



ROAD
CLOSED

Annual Water Report 2025



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Executive Summary

There is very little more important to a community than the safe, reliable supply of drinking water. This report is part of that annual commitment to our water service and also transparency to the community about the current status of our water system and planned improvements.

The Prince Rupert water system delivered 5.55 million m³ of potable water over the reporting period, serving an estimated 13,200 residents across approximately 6,000 service connections spanning residential, commercial, and industrial users. All water supplied to the community was measured through the system's primary flow meter located at Shawatlans Lake.

To ensure regulatory compliance and safeguard public health, the City conducts regular water quality testing including 341 bacteriological samples, 20 trihalomethane (THM) samples, 16 haloacetic acid (HAA) samples, 12 Cryptosporidium/Giardia samples, and 20 dissolved organic carbon (DOC) and treated organic carbon (TOC) samples. These sampling efforts reflect a robust commitment to water-quality oversight.

The system continues to face significant operational challenges, most notably a high rate of water main breaks, and water quality notices – totaling 59 days of impacts over 2025. This issue is driven by aging infrastructure and the corrosive coastal environment, resulting in elevated maintenance demands, service disruptions, and long-term risks to system reliability.

Despite these challenges, the City advanced several major initiatives aimed at strengthening water security and modernizing the system. Key upcoming improvements include the rechlorination pilot project, ongoing BIG Project infrastructure works, and continued water treatment piloting to support future treatment-plant planning and regulatory compliance.

Collectively, these efforts demonstrate the City's commitment to improving water quality, enhancing system resilience, and ensuring the long-term sustainability of Prince Rupert's drinking water supply.

Water Statistics



5,553,035 m³ in water produced



15,598 m³ water/day per capita



15 water main breaks

51%

of water unaccounted for

49

hydrants or stand pipes flushed monthly

9

formal water quality complaints received in Operations

Introduction

The annual water report is an important part of providing Prince Rupert residents with information regarding the quality and the risks associated with the drinking water supply system. It also provides users with educational information, ongoing challenges, and planned improvements to the water supply system. Community water systems are governed by the British Columbia Drinking Water Protection Act which sets out requirements for drinking water operators and suppliers to ensure the provision of safe drinking water to their customers. In this report, we also provide additional information on ongoing infrastructure replacement priorities within the water system as we work to continue to enhance the safety and standards of our drinking water provision.

Drinking water can be a complex issue and much of the information provided in this report is technical in nature. If you have any questions or concerns about the information in this report, please feel free to contact the City's Operations Department.

Operations Department

Phone: (250) 624 6795

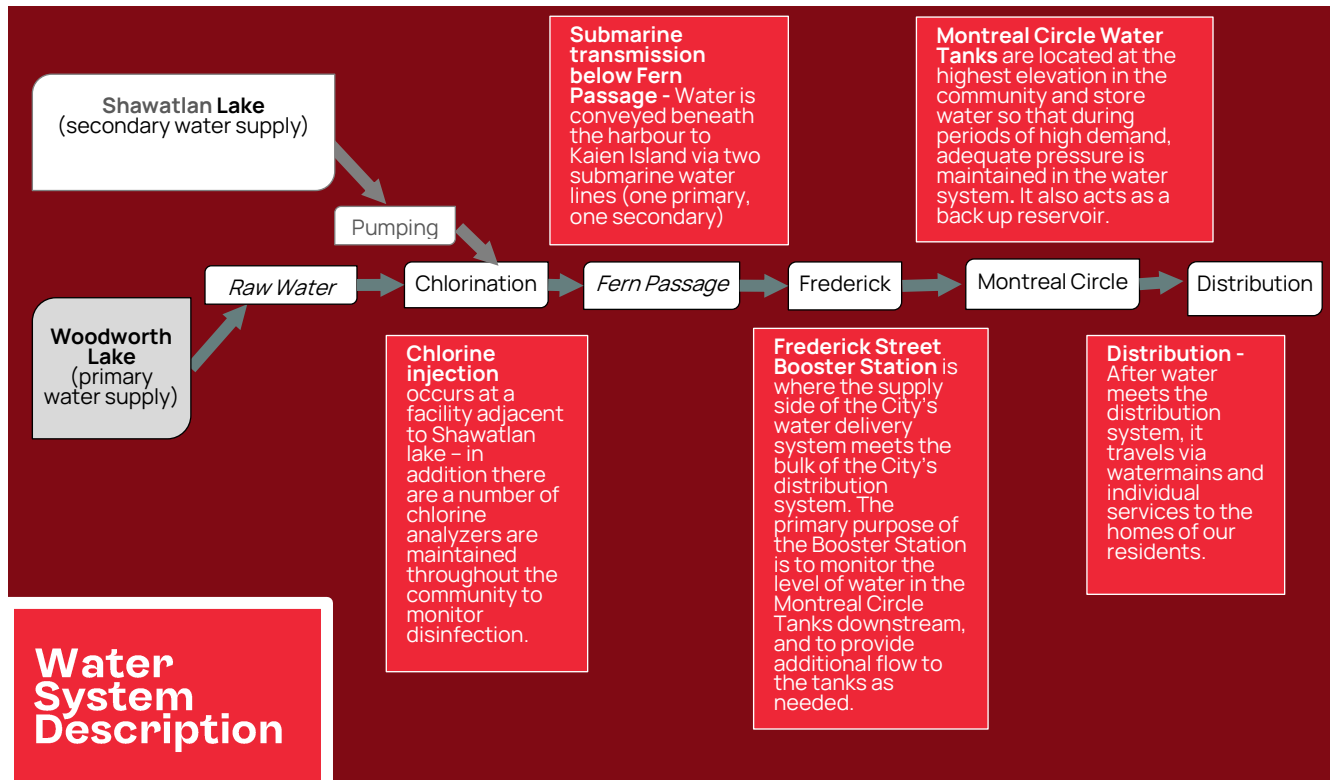
Email: works@princerupert.ca

Water System Description

The Prince Rupert Community Water System, owned and operated by the City of Prince Rupert, feeds approximately 6 million cubic metres of potable water per year to local residents, businesses, and industry, utilizing over 50 kilometres of distribution line and close to 6000 individual service connections. The Community Water System supplies port industries located on Kaien Island, as well as BC Ferries. The system was also built to be capable of meeting the peak seasonal demand of a number of industrial fish processors, an industry that declined following the closure of local canneries.

When active, these users can generate over twice the average daily consumption. This larger sizing of pipes to accommodate that potential demand requires the City to conduct regular flushing of water lines to ensure that the system has adequate water flowing through it to ensure that disinfection remains effective.

See the following page for a schematic diagram and detailed description of the path that water takes through the Community Water System



Water Source(s)

The City of Prince Rupert has two sources of raw water – Woodworth and Shawatlan Lakes - two large lakes and watersheds on the Ts’msyen Peninsula. The primary source of water is Woodworth Lake, at elevation and remotely located in the Coastal Mountain Range, which forms the backbone of the City’s gravity-fed water supply system. [See the map in Appendix A for additional details.](#)

When necessary, the City relies on Shawatlan Lake, at lower elevation, which requires pumping from a shoreside intake to transmit water when in use. The Shawatlan pumping system is a valuable back-up facility to be used in case of emergency or necessary maintenance

activity, and has been vital to the current work on replacing our dam.

Whether powered by gravity or a pumping system, water is transferred from one of these two water sources through an undersea or sub-marine supply main across Fern Passage to the Kaien Island townsite, where it is distributed to local households, businesses and industry. The City is currently in the process of replacing one of the two submarine lines that is at the end of its usable life, in order to protect the redundancy of this critical link in our water supply system.

Watershed Risks

Prince Rupert's community water supply is influenced by the region's intense rainfall, which can trigger turbidity events and elevate the risk of landslides within the watershed. These natural hazards are important considerations for long-term water security planning, yet the watershed itself remains extremely remote, undeveloped, and well protected,

which significantly reduces human-driven contamination pressures. Consistent with this, reservoir testing has shown no presence of PFAS or other "forever chemicals," found in our source water reinforcing the overall integrity of our lake supplies despite the environmental risks associated with heavy precipitation and terrain instability.

System Classification and Operator Certifications

The City of Prince Rupert's Water System has been classified as a Level 1 System for Water Treatment and a Level 2 for Water Distribution by the Environmental

Operators Certification Program (EOCP). See [Appendix D](#) for System Classification Certification.

Methods of Disinfection and Protection

Remote Water Source

One of the most important issues to the community is the quality of the drinking water it delivers. Prince Rupert is lucky to host a water supply well-protected from human interference and potential contamination thanks to its remote location. To ensure this continued benefit,

the City of Prince Rupert maintains restricted access to the watersheds surrounding both Woodworth and Shawatlan Lakes.

Chlorination and Water Quality Testing

Currently, as the primary barrier of defense against the incidence of waterborne disease, the municipality maintains an enduring chlorine residual throughout the water distribution system. Chlorine is the most reliable and widely used drinking water disinfectant in North America. A “residual” is the trace amount of chlorine left in the drinking water after initial disinfection have taken place. As long as a trace of chlorine or residual can be detected, the line is still subject to active disinfection.

For greater public safety and adequate contact time, chlorine is added before the water reaches Kaien Island. Chlorine dosage must be constantly trimmed and balanced to maximize disinfection but minimize the production of disinfection by-products (DBPs), such as Trihalomethanes (THMs) and Haloacetic Acids (HAAs). THMs (trihalomethanes) and HAAs (haloacetic acids) are disinfection byproducts that can form when chlorine, used to make drinking water safe, reacts with naturally occurring organic matter such as leaves and plant material in surface water sources. The amount formed can vary depending on factors like the level of organic material in the source water, water temperature, and the amount of chlorine used during treatment. These byproducts are common in chlorinated drinking water systems and are carefully monitored to ensure they remain within established health



(Pictured Above: The City’s distribution system runs beneath the harbour to Kaien Island)

guidelines. Residual levels are therefore electronically monitored on a constant basis throughout the municipality. In 2025 as in previous years, the City continued to work with Northern Health to adjust chlorination levels, in order to reduce associated levels of chlorination byproducts.

To further check that the chlorination process is working properly and that the water system has not been otherwise compromised, various types of water quality samples are taken daily, weekly, or at other regular intervals. The results of the Water Quality Testing Program are reported to the Provincial Ministry of Health and are available on the Northern Health Authority’s Public Health Protection website at: <http://www.healthspace.ca/nha>, and in the [Water Quality Data section](#) of this Report. In addition, maps of our sampling sites are located in [Appendix A and B](#).

Over 2025, the City experienced challenges in maintaining appropriate chlorine residual levels at the end of our water supply (see below for a summary of results). As a response, in 2026, the City anticipates constructing an additional

chlorination injection site near the existing reservoir on Montreal Circle to support improved effectiveness of our disinfection method. This is an interim improvement to water quality as we work on our broader goals of disinfection.

Future Disinfection

As noted above, the City currently has a single form of treatment – chlorination – that it relies on to disinfect our potable water. However, over the longer term we are working towards a new Water Treatment Facility that will provide secondary forms of treatment, and bring our community in line with Canada-wide best practices. This project has been delayed slightly while we focus on protecting the distribution system through an aggressive renewal plan, to prevent the costly loss of treated water throughout the system. Now that funding for that critical work has been secured, the City will be pursuing the additional funds necessary to develop treatment.

The new treatment facility will address the following:

- Removal of suspended solids that contribute to the colour and turbidity issues with the existing supplied potable water, additionally reducing potential interaction with chlorine and associated byproducts;

- Institution of a secondary form of treatment that can ensure adequate protection against potential water-borne pathogens like Cryptosporidia, which cannot be treated with chlorination alone;
- Reduction of the overall levels of chlorination and associated byproducts present in our water; and,
- Treatment for pH that will reduce the corrosivity of the water and associated health risks to homeowners with lead/copper in home plumbing.

The City engaged with the a Provincial board of reviewers in the engineering phase for this project throughout 2022-2023, with work ultimately held off while the distribution system is addressed, although minor engineering and design works have been continuing. The deadline for completion has been adjusted on the City's Operating Permit to January 2030.

Cross Connection Control

In plumbing systems water is generally maintained at a substantial pressure so that water will flow from taps, showers,

etc on demand. When there is reduced pressure due to a broken water main or high demand on water supply, for

instance, a building’s water pipe may allow contaminated water from the ground, from storage or from other sources to be drawn up into the system, contaminating drinking water. Points at which a drinking water system connects with a non-potable water system are called cross connections. Cross connection mechanisms (called backflow preventers) must be in place to protect the water we drink from contamination.

To reduce potential cross contamination of the City’s potable water, the City has an annual reporting requirement for at-risk commercial water users to ensure that their backflow preventers are working. As per Water Utility Management Bylaw 3401, the City requires that Backflow Preventers are annually tested by a certified professional. The fillable form as well as information on which businesses are required to participate, is [available on the City’s website](#).

Water Quality Data

Sampling Summary

Parameter	Standard	Did we meet the standard?
Escherichia coli (for all samples)	No detectable Escherichia coli per 100 mL	Yes
Total coliform bacteria (more than 1 sample collected in a 30 day period)	No more than 10% of samples contain total coliform bacteria, and no sample has more than 10 total coliform bacteria per 100 mL	Yes. No more than 10% of samples contained total coliform bacteria. 3.79% percent (or 14 of a total 370 samples) had detectable coliform or potential coliform, based on samples collected in September, August, July and May of 2025. This is believed to be due to potential sample contamination, construction related impacts, and flushing requirements.
Treatability of Cryptosporidium and Giardia	No cryptosporidium detected; Giardia within treatable limits (rendered inert via chlorination)	Yes
Turbidity (Naturally occurring particles, both inorganic: clays, silts, metal precipitates, and organic: decomposed plant & animal debris, microorganisms)	0.16-0.53 NTU monthly	No numeric national guideline – operational < 1 NTU desirable to ensure effective treatment; Prince Rupert within typical operational goals;

Free Chlorine Residual	Typical distribution residual range 0.04–2.0 mg/L (free) considered acceptable; minimum ~0.2 mg/L free to control regrowth in pipes (suggested operational) ¹	Within normal operating and safety range
pH	7.34 monthly average pH	Operational guideline 7.0 -10.5 for finished water. All months within guideline range.
Perfluorocarbons (PFAs)	Test results available in Appendix	Results across testing parameters showed amounts less than the reported detection limit for each substance
Temperature	4.4-16.8 degrees C	Not a health standard

**Note – the standard for testable parameters of E-coli and coliforms allows for a small amount of detectable Escherchia coli, with retesting to determine if the parameter was a false positive*

Bacteriological Results

Microbiological sampling requirements are established by Northern Health, and follow the Guidelines for Canadian Drinking Water Quality and the British Columbia Drinking Water Protection Regulation. In 2025, the City conducted weekly sampling at four sample locations within the City,

and monthly sampling at several other sites to meet its permit condition of 20 bacteriological samples each month. The City also conducted monthly protozoology sampling of the source water in accordance with the City’s operating permit. Results are included in the above sampling summary.

Chemical Sampling

Chemical sampling, which occurs every 3 months, identifies results relating to a number of parameters, namely looking for the presence of different metals and especially substances harmful to human health like arsenic, lead and other contaminants. It also measures general water parameters like colour, turbidity, pH,

organic material and alkalinity. The City of Prince Rupert’s source water tests have met all Maximum Acceptable Criteria (MAC) for contaminants specified by the Canadian Drinking Water Guidelines, with the exception of turbidity samples, which have been above the MAC on occasion, historically leading the City to issue Water

Quality Advisories. Turbidity in and of itself is not harmful to human health, however higher turbidity can indicate a greater likelihood of potential bacteriological contamination, so Water Quality Advisories are issued during high turbidity events to alert sensitive users in an abundance of caution.

In addition, along the same lines as turbidity, the City's water colour does not meet the Guideline, however this is an aesthetic objective, rather than a health risk. Finally, due to the above-ground nature of the City's lake-fed source water, the City's pH levels hover below the lower limit of the identified goals for pH, which was updated in 2016 to a range of 7.0 to 10.5 in finished drinking water. This is due to the City's above ground water supply sources, which are subject to slight

Perfluorocarbons Testing

PFAS are per- and polyfluoroalkyl substances. They are a large family of synthetic chemicals, the most common being perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA).

PFAS are used in many industrial and consumer products such as adhesives, cosmetics and cleaning products. They're also used in specialized chemical applications, such as fire-fighting foams, and in water-, stain- and oil-repellent coatings for fabrics and paper.

PFAS do not break down easily and remain (persist) in the environment for long

lowering of pH from rain, as experienced by most coastal communities.

All above noted issues with the chemical composition of the City's water supply and associated required protections have been noted on our Operating Permit ([see conditions below](#)). These issues are unfortunately untreatable with treatment methods within City's current treatment infrastructure, however they will be addressed by the institution of a new water treatment plant, and are a primary impetus behind the upgrade to our system.

Test results regarding the chemical composition of the CWS are listed in [Appendix C](#) of this document. Summary results are also available in the above table.

periods of time. Due to their widespread use and persistence in the environment, some PFAS are found in people, fish and wildlife all over the world. People can be exposed to PFAS through food, drinking water, air, house dust and everyday consumer products.

The current data we have on PFAS in Canadian freshwater sources and drinking water are limited. The data we do have suggest that PFAS are present across Canada at levels generally below the objective. The concentrations of PFAS in freshwater and drinking water may be higher near:

- facilities that use large amounts of these chemicals
- locations where fire-fighting foams containing PFAS were used to put out a fire
- landfills and wastewater treatment plants

PFAS can travel long distances through soil, water and air. As a result, PFAS can be found in freshwater and drinking water in

Access to Water Quality Data

[Northern Health Authority's Public Health Protection website](#) lists all municipal water quality data from within the Northern Health region. This public site lists the following up-to-date information about our water quality monitoring program:

- **Drinking Water inspection Reports**
- **Current Water Notices / Advisories** – At the time of writing of this report, there is a Boil Water Notice in effect for the Community Water Supply. Additional instances of Water Notices/Advisories are noted in the Water Quality Data and Inspection Results section below.
- **Chemical Samples & Results** – Actual chemical analysis test results for 8 key sampling

areas that are far away from where they entered the environment. For additional information on PFAS, [follow the link to the Health Canada website](#).

