



**Public Works and Transportation Committee
Electronic Meeting**

**Anderson Room, City Hall
6911 No. 3 Road**

**Wednesday, July 22, 2026
4:00 p.m.**

Pg. # ITEM

MINUTES

PWT-4 *Motion to adopt the **minutes** of the meeting of the Public Works and Transportation Committee held on June 17, 2026.*



NEXT COMMITTEE MEETING DATE

September 23, 2026, (tentative date) at 4:00 p.m. in the Anderson Room.

AGENDA ADDITIONS AND DELETIONS

ENGINEERING AND PUBLIC WORKS DIVISION

- 1. FRASER RIVER FRESHET AND FLOOD PROTECTION UPDATE
2026**
(File Ref. No. 10-6060-01) (REDMS No. 8279535)

PWT-11

See Page PWT-11 for full report

Designated Speaker: Jason Ho & Ridhi Dalla

STAFF RECOMMENDATION

That the report titled “Fraser River Freshet and Flood Protection Update 2026”, dated June 24, 2026, from the General Manager, Engineering and Public Works, be received for information.



2. **RICHMOND WATER QUALITY AND CONSERVATION REPORT 2025**

(File Ref. No. 10-6650-01) (REDMS No. 8448931)

PWT-21

See Page PWT-21 for full report

Designated Speaker: Bryan Shepherd

STAFF RECOMMENDATION

That the annual report titled “Richmond Water Quality and Conservation Report 2025”, dated June 15, 2026, from the General Manager, Engineering and Public Works, be:

- (1) Approved as the City’s annual water quality report for reporting the 2025 water system monitoring information;*
- (2) Submitted to the Drinking Water Officer and Medical Health Officer; and*
- (3) Made available on the City’s website, through various communication tools including social media channels and as part of community outreach initiatives.*



3. **TILBURY PHASE 2 LIQUIFIED NATURAL GAS (LNG) EXPANSION PROJECT**

(File Ref. No. 10-6125-30-010) (REDMS No. 8091955)

PWT-147

See Page PWT-147 for full report

Designated Speaker: Chad Paulin & Nadia Chan

STAFF RECOMMENDATION

That the comments on the "Tilbury Phase 2 LNG Expansion Project", as outlined in Attachment 2, be endorsed for submission to the BC Environmental Assessment Office as part of the public comment period.



Pg. # ITEM

**4. ICBC-CITY OF RICHMOND ROAD SAFETY IMPROVEMENT
PROGRAM UPDATE 2026**

(File Ref. No. 03-1000-03-006) (REDMS No. 8444875)

PWT-156

See Page PWT-156 for full report

Designated Speaker: Beata Ng

STAFF RECOMMENDATION

- (1) That the road safety improvement projects, as described in Attachment 1 of the report titled "ICBC-City of Richmond Road Safety Improvement Program Update 2026", dated June 22, 2026, from the General Manager, Engineering and Public Works, be endorsed for submission to the ICBC 2026 Road Safety Improvement Program for consideration of cost-share funding;*
- (2) That should the above submission be successful, the Chief Administrative Officer and General Manager, Engineering and Public Works, be authorized to execute the cost-share agreements on behalf of the City; and*
- (3) That should the above application be successful, the Consolidated 5 Year Financial Plan (2026-2030) be amended accordingly.*

☐

5. MANAGER'S REPORT

ADJOURNMENT

☐



Public Works and Transportation Committee

Date: Thursday, June 17, 2026

Place: Anderson Room
Richmond City Hall

Present: Councillor Carol Day, Chair
Councillor Michael Wolfe
Councillor Kash Heed
Councillor Alexa Loo

Also Present: Councillor Andy Hobbs
Councillor Bill McNulty

Call to Order: The Chair called the meeting to order at 4:00 p.m.

AGENDA ADDITIONS AND DELETIONS

It was moved and seconded

That No. 6 Road Options for Improvement be added to the agenda as Item No. 5A.

CARRIED

MINUTES

It was moved and seconded

That the minutes of the meeting of the Public Works and Transportation Committee held on May 20, 2026, be adopted as circulated.

