

District of Peachland Annual Drinking Water Report – 2024



INTRODUCTION

The District of Peachland is legally required by the *Drinking Water Protection Act* to provide an annual report on their water supply systems. The annual report will provide water system users with an overview of the system, a summary of all water tests performed and an update to any significant maintenance and/or improvements made to the system.

Facility Name/Number: District of Peachland Water Distribution System (#561)

EOCP Classification: Level III

Facility Name/Number: Peachland Creek Water Treatment Facility (#2288)

EOCP Classification: Level IV

Facility Name/Number: Trepanier Creek Water Treatment Facility (#2289)

EOCP Classification: Level II

Facility Name/Number: Okanagan Lake Pumps Water Treatment Facility (#2290)

EOCP Classification: Level II

WATER SOURCES

Water for the District of Peachland can be supplied from three surface water sources;

- Peachland Creek
- Okanagan Lake (Emergency)
- Trepanier Creek (No longer in use)

The Peachland Creek system supplies water to all properties within the District of Peachland boundaries.

TREATMENT AND DISTRIBUTION

At the Peachland Creek Water Treatment Plant, ultraviolet (UV) light is used as the primary disinfectant and sodium hypochlorite as a secondary. Following dual-media filtration, water passes through UV reactors and sodium hypochlorite is injected afterwards using flow paced peristaltic pumps and is dosed to provide inactivation of bacteria, viruses and protozoan cysts. District staff maintain a first user residual ranging from $0.9 - 1.9 \, \text{mg/L}$. At the ends of the distribution system, a free chlorine residual target of greater than $0.2 \, \text{mg/L}$ is maintained. A

residual of chlorine remaining in the distribution system extends a measure of protection against any possible contamination entering the system after initial disinfection.

The distribution system and supply includes;

- 16 pressure reducing stations
- 2 very high consequence dam (Peachland Lake, Glen Lake)
- 4 active reservoirs
- 6 pump stations
- Approximately 81 km of pipeline

The Water Department is staffed by Operators certified through the Environmental Operators Certification Program (EOCP – the association responsible for certification of system Operators and classification of water distribution (WD) and water treatment (WT) systems within British Columbia and the Yukon), with their certifications noted below;

- Water Distribution Leadhand: WD Level III / WT Level III
- Water Distribution Operator: WD III / WT III
- Water Distribution Operator: WD II
- Chief Water Treatment Plant Operator: WD Level III / WT Level IV
- Water Treatment Plant Operator: WD Level III / WT Level III

These operators have the capability to monitor the system at all times (24 hours per day, 365 days per year) through the use of the SCADA system (supervisory control and data acquisition). The system is set to alarm if it ranges beyond pre-determined set points, calling the standby Operator to alert them. There is an operator on standby at all times.

ROUTINE MAINTENANCE

Fire Hydrants

Hydrants undergo a complete tear-down and rebuild on an as-needed basis. Each public hydrant is pressure-tested annually (at minimum) to ensure operation.

System Flushing

System flushing occurs annually during the fall. Hydrants and blow offs are used to pass higher velocity water through the system to scour any sediment that may have settled in the system over the year.

Pressure Reducing Valves (PRVs)

PRV's are inspected at least every 4 months and repaired or rebuilt on an as-needed basis.

WATER MASTER PLAN

In 2007, the sitting mayor and council adopted the Water Master Plan (WMP), a set of comprehensive upgrades that was anticipated to provide treated water to Peachland in its entirety by the years 2023/24. The WMP was amended in 2015 to include information on increased population growth and changes in drinking water legislation. If more in-depth information is desired, it is available at the District of Peachland website (http://www.peachland.ca/water-master-plan-2015).

WATER SAMPLING

Drinking water samples are tested weekly for *E.Coli* and total coliforms by Caro Analytical Services in Kelowna. There were no positive bacteriological samples detected in 2024.

District employees monitor and record daily turbidity values along with pH and chlorine levels. Turbidity is one of the main parameters leading to a water quality advisory or a boil water notice as it can affect the number and type of microorganisms that enter a surface water source. As surface waters experience increased flows, for example, spring runoff and major rainfall events, turbidity can fluctuate dramatically, and the public is notified accordingly. Records of daily average turbidity, pH and free chlorine residual values can be found in Appendix III.

Chlorine concentrations are continuously monitored at 2 stations throughout the system as well as daily grab samples at several locations to ensure instrument accuracy and adequate levels in the Distribution system.

Water samples are collected annually to perform a comprehensive analysis, giving an indication of any changes occurring within the source waters and/or distribution system. It should be noted that all Peachland Creek and water supply system samples tested are within the maximum allowable concentration (MAC) limits set out in the Guidelines for Canadian Drinking Water Quality. Lastly, trihalomethanes (TTHMs) and haloacetic acids (HAA5) are also tested annually to provide an indication of the level of disinfection by-products present in the water supply system. The results from the comprehensive and disinfection by-products analyses are included in Appendix I. The attached reports also indicate the limits or guidelines for each parameter listed.

WATER QUALITY ADVISORIES / BOIL WATER NOTICES / DO NOT USE NOTICE

Water quality advisories and boil water notices are notifications designed to inform the public of possible public health threats. The decision to institute an advisory or notice is made in discussion with staff at the Interior Health Authority (IHA).

A <u>water quality advisory</u> (WQA) is the lowest-level notification and used in situations where the possible public health threat is modest. These advisories are instituted when the turbidity in the treated water increases over a value of 1 NTU (nephelometric turbidity units). There were no WQAs issued over the past year.

A <u>boil water notice</u> (BWN) is a moderate-level notification used in situations where the possible public health threat is one that can be effectively addressed by boiling the water. These notices are typically instituted when treated water turbidity increases over 5 NTU or there is a failure in the disinfection system or there is a main break and main depressurization occurs. Details of BWNs issued over the past year are noted below.

A <u>do not use notice</u> is the highest level of notification. It is used in situations where a significant public health threat exists (for example, a chemical spill or mercury lamp breakage). There were no do not use notices issued in 2024.

February 14/24 - BWN issued for 39 properties on the 4100, 4200, and 4300 blocks of Ponderosa Drive including 1^{st} Avenue and 2^{nd} Avenue. The BWN was implemented as a precaution, due to a necessary de-pressurization of the main to replace a system valve.

