFAS in the City's wastewater or biosolids. However, continued monitoring is required to ensure that this remains true. This memorandum provides a brief overview of PFAS and a summary of the testing results to date.

2.0 PFAS BACKGROUND

2.1 What Are PFAS?

You may have seen the term "PFAS" in the news over the last several years. They are commonly referred to as "forever chemicals" in the news or media because of their non-biodegradability. The scientific term PFAS describes a large group of thousands of chemicals which have special chemical bonds between carbon and fluorine – this is where the "fluoro" comes from in "Per- and Poly**fluoro**alkyl Substances." Within this group there are many subgroups which have varying properties which affect how hazardous they are to humans and the environment.

In general, PFAS are used as surfactants or as components in surface coatings. They are stain, heat, oil, and water resistant which makes them incredibly useful in many products and manufacturing processes. For example, PFAS have been used in waterproof fabrics, carpets, furniture, cleaning products, electronics, food packaging, cosmetics, specialized firefighting foams, and, notoriously, in non-stick pots and pans. It is the residue from these products and pollution from manufacturing processes which causes environmental contamination. A small group of some of the most well studied PFAS have been banned for import and manufacture in Canada but many more are still used.

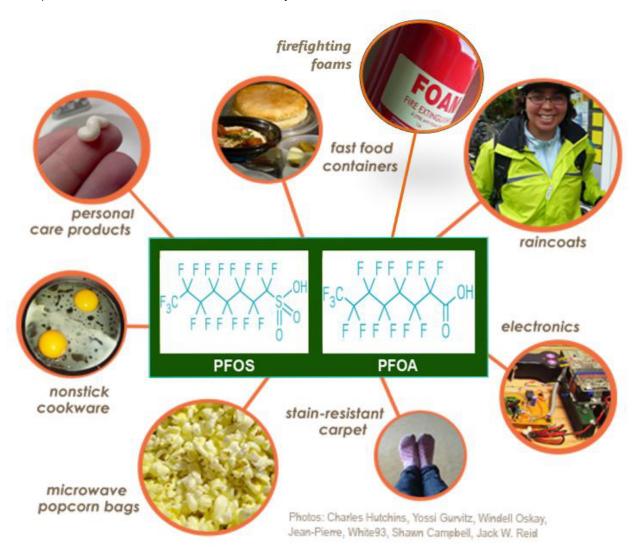


Figure 1 Common Historical Uses for PFAS in Consumer Products

2.2 How Might PFAS Affect Me?

Some PFAS have been linked to health problems, specifically increased risk of developing some cancers, increased cholesterol levels, reduced immune system function, and low birth weight. That said, our overall understanding of the health impacts of PFAS is unclear because there are many less-studied or unstudied compounds.

2.3 What is Being Done About PFAS in Drinking Water?

Drinking water is one of many PFAS exposure pathways, but controlling PFAS concentrations in drinking water can have a direct impact on public health. The province of British Columbia currently recommends following Health Canada guidelines, which include limits for PFOA and PFOS specifically. However, these guidelines are outdated and are set to be replaced by a new PFAS objective, which recommends limiting PFAS as a class of compounds to a much lower value than previous guidelines. This objective is 30 nanograms per litre (ng/L, sometimes called parts per trillion). This approach precautionarily assumes that many PFAS are equally as toxic as PFOA and PFOS, even though evidence suggests certain "short-chain" PFAS such as perfluorobutane sulfonic acid (PFBS) are less toxic. The United States Environmental Protection Agency (USEPA) has taken a different approach from Health Canada and has instead implemented limits for specific PFAS. These limit PFOA and PFOS to 4 ng/L and three other substances to 10 ng/L in US drinking water.

The City of Penticton takes protecting drinking water and the environment very seriously. The City operates sophisticated drinking water and wastewater treatment systems which remove regulated contaminants, consistently meeting and exceeding treatment standards and guidelines. Monitoring PFAS concentrations in water and wastewater is a proactive step beyond what is required to meet current regulations and guidelines in British Columbia.

3.0 PFAS SAMPLING IN PENTICTON

To date, the City has sampled the water supply (i.e., Okanagan Lake and Penticton Creek), treated drinking water, raw and treated wastewater, the Okanagan Channel, and wastewater biosolids. Additional samples will be taken throughout 2025 and in future years from these locations and others to evaluate the risk of PFAS in the City.