In 2025, the City initiated testing for perfluorinated compounds in its water supply. Results across testing parameters showed amounts less than the reported detection limit for each substance. See [Appendix D](#) of this document for details.

points going back as far as 1989. See [Appendix D for 2025 Results](#).

- **Water Sample Results** – Actual bacteriological test results for selected sampling points dating back to 1994. “L1” means “less than one” or no coliform issues detected. See [Appendix D for 2025 Results](#).

For more information regarding water quality standards, the following links may be of interest:

- **Northern Health website:** <http://www.healthspace.ca/nha>
- **Guidelines for Canadian Drinking Water Quality:** <http://www.hc-sc.gc.ca/ewh-semt/water-eau/drink-potab/guide/index-eng.php>

Conditions of our Water Operating Permit

The City has a number of conditions to its Operating Permit ([See Appendix C](#)), including corrective actions to be taken until a new treatment system can be constructed.

Monitoring for Cryptosporidium and Giardia

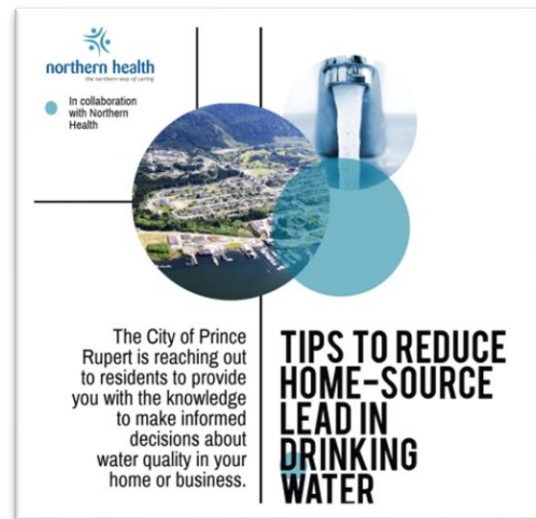
Issue: Provincial surface water treatment objectives are not currently met by the City's single disinfection method – chlorination – as this method cannot achieve 3-log inactivation of Cryptosporidium (although disinfection to inactivate Giardia is being performed). Two independent treatment processes are required for treating surface water sources. Monitoring data also shows that turbidity sometimes exceeds the objective of one nephelometric turbidity unit (NTU) or less. Given this deficiency in the existing system, the City must continue to monitor the source water for Giardia and Cryptosporidium once a month as identified in the operating permit conditions. Over the longer term, the City must also design and implement effective water treatment that meets provincial surface water treatment objectives in accordance with the timeline in the operating permit conditions.

Response: The City has consistently maintained chlorine residual levels to achieve a 3-log inactivation of Giardia following the direction of Northern Health, and has also continued to regularly monitor source water for Giardia cysts and Cryptosporidium oocysts throughout 2023 to ensure that concentrations of these microbiological contaminants remained within treatable limits. In response to the noted turbidity incidents, the City has developed a Turbidity Response Plan as part of its overall Water System Emergency Plan, which has been reviewed and approved by Northern Health, and implemented by the City. Over the longer term, the City's plan is to implement multiple barriers of treatment that will address all drinking water treatment objectives noted above.

Metal Leaching and Corrosion Control

Issue: Water chemistry data indicates that the City's source water is slightly corrosive (with a low pH), and so on private properties that have older plumbing components, leaching of lead and/or copper into drinking water may occur. The City has provided information on potential for lead leaching in drinking water to users in the past, and information is posted on the [City of Prince Rupert's website](#). The City has also conducted a Household Water Sampling Program to collect data on lead and copper levels from a representative sample of over 60 private residences. The results from the sampling show that centralized corrosion control is appropriate. In addition, due to the spread of results, it was determined that City infrastructure is not contributing in a meaningful way to higher results as higher incidences of lead and copper found in samples were sporadic rather than clustered in any given area.

Response: The City has shared information regarding initial results of the Household Water Sampling Program, and publicized the results of its 2019 Household Lead Sampling program in 2020.



(Pictured Above: An informational flyer was sent to all households in 2019)

The City has engaged in further household testing to assess the risk of corrosive water on household plumbing systems in 2020, with results posted following the completion of reporting on 2021 test results. Over the longer term, the City's plan is to implement multiple barriers of treatment that will address all drinking water treatment objectives noted above with respect to the corrosiveness of the water supply.

Exceedances of Chlorination Byproducts

Issue: Levels of trihalomethanes (THMs) and haloacetic acids (HAAs) in the water exceed the maximum acceptable concentrations given in Health Canada's Guidelines for Canadian Drinking Water Quality. These byproducts are found when chlorine interacts with organic material

present in water supplies, and are more prevalent in the summer than winter months.

Response: The City has been engaged with Northern Health since 2020 to propose adjustments to the process for determining chlorination requirements, to

reduce the minimum chlorination concentrations and the resulting concentrations of THMs and HAA. In line with that process, the City measures the levels of THMs and HAAs every three months, and will continue to do so as a condition of our operating permit with results made publicly available via the Northern Health drinking water quality website. In 2025, the City continued to work closely with Northern Health to be

able to reduce chlorination and resulting exceedances of byproducts, though exceedances were not fully eliminated.

Over the longer term, the addition of a secondary form of treatment with the establishment of a new Water Treatment facility will also address this issue. Multiple treatment barriers will reduce the system's current reliance on chlorination, reducing overall byproduct levels.

Public Notifications

2025 Water Quality Advisories/Boil Notices

The following Water Quality Advisories/Notices occurred in the 2025 period:

Boil Water Notice – November 24th, 2024 to February 28th, 2025 – Due to combined factors, including power supply issues. Also, due to the installation of the new water supply main, an isolated section of pipe was identified where water could potentially stagnate. This water had the potential to be reintroduced to the water supply and corrective action was required and undertaken.

Boil Water Notice – August 6th, 2025 to October 3rd, 2025 - Laboratory tests indicated the presence of total coliform bacteria in the drinking water in one section of the community.

Boil Water Notice – November 1st, 2025 – December 19th, 2025 - Boil Water Notice in effect due to potential contamination from construction related complications.

Notification Process

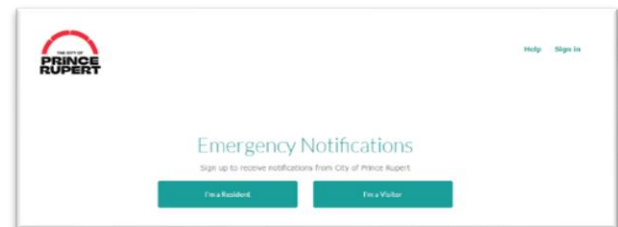
In a drinking water quality concern or emergency, as per the City’s Emergency Water Plan, notice is placed on the home page of the City’s website at princerupert.ca alongside a larger media and public notification effort. Notice is also sent out through the City’s local Emergency Alert Service. Community members can register for emergency alerts online at <https://princerupert.connectrocket.com/>.



(Pictured Above: The City’s website is one of many communications tools we use to notify the public regarding water quality

Emergency Response

Public water systems can be the victims of various types of emergencies from either natural or man-made causes. Some potential emergencies can be averted or have their impact greatly minimized by advance preparation and sound infrastructure planning. Key to emergency planning is the recognition of the need for a certain amount of redundancy in both physical and human resources. In terms of physical resources, Prince Rupert is extremely fortunate to have a secondary source of water at Shawatlan Lake. In 2009, Prince Rupert’s main water source was cut off for a considerable time period when the pipeline from Woodworth Lake was heavily damaged by a landslide. In many communities, this would certainly have qualified as a disaster. In this case however, the Public Works department was utilizing the pumping system already in place at the Shawatlan Lake water source. That system has double power-



(Pictured Above: Head to the Emergency Alert site at: <https://princerupert.connectrocket.com/> to sign up directly for the City’s emergency alerts)

source redundancy, with BC Hydro power as the primary electrical source, backed up by a diesel-powered generator.

In terms of human resources and advanced planning, the City has an Emergency Water Plan that guides emergency response for City personnel and provides notice templates to ensure that communication is consistent and includes relevant precautionary measures that may come into effect, depending on the scenario. An update to the existing

2022 Emergency Water Plan was made in 2025 primarily for the purpose of administrative updates.

In the case of any serious emergency, the Prince Rupert Public Works Department will follow the Emergency Water Plan, working hand-in-hand with all other City departments, local Emergency Services, the Provincial Emergency Program (PEP), the Provincial Ministry of Health through the Northern Health Authority, and other

utilities and organizations as required. Additionally, City Council would be informed in a timely manner regarding all pertinent aspects of the problem as will the general public through the City's website at www.princerupert.ca and all other available media. As noted above, the City has also instituted a smartphone application and landline push notification system which has successfully targeted emergency communications to residents.

Water System Improvements

Annual Maintenance

In 2025, the City of Prince Rupert conducted major planned and unplanned water service infrastructure improvements. Capital water works replacements were completed in various locations around town, including major replacements in the following areas:

BIG Project works continued throughout 2025 to replace failing priority sections of our water supply infrastructure. In addition, City crews focused on break repairs (50 m total) while capital repairs were dominated by BIG Project areas.

Major Capital Repair and Works:

In total, 2.5 km of pipe was replaced within the BIG Project scope:

- 750 m pipe replaced on Applewhaite/Crestview (started in 2024)
- 265 m pipe replaced on Bacon Street
- 1000 m (1 km) Shawatlans Road (Industrial site access)
- 425 m pipe replaced on Alfred Street (substantial completion at end of 2025)
- 160 m 9th Ave West (substantial completion at end of 2025)

Infrastructure Investments

As noted in previous reports, the City has made major strides in upgrading water supply infrastructure through construction of a new dam, access road and burial of major supply line (Phase 1 and 2 of our water infrastructure renewal project). Installation of new SCADA towers in 2024 also have enhanced the technological monitoring capacity of the City's water system.

The third and final phase, which may be broken down further into two projects, involves replacement of one of the submarine lines carrying potable water beneath the harbour from the water supply to the community, and the development of a new water treatment facility. Work on the submarine water line was ongoing throughout 2025, with anticipated completion of this project in 2026.

In addition to the first phases of our water infrastructure project, the City has also taken on major renewal of water supply infrastructure in areas of the community that are considered high priority due to their likelihood and risk of failure (the BIG Project – as noted in the replacement data on the previous page). This work began in 2024 through replacement of the major supply line that carries water from the end point of the submarine line into the



(**Pictured Above:** SCADA towers are part of ongoing work to enhance communications security to our water supply).

community along Frederick Street/Prince Rupert Blvd. The work on this line as well as design work for priority corridors went on throughout 2025. In 2025, the City also saw the BIG (Big Infrastructure Gap) project move into residential neighbourhoods, specifically Crestview Drive, Bacon Street, Alfred Street, 9th Avenue West, and Victoria Street.

As previously mentioned, our water treatment project is currently on hold while major improvements to water supply lines are completed, though minor engineering work is continuing and the City intends to install a secondary chlorination injection facility adjacent to Montreal Circle reservoir in 2026.

Summary

The City of Prince Rupert continues to prioritize the replacement of aged water supply infrastructure located across the harbour at the dam site. In 2018, work initiated in 2016-2017 was completed to renew and bury our water supply line and build an associated access road. Greater security and water quality certainty has been achieved through burying the supply line, currently subject to falling trees and landslides. Additionally, an access road will permit quality checks in all weather conditions, and ease of access in case of any incident or emergency. Dam completion occurred in Fall of 2022, which secures the City's water supply for generations to come, and enabled the City to return to its primary water supply at Woodworth Lake in early 2023.

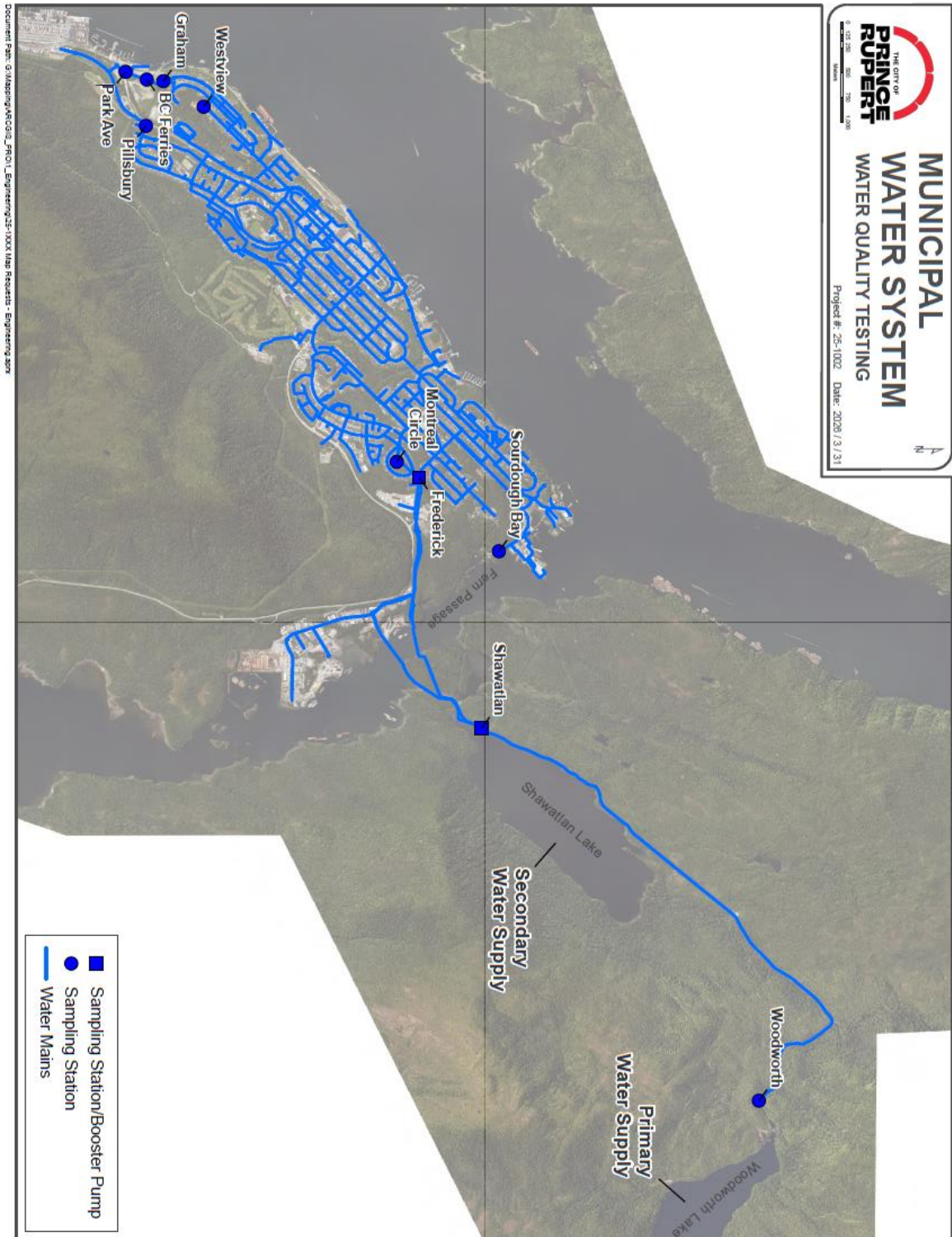
Improvements in turbidity readings were notable throughout 2023-2024 since returning to the primary water supply. In 2024-2025, the BIG Project to replace failing sections of our water system has been a top priority to prevent potential catastrophic failure of our distribution system. Alongside that priority, advocacy work to secure the additional funds needed to implement water treatment has been under way throughout 2025, with the date for mandated treatment adjusted to January 2030 in the current permit. In addition, the City is seeking to enhance the efficiency and effectiveness of existing chlorination treatment by installing a secondary injection site on Kaien Island in 2026 – 2027.