March 14/24 – BWN issued for 20 properties on the 6200 block of Whinton Cres. to repair a leaking water main.

April 16/24 – BWN issued for 29 properties on Sanderson Ave., Haker Pl., Bradley Dr., and Nash St. A contactor upgrading services on Sanderson Ave. pulled a service out of the main.

May 27/24 – BWN issued for entire distribution system due to de-pressuring of trunk main to perform main repair at intersection of Turner Ave. and Princeton Ave.

July 16/24 – BWN issued for the 5300 block of Buchanan Rd. to facilitate tie in of new 200mm C900 main to existing 200mm AC main.

August 02/24 BWN issued for 9 properties in the 5800 block of Vicary Rd. and 3 properties in the 5800 block of Columbia Ave. A leak discovered on the main on Vicary resulting in the depressurization of the water main to facilitate the repair.

WATER CONSUMPTION

In 2024, there was a total of 2250 ML passing through the District of Peachland Distribution system. A monthly summary of consumption is in Appendix II.

WORKS COMPLETED AND IN PROGRESS

- Annual leak detection program completed for south side of Princeton Ave. North side of Princeton Ave. east of Turner Ave to the Highway. A total of 13 leaks were discovered within the areas surveyed.
- Uni-directional flushing completed from the Water Treatment Plant to Hwy 97 on the Princeton Ave system, south to Thorne Rd., north to Gladstone Rd.
- Domestic water meter replacement in progress

<u>Appendix I – Comprehensive Analyses and Disinfection By-products Analysis (Peachland Creek Intake and Peachland Distribution System)</u>





CERTIFICATE OF ANALYSIS

REPORTED TO Peachland, Corporation of the District of

5806 Beach Avenue

PEACHLAND, BC V0H 1X7

24F1432 **ATTENTION** Marc Forcier WORK ORDER

PO NUMBER

RECEIVED / TEMP 2024-06-11 13:15 / 7.1°C PROJECT Chemistry REPORTED 2024-06-14 15:02 **COC NUMBER** No Number

PROJECT INFO

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



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, analytical centre for the are your 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 TeamCaro@caro.ca

Authorized By:

Team CARO

Client Service Representative

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 | #108 4475 Wayburne Drive Burnaby, BC V5G 4X4

Page 1 of 3





REPORTED TO	Peachland, Corporation of the District of	WORK ORDER	24F1432
PROJECT	Chemistry	REPORTED	2024-06-14 15:02

Analyte	Result	Guideline	PI	Units	Analyzed	Qualifie
Analyte	Nesuit	Galdeline	, , , L	Offics	Allalyzeu	Quanne
Robinson Place (DBP) (24F1432-01) M	atrix: Water Sampl	ed: 2024-06-11 08	:15			
Calculated Parameters						
Total Trihalomethanes	0.0360	MAC = 0.1	0.00400	mg/L	N/A	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0025	N/A	0.0010	mg/L	2024-06-13	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-06-13	
Chloroform	0.0335	N/A	0.0010	mg/L	2024-06-13	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-06-13	
Surrogate: Toluene-d8	82		70-130	%	2024-06-13	
Surrogate: 4-Bromofluorobenzene	76		70-130	%	2024-06-13	





REPORTED TOPeachland, Corporation of the District ofWORK ORDER24F1432PROJECTChemistryREPORTED2024-06-14 15:02

Analysis Description	Method Ref.	Technique	Accredited	Location
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond

Glossary of Terms:

RL Reporting Limit (default)

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

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

EPA United States Environmental Protection Agency Test Methods

Guidelines Referenced in this Report:

Guidelines for Canadian Drinking Water Quality (Health Canada, September 2022)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user

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:TeamCaro@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

REPORTED TO Peachland, Corporation of the District of

5806 Beach Avenue

PEACHLAND, BC V0H 1X7

ATTENTION Marc Forcier WORK ORDER

PO NUMBER

PROJECT Chemistry

PROJECT INFO

24H1604

RECEIVED / TEMP 2024-08-13 15:30 / 12.1°C REPORTED 2024-08-20 16:02

COC NUMBER No 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



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, analytical centre for the are your 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 TeamCaro@caro.ca

Authorized By:

Team CARO

Client Service Representative

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 | #108 4475 Wayburne Drive Burnaby, BC V5G 4X4





REPORTED TOPeachland, Corporation of the District ofWORK ORDER24H1604PROJECTChemistryREPORTED2024-08-20 16:02

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Thorne Rd. DBP (24H1604-01) Matrix:	Water Sampled: 20	024-08-13 07:46				
Calculated Parameters						
Total Trihalomethanes	0.0352	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	0.0068	N/A	0.0020	mg/L	2024-08-16	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-08-16	
Dichloroacetic Acid	0.0109	N/A	0.0020	mg/L	2024-08-16	
Trichloroacetic Acid	0.0089	N/A	0.0020	mg/L	2024-08-16	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-08-16	
Total Haloacetic Acids (HAA5)	0.0266	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	99		70-130	%	2024-08-16	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	0.0021	N/A	0.0010	mg/L	2024-08-16	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-08-16	
Chloroform	0.0331	N/A	0.0010	mg/L	2024-08-16	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-08-16	
Surrogate: Toluene-d8	101		70-130	%	2024-08-16	
Surrogate: 4-Bromofluorobenzene	74		70-130	%	2024-08-16	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TOPeachland, Corporation of the District ofWORK ORDER24H1604PROJECTChemistryREPORTED2024-08-20 16:02

Analysis Description	Method Ref.	Technique	Accredited	Location
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	√	Richmond
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond

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)

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

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

EPA United States Environmental Protection Agency Test Methods

Guidelines Referenced in this Report:

Guidelines for Canadian Drinking Water Quality (Health Canada, September 2022)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user

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:TeamCaro@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

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.