CARRIED

1. **BUSINESS RECYCLING RESOURCES PILOT PROGRAM REVIEW**
(File Ref. No. 10-6370-01) (REDMS No. 837785)

Discussion ensued with respect to (i) whether the Province's plan would be voluntary, as is the current City program, and (ii) the benefits of having one provincial framework for businesses with several locations in multiple cities.

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In response to queries from Committee, staff advised that the Province's study identified various regulatory and volunteer mechanisms, and the request is for the Province to enact mandatory regulations.

It was moved and seconded

- (1) *That Option 2 as outlined in the report titled, "Business Recycling Resources Pilot Program Review", dated May 29, 2026, from the General Manager, Engineering and Public Works, be approved; and*
- (2) *That a letter be sent from the Mayor to the Minister of Environment and Parks requesting that, using the findings from the 2025 Preventing Non-Residential Packaging Waste Engagement Report, the Province enact legislations for businesses and institutions to submit waste prevention plans, conduct audits, or implement specific waste actions.*

The question on the motion was not called as discussion ensued with respect to (i) the lack of consequences or strong deterrents for individuals who do not recycle, (ii) source separation requirements for businesses, (iii) existing sustainability policies for larger companies to make recycling easier, (iv) the timing of this request and potential administrative burden on businesses; and (v) opportunities for businesses to reduce costs and recover value through recycling.

In response to queries from Committee, staff advised that (i) though there are no fines, recycling is required under bylaw requirements, and contamination is addressed through a phased approach that includes resident notification, notification tags on the carts, and withholding collection at the curb until materials are corrected, (ii) there is currently no requirement for businesses to source separate; however, working with Metro Vancouver provides opportunities through hauler licenses that require source separation at the point of disposal, and disposal bans that include fines to businesses, and (iii) some businesses have begun collecting refundables through the program.

The question on the motion was then called and it was **CARRIED**, with Cllr. Heed opposed.

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1. NORTH DIKE UPGRADES FROM LYNAS LANE TO NO. 2 ROAD – PUBLIC ENGAGEMENT SUMMARY

(File Ref. No. 10-6000-01) (REDMS No. 835697)

Discussion ensued with respect to (i) resident concerns regarding noise and dust, (ii) whether results of the compression technology testing for Rice Mill Road could be applied here, (iii) clarification on project comparisons related to minimizing environmental impacts, and (v) concerns about the ongoing plan and flooding protection.

In response to queries from Committee, staff advised that (i) the City would work with the contractor, once hired, to implement mitigation measures such as sound blankets, and would follow up with the resident, (ii) results from the seismic improvement resilience testing have not yet been received, so applications to other projects are not yet known, (iii) the project would remain above the high-water marks, work on the north side will remain intact, and the environmental work would not be impacted, (iv) the spelling of dike differs in engineering and trail contexts, and Communications will be advised of the spelling issue in Richmond Talks, and (v) the dike and road will be raised to the same elevation around the island.

It was moved and seconded

That the Dike Master Plan Concept be identified in the report titled “North Dike Upgrades from Lynas Lane to No. 2 Road – Public Engagements Summary”, dated May 13, 2026, from the General Manager, Engineering and Public Works, be endorsed for detailed design and construction.

CARRIED

Mike Pace, a resident of Nova Crescent, expressed concerns regarding addressing the dike between Lynas Lane and No. 1 Road, potential flooding, emergency access, and the need for a plan for the rest of the dike between Lynas Lane and No. 1 Road. This will impact the 700 residents of Nova Crescent.

In response to queries, staff advised that the dike would be raised to consistent elevation and that the road will also be raised but the degree may be less due to the proximity of the houses, and that they would work with residents to avoid increased flooding risk. Staff were directed to follow up with the resident.

3.

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2. TRANSPORTATION DEMAND MANAGEMENT (TDM) RESERVE FUND – 2025 UPDATE

(File Ref. No. 10-6460-01) (REDMS No. 8409803)

It was moved and seconded

That the report titled “Transportation Demand Management (TDM) Reserve Fund – 2025 Update”, from the General Manager, Engineering and Public Works, dated May 19, 2026, be received for information.