Contact

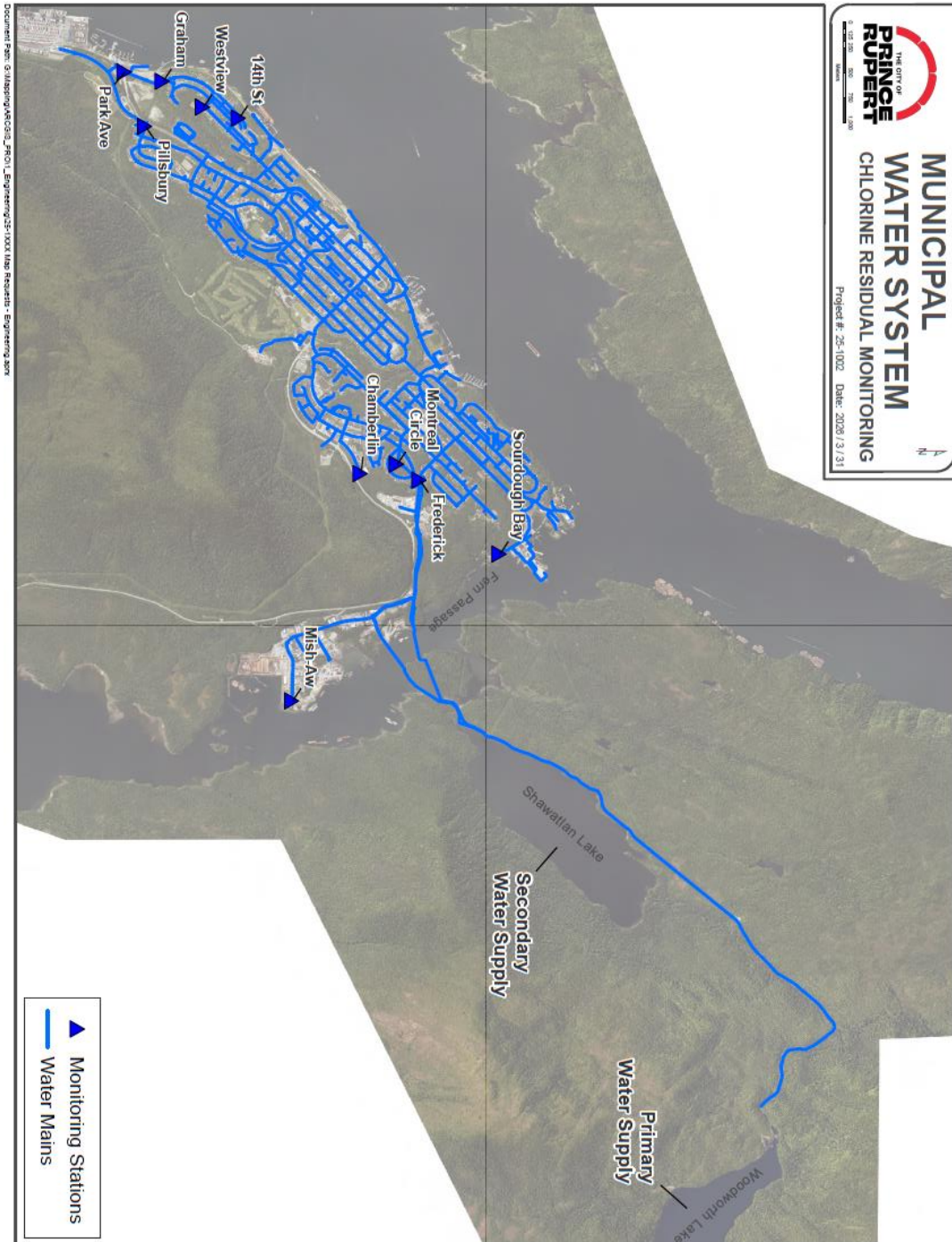
For Additional Information, contact:

Jordan Schmidt, Director of Operations,
Operations Department
(250) 624 6795 ext. 228
jordan.schmidt@princerupert.ca

Appendix A



Appendix B



Appendix C

PERMIT TO OPERATE A Drinking Water System with 301-10000 Connections

System Name: Prince Rupert CWS
Physical Location: 424 3rd Avenue West
Prince Rupert BC

Owner Name: City Of Prince Rupert

Conditions of Permit

Permitted to Operate: Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec

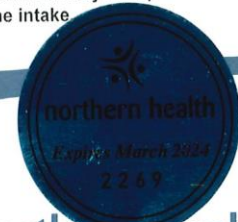
- >Maintain a minimum of 20 water bacteriology samples per month unless the Environmental Health Officer requests a greater frequency.
- >Maintain a minimum of 1 water protozoology (Giardia and Cryptosporidium) sample per month, unless the Environmental Health Officer requests greater frequency.
- >Minimum chlorine residual of 0.2 ppm shall be maintained within the distribution system and monitored daily.
- >Submit water chemistry data every 6 months, unless the Environmental Health Officer requests a greater frequency.
- >An up-to-date Emergency Response plan shall be maintained.
- >Operator must be trained and certified to the level specified by the Environmental Operators Certification Program.
- >Monitor water quality parameters in accordance with the Giardia Treatment Monitoring Plan and maintain a sufficient free available chlorine concentration to achieve at least a 3-log inactivation of Giardia cysts.
- >By 01 Nov 2023 (Adjusted from 01 Jan 2022), proposed water treatment that: a) meets the 3-2-1-0 treatment objectives given in the Drinking Water Treatment Objectives (Microbiological) for Surface Water Supplies in British Columbia guidelines, b) includes corrective measure(s) for reducing corrosion of lead-containing materials at residential sites and c) will reduce levels of trihalomethanes and haloacetic acids to below their respective maximum acceptable concentrations given in the Guidelines for Canadian Drinking Water Quality. The proposal must be in the form of construction permit application(s) to the public health engineer.
- >By 01 January 2025 (adjusted from 01 Jan 2024) implement water treatment that a)meets the 4-3-2-1-0 treatment objectives given in the Drinking Water Treatment Objectives (Microbiological) for Surface Water Supplies in British Columbia guidelines, b) includes corrective measure(s) for reducing corrosion of lead-containing materials at residential sites and c) will reduce levels of trihalomethanes and haloacetic acids to below their respective maximum acceptable concentrations given in the Guidelines for Canadian Drinking Water Quality.
- >After implementation of corrective measure(s) for reducing corrosion of lead-containing materials at residential sites, conduct sampling for lead and copper levels to investigate the effectiveness of the measure(s) used to control corrosion. Sampling is to be conducted in accordance with the "option 1 (two-tier protocol)" given in Health Canada's Guidance on Controlling Corrosion in Drinking Water Distribution Systems. The concentration of lead needs to be less than or equal to 0.015 mg/L in at least 90% of the samples collected at residential sites.
- >Inspect raw water pipe screen, grate and dam face quarterly for a period of 3 years (until January 2026) to assess raw water impacts from the accumulation of algae or other materials near the intake

1-Jul-1992
Effective Permit Date
5-May-2023

Permit Revised Date

This permit must be displayed in a conspicuous place and is non-transferable

[Signature]
Environmental Health Officer



northern health
the northern way of caring

>By 01 Jan 2028 (Adjusted from 01 Nov 2023, originally 01 Jan 2021), proposed water treatment that: a) meets the 3-2-1-0 treatment objectives given in the Drinking Water Treatment Objectives (Microbiological) for Surface Water Supplies in British Columbia guidelines, b) includes corrective measure(s) for reducing corrosion of lead-containing materials at residential sites and c) will reduce levels of trihalomethanes and haloacetic acids to below their respective maximum acceptable concentrations given in the Guidelines for Canadian Drinking Water Quality. The proposal must be in the form of construction permit application(s) to the public health engineer.

>By 01 Jan 2030 (adjusted from 01 Jan 2025, originally 01 Jan 2024) implement water treatment that a)meets the 4-3-2-1-0 treatment objectives given in the Drinking Water Treatment Objectives (Microbiological) for Surface Water Supplies in British Columbia guidelines, b) includes corrective measure(s) for reducing corrosion of lead-containing materials at residential sites and c) will reduce levels of trihalomethanes and haloacetic acids to below their respective maximum acceptable concentrations given in the Guidelines for Canadian Drinking Water Quality.

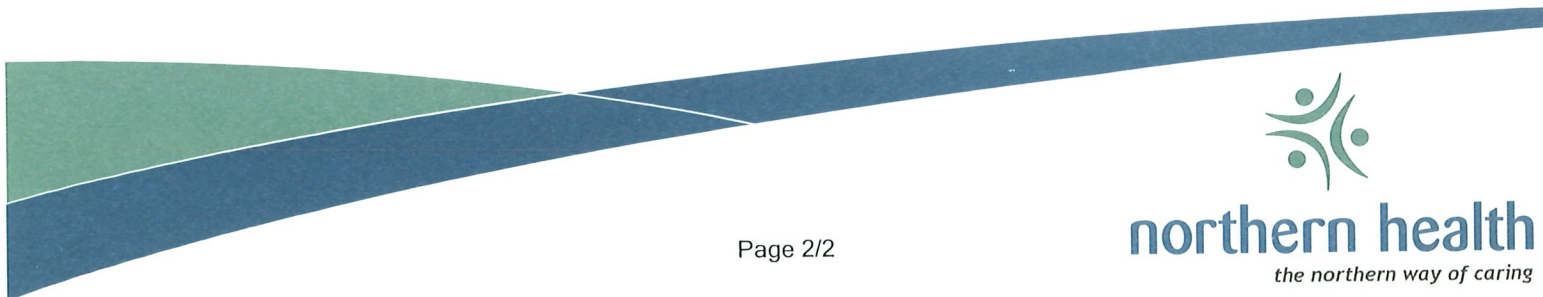
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>Inspect raw water pipe screen, grate and dam face quarterly for a period of 3 years (until January 2026) to assess raw water impacts from the accumulation of algae or other materials near the intake.

1-Jul-1992
Effective Permit Date


Environmental Health Officer

20-Oct-2023
Permit Revised Date
*This permit must be displayed
in a conspicuous place and is non-transferable*



Appendix D

See following pages for 2025 Water Test Results.

Sample Range Report

Northern Health - Northwest Health Service Delivery Area

Facility Name: Prince Rupert CWS
Facility Type: WS1A
Date Range: Jan 1 2025 to Dec 31 2025
Date Created: Feb 09 2026

Operator Jordan Schmidt
424 - 3rd Avenue West
Prince Rupert, BC V8J 1L7

<u>Sampling Site</u>	<u>Date Collected</u>	<u>Total Coliform</u>	<u>E. Coli</u>	<u>Fecal Coliform</u>
<u>Montreal Circle</u>				
<u>Reservoir, Prince</u>				
<u>Rupert</u>				
	1-7-2025	L1	L1	
	1-14-2025	L1	L1	
	1-28-2025	L1	L1	
	2-4-2025	L1	L1	
	2-11-2025	L1	L1	
	2-18-2025	L1	L1	
	2-24-2025	L1	L1	
	2-25-2025	L1	L1	
	3-4-2025	L1	L1	
	3-11-2025	L1	L1	
	3-18-2025	L1	L1	
	3-25-2025	L1	L1	
	4-1-2025	L1	L1	
	4-7-2025	L1	L1	
	4-15-2025	L1	L1	
	4-22-2025	L1	L1	
	4-29-2025	L1	L1	
	5-6-2025	L1	L1	
	5-13-2025	L1	L1	
	5-20-2025	L1	L1	
	5-27-2025	L1	L1	
	6-3-2025	L1	L1	
	6-10-2025	L1	L1	
	6-17-2025	L1	L1	
	6-24-2025	L1	L1	
	7-2-2025	L1	L1	
	7-8-2025	L1	L1	
	7-15-2025	L1	L1	
	7-22-2025	L1	L1	
	7-29-2025	L1	L1	
	8-5-2025	L1	L1	
	8-12-2025	L1	L1	
	8-19-2025	L1	L1	
	8-26-2025	L1	L1	
	9-2-2025	L1	L1	

9-9-2025	L1	L1	
9-17-2025	L1	L1	
9-23-2025	L1	L1	
10-1-2025	L1	L1	
10-7-2025	L1	L1	
10-14-2025	L1	L1	
10-21-2025	L1	L1	
10-28-2025	L1	L1	
11-4-2025	L1	L1	
11-12-2025	L1	L1	
11-17-2025 9:20:00 AM	REJCT DELAY3	REJCT DELAY3	
12-1-2025 9:00:00 AM	LT1	LT1	
12-8-2025 9:10:00 AM	LT1	LT1	
12-15-2025 9:10:00 AM	LT1	LT1	
12-16-2025 8:50:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

Park Avenue
Flushing Station,

1-28-2025	L1	L1
2-24-2025	L1	L1
2-25-2025	L1	L1
3-25-2025	L1	L1
4-1-2025	L1	L1
4-7-2025	L1	L1
4-15-2025	L1	L1
4-22-2025	L1	L1
4-29-2025	L1	L1
5-6-2025	L1	L1
5-13-2025	L1	L1
5-20-2025	L1	L1
5-27-2025	L1	L1
6-3-2025	L1	L1
6-10-2025	L1	L1
6-17-2025	L1	L1
6-24-2025	L1	L1
7-8-2025	L1	L1
7-15-2025	3	L1
7-18-2025	L1	L1
7-22-2025	L1	L1
7-29-2025	99 B5	L1
8-5-2025	1 B3	L1
8-12-2025	L1	L1
8-19-2025	186 B26	L1
8-26-2025	L1	L1
9-2-2025	OG TC Pres	L1
9-9-2025	L1	L1
9-17-2025	L1	L1
9-23-2025	1	L1

10-1-2025	L1	L1	
10-7-2025	L1	L1	
10-14-2025	L1	L1	
10-21-2025	L1	L1	
10-28-2025	L1	L1	
11-4-2025	L1	L1	
11-12-2025	L1	L1	
11-17-2025 10:50:00 AM	REJCT DELAY3	REJCT DELAY3	
12-1-2025 9:00:00 AM	LT1	LT1	
12-8-2025 9:10:00 AM	LT1	LT1	
12-15-2025 8:30:00 AM	LT1	LT1	
12-16-2025 9:55:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	5	0	0

Pillsbury Station,
Pillsbury Avenue, At
Park Avenue, Prince
Rupert

1-7-2025	L1	L1
1-14-2025	L1	L1
1-28-2025	L1	L1
2-4-2025	L1	L1
2-11-2025	L1	L1
2-18-2025	L1	L1
2-24-2025	L1	L1
2-25-2025	L1	L1
3-4-2025	L1	L1
3-11-2025	L1	L1
3-18-2025	L1	L1
3-25-2025	L1	L1
4-1-2025	L1	L1
4-7-2025	L1	L1
4-15-2025	L1	L1
4-22-2025	L1	L1
4-29-2025	L1	L1
5-6-2025	L1	L1
5-13-2025	L1	L1
5-20-2025	L1	L1
5-27-2025	L1	L1
6-3-2025	L1	L1
6-10-2025	L1	L1
6-17-2025	L1	L1
6-24-2025	L1	L1
7-2-2025	L1	L1
7-8-2025	L1	L1
7-15-2025	L1	L1
7-22-2025	L1	L1
7-29-2025	L1	L1
8-5-2025	22 B18	L1

8-12-2025	L1	L1	
8-19-2025	L1	L1	
8-26-2025	L1	L1	
9-2-2025	L1 B1	L1	
9-9-2025	L1 B2	L1	
9-17-2025	L1	L1	
9-23-2025	L1	L1	
10-1-2025	L1	L1	
10-7-2025	L1	L1	
10-14-2025	L1	L1	
10-21-2025	L1	L1	
10-28-2025	L1	L1	
11-4-2025	L1	L1	
11-12-2025	L1	L1	
11-17-2025 10:35:00 AM	REJCT DELAY3	REJCT DELAY3	
12-1-2025 10:00:00 AM	LT1	LT1	
12-8-2025 10:30:00 AM	LT1	LT1	
12-15-2025 10:25:00 AM	LT1	LT1	
12-16-2025 10:15:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	1	0	0

Graham Avenue
Cul-de-sac Flushing
Station,

1-28-2025	L1	L1
2-24-2025	L1	L1
2-25-2025	L1	L1
3-25-2025	L1	L1
4-1-2025	L1	L1
4-7-2025	L1	L1
4-15-2025	L1	L1
4-22-2025	L1	L1
4-29-2025	L1	L1
5-6-2025	L1 B1	L1
5-13-2025	L1	L1
5-20-2025	L1	L1
5-27-2025	L1	L1
6-3-2025	L1	L1
6-10-2025	L1	L1
6-17-2025	L1	L1
6-24-2025	L1	L1
7-8-2025	L1	L1
7-15-2025	L1	L1
7-22-2025	L1	L1
7-29-2025	1	L1
8-5-2025	L1	L1
8-12-2025	L1	L1
8-19-2025	L1	L1
8-26-2025	L1	L1

9-2-2025	49 B4	L1	
9-9-2025	L1	L1	
9-17-2025	L1	L1	
9-23-2025	L1	L1	
10-7-2025	L1	L1	
10-14-2025	L1	L1	
10-21-2025	L1	L1	
10-28-2025	L1	L1	
11-4-2025	L1	L1	
11-12-2025	L1	L1	
11-18-2025 8:55:00 AM	L1	L1	
12-1-2025 9:30:00 AM	LT1	LT1	
12-8-2025 10:30:00 AM	LT1	LT1	
12-15-2025 9:30:00 AM	LT1	LT1	
12-16-2025 9:45:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	2	0	0

2nd Ave W. Flushing Station, Intersection of 2nd Ave W and 17th Street

1-28-2025	L1	L1	
2-24-2025	L1	L1	
2-25-2025	L1	L1	
3-25-2025	L1	L1	
4-1-2025	L1	L1	
4-7-2025	L1	L1	
4-15-2025	L1	L1	
4-22-2025	L1	L1	
4-29-2025	L1	L1	
5-6-2025	L1	L1	
5-13-2025	L1	L1	
5-20-2025	L1	L1	
5-27-2025	L1	L1	
6-3-2025	L1	L1	
6-10-2025	L1	L1	
6-17-2025	L1	L1	
6-24-2025	L1	L1	
7-8-2025	L1	L1	
7-15-2025	L1	L1	
7-22-2025	L1	L1	
7-29-2025	7 B2	L1	
8-12-2025	L1 B2	L1	
8-19-2025	11 B2	L1	
8-26-2025	L1	L1	
9-2-2025	G200 B4	L1	
9-9-2025	L1	L1	
9-17-2025	L1	L1	
9-23-2025	L1	L1	

10-1-2025	L1	L1	
10-7-2025	L1	L1	
10-14-2025	L1	L1	
10-21-2025	L1	L1	
10-28-2025	L1	L1	
11-4-2025	L1	L1	
11-12-2025	L1	L1	
11-18-2025 9:45:00 AM	L1	L1	
12-1-2025 10:00:00 AM	LT1	LT1	
12-8-2025 10:40:00 AM	LT1	LT1	
12-15-2025 10:00:00 AM	LT1	LT1	
12-16-2025 9:45:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	3	0	0