REPORTED TO Peachland. Corporation of the District of

> 5806 Beach Avenue PEACHLAND, BC V0H 1X7

ATTENTION Jon Poole WORK ORDER 24C1441

PO NUMBER

2024-03-12 15:35 / 8.7°C RECEIVED / TEMP General Potability 2024-03-21 09:32 **PROJECT** REPORTED **PROJECT INFO COC NUMBER** No 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 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

regulation

Through research, 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 TeamCaro@caro.ca

Authorized By:

Team CARO

Client Service Representative

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 | #108 4475 Wayburne Drive Burnaby, BC V5G 4X4





REPORTED TO	Peachland, Corporation of the District of	WORK ORDER	24C1441
PROJECT	General Potability	REPORTED	2024-03-21 09:32

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Ist Use Sink - Comprehensive (24C1441	-01) Matrix: Wate	er Sampled: 2024-0	03-12 08:25			
Anions						
Chloride	7.82	AO ≤ 250	0.10	mg/L	2024-03-13	
Fluoride	< 0.10	MAC = 1.5		mg/L	2024-03-13	
Nitrate (as N)	0.035	MAC = 10	0.010		2024-03-13	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2024-03-13	
Sulfate	14.6	AO ≤ 500	1.0	mg/L	2024-03-13	
Calculated Parameters						
Total Trihalomethanes	0.0275	MAC = 0.1	0.00400	mg/L	N/A	
Hardness, Total (as CaCO3)	108	None Required	0.500		N/A	
Langelier Index	-0.6	N/A	-5.0		2024-03-20	СТ6
Solids, Total Dissolved	130	AO ≤ 500	10000000	mg/L	N/A	3/93/110,3250
General Parameters						
Alkalinity, Total (as CaCO3)	95.5	N/A	1.0	mg/L	2024-03-14	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-03-14	
Alkalinity, Bicarbonate (as CaCO3)	95.5	N/A	1.0	mg/L	2024-03-14	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-03-14	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-03-14	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2024-03-14	
Conductivity (EC)	225	N/A	2.0	μS/cm	2024-03-14	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-03-13	
pH	7.39	7.0-10.5	0.10	pH units	2024-03-14	HT2
Temperature, at pH	21.3	N/A		°C	2024-03-14	HT2
Turbidity	0.20	OG < 1	0.10	NTU	2024-03-14	
laloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-03-21	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-03-21	
Dichloroacetic Acid	0.0072	N/A	0.0020	mg/L	2024-03-21	
Trichloroacetic Acid	0.0057	N/A	0.0020	mg/L	2024-03-21	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	ma/L	2024-03-21	
Total Haloacetic Acids (HAA5)	0.0129	MAC = 0.08	0.00200		N/A	
Surrogate: 2-Bromopropionic Acid	97		70-130	%	2024-03-21	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2024-03-13	
E. coli	< 1	MAC = 0		CFU/100 mL	2024-03-13	
Total Metals					2000	
Aluminum, total	0.0051	OG < 0.1	0.0050	mg/L	2024-03-19	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	No. of Contract of	2024-03-19	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050		2024-03-19	
Barium, total	0.0217	MAC = 2	0.0050	Name of the Control	2024-03-19	
Boron, total	< 0.0500	MAC = 5	0.0500		2024-03-19	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010		2024-03-19	
X		out Results, Obvio		J. –		Page 2





REPORTED TO	Peachland, Corporation of the District of	WORK ORDER	24C1441
PROJECT	General Potability	REPORTED	2024-03-21 09:32

st Use Sink - Comprehensive (24C1441	Result	Guideline	RL	Units	Analyzed	Qualifie
	-01) Matrix: Wate	er Sampled: 2024-0)3-12 08:25,	Continued		
otal Metals, Continued						
Calcium, total	35.8	None Required	0.20	mg/L	2024-03-19	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-03-19	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-03-19	
Copper, total	0.00360	MAC = 2	0.00040	mg/L	2024-03-19	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2024-03-19	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-03-19	
Magnesium, total	4.45	None Required	0.010		2024-03-19	
Manganese, total	< 0.00020	MAC = 0.12	0.00020		2024-03-19	
Mercury, total	< 0.000010	MAC = 0.001	0.000010		2024-03-17	
Molybdenum, total	0.0115	N/A	0.00010		2024-03-19	
Nickel, total	< 0.00040	N/A	0.00040		2024-03-19	
Potassium, total	1.53	N/A	2000 1000	mg/L	2024-03-19	
Selenium, total	< 0.00050	MAC = 0.05	0.00050		2024-03-19	
Sodium, total	7.24	AO ≤ 200	0.000 0.000	mg/L	2024-03-19	
Strontium, total	0.219	MAC = 7	0.0010		2024-03-19	
Uranium, total	0.000068	MAC = 0.02	0.000020		2024-03-19	
Zinc, total	< 0.0040	AO ≤ 5	0.00020		2024-03-19	
Chloroform Dibromochloromethane	0.0257 < 0.0010	N/A N/A	0.0010	mg/L	2024-03-20 2024-03-20	
Dibromochloromethane	< 0.0010	N/A	100.000.000		2024-03-20	
Surrogate: Toluene-d8	103		70-130	%	2024-03-20	
Surrogate: 4-Bromofluorobenzene	93		70-130	%	2024-03-20	
law - Peachland Creek Sample (24C144	1-U2) Watrix: Wai	er Sampled: 2024	-03-12 08:11			
venta resistante recisiante la supressiona de sinda de la companya del la companya de la company						
nions	2.53	AO ≤ 250	0.10	ma/L	2024-03-13	
<i>nions</i> Chloride	2.53 < 0.10	AO ≤ 250 MAC = 1.5	300 000	mg/L	2024-03-13 2024-03-13	
<i>nions</i> Chloride Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2024-03-13	
unions Chloride Fluoride Nitrate (as N)	< 0.10 0.021	MAC = 1.5 MAC = 10	0.10 0.010	mg/L mg/L	2024-03-13 2024-03-13	
Inions Chloride Fluoride Nitrate (as N) Nitrite (as N)	< 0.10 0.021 < 0.010	MAC = 1.5 MAC = 10 MAC = 1	0.10 0.010 0.010	mg/L mg/L mg/L	2024-03-13 2024-03-13 2024-03-13	
Inions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	< 0.10 0.021	MAC = 1.5 MAC = 10	0.10 0.010 0.010	mg/L mg/L	2024-03-13 2024-03-13	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters	< 0.10 0.021 < 0.010 14.1	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	2024-03-13 2024-03-13 2024-03-13 2024-03-13	
Inions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes	< 0.10 0.021 < 0.010 14.1 < 0.00400	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 mg/L	2024-03-13 2024-03-13 2024-03-13 2024-03-13 N/A	
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate alculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3)	< 0.10 0.021 < 0.010 14.1 < 0.00400 108	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 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	2024-03-13 2024-03-13 2024-03-13 2024-03-13 N/A N/A	010
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate alculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index	< 0.10 0.021 < 0.010 14.1 < 0.00400 108 -0.8	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	mg/L mg/L mg/L mg/L mg/L mg/L	2024-03-13 2024-03-13 2024-03-13 2024-03-13 N/A N/A 2024-03-20	CT6
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	< 0.10 0.021 < 0.010 14.1 < 0.00400 108	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1 None Required	0.10 0.010 0.010 1.0 0.00400 0.500 -5.0	mg/L mg/L mg/L mg/L mg/L	2024-03-13 2024-03-13 2024-03-13 2024-03-13 N/A N/A	CT6
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved Ceneral Parameters	< 0.10 0.021 < 0.010 14.1 < 0.00400 108 -0.8 119	MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 MAC = 0.1 None Required N/A AO ≤ 500	0.10 0.010 0.010 1.0 0.00400 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2024-03-13 2024-03-13 2024-03-13 2024-03-13 N/A N/A 2024-03-20 N/A	CT6
Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Total Trihalomethanes Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	< 0.10 0.021 < 0.010 14.1 < 0.00400 108 -0.8	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 1.00	mg/L mg/L mg/L mg/L mg/L mg/L	2024-03-13 2024-03-13 2024-03-13 2024-03-13 N/A N/A 2024-03-20	CT6