CARRIED

3. GARRY STREET TRAFFIC CALMING

(File Ref. No. 10-6500-01) (REDMS No. 839277)

It was moved and seconded

That Option 2 to implement two raised crosswalks on Garry Street as described in the report titled “Garry Street Traffic Calming”, dated May 19, 2026, from the General Manager, Engineering and Public Works, be approved.

CARRIED

4. MINLER ROAD TRAFFIC CALMING UPDATE AND PEDESTRIAN FACILITY OPTIONS

(File Ref. No. 10-6460-01) (REDMS No. 8416996)

Discussion ensued with respect to (i) the location of the asphalt walkway and parking impacts, (ii) the contingency funding and whether the design would return to Committee, (iii) need for a visual concept, (iv) interim solutions to address current concerns, (v) whether funding from the Capital Reserve Revolving Fund could be used for design and review, (vi) utilizing possible funding sources, including Council Contingency, Council Initiatives, minor capital, and surplus, and (vii) construction timelines an options to expedite the project.

In response to queries from Committee, staff advised that (i) 30km/h speed limit signs are in the process of being installed, (ii) walkway location and parking impacts would be refined through the detailed design process; (iii) the contingency estimate was preliminary and further site investigation was required, and if approved for the 2027 budget cycle, design, scoping, and costing will be developed through that process; (iv) the west side appeared to have more set back and was on the school side, while the east side has limited space, (v) advancing funding for design work would require amending the Consolidated Five-Year Capital Plan and identifying a suitable funding source, (vi) staff can provide a memorandum with funding options ,and (vii) the project is unlikely to meet the 2026 construction season and is therefore proposed for the 2027 budget, with Committee members requesting further details on the walkway design and potential parking impacts before proceeding.

4.

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A resident of the Minler Road neighbourhood, on behalf of other residents of Minler Road, thanked Committee for considering a pedestrian facility and queried whether the cost would be borne by the City rather than residents. The importance of the sidewalk for residents, pedestrians, and Blundell Elementary School was noted, and the residents did not have a preferred side, provided the option selected was safe and cost-effective. The Chair confirmed the costs would be covered through the capital budget, at no cost to the residents.

A motion was suggested to move forward with design and conceptual work in the current year and to direct staff to identify appropriate funding sources. Staff advised that Council could consider resolutions to advance either the full \$1.8 million project or the \$100,000 design portion, with updated construction costs to be brought forward once design was complete. Discussion then ensued with respect to whether surplus funding was available to advance the full project, including design and contingency.

It was moved and seconded

That a capital project for the Minler Road walkway improvements in the amount of \$1.8 million funded from the Capital Reserve (Revolving Fund) be approved and that the Consolidated 5 Year Financial Plan (2025-2029) be amended accordingly.

The question on the motion was not called as discussion ensued with respect to (i) whether advancing the project outside the broader capital planning process would create a precedent; (ii) the unique circumstances of Milner Road including its historic nature, traffic conditions, flooding considerations; and (iii) surplus funding is being considered, not a tax increase.

The question on the motion was then called and it was **CARRIED** with Cllr. Loo opposed.

5A. NO. 6 ROAD OPTIONS FOR IMPROVEMENT

Discussion ensued with respect to (i) examining the possible traffic calming measures on No. 6 Road, (ii) acknowledgement that overgrown grass that limits pedestrian use of the narrow roadway was addressed, (iii) consulting residents for their support, (iv) bringing findings back to Committee, including traffic speeds, collision data, and related safety considerations and how long that would take, and (v) concern with winter plows and possible issues with snow removal.

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In response to queries from Committee, staff advised (i) traffic calming measures could be explored at No. 6 Road, although policy limits implementation without public agreement and Council direction, (ii) typically, letters are sent to residents requesting support, however Committee can provide other direction, (iii) the process involves gathering metrics such as speeding, accidents, and reporting back to Committee, and given that public engagement was not usually undertaken in summer, results would be available in October 2026, and (iv) staff have noted this concern and will follow up.

As a result of the discussion, the following **referral motion** was introduced:

It was moved and seconded

That staff examine possible traffic calming measures on No. 6 Road, and report back.