Sourdough Bay
Flushing Stn, Seal
Cove, Prince Rupert

1-7-2025	L1	L1
1-14-2025	L1	L1
1-28-2025	L1	L1
2-4-2025	L1	L1
2-11-2025	L1	L1
2-18-2025	L1	L1
2-24-2025	L1	L1
2-25-2025	L1	L1
3-4-2025	L1	L1
3-11-2025	L1	L1
3-18-2025	L1	L1
3-25-2025	L1	L1
4-1-2025	L1	L1
4-7-2025	L1	L1
4-15-2025	L1	L1
4-22-2025	L1	L1
4-29-2025	L1	L1
5-6-2025	L1	L1
5-13-2025	L1	L1
5-20-2025	L1	L1
5-27-2025	L1	L1
6-3-2025	L1	L1
6-10-2025	L1	L1
6-17-2025	L1	L1
6-24-2025	L1	L1
7-2-2025	L1	L1
7-8-2025	L1	L1
7-15-2025	L1	L1
7-22-2025	L1	L1
7-29-2025	L1	L1
8-5-2025	L1	L1
8-12-2025	L1	L1

8-19-2025	L1	L1	
8-26-2025	L1	L1	
9-2-2025	L1	L1	
9-9-2025	L1	L1	
9-17-2025	L1	L1	
9-23-2025	L1	L1	
10-1-2025	L1	L1	
10-7-2025	L1	L1	
10-14-2025	L1	L1	
10-21-2025	L1	L1	
10-28-2025	L1	L1	
11-4-2025	L1	L1	
11-12-2025	L1	L1	
11-17-2025 9:50:00 AM	REJCT DELAY3	REJCT DELAY3	
12-1-2025 9:30:00 AM	LT1	LT1	
12-8-2025 9:40:00 AM	LT1	LT1	
12-15-2025 9:45:00 AM	LT1	LT1	
12-16-2025 9:15:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

Frederick Station,
Prince Rupert, BC

1-7-2025	L1	L1
1-14-2025	L1	L1
1-28-2025	L1	L1
2-4-2025	L1	L1
2-11-2025	L1	L1
2-18-2025	L1	L1
2-24-2025	L1	L1
2-25-2025	L1	L1
3-4-2025	L1	L1
3-11-2025	L1	L1
3-18-2025	L1	L1
3-25-2025	L1	L1
4-1-2025	L1	L1
4-7-2025	L1	L1
4-15-2025	L1	L1
4-22-2025	L1	L1
4-29-2025	L1	L1
5-6-2025	L1	L1
5-13-2025	L1	L1
5-20-2025	L1	L1
5-27-2025	L1	L1
6-3-2025	L1	L1
6-10-2025	L1	L1
6-17-2025	L1	L1
6-24-2025	L1	L1
7-2-2025	L1	L1
7-8-2025	L1	L1

7-15-2025	L1	L1	
7-22-2025	L1	L1	
7-29-2025	L1	L1	
8-5-2025	1	L1	
8-12-2025	L1	L1	
8-19-2025	L1	L1	
8-26-2025	L1	L1	
9-2-2025	L1	L1	
9-9-2025	L1	L1	
9-17-2025	L1	L1	
9-23-2025	L1	L1	
10-1-2025	L1	L1	
10-7-2025	L1	L1	
10-14-2025	L1	L1	
10-21-2025	L1	L1	
10-28-2025	L1	L1	
11-4-2025	L1	L1	
11-12-2025	L1	L1	
11-17-2025 8:55:00 AM	REJCT DELAY3	REJCT DELAY3	
12-1-2025 8:40:00 AM	LT1	LT1	
12-8-2025 8:45:00 AM	LT1	LT1	
12-15-2025 8:45:00 AM	LT1	LT1	
12-16-2025 8:35:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	1	0	0

BC Ferries Water Service,

1-28-2025	L1	L1
2-24-2025	L1	L1
2-25-2025	L1	L1
3-25-2025	L1	L1
4-1-2025	L1	L1
4-7-2025	L1	L1
4-15-2025	L1	L1
4-22-2025	L1	L1
4-29-2025	L1	L1
5-6-2025	L1	L1
5-13-2025	L1	L1
5-20-2025	L1	L1
5-27-2025	L1	L1
6-3-2025	L1	L1
6-10-2025	L1	L1
6-17-2025	L1	L1
6-24-2025	L1	L1
7-8-2025	L1	L1
7-15-2025	L1	L1
7-22-2025	L1	L1
7-29-2025	1	L1
8-5-2025	L1	L1

8-12-2025	L1	L1	
8-19-2025	L1	L1	
8-26-2025	L1	L1	
9-2-2025	1 B1	L1	
9-9-2025	L1	L1	
9-17-2025	L1	L1	
9-23-2025	L1	L1	
10-1-2025	L1	L1	
10-7-2025	L1	L1	
10-14-2025	L1	L1	
10-21-2025	L1	L1	
10-28-2025	L1	L1	
11-4-2025	L1	L1	
11-12-2025	L1	L1	
11-18-2025 9:20:00 AM	L1	L1	
12-1-2025 9:50:00 AM	LT1	LT1	
12-8-2025 10:20:00 AM	LT1	LT1	
12-15-2025 9:20:00 AM	LT1	LT1	
12-16-2025 10:00:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	2	0	0

14th Street &
Graham Avenue,
1637 Graham
Avenue

2-24-2025	<u>L1</u>	<u>L1</u>	
Total Positive:	0	0	0

450 dead-end
sample point, 1637
Graham Avenue

2-24-2025	L1	L1	
2-25-2025	L1	L1	
12-8-2025 9:10:00 AM	LT1	LT1	
12-15-2025 9:00:00 AM	<u>LT1</u>	<u>LT1</u>	
Total Positive:	0	0	0

600 dead-end
sample point, 1637
Graham Avenue

2-24-2025	L1	L1	
2-25-2025	<u>L1</u>	<u>L1</u>	
Total Positive:	0	0	0

Result Values:

E - estimated

L - less than

G - greater than

Samples that contain total coliform:	14	3.78% of total
Samples that contain e. coli:	0	0.00% of total
Samples that contain fecal coliform:	0	0.00% of total
Number of consecutive samples that contain total coliform:	1	
Number of samples that contain total coliform in last 30 days:	0/0	
Total number of samples:	370	

Comments:

Environmental Health Officer

Feb 9 2026

FOR FURTHER INFORMATION PLEASE CALL: NW EHO 6 (250) 631-4222

Definitions:

- Total Coliforms: total coliforms are organisms that are found all around us in the environment (ie on plants, animals and humans). They may or may not be harmful. Northern Health uses these organisms as indicator organisms. If total coliforms are found in the water, that indicates to the Environmental Health Officer (EHO) that other organisms may also be present.
- Fecal Coliforms: bacterial contamination from human or animal waste (feces).
- Escherichia coli: bacterial contamination from human or animal waste (feces).

Codes:

- A: means not tested; likely sample is too long in transit to the lab.
- B# (number) or BG: means the number of non-coliform background bacteria colonies. High numbers (>200) may indicate deteriorating water quality
- CFU: colony forming units
- E. Coli: means Escherichia coli.
- EST: means estimated count.
- L1: means less than 1 (<1) – essentially 0. Satisfactory.
- OG: means overgrowth of bacterial colonies; not possible to count coliform bacteria – unsatisfactory.
- R: means not tested; resample is likely required
- T: means not tested; likely sample is too long in transit to the lab.
- TNTC: means too numerous to count Similar to OG – unsatisfactory.

ANALYTICAL REPORT

City of Prince Rupert
424 3rd Avenue West
Prince Rupert, BC V8J 1L7
water@princerupert.ca

Work Order: N25C030

RECEIVED: 25-Feb-2025

Project: Drinking Water

Project Number: -

Project Manager: Public Works Department

REPORTED: 05-May-2025

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25C030

LAB #	N25C030-01	N25C030-02	N25C030-03	N25C030-04
SAMPLED DATE	25-Feb-25	25-Feb-25	25-Feb-25	25-Feb-25
SAMPLED TIME	10:00	10:10	11:20	09:00
SAMPLE ID	Sourdough Bay	Montreal Circle	Pillsbury Station	Frederick Stn
MRL Units	CDWG			

Haloacetic Acids (Water)

Monochloroacetic Acid	0.0020 mg/L	-	<0.0020	<0.0020	<0.0020	<0.0020
Monobromoacetic Acid	0.0020 mg/L	-	<0.0020	<0.0020	<0.0020	<0.0020
Dichloroacetic Acid	0.0020 mg/L	-	0.0901	0.0792	0.0805	0.0693
Trichloroacetic Acid	0.0020 mg/L	-	<0.0020	<0.0020	<0.0020	<0.0020
Dibromoacetic Acid	0.0020 mg/L	-	<0.0020	<0.0020	<0.0020	<0.0020
Total Haloacetic Acids (HAA5)	0.00200 mg/L	MAC = 0.08	0.0901	0.0792	0.0805	0.0693
2-Bromopropionic Acid	70-130 [surr]	-	107%	101%	102%	104%

City of Prince Rupert - Drinking Water

Work Order: N25C030

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
mg/L	Milligrams per Litre
MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
OG	Operational guideline (for treated water)

Standards / Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2019) https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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ANALYTICAL REPORT

City of Prince Rupert
424 3rd Avenue West
Prince Rupert, BC V8J 1L7
water@princerupert.ca

Work Order: N25E084

RECEIVED: 06-May-2025

Project: Drinking Water

Project Number: -

Project Manager: Public Works Department

REPORTED: 14-Aug-2025

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25E084

LAB # N25E084-01
 SAMPLED DATE 06-May-25
 SAMPLED TIME 15:00
 SAMPLE ID Pillsbury Stn

MRL Units CDWG

Haloacetic Acids (Water)

Monochloroacetic Acid	0.0020 mg/L	-	0.0049 [1]
Monobromoacetic Acid	0.0020 mg/L	-	<0.0020 [1]
Dichloroacetic Acid	0.0020 mg/L	-	0.0900 [1]
Trichloroacetic Acid	0.0200 mg/L	-	0.158 [1]
Dibromoacetic Acid	0.0020 mg/L	-	<0.0020 [1]
Total Haloacetic Acids (HAA5)	0.0200 mg/L	MAC = 0.08	0.253
2-Bromopropionic Acid	70-130 [surr]	-	106% [1]

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25E084

Special Notes

1 = The sample was prepared and/or analyzed past the recommended holding time.

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
mg/L	Milligrams per Litre
MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
OG	Operational guideline (for treated water)

Standards / Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2019) https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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ANALYTICAL REPORT

City of Prince Rupert
424 3rd Avenue West
Prince Rupert, BC V8J 1L7
water@princerupert.ca

Work Order: N25G091

RECEIVED: 18-Jul-2025

Project: Drinking Water

Project Number: -

Project Manager: Public Works Department

REPORTED: 14-Aug-2025

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25G091

LAB #	N25G091-01
SAMPLED DATE	18-Jul-25
SAMPLED TIME	00:00
SAMPLE ID	Pillsbury Station

MRL Units	CDWG
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Haloacetic Acids (Water)

Monochloroacetic Acid	0.0054 mg/L	-	<0.0054 [2] [3]
Monobromoacetic Acid	0.0020 mg/L	-	<0.0020 [2]
Dichloroacetic Acid	0.0200 mg/L	-	0.194 [2]
Trichloroacetic Acid	0.0200 mg/L	-	0.218 [2]
Dibromoacetic Acid	0.0020 mg/L	-	<0.0020 [2]
Total Haloacetic Acids (HAA5)	0.0200 mg/L	MAC = 0.08	0.412
2-Bromopropionic Acid	70-130 [surr]	-	117% [2]

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25G091

Special Notes

- 2 = The sample was prepared and/or analyzed past the recommended holding time.
- 3 = The Reporting Limit has been raised due to comparable level detected in the blank(s).

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
mg/L	Milligrams per Litre
MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
OG	Operational guideline (for treated water)

Standards / Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2019) https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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ANALYTICAL REPORT

City of Prince Rupert
424 3rd Avenue West
Prince Rupert, BC V8J 1L7
water@princerupert.ca

Work Order: N25J122

RECEIVED: 21-Oct-2025

Project: Drinking Water

Project Number: -

Project Manager: Public Works Department

REPORTED: 03-Dec-2025

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25J122

LAB # N25J122-01
 SAMPLED DATE 21-Oct-25
 SAMPLED TIME 11:10
 SAMPLE ID Pillsbury

MRL Units CDWG

Haloacetic Acids (Water)

Monochloroacetic Acid	0.0089 mg/L	-	<0.0089 [3]
Monobromoacetic Acid	0.0020 mg/L	-	<0.0020
Dichloroacetic Acid	0.0200 mg/L	-	0.125
Trichloroacetic Acid	0.0200 mg/L	-	0.159
Dibromoacetic Acid	0.0020 mg/L	-	<0.0020
Total Haloacetic Acids (HAA5)	0.0200 mg/L	MAC = 0.08	0.284
2-Bromopropionic Acid	70-130 [surr]	-	<0.0200

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25J122

Special Notes

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

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
mg/L	Milligrams per Litre
MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
OG	Operational guideline (for treated water)

Standards / Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2019) https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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ANALYTICAL REPORT

City of Prince Rupert
424 3rd Avenue West
Prince Rupert, BC V8J 1L7
water@princerupert.ca

Work Order: N25C075

RECEIVED: 11-Mar-2025

Project: Drinking Water

Project Number: -

Project Manager: Public Works Department

REPORTED: 05-May-2025

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25C075

LAB #	N25C075-01	N25C075-02	N25C075-03	N25C075-04
SAMPLED DATE	11-Mar-25	11-Mar-25	11-Mar-25	11-Mar-25
SAMPLED TIME	08:30	14:00	09:00	14:30
SAMPLE ID	Frederick Stn	Sourdough Bay	Montreal Circle	Pillsbury Station
MRL Units	CDWG			

General Parameters (Water)

Parameter	MRL Units	CDWG	N25C075-01	N25C075-02	N25C075-03	N25C075-04
pH	1.0 pH units	7.0-10.5	4.2	4.5	4.0	4.1
Alkalinity (total, as CaCO3)	1 mg/L	-	<1	2	<1	<1
Conductivity	1.0 uS/cm	-	32.8	29.2	31.5	29.8
Colour	1 PtCo units	AO <= 15	12	16	13	16
Turbidity	0.05 NTU	OG < 1	0.69	0.66	0.68	0.83
Solids, Total Dissolved / TDS	1.0 mg/L	AO <= 500	31	29	30	29
Carbon, Total Organic	0.50 mg/L	-	3.96	4.25	4.43	4.52

Calculated Parameters (Water)

Nitrate (as N)	0.10 mg/L	MAC = 10	<0.10	<0.10	<0.10	<0.10
Hardness, Total (as CaCO3)	0.500 mg/L	-	9.16	10.1	8.88	9.32

Anions (Water)

Chloride	1.0 mg/L	AO <= 250	1.3	3.3	1.3	2.2
Fluoride	0.05 mg/L	MAC = 1.5	<0.10	<0.10	<0.10	<0.10
Nitrite (as N)	0.01 mg/L	MAC = 1	<0.01	<0.01	<0.01	<0.01
Nitrate + Nitrite (as N)	0.10 mg/L	MAC = 10	<0.10	<0.10	<0.10	<0.10
Sulfate	1.0 mg/L	AO <= 500	1.4	1.3	1.3	2.5

Total Metals (Water)

Aluminum, total	0.0050 mg/L	OG < 0.1	0.105	0.103	0.104	0.114
Antimony, total	0.00020 mg/L	MAC = 0.006	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic, total	0.00050 mg/L	MAC = 0.01	<0.00050	<0.00050	<0.00050	<0.00050
Barium, total	0.0050 mg/L	MAC = 1	0.0070	0.0072	0.0074	0.0078
Beryllium, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Bismuth, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Boron, total	0.0500 mg/L	MAC = 5	<0.0500	<0.0500	<0.0500	<0.0500
Cadmium, total	0.000010 mg/L	MAC = 0.005	<0.000010	<0.000010	<0.000010	<0.000010
Calcium, total	0.20 mg/L	-	3.17	3.54	3.07	3.21
Chromium, total	0.00050 mg/L	MAC = 0.05	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Copper, total	0.00040 mg/L	AO = 1 MAC = 2	0.00617	0.0603	0.137	0.0578
Iron, total	0.010 mg/L	AO <= 0.3	0.155	0.189	0.169	0.201

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25C075

LAB #		N25C075-01	N25C075-02	N25C075-03	N25C075-04
SAMPLED DATE		11-Mar-25	11-Mar-25	11-Mar-25	11-Mar-25
SAMPLED TIME		08:30	14:00	09:00	14:30
SAMPLE ID		Frederick Stn	Sourdough Bay	Montreal Circle	Pillsbury Station
	MRL Units	CDWG			

Total Metals (continued)

Lead, total	0.00020 mg/L	MAC = 0.005	<0.00020	0.00036	0.00038	0.00023
Lithium, total	0.00010 mg/L	-	0.00013	0.00012	0.00013	0.00014
Magnesium, total	0.010 mg/L	-	0.299	0.303	0.295	0.311
Manganese, total	0.00020 mg/L	AO <= 0.02 MAC = 0.12	0.00545	0.00548	0.00570	0.00749
Mercury, total	0.000010 mg/L	MAC = 0.001	<0.000010	<0.000010	<0.000010	<0.000010
Molybdenum, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Nickel, total	0.00040 mg/L	-	<0.00040	<0.00040	0.00085	<0.00040
Phosphorus, total	0.050 mg/L	-	<0.050	<0.050	<0.050	<0.050
Potassium, total	0.10 mg/L	-	0.36	0.36	0.36	0.38
Selenium, total	0.00050 mg/L	MAC = 0.05	<0.00050	<0.00050	<0.00050	<0.00050
Silicon, total	1.0 mg/L	-	1.1	1.2	1.1	1.2
Silver, total	0.000050 mg/L	-	<0.000050	<0.000050	<0.000050	<0.000050
Sodium, total	0.10 mg/L	AO <= 200	0.89	0.90	0.88	0.93
Strontium, total	0.0010 mg/L	MAC = 7	0.0124	0.0122	0.0117	0.0117
Sulfur, total	3.0 mg/L	-	<3.0	<3.0	<3.0	<3.0
Tellurium, total	0.00050 mg/L	-	<0.00050	<0.00050	<0.00050	<0.00050
Thallium, total	0.000020 mg/L	-	<0.000020	<0.000020	<0.000020	<0.000020
Thorium, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Tin, total	0.00020 mg/L	-	<0.00020	<0.00020	<0.00020	<0.00020
Titanium, total	0.0050 mg/L	-	<0.0050	<0.0050	<0.0050	<0.0050
Tungsten, total	0.0010 mg/L	-	<0.0010	<0.0010	<0.0010	<0.0010
Uranium, total	0.000020 mg/L	MAC = 0.02	<0.000020	<0.000020	<0.000020	<0.000020
Vanadium, total	0.0050 mg/L	-	<0.0050	<0.0050	<0.0050	<0.0050
Zinc, total	0.0040 mg/L	AO <= 5	0.0066	<0.0040	0.0086	<0.0040
Zirconium, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010