REPORTED TOPeachland, Corporation of the District ofWORK ORDER24C1441PROJECTGeneral PotabilityREPORTED2024-03-21 09:32

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Raw - Peachland Creek Sample (24C14	141-02) Matrix: Wa	ter Sampled: 2024	-03-12 08:11	Continued		
General Parameters, Continued						
Alkalinity, Bicarbonate (as CaCO3)	91.9	N/A	1.0	mg/L	2024-03-14	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-03-14	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-03-14	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2024-03-14	
Conductivity (EC)	208	N/A	2.0	μS/cm	2024-03-14	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-03-13	
pH	7.28	7.0-10.5	0.10	pH units	2024-03-14	HT2
Temperature, at pH	21.3	N/A		°C	2024-03-14	HT2
Turbidity	0.71	OG < 1	0.10	NTU	2024-03-14	
laloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-03-21	
Monobromoacetic Acid	< 0.0020	N/A	0.0020		2024-03-21	
Dichloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-03-21	
Trichloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-03-21	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2024-03-21	
Total Haloacetic Acids (HAA5)	< 0.00200	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	98	57,000 1500 170 170 170 170 170 170 170 170 170 1	70-130	%	2024-03-21	
Coliforms, Total (Q-Tray) E. coli (Q-Tray)	52 25	MAC = 0 MAC = 0		MPN/100 mL MPN/100 mL	2024-03-13 2024-03-13	
Total Metals						
Aluminum, total	0.0088	OG < 0.1	0.0050	mg/L	2024-03-19	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-03-19	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-03-19	
Barium, total	0.0216	MAC = 2	0.0050	mg/L	2024-03-19	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-03-19	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-03-19	
Calcium, total	36.1	None Required	0.20	mg/L	2024-03-19	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-03-19	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-03-19	
Copper, total	0.00084	MAC = 2	0.00040	mg/L	2024-03-19	
Iron, total	0.022	AO ≤ 0.3	0.010	mg/L	2024-03-19	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-03-19	
Magnesium, total	4.44	None Required	0.010	mg/L	2024-03-19	
Manganese, total	0.00404	MAC = 0.12	0.00020	mg/L	2024-03-19	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-03-17	
Molybdenum, total	0.0114	N/A	0.00010	mg/L	2024-03-19	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2024-03-19	
Potassium, total	1.53	N/A	0.10	mg/L	2024-03-19	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-03-19	
Sodium, total	4.47	AO ≤ 200	0.10	mg/L	2024-03-19	

Page 4 of 7





REPORTED TOPeachland, Corporation of the District ofWORK ORDER24C1441PROJECTGeneral PotabilityREPORTED2024-03-21 09:32

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Raw - Peachland Creek Sample (24C14	41-02) Matrix: Wate	er Sampled: 2024	-03-12 08:11,	Continued		
Total Metals, Continued						
Strontium, total	0.219	MAC = 7	0.0010	mg/L	2024-03-19	
Uranium, total	0.00128	MAC = 0.02	0.000020	mg/L	2024-03-19	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-03-19	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	< 0.0010	N/A	0.0010	mg/L	2024-03-20	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2024-03-20	
Chloroform	< 0.0010	N/A	0.0010	mg/L	2024-03-20	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2024-03-20	
Surrogate: Toluene-d8	110		70-130	%	2024-03-20	
Surrogate: 4-Bromofluorobenzene	103		70-130	%	2024-03-20	

Sample Qualifiers:

CT6 Results were based on lab temperature & lab pH.

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Peachland, Corporation of the District of **PROJECT**

General Potability

WORK ORDER REPORTED

24C1441 2024-03-21 09:32

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Kelowna
Conducti∨ity 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
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	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
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓.	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
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)

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

CFU/100 mL Colony Forming Units per 100 millilitres

CU Colour Units (referenced against a platinum cobalt standard)

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

MPN/100 mL Most Probable Number per 100 millilitres

NTU Nephelometric Turbidity Units OG Operational Guideline (treated water) pH units pH < 7 = acidic, ph > 7 = basic µS/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 Peachland, Corporation of the District of PROJECT General Potability

WORK ORDER REPORTED 24C1441 2024-03-21 09:32

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:TeamCaro@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 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

REPORTED TO Peachland, Corporation of the District of

5806 Beach Avenue

PEACHLAND, BC V0H 1X7

Jon Poole **ATTENTION**

PO NUMBER

PROJECT General Potability

PROJECT INFO

RECEIVED / TEMP

REPORTED **COC NUMBER**

WORK ORDER

24K2239

2024-11-19 14:57 / 9.8°C 2024-11-28 12:24

No 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



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, 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 TeamCaro@caro.ca

Authorized By:

Team CARO

Client Service Representative

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 | #108 4475 Wayburne Drive Burnaby, BC V5G 4X4