CARRIED

5. **MANAGER'S REPORT**

(i) Gilbert Road Sewer Project

Staff advised that Metro Vancouver had recently completed repair work on the Gilbert Road sewer near Woodward Road following a sinkhole. The failure occurred in the existing sewer, and approximately 20 inches of pipe were repaired using ground stabilization and repair plates. Paving work was anticipated within the next week, with traffic controls remaining in place until regular operations resumed. Staff noted that Metro Vancouver conducts routine maintenance and that this was a Metro Vancouver project.

(ii) Traffic Issues due to Construction

Discussion ensued with respect to (i) traffic delays related to construction near No. 2 Road and Westminster Highway; (ii) the cumulative effect of multiple projects; and (iii) whether significant disruptions should be communicated through traffic radio stations.

Staff advised that four active construction sites were in the area, including planned works, development-related works at Elmbridge Way and Alderbridge Way, and a BC Hydro project on Westminster Highway. Staff further advised that project coordination was ongoing, signal timing had been adjusted to improve traffic flow, construction updates were posted online and shared with the Richmond News, and radio notifications were generally used only for significant traffic disruptions.

Discussion further ensued with respect to development of a policy for using news radio stations to advise motorists of significant traffic issues. In response to queries from Committee, staff advised that (i) notifications to news agencies had occurred, and (ii) signal timing had been adjusted to reduce traffic backups related to the BC Hydro project.

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(iii) George Massey Tunnel Construction

Discussion ensued on the impacts of changes in construction management with respect to the George Massey Tunnel. In response to queries from Committee, staff advised that (i) the project had shifted to a traditional procurement process, and (ii) that staff had learned of the changes through public news sources.

(iv) Stage 3 Water Restrictions

Discussion ensued with respect to (i) Stage 3 water restrictions; (ii) water-use data collection; and (iii) the likelihood that restrictions would not move to Stage 4, as the issue was related to the Stanley Park interceptor and Metro Vancouver's capacity to provide water.

ADJOURNMENT

It was moved and seconded

That the meeting adjourn at 5:11 p.m.

CARRIED

Certified a true and correct copy of the Minutes of the meeting of the General Purposes Committee of the Council of the City of Richmond held on Wednesday, June 17, 2026.

Councillor Carol Day
Chair

Christine McLenan
Recording Secretary



To:	Public Works and Transportation Committee	Date:	June 24, 2026
From:	Roeland Zwaag General Manager, Engineering and Public Works	File:	10-6060-01/2025-Vol-01
Re:	Fraser River Freshet and Flood Protection Update 2026		

Staff Recommendation

That the report titled “Fraser River Freshet and Flood Protection Update 2026”, dated June 24, 2026, from the General Manager, Engineering and Public Works, be received for information.

Executive Summary

The 2026 Fraser River freshet was below average, with peak flows of 7,003 m³/s recorded at Hope on June 3, 2026, which is between a 1-year and 2-year return period event. No flooding occurred in Richmond during the 2026 freshet. In 2025, annual rainfall was 1,092 mm, which is 14% below the 10-year average, and although six significant rainfall events were recorded, none exceeded a two-year return period.

The City’s drainage and flood protection systems continue to perform well, supported by Council-endorsed capital projects, preventative maintenance programs, and emergency response planning. Infrastructure improvements to the dike system, pump station upgrades, and culvert rehabilitation continue to support system performance and emergency readiness. The Flood Protection Management Strategy continues to guide the City’s proactive approach to forecasting, planning, and improving the flood protection system to meet long-term requirements related to climate change, infrastructure age, and growth.

Staff Report

Origin

This report provides a summary of the 2026 Fraser River freshet, along with an update on 2025 rainfall statistics and ongoing works regarding the City's flood protection program.

As detailed in the City's Flood Protection Management Strategy, Richmond is situated approximately one metre above sea level, making flood protection integral to protecting the health, safety and economic viability of the City. Richmond is protected from flooding by infrastructure that includes 49 kilometres of dikes, 599 kilometres of drainage pipes, 61 kilometres of culverts, 151 kilometres of watercourses and 39 drainage pump stations with an estimated replacement value of \$3.7 billion.