City of Prince Rupert - Drinking Water

Work Order: N25C075

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
mg/L	Milligrams per Litre
NTU	Nephelometric Turbidity Units
pH units	pH units
PtCo units	Platinum Colbalt colour units
uS/cm	Micro Siemens per centimeter
MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
OG	Operational guideline (for treated water)

Standards / Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2019) https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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ANALYTICAL REPORT

City of Prince Rupert
424 3rd Avenue West
Prince Rupert, BC V8J 1L7
water@princerupert.ca

Work Order: N25C083

RECEIVED: 14-Mar-2025

Project: Drinking Water

Project Number: -

Project Manager: Public Works Department

REPORTED: 05-May-2025

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25C083

LAB #	N25C083-01
SAMPLED DATE	14-Mar-25
SAMPLED TIME	12:23
SAMPLE ID	Woodworth Lake

MRL Units	CDWG
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General Parameters (Water)

Parameter	MRL Units	CDWG	Result
pH	1.0 pH units	7.0-10.5	5.8
Alkalinity (total, as CaCO ₃)	1 mg/L	-	7
Conductivity	1.0 uS/cm	-	22.8
Colour	1 PtCo units	AO <= 15	39
Turbidity	0.05 NTU	OG < 1	0.55
Solids, Total Dissolved / TDS	1.0 mg/L	AO <= 500	25
Carbon, Total Organic	0.50 mg/L	-	3.51

Calculated Parameters (Water)

Nitrate (as N)	0.10 mg/L	MAC = 10	<0.10
Hardness, Total (as CaCO ₃)	0.500 mg/L	-	8.73

Anions (Water)

Chloride	1.0 mg/L	AO <= 250	<1.0
Fluoride	0.05 mg/L	MAC = 1.5	<0.10
Nitrite (as N)	0.01 mg/L	MAC = 1	<0.01
Nitrate + Nitrite (as N)	0.10 mg/L	MAC = 10	<0.10
Sulfate	1.0 mg/L	AO <= 500	1.1

Total Metals (Water)

Aluminum, total	0.0050 mg/L	OG < 0.1	0.0966
Antimony, total	0.00020 mg/L	MAC = 0.006	<0.00020
Arsenic, total	0.00050 mg/L	MAC = 0.01	<0.00050
Barium, total	0.0050 mg/L	MAC = 1	0.0065
Beryllium, total	0.00010 mg/L	-	<0.00010
Bismuth, total	0.00010 mg/L	-	<0.00010
Boron, total	0.0500 mg/L	MAC = 5	<0.0500
Cadmium, total	0.000010 mg/L	MAC = 0.005	<0.000010
Calcium, total	0.20 mg/L	-	3.04
Chromium, total	0.00050 mg/L	MAC = 0.05	<0.00050
Cobalt, total	0.00010 mg/L	-	<0.00010
Copper, total	0.00040 mg/L	AO = 1 MAC = 2	0.00317
Iron, total	0.010 mg/L	AO <= 0.3	0.147
Lead, total	0.00020 mg/L	MAC = 0.005	<0.00020

Northern Laboratories (2010) Ltd.

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ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25C083

LAB # **N25C083-01**
 SAMPLED DATE **14-Mar-25**
 SAMPLED TIME **12:23**
 SAMPLE ID **Woodworth Lake**

MRL Units CDWG

Total Metals (continued)

Lithium, total	0.00010 mg/L	-	<0.00010
Magnesium, total	0.010 mg/L	-	0.277
Manganese, total	0.00020 mg/L	AO <= 0.02 MAC = 0.12	0.00495
Mercury, total	0.000010 mg/L	MAC = 0.001	<0.000010
Molybdenum, total	0.00010 mg/L	-	<0.00010
Nickel, total	0.00040 mg/L	-	<0.00040
Phosphorus, total	0.050 mg/L	-	<0.050
Potassium, total	0.10 mg/L	-	0.33
Selenium, total	0.00050 mg/L	MAC = 0.05	<0.00050
Silicon, total	1.0 mg/L	-	1.1
Silver, total	0.000050 mg/L	-	<0.000050
Sodium, total	0.10 mg/L	AO <= 200	0.89
Strontium, total	0.0010 mg/L	MAC = 7	0.0123
Sulfur, total	3.0 mg/L	-	<3.0
Tellurium, total	0.00050 mg/L	-	<0.00050
Thallium, total	0.000020 mg/L	-	<0.000020
Thorium, total	0.00010 mg/L	-	<0.00010
Tin, total	0.00020 mg/L	-	<0.00020
Titanium, total	0.0050 mg/L	-	<0.0050
Tungsten, total	0.0010 mg/L	-	<0.0010
Uranium, total	0.000020 mg/L	MAC = 0.02	<0.000020
Vanadium, total	0.0050 mg/L	-	<0.0050
Zinc, total	0.0040 mg/L	AO <= 5	<0.0040
Zirconium, total	0.00010 mg/L	-	<0.00010

City of Prince Rupert - Drinking Water

Work Order: N25C083

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
mg/L	Milligrams per Litre
NTU	Nephelometric Turbidity Units
pH units	pH units
PtCo units	Platinum Colbalt colour units
uS/cm	Micro Siemens per centimeter
MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
OG	Operational guideline (for treated water)

Standards / Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2019) https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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ANALYTICAL REPORT

City of Prince Rupert
424 3rd Avenue West
Prince Rupert, BC V8J 1L7
water@princerupert.ca

Work Order: N25F120

RECEIVED: 17-Jun-2025

Project: Drinking Water

Project Number: -

Project Manager: Public Works Department

REPORTED: 14-Aug-2025

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25F120

LAB #	N25F120-01	N25F120-02	N25F120-03	N25F120-04
SAMPLED DATE	17-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25
SAMPLED TIME	09:00	11:00	13:00	10:00
SAMPLE ID	Frederick Stn	Pillsbury Stn	Sourdough Bay	Montreal Stn
MRL Units	CDWG			

General Parameters (Water)

Parameter	MRL Units	CDWG	Frederick Stn	Pillsbury Stn	Sourdough Bay	Montreal Stn
pH	1.0 pH units	7.0-10.5	4.5	4.4	4.3	4.1
Alkalinity (total, as CaCO3)	1 mg/L	-	<1	<1	<1	<1
Conductivity	1.0 uS/cm	-	31.5	31.3	30.5	31.7
Colour	1 PtCo units	AO <= 15	15	19	23	19
Turbidity	0.05 NTU	OG < 1	0.87	0.83	0.70	0.72
Solids, Total Dissolved / TDS	1.0 mg/L	AO <= 500	30	30	29	30
Carbon, Total Organic	0.50 mg/L	-	5.01	4.60	4.72	4.67

Calculated Parameters (Water)

Nitrate (as N)	0.10 mg/L	MAC = 10	<0.10	<0.10	<0.10	<0.10
Hardness, Total (as CaCO3)	0.500 mg/L	-	8.37	8.82	8.69	8.27

Anions (Water)

Chloride	1.0 mg/L	AO <= 250	6.7	7.4	6.9	7.1
Fluoride	0.05 mg/L	MAC = 1.5	<0.10	<0.10	<0.10	<0.10
Nitrite (as N)	0.01 mg/L	MAC = 1	<0.01	<0.01	<0.01	<0.01
Nitrate + Nitrite (as N)	0.10 mg/L	MAC = 10	<0.10	<0.10	<0.10	<0.10
Sulfate	1.0 mg/L	AO <= 500	1.2	1.1	1.1	1.2

Total Metals (Water)

Aluminum, total	0.0050 mg/L	OG < 0.1	0.113	0.117	0.108	0.111
Antimony, total	0.00020 mg/L	MAC = 0.006	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic, total	0.00050 mg/L	MAC = 0.01	<0.00050	<0.00050	<0.00050	<0.00050
Barium, total	0.0050 mg/L	MAC = 1	0.0094	0.0089	0.0091	0.0092
Beryllium, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Bismuth, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Boron, total	0.0500 mg/L	MAC = 5	<0.0500	<0.0500	<0.0500	<0.0500
Cadmium, total	0.000010 mg/L	MAC = 0.005	<0.000010	<0.000010	<0.000010	<0.000010
Calcium, total	0.20 mg/L	-	2.85	3.03	2.99	2.82
Chromium, total	0.00050 mg/L	MAC = 0.05	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Copper, total	0.00040 mg/L	AO = 1 MAC = 2	0.0102	0.0878	0.0484	0.207
Iron, total	0.010 mg/L	AO <= 0.3	0.132	0.133	0.163	0.118

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25F120

LAB #			N25F120-01	N25F120-02	N25F120-03	N25F120-04
SAMPLED DATE			17-Jun-25	17-Jun-25	17-Jun-25	17-Jun-25
SAMPLED TIME			09:00	11:00	13:00	10:00
SAMPLE ID			Frederick Stn	Pillsbury Stn	Sourdough Bay	Montreal Stn
	MRL Units	CDWG				
Total Metals (continued)						
Lead, total	0.00020 mg/L	MAC = 0.005	0.00023	0.00033	0.00076	0.00051
Lithium, total	0.00010 mg/L	-	0.00013	0.00013	0.00013	0.00013
Magnesium, total	0.010 mg/L	-	0.301	0.302	0.291	0.298
Manganese, total	0.00020 mg/L	AO <= 0.02 MAC = 0.12	0.00385	0.00327	0.00422	0.00343
Mercury, total	0.000010 mg/L	MAC = 0.001	<0.000010	<0.000010	<0.000010	<0.000010
Molybdenum, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Nickel, total	0.00040 mg/L	-	<0.00040	<0.00040	<0.00040	0.00045
Phosphorus, total	0.050 mg/L	-	<0.050	<0.050	<0.050	<0.050
Potassium, total	0.10 mg/L	-	0.37	0.37	0.35	0.36
Selenium, total	0.00050 mg/L	MAC = 0.05	<0.00050	<0.00050	<0.00050	<0.00050
Silicon, total	1.0 mg/L	-	1.1	1.1	1.0	1.1
Silver, total	0.000050 mg/L	-	<0.000050	<0.000050	<0.000050	<0.000050
Sodium, total	0.10 mg/L	AO <= 200	0.90	0.90	0.88	0.90
Strontium, total	0.0010 mg/L	MAC = 7	0.0102	0.0103	0.0101	0.0102
Sulfur, total	3.0 mg/L	-	<3.0	<3.0	<3.0	<3.0
Tellurium, total	0.00050 mg/L	-	<0.00050	<0.00050	<0.00050	<0.00050
Thallium, total	0.000020 mg/L	-	<0.000020	<0.000020	<0.000020	<0.000020
Thorium, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Tin, total	0.00020 mg/L	-	<0.00020	<0.00020	<0.00020	<0.00020
Titanium, total	0.0050 mg/L	-	<0.0050	<0.0050	<0.0050	<0.0050
Tungsten, total	0.0010 mg/L	-	<0.0010	<0.0010	<0.0010	<0.0010
Uranium, total	0.000020 mg/L	MAC = 0.02	<0.000020	<0.000020	<0.000020	<0.000020
Vanadium, total	0.0050 mg/L	-	<0.0050	<0.0050	<0.0050	<0.0050
Zinc, total	0.0040 mg/L	AO <= 5	0.0093	0.0063	<0.0040	0.0141
Zirconium, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010

City of Prince Rupert - Drinking Water

Work Order: N25F120

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
mg/L	Milligrams per Litre
NTU	Nephelometric Turbidity Units
pH units	pH units
PtCo units	Platinum Colbalt colour units
uS/cm	Micro Siemens per centimeter
MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
OG	Operational guideline (for treated water)

Standards / Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2019) https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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ANALYTICAL REPORT

City of Prince Rupert
424 3rd Avenue West
Prince Rupert, BC V8J 1L7
water@princerupert.ca

Work Order: N25F134

RECEIVED: 24-Jun-2025

Project: Drinking Water

Project Number: -

Project Manager: Public Works Department

REPORTED: 14-Aug-2025

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25F134

LAB # N25F134-01
 SAMPLED DATE 23-Jun-25
 SAMPLED TIME 10:00
 SAMPLE ID Shawatlans Lake

MRL Units CDWG

General Parameters (Water)

pH	1.0 pH units	7.0-10.5	5.9
Alkalinity (total, as CaCO3)	1 mg/L	-	5
Conductivity	1.0 uS/cm	-	21.6
Colour	1 PtCo units	AO <= 15	51
Turbidity	0.05 NTU	OG < 1	0.45
Solids, Total Dissolved / TDS	1.0 mg/L	AO <= 500	24
Carbon, Total Organic	0.50 mg/L	-	5.02

Calculated Parameters (Water)

Nitrate (as N)	0.10 mg/L	MAC = 10	<0.10
Hardness, Total (as CaCO3)	0.500 mg/L	-	8.52

Anions (Water)

Chloride	1.0 mg/L	AO <= 250	1.5
Fluoride	0.05 mg/L	MAC = 1.5	<0.10
Nitrite (as N)	0.01 mg/L	MAC = 1	<0.01
Nitrate + Nitrite (as N)	0.10 mg/L	MAC = 10	<0.10
Sulfate	1.0 mg/L	AO <= 500	1.0

Total Metals (Water)

Aluminum, total	0.0050 mg/L	OG < 0.1	0.110
Antimony, total	0.00020 mg/L	MAC = 0.006	<0.00020
Arsenic, total	0.00050 mg/L	MAC = 0.01	<0.00050
Barium, total	0.0050 mg/L	MAC = 1	0.0088
Beryllium, total	0.00010 mg/L	-	<0.00010
Bismuth, total	0.00010 mg/L	-	<0.00010
Boron, total	0.0500 mg/L	MAC = 5	<0.0500
Cadmium, total	0.000010 mg/L	MAC = 0.005	0.000013
Calcium, total	0.20 mg/L	-	2.92
Chromium, total	0.00050 mg/L	MAC = 0.05	<0.00050
Cobalt, total	0.00010 mg/L	-	<0.00010
Copper, total	0.00040 mg/L	AO = 1 MAC = 2	0.0228
Iron, total	0.010 mg/L	AO <= 0.3	0.113

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25F134

LAB # N25F134-01
 SAMPLED DATE 23-Jun-25
 SAMPLED TIME 10:00
 SAMPLE ID Shawatlans Lake

MRL Units CDWG

Total Metals (continued)

Lead, total	0.00020 mg/L	MAC = 0.005	0.00099
Lithium, total	0.00010 mg/L	-	0.00013
Magnesium, total	0.010 mg/L	-	0.299
Manganese, total	0.00020 mg/L	AO <= 0.02 MAC = 0.12	0.00344
Mercury, total	0.000010 mg/L	MAC = 0.001	<0.000010
Molybdenum, total	0.00010 mg/L	-	<0.00010
Nickel, total	0.00040 mg/L	-	0.00048
Phosphorus, total	0.050 mg/L	-	<0.050
Potassium, total	0.10 mg/L	-	0.35
Selenium, total	0.00050 mg/L	MAC = 0.05	<0.00050
Silicon, total	1.0 mg/L	-	1.1
Silver, total	0.000050 mg/L	-	<0.000050
Sodium, total	0.10 mg/L	AO <= 200	0.88
Strontium, total	0.0010 mg/L	MAC = 7	0.0102
Sulfur, total	3.0 mg/L	-	<3.0
Tellurium, total	0.00050 mg/L	-	<0.00050
Thallium, total	0.000020 mg/L	-	<0.000020
Thorium, total	0.00010 mg/L	-	<0.00010
Tin, total	0.00020 mg/L	-	<0.00020
Titanium, total	0.0050 mg/L	-	<0.0050
Tungsten, total	0.0010 mg/L	-	<0.0010
Uranium, total	0.000020 mg/L	MAC = 0.02	<0.000020
Vanadium, total	0.0050 mg/L	-	<0.0050
Zinc, total	0.0040 mg/L	AO <= 5	0.0350
Zirconium, total	0.00010 mg/L	-	<0.00010

City of Prince Rupert - Drinking Water

Work Order: N25F134

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
mg/L	Milligrams per Litre
NTU	Nephelometric Turbidity Units
pH units	pH units
PtCo units	Platinum Colbalt colour units
uS/cm	Micro Siemens per centimeter
MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
OG	Operational guideline (for treated water)

Standards / Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2019) https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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ANALYTICAL REPORT

City of Prince Rupert
424 3rd Avenue West
Prince Rupert, BC V8J 1L7
water@princerupert.ca

Work Order: N25H069

RECEIVED: 13-Aug-2025

Project: Drinking Water

Project Number: -

Project Manager: Public Works Department

REPORTED: 04-Nov-2025

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25H069

LAB #	N25H069-01	N25H069-02	N25H069-03	N25H069-04
SAMPLED DATE	13-Aug-25	13-Aug-25	13-Aug-25	13-Aug-25
SAMPLED TIME	10:00	11:30	11:00	10:30
SAMPLE ID	Frederick Station	Shawatlans Lake	Pillsbury Station	Montreal Circle Reservoir

MRL Units CDWG

General Parameters (Water)

Parameter	MRL Units	CDWG	N25H069-01	N25H069-02	N25H069-03	N25H069-04
pH	1.0 pH units	7.0-10.5	6.8	5.5	3.8	3.7
Alkalinity (total, as CaCO ₃)	1 mg/L	-	<1	4	<1	<1
Conductivity	1.0 uS/cm	-	35.0	22.9	34.6	35.7
Colour	1 PtCo units	AO <= 15	26	62	30	32
Turbidity	0.05 NTU	OG < 1	0.73	0.53	0.81	0.55
Solids, Total Dissolved / TDS	1.0 mg/L	AO <= 500	32	25	32	33
Carbon, Total Organic	0.50 mg/L	-	6.15	6.18	6.44	6.26

Calculated Parameters (Water)

Nitrate (as N)	0.10 mg/L	MAC = 10	<0.10	<0.10	<0.10	<0.10
Hardness, Total (as CaCO ₃)	0.500 mg/L	-	9.55	9.75	9.23	9.53

Anions (Water)

Chloride	1.0 mg/L	AO <= 250	5.6	1.3	6.4	5.9
Fluoride	0.05 mg/L	MAC = 1.5	<0.10	<0.10	<0.10	<0.10
Nitrite (as N)	0.01 mg/L	MAC = 1	<0.01	<0.01	<0.01	<0.01
Nitrate + Nitrite (as N)	0.10 mg/L	MAC = 10	<0.10	<0.10	<0.10	<0.10
Sulfate	1.0 mg/L	AO <= 500	<1.0	1.2	<1.0	<1.0

Total Metals (Water)

Aluminum, total	0.0050 mg/L	OG < 0.1	0.142	0.151	0.141	0.145
Antimony, total	0.00020 mg/L	MAC = 0.006	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic, total	0.00050 mg/L	MAC = 0.01	<0.00050	<0.00050	<0.00050	<0.00050
Barium, total	0.0050 mg/L	MAC = 1	0.0106	0.0103	0.0115	0.0106
Beryllium, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Bismuth, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Boron, total	0.0500 mg/L	MAC = 5	<0.0500	<0.0500	<0.0500	<0.0500
Cadmium, total	0.000010 mg/L	MAC = 0.005	<0.000010	0.000016	<0.000010	<0.000010
Calcium, total	0.20 mg/L	-	3.26	3.34	3.13	3.26
Chromium, total	0.00050 mg/L	MAC = 0.05	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Copper, total	0.00040 mg/L	AO = 1 MAC = 2	0.0110	0.0674	0.140	0.291
Iron, total	0.010 mg/L	AO <= 0.3	0.173	0.177	0.188	0.170

Northern Laboratories (2010) Ltd.