REPORTED TOPeachland, Corporation of the District ofWORK ORDER24K2239PROJECTGeneral PotabilityREPORTED2024-11-28 12:24

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Peachland Creek (24K2239-01) Matrix:	Water Sampled:	2024-11-19 09:37				
Anions						
Chloride	2.34	AO ≤ 250	0.10	mg/L	2024-11-20	
Fluoride	0.16	MAC = 1.5	0.10	mg/L	2024-11-20	
Nitrate (as N)	0.011	MAC = 10	0.010	mg/L	2024-11-20	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2024-11-20	
Sulfate	13.1	AO ≤ 500	1.0	mg/L	2024-11-20	
Calculated Parameters						
Hardness, Total (as CaCO3)	97.3	None Required	0.500	ma/L	N/A	
Langelier Index	-0.09	N/A	-5.0		2024-11-22	СТ6
Solids, Total Dissolved	109	AO ≤ 500	(//////////	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	84.7	N/A	1.0	mg/L	2024-11-20	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.01.000	mg/L	2024-11-20	
Alkalinity, Bicarbonate (as CaCO3)	84.7	N/A	190,00	mg/L	2024-11-20	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	08000	mg/L	2024-11-20	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	100000	mg/L	2024-11-20	
Colour, True	6.5	AO ≤ 15		CU	2024-11-21	
Conductivity (EC)	211	N/A	1007600	μS/cm	2024-11-20	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	- Appendix Appendix	2024-11-20	
H	8.00	7.0-10.5	SECONDALIA IN	pH units	2024-11-20	HT2
Temperature, at pH	22.8	N/A	17/1/2	°C	2024-11-20	HT2
Turbidity	0.30	OG < 1	0.10	NTU	2024-11-21	
Microbiological Parameters	\$755a & 15 5a A	A-1007 69		2000	App 200000 VEO1001-VEO	
		1440-0		MDNIMOO	2024 44 22	
Coliforms, Total (Q-Tray)	55	MAC = 0 MAC = 0		MPN/100 mL MPN/100 mL	2024-11-20	
E. coli (Q-Tray)	1	MAC = 0		MPN/100 mL	2024-11-20	
Total Metals	27222					
Aluminum, total	0.0089	OG < 0.1	0.0050		2024-11-21	
Antimony, total	< 0.00020	MAC = 0.006	0.00020		2024-11-21	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050		2024-11-21	
Barium, total	0.0214	MAC = 2	0.0050		2024-11-21	
Boron, total	< 0.0500	MAC = 5	0.0500		2024-11-21	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010		2024-11-21	
Calcium, total	32.3	None Required		mg/L	2024-11-21	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	10 1. U.S	2024-11-21	
Cobalt, total	< 0.00010	N/A	0.00010		2024-11-21	
Copper, total	0.00071	MAC = 2	0.00040		2024-11-21	
Iron, total	0.030	AO ≤ 0.3	0.010		2024-11-21	
Lead, total	< 0.00020	MAC = 0.005	0.00020		2024-11-21	
Magnesium, total	4.00	None Required	0.010	DELLE CASS	2024-11-21	
Manganese, total	0.00668	MAC = 0.12	0.00020	700.00 × 10.00	2024-11-21	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-11-21	





Rev 2024-11

REPORTED TO Peachland, Corporation PROJECT General Potability		n of the District of	n of the District of		WORK ORDER REPORTED	24K2239 2024-11-2	28 12:24
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifie
Peachland Creek	(24K2239-01) Matrix: \	Water Sampled: :	2024-11-19 09:37, C	Continued			
Total Metals, Conti	nued						
Molybdenum, total		0.0109	N/A	0.00010	mg/L	2024-11-21	
Nickel, total		< 0.00040	N/A	0.00040	mg/L	2024-11-21	
Potassium, total		1.54	N/A	0.10	mg/L	2024-11-21	
Selenium, total		< 0.00050	MAC = 0.05	0.00050	mg/L	2024-11-21	
Sodium, total		3.94	AO ≤ 200	0.10	mg/L	2024-11-21	
Strontium, total		0.200	MAC = 7	0.0010	mg/L	2024-11-21	
Uranium, total		0.000919	MAC = 0.02	0.000020	mg/L	2024-11-21	
Zinc, total		< 0.0040	AO ≤ 5	0.0040	mg/L	2024-11-21	
Ponderosa PRV 1	āp (24K2239-02) Matri	x: Water Sample	d: 2024-11-19 10:1	1			
Anions							
Chloride		6.25	AO ≤ 250	0.10	mg/L	2024-11-20	
Fluoride		0.15	MAC = 1.5	0.10	mg/L	2024-11-20	
Nitrate (as N)		0.013	MAC = 10	0.010	mg/L	2024-11-20	
Nitrite (as N)		< 0.010	MAC = 1	0.010	mg/L	2024-11-20	
Sulfate		12.9	AO ≤ 500	1.0	mg/L	2024-11-20	
Calculated Parame	ters						
Total Trihalometha	nes	0.0212	MAC = 0.1	0.00400	mg/L	N/A	
Hardness, Total (a	s CaCO3)	97.0	None Required	0.500	mg/L	N/A	
Langelier Index		-0.08	N/A	-5.0		2024-11-22	CT6
Solids, Total Disso	lved	114	AO ≤ 500	1.00	mg/L	N/A	
General Parameters	s						
Alkalinity, Total (as	CaCO3)	84.2	N/A	1.0	mg/L	2024-11-20	
\$1000000000000000000000000000000000000	hthalein (as CaCO3)	< 1.0	N/A	10000	mg/L	2024-11-20	
Alkalinity, Bicarbor		84.2	N/A	2000	mg/L	2024-11-20	
Alkalinity, Carbona		< 1.0	N/A	50000	mg/L	2024-11-20	
Alkalinity, Hydroxid	TOTAL MATERIAL CONTROL	< 1.0	N/A	Name of the last o	mg/L	2024-11-20	
Colour, True	COURT ASSESS - ESSESSESSESSESSES	< 5.0	AO ≤ 15	5.0	NOTE: SOL	2024-11-21	
Conductivity (EC)		223	N/A	2.0	μS/cm	2024-11-20	
Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	mg/L	2024-11-20	
pH		8.01	7.0-10.5		pH units	2024-11-20	HT2
Temperature, at pl	1	23.4	N/A		°C	2024-11-20	HT2
Turbidity		< 0.10	OG < 1	0.10	NTU	2024-11-21	
Haloacetic Acids							
Monochloroacetic	Acid	< 0.0020	N/A	0.0020	mg/L	2024-11-22	
	Acid	< 0.0020	N/A	0.0020		2024-11-22	
Monobromoacetic	/ Colu		90000000	Paragraph and the second secon	- 7	0004 44 00	
Monobromoacetic Dichloroacetic Acid	no recommon.	0.0056	N/A	0.0020	mg/L	2024-11-22	
	1	0.0056 0.0068	N/A N/A	0.0020		2024-11-22	
Dichloroacetic Acid	d d				mg/L		

Caring About Results, Obviously.