This report supports Council's Strategic Plan 2022-2026 Focus Area #3 A Safe and Prepared Community:

Community safety and preparedness through effective planning, strategic partnerships and proactive programs.

Analysis

2026 Fraser River Freshet

In recent years, milder winters have occurred throughout the province, which has contributed to reduced snow depth levels in southern BC. Although climate patterns indicate the continuation of milder winters, the frequency and intensity of rainfall events is expected to continue to rise. For 2026, the province advised that Fraser River basin snowpack levels were 57% of normal as of June 1, 2026. This has led to a reduced spring freshet with the peak Fraser River flows measured at Hope to be 7,003 m³/s on June 3, 2026, which is between a 1-year and a 2-year return period event. Historical data over the past five years have been summarized in Table 1 below.

Table 1: Peak Fraser River Flow Measured at Hope, BC Over the Past Five Years

Year	Peak Fraser River flow measured at Hope, BC (m³/s)
2022	10,400
2023	9,130
2024	5,120
2025	7,060
2026	7,003

No flooding occurred in Richmond during the 2026 freshet. The City continues to be a leader in flood protection planning and mitigation through Council-endorsed capital projects and maintenance programs.

Predicted climate change impacts, including more extreme wet and dry weather events, may result in an increased variability in freshet flows in the future. This reinforces the need for the City's continued flood protection upgrade program.

2025 Rainfall

Significant Rainfall Events

The City of Richmond currently has 5 rain gauges located at City Hall, Fire Hall No. 2, Fire Hall No. 7, Richmond Ice Centre, and Hamilton Community Centre. The rain gauges measure and record rainfall, assisting the City in preparing for and responding to extreme weather events.

Rainfall highlights for 2025 include the following:

- The City received 1,092 mm of rainfall in 2025, which was 14% lower than the average annual rainfall over the last 10 years;
- December was the month with the most rainfall in 2025, with 203 mm of rainfall measured at the City Hall rain gauge, which accounted for 19% of the total rainfall measured at City Hall;
- Six significant rainfall events were recorded in 2025; however, none exceeded a two-year return period. The most intense rainfall event occurred on August 6, 2025, when the Richmond Ice Centre rain gauge recorded a rainfall intensity of 8.5 mm/hr for a 1-hour period; however, this intensity was not sustained as the total rainfall recorded for that day was approximately 25mm; and
- The City received 248 drainage service requests in 2025, which is the lowest annual total in the last 10 years (shown in Attachment 1). This indicates a well performing drainage system as a result of ongoing capital improvements, proactive maintenance programs, and preparedness actions for anticipated significant rainfall events.

The City's drainage system is designed to withstand a 10-year return period rainfall event. The drainage system performed well during rainfall events. The total annual rainfall over the last 10 years is included in Attachment 2.

In advance of anticipated weather events, an Operations Response Plan is initiated, and a number of actions are taken by staff to reduce localized flooding and respond to the anticipated weather event. Examples of actions taken to prepare the drainage system are increasing capacity by lowering water levels in the canals, adjusting settings at pump stations, clearing heavy leaf routes, inspecting and servicing identified hot spots, pre-planning the best deployment of resources, and preparing sandbags for both staff and public use.

After a weather event, staff review data from rain gauges, level sensors, SCADA, service requests, and staff observations to implement action items. Additionally, the City's *Getting Ready for Rain* campaign helps residents prepare for severe weather and provides steps to help reduce the risk of flooding. These efforts ensure the continued improvement and readiness of the City's drainage system.

Atmospheric River Initiatives

Using lessons learned from the November 2021 and October 2024 Atmospheric River events, a number of initiatives to assess and improve the City's drainage system have been undertaken.

Ongoing initiatives include coordinating with the Ministry of Transportation and Transit (MoTT) to identify drainage infrastructure upgrades and facilitate maintenance to address localized flooding issues, monitoring results of maintenance activities in drainage catchment areas, and acquiring a mobile fuel tanker to support emergency response preparedness for extreme weather events.