The initial results show that the City's drinking water is safe and the risk from PFAS is low (Figure 2). Since 2023, the drinking water was sampled three times and each time the total PFAS concentrations were well below the Health Canada objective value and were below guidelines made by other agencies, such as the US Environmental Protection Agency. Very low concentrations were also detected in Okanagan Lake and Penticton Creek, similar to those detected in the treated drinking water. PFAS concentrations in the City's drinking water were also well below the limits imposed by the USEPA south of the border (Figure 3).

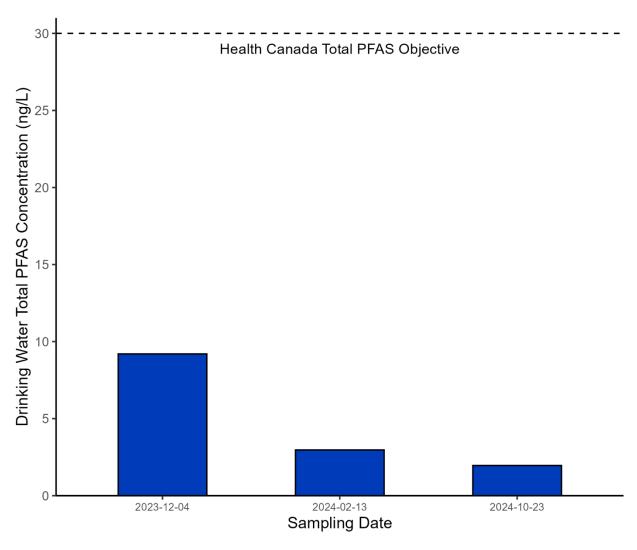


Figure 2 Total PFAS Concentrations Measured in the City's Drinking Water Compared to the Health Canada PFAS Objective

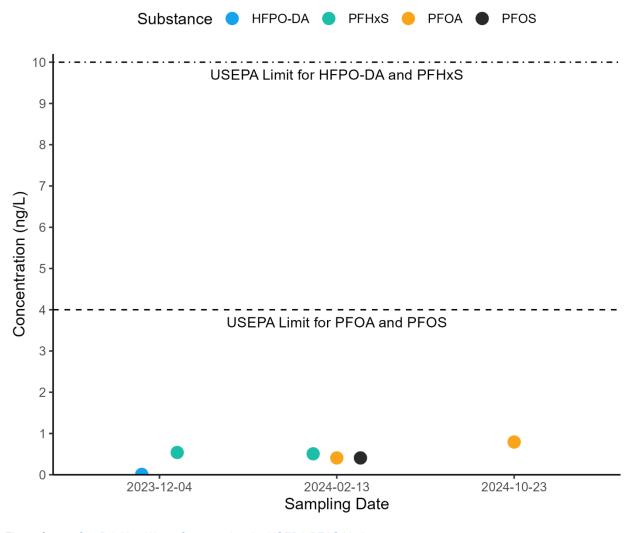


Figure 3 City Drinking Water Compared to the USEPA PFAS Limits

The initial samples also indicate that only low levels of PFAS are present in the City's wastewater. There currently are no regulations or guidelines for PFAS in wastewater in Canada, however, the concentrations in the City's wastewater are actually below the Health Canada drinking water objective of 30 ng/L. Samples taken from the Okanagan Channel showed that the PFAS concentration only increased by 1 to 2 ng/L after treated wastewater is discharged to the Channel. Accordingly, the data indicates that PFAS in the City's wastewater is having little impact on the environment and on downstream communities.

Samples taken from the Campell Mountain Landfill's composting facility had low PFAS concentrations as well. This compost product is used for landscaping and has limited potential for impacting human health. PFOS concentrations in this compost were below 3 micrograms per kilogram (μ g/kg), far below the Canadian Food Inspection Agency's interim limit for PFOS in fertilizers of 50 μ g/kg, demonstrating that it is safe for use based on current guidelines.

4.0 SUMMARY

The City of Penticton has begun monitoring PFAS concentrations in drinking water, wastewater, and the environment. These substances are known human health hazards and are universally present in the environment. Fortunately, initial sampling demonstrates that the City's drinking water is safe from PFAS contamination and the City's wastewater has little impact on PFAS concentrations in the environment. The City will continue to monitor PFAS concentrations as part of an ongoing effort to protect public health and the environment.