Page 3 of 7





REPORTED TO Peachland, Corporation of the District of PROJECT General Potability

WORK ORDER REPORTED

24K2239 2024-11-28 12:24

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Ponderosa PRV Tap (24K2239-02) Ma	trix: Water Sample	d: 2024-11-19 10:11	, Continued			
Haloacetic Acids, Continued						
Surrogate: 2-Bromopropionic Acid	100		70-130	%	2024-11-22	
Microbiological Parameters						
2000 1000 No 2001 (440)	< 1	MAC = 0	ä	CEL1/100 ml	2024 44 20	
Coliforms, Total E. coli	<1	MAC = 0		CFU/100 mL CFU/100 mL	2024-11-20 2024-11-20	
L. COII		WAC - 0		CI O/100 IIIL	2024-11-20	
Total Metals						
Aluminum, total	0.0074	OG < 0.1	0.0050	mg/L	2024-11-21	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-11-21	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	ORDER AND A	2024-11-21	
Barium, total	0.0216	MAC = 2	0.0050	770 III - IA III I	2024-11-21	
Boron, total	< 0.0500	MAC = 5	0.0500	475 IV = 41 IV. V	2024-11-21	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-11-21	
Calcium, total	32.1	None Required	0.20	mg/L	2024-11-21	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-11-21	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-11-21	
Copper, total	0.00044	MAC = 2	0.00040	790 A = 0.00 A	2024-11-21	
Iron, total	< 0.010	AO ≤ 0.3	0.010		2024-11-21	
Lead, total	< 0.00020	MAC = 0.005	0.00020	rome once	2024-11-21	
Magnesium, total	4.07	None Required	0.010	0.012000	2024-11-21	
Manganese, total	< 0.00020	MAC = 0.12	0.00020	mg/L	2024-11-21	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-11-21	
Molybdenum, total	0.0110	N/A	0.00010	mg/L	2024-11-21	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2024-11-21	
Potassium, total	1.61	N/A	0.10	mg/L	2024-11-21	
Selenium, total	< 0.00050	MAC = 0.05	0.00050		2024-11-21	
Sodium, total	5.82	AO ≤ 200		mg/L	2024-11-21	
Strontium, total	0.204	MAC = 7	0.0010		2024-11-21	
Uranium, total	0.000061	MAC = 0.02	0.000020	mg/L	2024-11-21	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-11-21	
olatile Organic Compounds (VOC)						
Bromodichloromethane	0.0017	N/A	0.0010	mg/L	2024-11-23	
Bromoform	< 0.0010	N/A	0.0010	- 170	2024-11-23	
Chloroform	0.0195	N/A	0.0010	mg/L	2024-11-23	
Dibromochloromethane	< 0.0010	N/A	0.0010		2024-11-23	
Surrogate: Toluene-d8	93		70-130	%	2024-11-23	
Surrogate: 4-Bromofluorobenzene	84		70-130	%	2024-11-23	
Community Centre Janitors Sink (24K	2239-03) Matrix: W	ater Sampled: 202	<mark>4-11-19</mark> 10:4	7		
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2024-11-20	
E. coli	<1	MAC = 0		CFU/100 mL	2024-11-20	
PCCCD-PNADNOUNV	20 M	170145 EV				Page 4 o





REPORTED TO Peachland, Corporation of the District of **PROJECT**

General Potability

WORK ORDER REPORTED

24K2239

2024-11-28 12:24

Guideline RL Units Qualifier Analyte Result Analyzed

Sample Qualifiers:

CT6 Results were based on lab temperature $\&\, \text{lab}\,\, \text{pH}.$

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is

recommended.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Peachland, Corporation of the District of **PROJECT**

General Potability

WORK ORDER REPORTED

24K2239 2024-11-28 12:24

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	₹	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Coliforms, Total in Water	SM 9223 (2016)	Quanti-Tray / Enzyme Substrate Endo Agar	✓	Kelowna
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Kelowna
Conducti∨ity 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
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9223 (2016)	Quanti-Tray / Enzyme Substrate Endo Agar	✓	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
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
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)

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

°C Degrees Celcius

Aesthetic Objective AO

CFU/100 mL Colony Forming Units per 100 millilitres

Colour Units (referenced against a platinum cobalt standard) CU

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

MPN/100 mL Most Probable Number per 100 millilitres

NTU Nephelometric Turbidity Units OG Operational Guideline (treated water) pH < 7 = acidic, ph > 7 = basic pH units μS/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 Peachland, Corporation of the District of PROJECT General Potability

WORK ORDER REPORTED 24K2239 2024-11-28 12:24

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:TeamCaro@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.