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ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25H069

LAB #			N25H069-01	N25H069-02	N25H069-03	N25H069-04
SAMPLED DATE			13-Aug-25	13-Aug-25	13-Aug-25	13-Aug-25
SAMPLED TIME			10:00	11:30	11:00	10:30
SAMPLE ID			Frederick Station	Shawatlans Lake	Pillsbury Station	Montreal Circle Reservoir
	MRL Units	CDWG				
Total Metals (continued)						
Lead, total	0.00020 mg/L	MAC = 0.005	0.00026	0.00101	0.00095	0.00113
Lithium, total	0.00010 mg/L	-	0.00014	0.00014	0.00016	0.00014
Magnesium, total	0.010 mg/L	-	0.341	0.340	0.344	0.334
Manganese, total	0.00020 mg/L	AO <= 0.02 MAC = 0.12	0.00668	0.00790	0.00545	0.00517
Mercury, total	0.000010 mg/L	MAC = 0.001	<0.000010	<0.000010	<0.000010	<0.000010
Molybdenum, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Nickel, total	0.00040 mg/L	-	0.00043	0.00063	0.00047	0.00048
Phosphorus, total	0.050 mg/L	-	<0.050	<0.050	<0.050	<0.050
Potassium, total	0.10 mg/L	-	0.39	0.37	0.40	0.39
Selenium, total	0.00050 mg/L	MAC = 0.05	<0.00050	<0.00050	<0.00050	<0.00050
Silicon, total	1.0 mg/L	-	1.2	1.2	1.1	1.2
Silver, total	0.000050 mg/L	-	<0.000050	<0.000050	<0.000050	<0.000050
Sodium, total	0.10 mg/L	AO <= 200	0.92	0.93	0.92	0.92
Strontium, total	0.0010 mg/L	MAC = 7	0.0111	0.0110	0.0119	0.0111
Sulfur, total	3.0 mg/L	-	<3.0	<3.0	<3.0	<3.0
Tellurium, total	0.00050 mg/L	-	<0.00050	<0.00050	<0.00050	<0.00050
Thallium, total	0.000020 mg/L	-	<0.000020	<0.000020	<0.000020	<0.000020
Thorium, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Tin, total	0.00020 mg/L	-	<0.00020	<0.00020	<0.00020	<0.00020
Titanium, total	0.0050 mg/L	-	<0.0050	<0.0050	<0.0050	<0.0050
Tungsten, total	0.0010 mg/L	-	<0.0010	<0.0010	<0.0010	<0.0010
Uranium, total	0.000020 mg/L	MAC = 0.02	<0.000020	<0.000020	<0.000020	<0.000020
Vanadium, total	0.0050 mg/L	-	<0.0050	<0.0050	<0.0050	<0.0050
Zinc, total	0.0040 mg/L	AO <= 5	0.0076	0.0588	0.0085	0.0182
Zirconium, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25H069

LAB #	N25H069-05	-	-	-
SAMPLED DATE	13-Aug-25	-	-	-
SAMPLED TIME	11:00	-	-	-
SAMPLE ID	Sourdough Bay Flushing Station	-	-	-

MRL Units	CDWG
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General Parameters (Water)

Parameter	MRL Units	CDWG	Value
pH	1.0 pH units	7.0-10.5	4.0
Alkalinity (total, as CaCO ₃)	1 mg/L	-	<1
Conductivity	1.0 uS/cm	-	33.8
Colour	1 PtCo units	AO <= 15	28
Turbidity	0.05 NTU	OG < 1	0.67
Solids, Total Dissolved / TDS	1.0 mg/L	AO <= 500	31
Carbon, Total Organic	0.50 mg/L	-	5.98

Calculated Parameters (Water)

Nitrate (as N)	0.10 mg/L	MAC = 10	<0.10
Hardness, Total (as CaCO ₃)	0.500 mg/L	-	10.5

Anions (Water)

Chloride	1.0 mg/L	AO <= 250	6.1
Fluoride	0.05 mg/L	MAC = 1.5	<0.10
Nitrite (as N)	0.01 mg/L	MAC = 1	<0.01
Nitrate + Nitrite (as N)	0.10 mg/L	MAC = 10	<0.10
Sulfate	1.0 mg/L	AO <= 500	<1.0

Total Metals (Water)

Aluminum, total	0.0050 mg/L	OG < 0.1	0.137
Antimony, total	0.00020 mg/L	MAC = 0.006	<0.00020
Arsenic, total	0.00050 mg/L	MAC = 0.01	<0.00050
Barium, total	0.0050 mg/L	MAC = 1	0.0114
Beryllium, total	0.00010 mg/L	-	<0.00010
Bismuth, total	0.00010 mg/L	-	<0.00010
Boron, total	0.0500 mg/L	MAC = 5	<0.0500
Cadmium, total	0.000010 mg/L	MAC = 0.005	<0.000010
Calcium, total	0.20 mg/L	-	3.64
Chromium, total	0.00050 mg/L	MAC = 0.05	<0.00050
Cobalt, total	0.00010 mg/L	-	<0.00010
Copper, total	0.00040 mg/L	AO = 1 MAC = 2	0.110
Iron, total	0.010 mg/L	AO <= 0.3	0.204

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ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25H069

LAB #	N25H069-05	-	-	-
SAMPLED DATE	13-Aug-25	-	-	-
SAMPLED TIME	11:00	-	-	-
SAMPLE ID	Sourdough Bay Flushing Station	-	-	-

MRL Units CDWG

Total Metals (continued)

Lead, total	0.00020 mg/L	MAC = 0.005	0.00090
Lithium, total	0.00010 mg/L	-	0.00015
Magnesium, total	0.010 mg/L	-	0.338
Manganese, total	0.00020 mg/L	AO <= 0.02 MAC = 0.12	0.00559
Mercury, total	0.000010 mg/L	MAC = 0.001	<0.000010
Molybdenum, total	0.00010 mg/L	-	<0.00010
Nickel, total	0.00040 mg/L	-	0.00053
Phosphorus, total	0.050 mg/L	-	<0.050
Potassium, total	0.10 mg/L	-	0.38
Selenium, total	0.00050 mg/L	MAC = 0.05	<0.00050
Silicon, total	1.0 mg/L	-	1.1
Silver, total	0.000050 mg/L	-	<0.000050
Sodium, total	0.10 mg/L	AO <= 200	0.91
Strontium, total	0.0010 mg/L	MAC = 7	0.0117
Sulfur, total	3.0 mg/L	-	<3.0
Tellurium, total	0.00050 mg/L	-	<0.00050
Thallium, total	0.000020 mg/L	-	<0.000020
Thorium, total	0.00010 mg/L	-	<0.00010
Tin, total	0.00020 mg/L	-	<0.00020
Titanium, total	0.0050 mg/L	-	<0.0050
Tungsten, total	0.0010 mg/L	-	<0.0010
Uranium, total	0.000020 mg/L	MAC = 0.02	<0.000020
Vanadium, total	0.0050 mg/L	-	<0.0050
Zinc, total	0.0040 mg/L	AO <= 5	<0.0040
Zirconium, total	0.00010 mg/L	-	<0.00010

City of Prince Rupert - Drinking Water

Work Order: N25H069

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
mg/L	Milligrams per Litre
NTU	Nephelometric Turbidity Units
pH units	pH units
PtCo units	Platinum Colbalt colour units
uS/cm	Micro Siemens per centimeter
MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
OG	Operational guideline (for treated water)

Standards / Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2019) https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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ANALYTICAL REPORT

City of Prince Rupert
424 3rd Avenue West
Prince Rupert, BC V8J 1L7
water@princerupert.ca

Work Order: N25K061

RECEIVED: 17-Nov-2025

Project: Drinking Water

Project Number: -

Project Manager: Public Works Department

REPORTED: 09-Dec-2025

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25K061

LAB #			N25K061-01	N25K061-02	N25K061-03	N25K061-04
SAMPLED DATE			17-Nov-25	17-Nov-25	17-Nov-25	17-Nov-25
SAMPLED TIME			13:00	15:10	13:30	13:15
SAMPLE ID			Frederick Stn	Pillsbury Stn	Sourdough Bay	Montreal Stn
			MRL Units	CDWG		

General Parameters (Water)

Parameter	MRL Units	CDWG	Frederick Stn	Pillsbury Stn	Sourdough Bay	Montreal Stn
pH	1.0 pH units	7.0-10.5	3.8	3.7	3.7	3.6
Alkalinity (total, as CaCO ₃)	1 mg/L	-	<1	<1	<1	<1
Conductivity	1.0 uS/cm	-	35.8	36.3	39.8	38.6
Colour	1 PtCo units	AO ≤ 15	21	19	19	21
Turbidity	0.05 NTU	OG < 1	1.52	1.63	1.12	1.29
Solids, Total Dissolved / TDS	1.0 mg/L	AO ≤ 500	32	33	35	34
Carbon, Total Organic	0.50 mg/L	-	5.07	5.10	5.18	5.02

Calculated Parameters (Water)

Nitrate (as N)	0.10 mg/L	MAC = 10	<0.10	<0.10	<0.10	<0.10
Hardness, Total (as CaCO ₃)	0.500 mg/L	-	8.92	9.05	10.9	8.83

Anions (Water)

Chloride	1.0 mg/L	AO ≤ 250	6.2	6.0	7.1	5.9
Fluoride	0.05 mg/L	MAC = 1.5	<0.10	<0.10	<0.10	<0.10
Nitrite (as N)	0.01 mg/L	MAC = 1	<0.01	<0.01	<0.01	<0.01
Nitrate + Nitrite (as N)	0.10 mg/L	MAC = 10	<0.10	<0.10	<0.10	<0.10
Sulfate	1.0 mg/L	AO ≤ 500	1.3	1.3	1.2	1.2

Total Metals (Water)

Aluminum, total	0.0050 mg/L	OG < 0.1	0.132	0.132	0.144	0.133
Antimony, total	0.00020 mg/L	MAC = 0.006	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic, total	0.00050 mg/L	MAC = 0.01	<0.00050	<0.00050	<0.00050	<0.00050
Barium, total	0.0050 mg/L	MAC = 1	0.0096	0.0097	0.0127	0.0095
Beryllium, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Bismuth, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Boron, total	0.0500 mg/L	MAC = 5	<0.0500	<0.0500	<0.0500	<0.0500
Cadmium, total	0.000010 mg/L	MAC = 0.005	<0.000010	<0.000010	0.000012	<0.000010
Calcium, total	0.20 mg/L	-	3.02	3.07	3.77	3.00
Chromium, total	0.00050 mg/L	MAC = 0.05	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total	0.00010 mg/L	-	<0.00010	<0.00010	0.00012	<0.00010
Copper, total	0.00040 mg/L	AO = 1 MAC = 2	0.00841	0.118	0.109	0.185
Iron, total	0.010 mg/L	AO ≤ 0.3	0.255	0.258	0.349	0.250

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25K061

LAB #	N25K061-01	N25K061-02	N25K061-03	N25K061-04
SAMPLED DATE	17-Nov-25	17-Nov-25	17-Nov-25	17-Nov-25
SAMPLED TIME	13:00	15:10	13:30	13:15
SAMPLE ID	Frederick Stn	Pillsbury Stn	Sourdough Bay	Montreal Stn
MRL Units	CDWG			

Total Metals (continued)

Lead, total	0.00020 mg/L	MAC = 0.005	<0.00020	0.00065	0.00190	0.00049
Lithium, total	0.00010 mg/L	-	0.00015	0.00016	0.00018	0.00015
Magnesium, total	0.010 mg/L	-	0.332	0.331	0.346	0.320
Manganese, total	0.00020 mg/L	AO <= 0.02 MAC = 0.12	0.0101	0.00949	0.0175	0.0100
Mercury, total	0.000010 mg/L	MAC = 0.001	<0.000010	<0.000010	<0.000010	<0.000010
Molybdenum, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Nickel, total	0.00040 mg/L	-	0.00043	0.00045	0.00052	0.00046
Phosphorus, total	0.050 mg/L	-	<0.050	<0.050	<0.050	<0.050
Potassium, total	0.10 mg/L	-	0.39	0.39	0.41	0.39
Selenium, total	0.00050 mg/L	MAC = 0.05	<0.00050	<0.00050	<0.00050	<0.00050
Silicon, total	1.0 mg/L	-	1.2	1.2	1.2	1.2
Silver, total	0.000050 mg/L	-	<0.000050	<0.000050	<0.000050	<0.000050
Sodium, total	0.10 mg/L	AO <= 200	0.97	0.97	0.97	0.97
Strontium, total	0.0010 mg/L	MAC = 7	0.0102	0.0105	0.0122	0.0104
Sulfur, total	3.0 mg/L	-	<3.0	<3.0	<3.0	<3.0
Tellurium, total	0.00050 mg/L	-	<0.00050	<0.00050	<0.00050	<0.00050
Thallium, total	0.000020 mg/L	-	<0.000020	<0.000020	<0.000020	<0.000020
Thorium, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010
Tin, total	0.00020 mg/L	-	<0.00020	<0.00020	<0.00020	<0.00020
Titanium, total	0.0050 mg/L	-	<0.0050	<0.0050	<0.0050	<0.0050
Tungsten, total	0.0010 mg/L	-	<0.0010	<0.0010	<0.0010	<0.0010
Uranium, total	0.000020 mg/L	MAC = 0.02	<0.000020	<0.000020	<0.000020	<0.000020
Vanadium, total	0.0050 mg/L	-	<0.0050	<0.0050	<0.0050	<0.0050
Zinc, total	0.0040 mg/L	AO <= 5	0.0064	0.0093	0.0041	0.0112
Zirconium, total	0.00010 mg/L	-	<0.00010	<0.00010	<0.00010	<0.00010

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25K061

LAB #	N25K061-05	-	-	-
SAMPLED DATE	17-Nov-25	-	-	-
SAMPLED TIME	14:00	-	-	-
SAMPLE ID	Shawatlans Lake	-	-	-

MRL Units CDWG

General Parameters (Water)

pH	1.0 pH units	7.0-10.5	5.4
Alkalinity (total, as CaCO3)	1 mg/L	-	5
Conductivity	1.0 uS/cm	-	22.1
Colour	1 PtCo units	AO <= 15	56
Turbidity	0.05 NTU	OG < 1	1.18
Solids, Total Dissolved / TDS	1.0 mg/L	AO <= 500	24
Carbon, Total Organic	0.50 mg/L	-	4.80

Calculated Parameters (Water)

Nitrate (as N)	0.10 mg/L	MAC = 10	<0.10
Hardness, Total (as CaCO3)	0.500 mg/L	-	8.67

Anions (Water)

Chloride	1.0 mg/L	AO <= 250	2.0
Fluoride	0.05 mg/L	MAC = 1.5	<0.10
Nitrite (as N)	0.01 mg/L	MAC = 1	<0.01
Nitrate + Nitrite (as N)	0.10 mg/L	MAC = 10	<0.10
Sulfate	1.0 mg/L	AO <= 500	1.2

Total Metals (Water)

Aluminum, total	0.0050 mg/L	OG < 0.1	0.129
Antimony, total	0.00020 mg/L	MAC = 0.006	<0.00020
Arsenic, total	0.00050 mg/L	MAC = 0.01	<0.00050
Barium, total	0.0050 mg/L	MAC = 1	0.0091
Beryllium, total	0.00010 mg/L	-	<0.00010
Bismuth, total	0.00010 mg/L	-	<0.00010
Boron, total	0.0500 mg/L	MAC = 5	<0.0500
Cadmium, total	0.000010 mg/L	MAC = 0.005	0.000013
Calcium, total	0.20 mg/L	-	2.94
Chromium, total	0.00050 mg/L	MAC = 0.05	<0.00050
Cobalt, total	0.00010 mg/L	-	<0.00010
Copper, total	0.00040 mg/L	AO = 1 MAC = 2	0.0385
Iron, total	0.010 mg/L	AO <= 0.3	0.249