Appendix II – 2024 Water Consumption

	Total Volume (m3)	Total Volume (ML)
Month	Peachland Distribution System	Peachland Distribution System
January	97916	97.916
February	89314	89.314
March	102086	102.086
April	143895	143.895
May	247286	247.286
June	271811	271.811
July	381247	381.247
August	340105	340.105
September	246835	246.835
October	144329	144.329
November	92384	92.384
December	93139	93.139
Annual	2250347	2250.347

Appendix III – Turbidity data, pH and free chlorine residual data

	Peachland WTP										
	Ja	nuary		Fe	bruary		N	/larch			
Date	Turbidity	рН	FCR	Turbidity	рН	FCR	Turbidity	рН	FCR		
1	0.02	8.02	1.23	0.04	7.91	1.03	0.02	7.88	0.77		
2	0.02	8.02	1.23	0.05	7.90	1.19	0.02	7.89	0.87		
3	0.02	8.02	1.21	0.04	7.91	1.26	0.02	7.89	0.97		
4	0.02	8.03	1.20	0.03	7.93	1.21	0.02	7.88	1.01		
5	0.02	8.03	1.22	0.03	7.94	1.12	0.02	7.88	0.96		
6	0.02	8.02	1.17	0.03	7.97	1.01	0.02	7.87	0.88		
7	0.02	8.02	1.16	0.03	7.99	1.15	0.03	7.92	0.88		
8	0.02	8.02	1.18	0.03	7.97	1.12	0.02	7.81	0.90		
9	0.02	8.01	1.16	0.03	7.97	1.22	0.02	7.78	0.98		
10	0.02	8.01	1.17	0.02	7.96	1.15	0.02	7.80	0.93		
11	0.03	8.01	1.10	0.02	7.96	1.09	0.02	7.79	0.95		
12	0.02	8.03	0.97	0.02	7.96	1.09	0.02	7.79	0.93		
13	0.02	8.04	0.99	0.02	7.95	1.04	0.02	7.78	0.90		
14	0.02	8.02	0.91	0.02	7.95	1.09	0.02	7.78	0.98		
15	0.02	8.00	0.90	0.02	7.96	1.06	0.02	7.78	0.95		
16	0.02	7.99	0.93	0.02	7.95	0.98	0.02	7.78	0.94		
17	0.02	8.00	0.91	0.02	7.96	1.07	0.02	7.78	0.93		
18	0.02	8.00	1.16	0.02	7.96	1.10	0.02	7.79	0.93		
19	0.02	7.99	1.17	0.02	7.95	1.10	0.02	7.78	0.94		
20	0.02	7.98	1.09	0.02	7.95	1.03	0.02	7.78	0.92		
21	0.02	7.97	1.05	0.02	7.94	0.95	0.02	7.78	0.91		
22	0.02	7.96	1.02	0.02	7.95	0.99	0.02	7.79	0.95		
23	0.02	7.96	1.03	0.02	7.95	0.92	0.02	7.80	0.93		
24	0.02	7.94	0.97	0.02	7.94	0.95	0.02	7.78	1.06		
25	0.02	7.93	0.98	0.02	7.93	1.02	0.02	7.78	1.46		
26	0.02	7.91	0.92	0.02	7.91	0.96	0.02	7.78	1.34		
27	0.02	7.90	0.91	0.02	7.90	0.92	0.02	7.77	1.17		
28	0.02	7.89	0.88	0.02	7.89	0.87	0.02	7.76	1.10		
29	0.03	7.90	0.89				0.02	7.76	1.04		
30	0.04	7.88	0.87				0.02	7.76	1.01		
31	0.04	7.89	0.86				0.02	7.76	1.03		
	Turbidity n	neasure	d in NTI	J							
				ual and is m	easure	d in mg/	L/L				

	Peachland WTP										
	April			May			June				
Date	Turbidity	рН	FCR	Turbidity	рΗ	FCR	Turbidity	рН	FCR		
1	0.02	7.77	1.04	0.03	7.66	1.15	0.03	7.98	1.26		
2	0.02	7.77	1.05	0.03	7.64	1.14	0.03	7.97	1.25		
3	0.02	7.77	1.05	0.03	7.55	1.12	0.03	8.03	1.28		
4	0.02	7.77	1.01	0.03	7.57	1.05	0.03	8.07	1.33		
5	0.02	7.76	1.01	0.03	7.73	1.16	0.03	8.10	1.41		
6	0.02	7.76	1.02	0.03	7.79	1.08	0.03	8.12	1.57		
7	0.02	7.76	1.05	0.03	7.83	1.05	0.03	8.13	1.60		
8	0.02	7.76	1.01	0.03	7.86	1.18	0.03	8.12	1.47		
9	0.02	7.78	0.99	0.03	7.87	1.18	0.03	8.09	1.32		
10	0.02	7.78	0.99	0.03	7.85	1.23	0.03	8.05	1.28		
11	0.02	7.79	0.96	0.03	7.89	1.30	0.03	8.08	1.34		
12	0.02	7.80	0.94	0.04	8.06	1.36	0.03	8.11	1.34		
13	0.02	7.80	0.97	0.04	8.09	1.28	0.03	8.13	1.34		
14	0.02	7.79	0.98	0.05	8.10	1.34	0.03	8.13	1.41		
15	0.02	7.79	0.96	0.04	8.11	1.39	0.03	8.13	1.44		
16	0.02	7.80	0.95	0.02	8.00	1.34	0.03	8.17	1.44		
17	0.02	7.80	0.96	0.02	7.94	1.42	0.03	8.15	1.35		
18	0.02	7.80	0.90	0.02	7.92	1.43	0.03	8.15	1.35		
19	0.02	7.81	0.95	0.02	7.92	1.28	0.03	8.15	1.35		
20	0.02	7.80	0.93	0.02	7.95	1.23	0.03	8.16	1.33		
21	0.02	7.81	0.96	0.03	7.94	1.19	0.03	8.17	1.30		
22	0.02	7.82	1.05	0.02	7.94	1.18	0.03	8.18	1.31		
23	0.02	7.82	1.05	0.03	7.96	1.14	0.03	8.22	1.32		
24	0.02	7.81	1.00	0.03	7.94	1.16	0.03	8.21	1.29		
25	0.02	7.77	0.98	0.03	7.93	1.12	0.03	8.18	1.26		
26	0.02	7.67	0.98	0.03	7.90	1.14	0.03	8.19	1.27		
27	0.02	7.64	0.94	0.03	7.90	1.27	0.03	8.20	1.30		
28	0.02	7.58	1.00	0.03	7.87	1.23	0.03	8.20	1.27		
29	0.03	7.68	1.02	0.03	7.88	1.26	0.03	8.19	1.27		
30	0.03	7.70	1.11	0.03	7.96	1.32	0.03	8.22	1.26		
31				0.03	8.02	1.29					

Turbidity measured in NTU

FCR = Free Chlorine Residual and is measured in mg/L

	Peachland WTP										
	July			August			September				
Date	Turbidity	рН	FCR	Turbidity	рН	FCR	Turbidity	рН	FCR		
1	0.03	8.26	1.27	0.03	8.32	1.38	0.03	8.14	1.22		
2	0.03	8.28	1.27	0.03	8.32	1.36	0.03	8.18	1.22		
3	0.03	8.29	1.29	0.03	8.32	1.31	0.03	8.17	1.23		
4	0.03	8.29	1.29	0.03	8.32	1.27	0.03	8.15	1.25		
5	0.03	8.29	1.30	0.03	8.30	1.25	0.03	8.19	1.23		
6	0.03	8.27	1.28	0.03	8.29	1.25	0.03	8.19	1.20		
7	0.03	8.26	1.32	0.03	8.27	1.26	0.03	8.19	1.18		
8	0.03	8.26	1.34	0.03	8.25	1.24	0.03	8.19	1.17		
9	0.03	8.24	1.33	0.03	8.21	1.25	0.03	8.20	1.15		
10	0.03	8.22	1.33	0.03	8.23	1.23	0.03	8.18	1.13		
11	0.03	8.21	1.28	0.03	8.24	1.24	0.03	8.09	1.03		
12	0.03	8.23	1.29	0.03	8.25	1.23	0.03	8.00	1.07		
13	0.03	8.21	1.29	0.03	8.23	1.21	0.03	8.02	1.56		
14	0.03	8.26	1.32	0.03	8.24	1.22	0.03	8.07	1.27		
15	0.03	8.28	1.34	0.03	8.24	1.22	0.03	8.08	1.19		
16	0.03	8.31	1.34	0.03	8.23	1.21	0.03	8.04	1.20		
17	0.03	8.31	1.35	0.03	8.23	1.21	0.03	8.04	1.20		
18	0.03	8.35	1.36	0.03	8.25	1.18	0.03	8.03	1.21		
19	0.03	8.33	1.34	0.03	8.17	1.12	0.03	7.97	1.35		
20	0.03	8.35	1.34	0.03	8.10	1.05	0.03	7.92	1.17		
21	0.03	8.29	1.37	0.03	8.10	1.04	0.03	7.93	1.16		
22	0.03	8.29	1.35	0.03	8.08	1.04	0.03	7.95	1.14		
23	0.03	8.28	1.33	0.03	8.11	1.04	0.03	7.91	1.16		
24	0.03	8.31	1.33	0.03	8.13	0.89	0.03	7.90	1.11		
25	0.03	8.26	1.35	0.03	8.18	1.15	0.03	7.93	1.13		
26	0.03	8.26	1.35	0.03	8.16	1.31	0.03	7.86	1.13		
27	0.03	8.32	1.51	0.03	8.17	1.28	0.03	7.88	1.15		
28	0.03	8.33	1.68	0.03	8.17	1.28	0.03	7.87	1.16		
29	0.03	8.28	1.49	0.03	8.15	1.25	0.03	7.89	1.19		
30	0.03	8.30	1.46	0.03	8.07	1.21	0.03	7.92	1.18		
31	0.03	8.32	1.38	0.03	8.12	1.23					

Turbidity measured in NTU

FCR = Free Chlorine Residual and is measured in mg/L

	Peachland WTP										
	Oct	ober		Nove	mber		December				
Date	Turbidity	рН	FCR	Turbidity	рН	FCR	Turbidity	рН	FCR		
1	0.03	7.92	1.19	0.03	7.91	1.30	0.03	7.89	1.01		
2	0.03	7.90	1.21	0.03	7.91	1.30	0.03	7.89	1.10		
3	0.03	7.89	1.21	0.03	7.86	1.04	0.03	7.89	1.31		
4	0.03	7.88	1.23	0.03	7.84	0.99	0.03	7.88	1.35		
5	0.03	7.87	1.29	0.03	7.83	0.71	0.03	7.87	1.09		
6	0.03	7.86	1.29	0.03	7.88	0.96	0.03	7.86	1.22		
7	0.03	7.87	1.34	0.03	7.88	1.08	0.03	7.85	1.19		
8	0.03	7.87	1.34	0.03	7.89	0.94	0.03	7.87	1.13		
9	0.03	7.87	1.36	0.03	7.92	1.01	0.03	7.89	1.19		
10	0.03	7.84	1.38	0.03	7.89	1.13	0.03	7.89	1.34		
11	0.03	7.81	1.21	0.03	7.89	1.10	0.04	7.89	1.41		
12	0.03	7.84	1.15	0.03	7.90	1.07	0.04	7.89	1.30		
13	0.03	7.86	1.20	0.03	7.91	1.07	0.05	7.91	1.13		
14	0.03	7.90	1.32	0.03	7.93	1.07	0.05	7.92	1.26		
15	0.03	7.89	1.19	0.03	7.91	1.19	0.05	7.91	1.41		
16	0.03	7.91	1.16	0.03	7.90	1.26	0.05	7.92	1.64		
17	0.03	7.88	1.17	0.03	7.90	1.33	0.05	7.92	1.22		
18	0.03	7.88	1.12	0.03	7.90	1.38	0.05	7.94	0.94		
19	0.03	7.91	0.98	0.03	7.90	1.45	0.04	7.92	1.10		
20	0.03	7.89	1.16	0.03	7.91	1.50	0.03	7.91	1.26		
21	0.03	7.89	1.39	0.03	7.90	1.36	0.03	7.91	1.20		
22	0.03	7.91	1.71	0.03	7.91	1.13	0.03	7.90	1.21		
23	0.03	7.90	1.36	0.03	7.91	1.22	0.03	7.90	1.27		
24	0.03	7.90	1.20	0.03	7.90	1.23	0.03	7.90	1.18		
25	0.03	7.90	1.12	0.03	7.90	1.21	0.03	7.91	1.20		
26	0.03	7.92	1.13	0.03	7.89	1.17	0.03	7.91	1.20		
27	0.03	7.93	1.04	0.03	7.91	1.13	0.04	7.91	1.14		
28	0.03	7.93	0.99	0.03	7.92	1.03	0.04	7.91	1.04		
29	0.03	7.92	0.98	0.03	7.89	1.05	0.03	7.90	1.07		
30	0.03	7.91	1.08	0.03	7.89	1.13	0.03	7.90	1.00		
31	0.03	7.91	1.30				0.03	7.90	0.96		

Turbidity measured in NTU

FCR = Free Chlorine Residual and is measured in mg/L