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25K061

LAB #	N25K061-05	-	-	-
SAMPLED DATE	17-Nov-25	-	-	-
SAMPLED TIME	14:00	-	-	-
SAMPLE ID	Shawatlans Lake	-	-	-

	MRL Units	CDWG	
Total Metals (continued)			
Lead, total	0.00020 mg/L	MAC = 0.005	0.00063
Lithium, total	0.00010 mg/L	-	0.00015
Magnesium, total	0.010 mg/L	-	0.323
Manganese, total	0.00020 mg/L	AO <= 0.02 MAC = 0.12	0.0101
Mercury, total	0.000010 mg/L	MAC = 0.001	<0.000010
Molybdenum, total	0.00010 mg/L	-	<0.00010
Nickel, total	0.00040 mg/L	-	0.00055
Phosphorus, total	0.050 mg/L	-	<0.050
Potassium, total	0.10 mg/L	-	0.39
Selenium, total	0.00050 mg/L	MAC = 0.05	<0.00050
Silicon, total	1.0 mg/L	-	1.2
Silver, total	0.000050 mg/L	-	<0.000050
Sodium, total	0.10 mg/L	AO <= 200	0.97
Strontium, total	0.0010 mg/L	MAC = 7	0.0103
Sulfur, total	3.0 mg/L	-	<3.0
Tellurium, total	0.00050 mg/L	-	<0.00050
Thallium, total	0.000020 mg/L	-	<0.000020
Thorium, total	0.00010 mg/L	-	<0.00010
Tin, total	0.00020 mg/L	-	<0.00020
Titanium, total	0.0050 mg/L	-	<0.0050
Tungsten, total	0.0010 mg/L	-	<0.0010
Uranium, total	0.000020 mg/L	MAC = 0.02	<0.000020
Vanadium, total	0.0050 mg/L	-	<0.0050
Zinc, total	0.0040 mg/L	AO <= 5	0.0505
Zirconium, total	0.00010 mg/L	-	<0.00010

City of Prince Rupert - Drinking Water

Work Order: N25K061

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
mg/L	Milligrams per Litre
NTU	Nephelometric Turbidity Units
pH units	pH units
PtCo units	Platinum Colbalt colour units
uS/cm	Micro Siemens per centimeter
MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
OG	Operational guideline (for treated water)

Standards / Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2019) https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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Hyperion Research Ltd.

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CALA
 Testing
 Accreditation No. A3538

To: Jordan Schmidt
 City of Prince Rupert
 424-3 Ave W
 Prince Rupert BC

 V8J 1L7
 (250) 627-1781
 water@princerupert.ca

Sample Date: 13-Jan-25
Sample Type: Raw
LIMS:
Locater Code:
Volume Filtered (L): 341.2
Rec'd within 96h?: Yes
Arrival Temp <20 °C?: Yes

Project # or PO:
Upload to DB?:
Field pH:
Field Temp ° C:
Field Turb (NTU):
Sample Location:
 Shawatlands Site Woodworth
 Lake

The methodology used to produce this report conforms to USEPA Method 1623. Based on the validation data, the method is fit for its intended use. Hyperion Research Ltd. is accredited for this analysis by CALA under the ISO/IEC 17025:2017 standard.

Raw Counts in Sample Equivalent Volume

# CYSTS/OOCYSTS	<i>Giardia</i>	<i>Crypto.</i>
DAPI+/empty: Probably Dead	0	0
DAPI-/Probably Alive	0	0

Detection Limit: 0.29 cysts or oocysts/100L

The detection limit is calculated assuming a minimum of 1 cyst or oocyst observed in the Sample Equivalent Volume

RESULTS

***Giardia* 0.0 cysts/100 L**
***Cryptosporidium* 0.0 oocysts/100 L**

- A value of '0' really means below the detection limit
- These results apply to this sample as received only.

Comments:

Analyst:

Peter M. Wallis, Ph.D.

Processing Data

Date/Time Received: 2025-01-16 1:00:00 PM
 Sample Temp. on arrival °C: 12.9
 Lab ID: **65014**
 Filter Type: Filta-Max
 Date/Time Conc: 2025-01-16 2:10:00 PM
 Concentration Analyst: CW
 IMS Lot No: 2919832
 Vol Used (uL): 100
 Pellet Vol (mL): 0.3
 IMS System: DynaBeads GC Combo
 Resusp Vol (uL): 100
 MAb Conjugate: EasyStainCY3
 Monoclonal Antibody Lot No: C104G203
 Control G: 4
 Control C: 4
 Date/Time Stained: 2025-01-17 12:15:00 PM
 Staining Analyst: CW
 Microscope Analyst: KW
 Sample Equivalent Volume (L): 341.2

Method 1623 Quality Control Data

	Lab Water Spike 2021-22 PT (blind)		2017-22	
	% Recovery	RSD	% Recovery	RSD
<i>Giardia</i>	59.1	26.1	58.2	18.5
<i>Cryptosporidium</i>	53.6	32.3	53.2	26.2

These data indicate ongoing precision and recovery from spiked water samples.



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Sample Date: 05-Feb-25
Sample Type: Raw
LIMS:
Locater Code:
Volume Filtered (L): 233.3
Rec'd within 96h?: No
Arrival Temp <20 °C?: Yes

Project # or PO:
Upload to DB?:
Field pH:
Field Temp ° C:
Field Turb (NTU):
Sample Location:
 Shawatlans Lake Pump House

The methodology used to produce this report conforms to USEPA Method 1623. Based on the validation data, the method is fit for its intended use. Hyperion Research Ltd. is accredited for this analysis by CALA under the ISO/IEC 17025:2017 standard.

Raw Counts in Sample Equivalent Volume

# CYSTS/OOCYSTS	<i>Giardia</i>	<i>Crypto.</i>
DAPI+/empty: Probably Dead	0	0
DAPI-/Probably Alive	0	0

Detection Limit: 0.52 cysts or oocysts/100L

The detection limit is calculated assuming a minimum of 1 cyst or oocyst observed in the Sample Equivalent Volume

RESULTS

***Giardia* 0.0 cysts/100 L**
***Cryptosporidium* 0.0 oocysts/100 L**

- A value of '0' really means below the detection limit
- These results apply to this sample as received only.

Comments: N25B026-01 A

Analyst:

Peter M. Wallis, Ph.D.

Processing Data

Date/Time Received: 2025-02-11 1:00:00 PM
 Sample Temp. on arrival °C: 4
 Lab ID: **65032**
 Filter Type: Filta-Max
 Date/Time Conc: 2025-02-11 1:30:00 PM
 Concentration Analyst: GG/CW
 IMS Lot No: 2919832
 Vol Used (uL): 83
 Pellet Vol (mL): 0.6
 IMS System: DynaBeads GC Combo
 Resusp Vol (uL): 100
 MAb Conjugate: EasyStainCY3
 Monoclonal Antibody Lot No: C104G203
 Control G: 4
 Control C: 4
 Date/Time Stained: 2025-02-12 12:00:00 PM
 Staining Analyst: CW
 Microscope Analyst: KW
 Sample Equivalent Volume (L): 193.6

Method 1623 Quality Control Data

	Lab Water Spike 2021-22		PT (blind) 2017-22	
	% Recovery	RSD	% Recovery	RSD
<i>Giardia</i>	59.1	26.1	58.2	18.5
<i>Cryptosporidium</i>	53.6	32.3	53.2	26.2

These data indicate ongoing precision and recovery from spiked water samples.



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Sample Date: 13-Mar-25
Sample Type: Raw
LIMS:
Locater Code:
Volume Filtered (L): 250.8
Rec'd within 96h?: No
Arrival Temp <20 °C?: Yes

Project # or PO:
Upload to DB?:
Field pH:
Field Temp ° C:
Field Turb (NTU):
Sample Location:
 Shawatlan Lake

The methodology used to produce this report conforms to USEPA Method 1623. Based on the validation data, the method is fit for its intended use. Hyperion Research Ltd. is accredited for this analysis by CALA under the ISO/IEC 17025:2017 standard.

Raw Counts in Sample Equivalent Volume

# CYSTS/OOCYSTS	<i>Giardia</i>	<i>Crypto.</i>
DAPI+/empty: Probably Dead	0	0
DAPI-/Probably Alive	0	0

Detection Limit: 0.40 cysts or oocysts/100L

The detection limit is calculated assuming a minimum of 1 cyst or oocyst observed in the Sample Equivalent Volume

RESULTS

***Giardia* 0.0 cysts/100 L**
***Cryptosporidium* 0.0 oocysts/100 L**

- A value of '0' really means below the detection limit
- These results apply to this sample as received only.

Comments: N25C111-01 A

Analyst:

Peter M. Wallis, Ph.D.

Processing Data

Date/Time Received: 2025-03-24 1:00:00 PM
 Sample Temp. on arrival °C: 17.9
 Lab ID: **65080**
 Filter Type: Filta-Max
 Date/Time Conc: 2025-03-24 3:00:00 PM
 Concentration Analyst: CW
 IMS Lot No: 2934406
 Vol Used (uL): 100
 Pellet Vol (mL): 0.2
 IMS System: DynaBeads GC Combo
 Resusp Vol (uL): 100
 MAb Conjugate: EasyStainCY3
 Monoclonal Antibody Lot No: C104G203
 Control G: 4
 Control C: 4
 Date/Time Stained: 2025-03-25 11:30:00 AM
 Staining Analyst: CW
 Microscope Analyst: KW
 Sample Equivalent Volume (L): 250.8

Method 1623 Quality Control Data

	Lab Water Spike 2021-22		PT (blind) 2017-22	
	% Recovery	RSD	% Recovery	RSD
<i>Giardia</i>	59.1	26.1	58.2	18.5
<i>Cryptosporidium</i>	53.6	32.3	53.2	26.2

These data indicate ongoing precision and recovery from spiked water samples.



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Sample Date: 07-Apr-25
Sample Type: Raw
LIMS:
Locater Code:
Volume Filtered (L): 250.8
Rec'd within 96h?: No
Arrival Temp <20 °C?: Yes

Project # or PO:
Upload to DB?:
Field pH:
Field Temp ° C:
Field Turb (NTU):
Sample Location:
 Shawatlands(Woodworth Lake)

The methodology used to produce this report conforms to USEPA Method 1623. Based on the validation data, the method is fit for its intended use. Hyperion Research Ltd. is accredited for this analysis by CALA under the ISO/IEC 17025:2017 standard.

Raw Counts in Sample Equivalent Volume

# CYSTS/OOCYSTS	<i>Giardia</i>	<i>Crypto.</i>
DAPI+/empty: Probably Dead	0	0
DAPI-/Probably Alive	0	0

Detection Limit: 0.40 cysts or oocysts/100L

The detection limit is calculated assuming a minimum of 1 cyst or oocyst observed in the Sample Equivalent Volume

RESULTS

***Giardia* 0.0 cysts/100 L**
***Cryptosporidium* 0.0 oocysts/100 L**

- A value of '0' really means below the detection limit
- These results apply to this sample as received only.

Comments:

Analyst:

Peter M. Wallis, Ph.D.

Processing Data

Date/Time Received: 2025-04-17 1:15:00 PM
 Sample Temp. on arrival °C: 13.8
 Lab ID: **65130**
 Filter Type: Filta-Max
 Date/Time Conc: 2025-04-17 2:30:00 PM
 Concentration Analyst: CW
 IMS Lot No: 2934406
 Vol Used (uL): 100
 Pellet Vol (mL): 0.3
 IMS System: DynaBeads GC Combo
 Resusp Vol (uL): 100
 MAb Conjugate: EasyStainCY3
 Monoclonal Antibody Lot No: C104G203
 Control G: 4
 Control C: 4
 Date/Time Stained: 2025-04-21 10:50:00 AM
 Staining Analyst: KS
 Microscope Analyst: KW
 Sample Equivalent Volume (L): 250.8

Method 1623 Quality Control Data

	Lab Water Spike 2021-22		PT (blind) 2017-22	
	% Recovery	RSD	% Recovery	RSD
<i>Giardia</i>	59.1	26.1	58.2	18.5
<i>Cryptosporidium</i>	53.6	32.3	53.2	26.2

These data indicate ongoing precision and recovery from spiked water samples.



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Sample Date: 01-May-25
Sample Type: Raw
LIMS:
Locater Code:
Volume Filtered (L): 250.8
Rec'd within 96h?: No
Arrival Temp <20 °C?: No

Project # or PO:
Upload to DB?:
Field pH:
Field Temp ° C:
Field Turb (NTU):
Sample Location:
 Shawatlans (Woodworth Lake)

The methodology used to produce this report conforms to USEPA Method 1623. Based on the validation data, the method is fit for its intended use. Hyperion Research Ltd. is accredited for this analysis by CALA under the ISO/IEC 17025:2017 standard.

Raw Counts in Sample Equivalent Volume

# CYSTS/OOCYSTS	<i>Giardia</i>	<i>Crypto.</i>
DAPI+/empty: Probably Dead	0	0
DAPI-/Probably Alive	0	0

Detection Limit: 0.40 cysts or oocysts/100L

The detection limit is calculated assuming a minimum of 1 cyst or oocyst observed in the Sample Equivalent Volume

RESULTS

***Giardia* 0.0 cysts/100 L**
***Cryptosporidium* 0.0 oocysts/100 L**

- A value of '0' really means below the detection limit
- These results apply to this sample as received only.

Comments:

Analyst:

Peter M. Wallis, Ph.D.

Processing Data

Date/Time Received: 2025-05-08 1:00:00 PM
 Sample Temp. on arrival °C: 23.2
 Lab ID: **65208**
 Filter Type: Filta-Max
 Date/Time Conc: 2025-05-08 3:00:00 PM
 Concentration Analyst: GG/CW
 IMS Lot No: 2934406
 Vol Used (uL): 100
 Pellet Vol (mL): 0.3
 IMS System: DynaBeads GC Combo
 Resusp Vol (uL): 100
 MAb Conjugate: EasyStainCY3
 Monoclonal Antibody Lot No: C104G203
 Control G: 4
 Control C: 4
 Date/Time Stained: 2025-05-09 11:15:00 AM
 Staining Analyst: CW
 Microscope Analyst: KW
 Sample Equivalent Volume (L): 250.8

Method 1623 Quality Control Data

	Lab Water Spike 2021-22		PT (blind) 2017-22	
	% Recovery	RSD	% Recovery	RSD
<i>Giardia</i>	59.1	26.1	58.2	18.5
<i>Cryptosporidium</i>	53.6	32.3	53.2	26.2

These data indicate ongoing precision and recovery from spiked water samples.



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CALA
Testing
Accreditation No. A3538

To: Jordan Schmidt
 City of Prince Rupert
 424-3 Ave W
 Prince Rupert BC

 V8J 1L7
 (250) 627-1781
 water@princerupert.ca

Sample Date: 02-Jun-25
Sample Type: Raw
LIMS:
Locater Code:
Volume Filtered (L): 268.28
Rec'd within 96h?: No
Arrival Temp <20 °C?: No

Project # or PO:
Upload to DB?:
Field pH:
Field Temp ° C:
Field Turb (NTU):
Sample Location:
 Shawatlans (Woodworth Lake)

The methodology used to produce this report conforms to USEPA Method 1623. Based on the validation data, the method is fit for its intended use. Hyperion Research Ltd. is accredited for this analysis by CALA under the ISO/IEC 17025:2017 standard.

Raw Counts in Sample Equivalent Volume

# CYSTS/OOCYSTS	<i>Giardia</i>	<i>Crypto.</i>
DAPI+/empty: Probably Dead	0	0
DAPI-/Probably Alive	0	0

Detection Limit: 0.37 cysts or oocysts/100L

The detection limit is calculated assuming a minimum of 1 cyst or oocyst observed in the Sample Equivalent Volume

RESULTS

***Giardia* 0.0 cysts/100 L**
***Cryptosporidium* 0.0 oocysts/100 L**

- A value of '0' really means below the detection limit
- These results apply to this sample as received only.

Comments:

Analyst:

Peter M. Wallis, Ph.D.

Processing Data

Date/Time Received: 2025-06-11 1:20:00 PM
 Sample Temp. on arrival °C: 24.2
 Lab ID: **65337**
 Filter Type: Filta-Max
 Date/Time Conc: 2025-06-13 11:45:00 AM
 Concentration Analyst: XZ
 IMS Lot No: 2934406
 Vol Used (uL): 100
 Pellet Vol (mL): 0.1
 IMS System: DynaBeads GC Combo
 Resusp Vol (uL): 100
 MAb Conjugate: EasyStainCY3
 Monoclonal Antibody Lot No: C104G203
 Control G: 4
 Control C: 4
 Date/Time Stained: 2025-06-16 11:20:00 AM
 Staining Analyst: GG
 Microscope Analyst: KW
 Sample Equivalent Volume (L): 268.3

Method 1623 Quality Control Data

	Lab Water Spike 2021-22		PT (blind) 2017-22	
	% Recovery	RSD	% Recovery	RSD
<i>Giardia</i>	59.1	26.1	58.2	18.5
<i>Cryptosporidium</i>	53.6	32.3	53.2	26.2

These data indicate ongoing precision and recovery from spiked water samples.



Hyperion Research Ltd.

1008 Allowance Ave. SE, Medicine Hat, AB T1A 3G8

Telephone (888) 529-0847 Fax (403) 5290852 hyperion@hyperionlab.ca



www.hyperionlab.ca



CALA
Testing
Accreditation No. A3538

To: Jordan Schmidt
City of Prince Rupert
424-3 Ave W
Prince Rupert BC

V8J 1L7
(250) 627-1781
water@princerupert.ca

Sample Date: 20-Jul-25
Sample Type: Raw
LIMS:
Locater Code:
Volume Filtered (L): 250.8
Rec'd within 96h?: No
Arrival Temp <20 °C?: No

Project # or PO:
Upload to DB?:
Field pH:
Field Temp ° C:
Field Turb (NTU):
Sample Location:
Shawatlan(Woodworth Lake)

The methodology used to produce this report conforms to USEPA Method 1623. Based on the validation data, the method is fit for its intended use. Hyperion Research Ltd. is accredited for this analysis by CALA under the ISO/IEC 17025:2017 standard.

Raw Counts in Sample Equivalent Volume

# CYSTS/OOCYSTS	<i>Giardia</i>	<i>Crypto.</i>
DAPI+/empty: Probably Dead	0	0
DAPI-/Probably Alive	0	0

Detection Limit: 0.40 cysts or oocysts/100L

The detection limit is calculated assuming a minimum of 1 cyst or oocyst observed in the Sample Equivalent Volume

RESULTS

***Giardia* 0.0 cysts/100 L**
***Cryptosporidium* 0.0 oocysts/100 L**

- A value of '0' really means below the detection limit
- These results apply to this sample as received only.

Comments:

Analyst:

Peter M. Wallis, Ph.D.

Processing Data

Date/Time Received: 2025-08-05 10:15:00 AM
Sample Temp. on arrival °C: 21.7
Lab ID: **65561**
Filter Type: Filta-Max
Date/Time Conc: 2025-08-05 1:05:00 PM
Concentration Analyst: CW
IMS Lot No: 3129019
Vol Used (uL): 100
Pellet Vol (mL): 0.3
IMS System: DynaBeads GC Combo
Resusp Vol (uL): 100
MAb Conjugate: EasyStainCY3
Monoclonal Antibody Lot No: C104G203
Control G: 4
Control C: 4
Date/Time Stained: 2025-08-06 12:15:00 PM
Staining Analyst: CW
Microscope Analyst: KW
Sample Equivalent Volume (L): 250.8

Method 1623 Quality Control Data

	Lab Water Spike 2021-22 PT (blind)		2017-22	
	% Recovery	RSD	% Recovery	RSD
<i>Giardia</i>	59.1	26.1	58.2	18.5
<i>Cryptosporidium</i>	53.6	32.3	53.2	26.2

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CALA
 Testing
 Accreditation No. A3538

To: Jordan Schmidt
 City of Prince Rupert
 221 Wantage Road
 Prince Rupert BC

 V0V 1G0
 (250) 627-1781
 water@princerupert.ca

Sample Date: 28-Aug-25
Sample Type: Raw
LIMS:
Locater Code:
Volume Filtered (L): 102.6
Rec'd within 96h?: Yes
Arrival Temp <20 °C?: Yes

Project # or PO:
Upload to DB?:
Field pH:
Field Temp °C: 16.8
Field Turb (NTU):
Sample Location:
 Shawatlans Lake

The methodology used to produce this report conforms to USEPA Method 1623. Based on the validation data, the method is fit for its intended use. Hyperion Research Ltd. is accredited for this analysis by CALA under the ISO/IEC 17025:2017 standard.

Raw Counts in Sample Equivalent Volume

# CYSTS/OOCYSTS	<i>Giardia</i>	<i>Crypto.</i>
DAPI+/empty: Probably Dead	0	0
DAPI-/Probably Alive	0	0

Detection Limit: 0.97 cysts or oocysts/100L

The detection limit is calculated assuming a minimum of 1 cyst or oocyst observed in the Sample Equivalent Volume

RESULTS

***Giardia* 0.0 cysts/100 L**
***Cryptosporidium* 0.0 oocysts/100 L**

- A value of '0' really means below the detection limit
- These results apply to this sample as received only.

Comments: N25H155-01 A. Precipitation 0mm Filtered by Daniel Cam

Analyst:

Peter M. Wallis, Ph.D.

Processing Data

Date/Time Received: 2025-09-02 10:10:00 AM
 Sample Temp. on arrival °C: 21.7
 Lab ID: **65684**
 Filter Type: Filta-Max
 Date/Time Conc: 2025-09-02 11:35:00 AM
 Concentration Analyst: GG
 IMS Lot No: 2934406
 Vol Used (uL): 100
 Pellet Vol (mL): 0.3
 IMS System: DynaBeads GC Combo
 Resusp Vol (uL): 100
 MAb Conjugate: EasyStainCY3
 Monoclonal Antibody Lot No: C104G203
 Control G: 4
 Control C: 4
 Date/Time Stained: 2025-09-03 11:30:00 AM
 Staining Analyst: XZ
 Microscope Analyst: KW
 Sample Equivalent Volume (L): 102.6

Method 1623 Quality Control Data

	Lab Water Spike 2021-22		PT (blind) 2017-22	
	% Recovery	RSD	% Recovery	RSD
<i>Giardia</i>	59.1	26.1	58.2	18.5
<i>Cryptosporidium</i>	53.6	32.3	53.2	26.2

These data indicate ongoing precision and recovery from spiked water samples.



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CALA
 Testing
 Accreditation No. A3538

To: Jordan Schmidt
 City of Prince Rupert
 221 Wantage Road
 Prince Rupert BC

V0V 1G0
 (250) 627-1781

watergroup@princerupert.ca

Sample Date: 08-Sep-25
Sample Type: Raw
LIMS:
Locater Code:
Volume Filtered (L): 102.6
Rec'd within 96h?: No
Arrival Temp <20 °C?: Yes

Project # or PO:
Upload to DB?:
Field pH:
Field Temp ° C:
Field Turb (NTU):
Sample Location:
 Shawatlans Lake

The methodology used to produce this report conforms to USEPA Method 1623. Based on the validation data, the method is fit for its intended use. Hyperion Research Ltd. is accredited for this analysis by CALA under the ISO/IEC 17025:2017 standard.

Raw Counts in Sample Equivalent Volume

# CYSTS/OOCYSTS	<i>Giardia</i>	<i>Crypto.</i>
DAPI+/empty: Probably Dead	0	0
DAPI-/Probably Alive	0	0

Detection Limit: 0.97 cysts or oocysts/100L

The detection limit is calculated assuming a minimum of 1 cyst or oocyst observed in the Sample Equivalent Volume

RESULTS

***Giardia* 0.0 cysts/100 L**
***Cryptosporidium* 0.0 oocysts/100 L**

- A value of '0' really means below the detection limit
- These results apply to this sample as received only.

Comments: N251051-01 A

Analyst:

Peter M. Wallis, Ph.D.

Processing Data

Date/Time Received: 2025-09-15 10:30:00 AM
 Sample Temp. on arrival °C: 19.7
 Lab ID: **65699**
 Filter Type: Filta-Max
 Date/Time Conc: 2025-09-15 11:50:00 AM
 Concentration Analyst: CW
 IMS Lot No: 2934406
 Vol Used (uL): 100
 Pellet Vol (mL): 0.3
 IMS System: DynaBeads GC Combo
 Resusp Vol (uL): 100
 MAb Conjugate: EasyStainCY3
 Monoclonal Antibody Lot No: C104G203
 Control G: 4
 Control C: 4
 Date/Time Stained: 2025-09-16 11:40:00 AM
 Staining Analyst: XZ/GG
 Microscope Analyst: KW
 Sample Equivalent Volume (L): 102.6

Method 1623 Quality Control Data

	Lab Water Spike 2021-22		PT (blind) 2017-22	
	% Recovery	RSD	% Recovery	RSD
<i>Giardia</i>	59.1	26.1	58.2	18.5
<i>Cryptosporidium</i>	53.6	32.3	53.2	26.2

These data indicate ongoing precision and recovery from spiked water samples.



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CALA
 Testing
 Accreditation No. A3538

To: Jordan Schmidt
 City of Prince Rupert
 221 Wantage Road
 Prince Rupert BC

V0V 1G0
 (250) 627-1781

watergroup@princerupert.ca

Sample Date: 03-Oct-25
Sample Type: Raw
LIMS:
Locater Code:
Volume Filtered (L): 250.8
Rec'd within 96h?: No
Arrival Temp <20 °C?: Yes

Project # or PO:
Upload to DB?:
Field pH:
Field Temp ° C:
Field Turb (NTU):
Sample Location:
 Shawatlans Lake

The methodology used to produce this report conforms to USEPA Method 1623. Based on the validation data, the method is fit for its intended use. Hyperion Research Ltd. is accredited for this analysis by CALA under the ISO/IEC 17025:2017 standard.

Raw Counts in Sample Equivalent Volume

# CYSTS/OOCYSTS	<i>Giardia</i>	<i>Crypto.</i>
DAPI+/empty: Probably Dead	0	0
DAPI-/Probably Alive	0	0

Detection Limit: 0.40 cysts or oocysts/100L

The detection limit is calculated assuming a minimum of 1 cyst or oocyst observed in the Sample Equivalent Volume

RESULTS

***Giardia* 0.0 cysts/100 L**
***Cryptosporidium* 0.0 oocysts/100 L**

- A value of '0' really means below the detection limit
- These results apply to this sample as received only.

Comments:

Analyst:

Peter M. Wallis, Ph.D.

Processing Data

Date/Time Received: 2025-10-08 10:20:00 AM
 Sample Temp. on arrival °C: 17.5
 Lab ID: **65763**
 Filter Type: Filta-Max
 Date/Time Conc: 2025-10-08 2:15:00 PM
 Concentration Analyst: CW
 IMS Lot No: 3066884
 Vol Used (uL): 100
 Pellet Vol (mL): 0.5
 IMS System: DynaBeads GC Combo
 Resusp Vol (uL): 100
 MAb Conjugate: EasyStainCY3
 Monoclonal Antibody Lot No: C104G203
 Control G: 4
 Control C: 4
 Date/Time Stained: 2025-10-09 11:15:00 AM
 Staining Analyst: GG
 Microscope Analyst: KW
 Sample Equivalent Volume (L): 250.8

Method 1623 Quality Control Data

	Lab Water Spike 2021-22		PT (blind) 2017-22	
	% Recovery	RSD	% Recovery	RSD
<i>Giardia</i>	59.1	26.1	58.2	18.5
<i>Cryptosporidium</i>	53.6	32.3	53.2	26.2

These data indicate ongoing precision and recovery from spiked water samples.



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CALA
 Testing
 Accreditation No. A3538

To: Jordan Schmidt
 City of Prince Rupert
 221 Wantage Road
 Prince Rupert BC

V0V 1G0
 (250) 627-1781

watergroup@princerupert.ca

Sample Date: 11-Dec-25
Sample Type: Raw
LIMS:
Locater Code:
Volume Filtered (L): 233.7
Rec'd within 96h?: No
Arrival Temp <20 °C?: Yes

Project # or PO: 1354
Upload to DB?:
Field pH:
Field Temp ° C:
Field Turb (NTU):
Sample Location:
 Shawatlans Lake

The methodology used to produce this report conforms to USEPA Method 1623. Based on the validation data, the method is fit for its intended use. Hyperion Research Ltd. is accredited for this analysis by CALA under the ISO/IEC 17025:2017 standard.

Raw Counts in Sample Equivalent Volume

# CYSTS/OOCYSTS	<i>Giardia</i>	<i>Crypto.</i>
DAPI+/empty: Probably Dead	0	0
DAPI-/Probably Alive	0	0

Detection Limit: 0.43 cysts or oocysts/100L

The detection limit is calculated assuming a minimum of 1 cyst or oocyst observed in the Sample Equivalent Volume

RESULTS

***Giardia* 0.0 cysts/100 L**
***Cryptosporidium* 0.0 oocysts/100 L**

- A value of '0' really means below the detection limit
- These results apply to this sample as received only.

Comments:

Analyst:

Peter M. Wallis, Ph.D.

Processing Data

Date/Time Received: 16-Dec-25 10:20:00 AM
 Sample Temp. on arrival °C: 11.9
 Lab ID: **65955**
 Filter Type: Filta-Max
 Date/Time Conc: 17-Dec-25 11:40:00 AM
 Concentration Analyst: CW
 IMS Lot No: 3193925
 Vol Used (uL): 100
 Pellet Vol (mL): 0.3
 IMS System: DynaBeads GC Combo
 Resusp Vol (uL): 100
 MAb Conjugate: EasyStainCY3
 Monoclonal Antibody Lot No: C104G203
 Control G: 4
 Control C: 4
 Date/Time Stained: 18-Dec-25 11:15:00 AM
 Staining Analyst: CW
 Microscope Analyst: KW
 Sample Equivalent Volume (L): 233.7

Method 1623 Quality Control Data

	Lab Water Spike 2021-22 PT (blind)		2017-22	
	% Recovery	RSD	% Recovery	RSD
<i>Giardia</i>	59.1	26.1	58.2	18.5
<i>Cryptosporidium</i>	53.6	32.3	53.2	26.2

These data indicate ongoing precision and recovery from spiked water samples.

ANALYTICAL REPORT

City of Prince Rupert
424 3rd Avenue West
Prince Rupert, BC V8J 1L7
water@princerupert.ca

Work Order: N25H089

RECEIVED: 13-Aug-2025

Project: Drinking Water

Project Number: -

Project Manager: Public Works Department

REPORTED: 15-Oct-2025

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25H089

LAB #	N25H089-01	N25H089-02	N25H089-03	N25H089-04
SAMPLED DATE	13-Aug-25	13-Aug-25	13-Aug-25	13-Aug-25
SAMPLED TIME	14:00	14:30	00:00	12:00
SAMPLE ID	Shawatlans Lake	Woodworth Lake	Park Ave. Flushing Stn.	Graham Cul-de-sac

MRL Units CDWG

Perfluorinated Compounds (Water)

Perfluorooctanesulfonate (PFOS)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorooctanoic acid (PFOA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluoropentanoic acid (PFPeA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorobutanesulfonate (PFBS)	10.0 ug/L	-	<10.0 [2]	<10.0 [2]	<10.0 [2]	<10.0 [2]
Perfluorohexanoic acid (PFHxA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluoroheptanoic acid (PFHpA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorohexanesulfonate (PFHxS)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluoroheptane sulfonate (PFHpS)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorononanoic acid (PFNA)	0.020 ug/L	-	<0.020 [2]	<0.020 [2]	<0.020 [2]	<0.020 [2]
Perfluorodecanoic acid (PFDA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluoroundecanoic acid (PFUnA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorodecanesulfonate (PFDS)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorododecanoic acid (PFDoA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorotetradecanoic acid (PFTeA)	2.00 ug/L	-	<2.00 [2] [3]	<2.00 [2] [3]	<2.00 [2] [3]	<2.00 [2] [3]
Perfluorooctanesulfonamide (PFOSA)	1.00 ug/L	-	<1.00 [2]	<1.00 [2]	<1.00 [2]	<1.00 [2]
Perfluorotridecanoic acid (PFTrA)	1.00 ug/L	-	<1.00 [2]	<1.00 [2]	<1.00 [2]	<1.00 [2]
Perfluorobutanoic acid (PFBA)	25.0 ug/L	-	<25.0 [2]	<25.0 [2]	<25.0 [2]	<25.0 [2]
6:2 Fluorotelomer sulfonate (6:2FTS)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
8:2 Fluorotelomer sulfonate (8:2FTS)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25H089

LAB #	N25H089-05	N25H089-06	N25H089-07	N25H089-08
SAMPLED DATE	13-Aug-25	13-Aug-25	13-Aug-25	13-Aug-25
SAMPLED TIME	10:00	10:30	11:00	10:30
SAMPLE ID	Frederick Station	Montreal Circle Reservoir	Sourdough Bay Flushing Station	Pillsbury Station

Perfluorinated Compounds (Water)

	MRL Units	CDWG				
Perfluorooctanesulfonate (PFOS)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorooctanoic acid (PFOA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluoropentanoic acid (PFPeA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorobutanesulfonate (PFBS)	10.0 ug/L	-	<10.0 [2]	<10.0 [2]	<10.0 [2]	<10.0 [2]
Perfluorohexanoic acid (PFHxA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluoroheptanoic acid (PFHpA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorohexanesulfonate (PFHxS)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluoroheptane sulfonate (PFHpS)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorononanoic acid (PFNA)	0.020 ug/L	-	<0.020 [2]	<0.020 [2]	<0.020 [2]	<0.020 [2]
Perfluorodecanoic acid (PFDA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluoroundecanoic acid (PFUnA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorodecanesulfonate (PFDS)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorododecanoic acid (PFDoA)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
Perfluorotetradecanoic acid (PFTeA)	2.00 ug/L	-	<2.00 [2] [3]	<2.00 [2] [3]	<2.00 [2] [3]	<2.00 [2] [3]
Perfluorooctanesulfonamide (PFOSA)	1.00 ug/L	-	<1.00 [2]	<1.00 [2]	<1.00 [2]	<1.00 [2]
Perfluorotridecanoic acid (PFTrA)	1.00 ug/L	-	<1.00 [2]	<1.00 [2]	<1.00 [2]	<1.00 [2]
Perfluorobutanoic acid (PFBA)	25.0 ug/L	-	<25.0 [2]	<25.0 [2]	<25.0 [2]	<25.0 [2]
6:2 Fluorotelomer sulfonate (6:2FTS)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]
8:2 Fluorotelomer sulfonate (8:2FTS)	0.200 ug/L	-	<0.200 [2]	<0.200 [2]	<0.200 [2]	<0.200 [2]

ANALYTICAL REPORT

City of Prince Rupert - Drinking Water

Work Order: N25H089

Special Notes

- 2 = Incorrect Container(s) supplied for PFCs analysis
- 3 = The Reporting Limit for this sample has been raised due to matrix interference.

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
ug/L	Micrograms per Litre
MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
OG	Operational guideline (for treated water)

Standards / Guidelines Referenced

CDWG	Canadian Drinking Water Quality Guidelines (2019) https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf
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