Completed initiatives include large-scale maintenance activities for drainage infrastructure in the Horseshoe Slough catchment; increased coordination with cranberry farms and City staff; investigation and review of existing drainage system locations to determine long-term upgrades; development of a sandbag staging and distribution program to help protect private properties during extreme weather events; construction of site drainage improvements and relocation of electrical equipment for the Edgemere Sanitary Pump Station; and upgrades to fuel supply infrastructure at the Works Yard.

Staff will continue to implement flood protection infrastructure upgrades and emergency response protocols to enhance the City's flood resilience during extreme weather events.

2025/2026 Winter Storm Events

During January 3 to 5, 2026, a provincial storm surge warning was issued. Staff prepared for the possibility of tides peaking up to 70 cm above expected water levels; however, Richmond saw tides peak 40 cm above expected water levels on January 4, 2026. Water pooling was observed along the south dike near London Wharf Park and Britannia Shipyards National Historic Site, along the north dike near the Moray Channel Bridge, and at the lower portion of the West Dyke Trail. All observed pooling remained outside of the dike crest or flood walls.

City crews completed the install of river gauges on Mitchell Island, as well as camera systems to monitor the tides on the island remotely. The Britannia flood wall was also erected during periods of high-water events. The events did not result in any flooding.

Overall, seasonal high tides and king tides were not significant over the winter, and the City's diking system performed well. There were no reports of dike overtopping, breaching, or other flood related concerns during this period. Erosion and debris run up continue to be addressed as part of the dike maintenance program.

Infrastructure Improvements

The City's flood protection system (drainage infrastructure and dike system) has a replacement value of approximately \$3.7 billion. The City is actively implementing the Council-endorsed accelerated flood response program and upgrading flood protection infrastructure to address the impacts of growth, infrastructure age and climate change.

Key planning and assessment work to support long-term flood protection improvements completed or underway in 2025 include:

- Hydrodynamic flood modelling to assess flood risks on Lulu Island;
- Dikes Emergency Reconstruction Strategy to support emergency response planning;
- Nature-Based Flood Protection Solutions Assessment for Lulu Island to identify opportunities to integrate nature-based approaches with flood protection infrastructure, where feasible; and
- East Richmond Agricultural Water Supply Study to identify potential upgrades to the drainage and irrigation system to improve water supply for agriculture.

These planning initiatives support the City's ongoing capital program, including continued dike upgrades to address sea level rise, land subsidence, growth and climate change.

Capital Dike Upgrades

Current climate change science estimates that sea levels will rise approximately 1.0 metre by the year 2100 and 0.2 metres of land subsidence will occur over the same time period. The City's Flood Protection Management Strategy is the guiding framework for continual upgrades and improvements to the City's flood protection system. A key action identified in the City's Flood Protection Management Strategy is to continue raising the City's perimeter dike to 4.7 metres in advance of climate change induced sea level rise.

The following dike improvement projects have been approved through the capital budget and are progressing through the various design phases or getting underway:

- North dike upgrades between Lynas Lane and No. 2 Road;
- South dike upgrades between No. 4 Road and No. 5 Road;
- South dike upgrades between 6080 Dyke Road to Gilbert Road;
- North dike upgrades between Knight Street and the CN Rail Trestle Bridge; and
- North dike upgrades between Terra Nova and Lynas Lane.

Funding to construct dike upgrades will continue to be requested through future capital projects for Council's consideration as part of the annual budget process. The City will also continue to seek senior government grant funding opportunities to support dike raising projects.

Dike Rehabilitation

Staff have developed a Dikes Emergency Reconstruction Strategy to help the City better prepare for any potential flooding emergencies in the future.

This strategy supports planning a better, faster, more robust and well-prepared response in the event of a future emergency. Notable dike inspection, maintenance and construction work in 2025 included the following:

- Responded to 10 High Water Events totaling 57 days of patrols;
- Completed 2 land side dike slope restoration projects totaling 200m and repaired 38 beaver burrows in the dike slope;
- Completed 3 waterside rip rap restoration projects totaling 1,905m;
- Completed 49km of brush cutting and inspections along the entire dike perimeter;
- Conducted the Annual Dike Inspection;
- Conducted an in-river water-side dike inspection;
- Purchased a new drone with LiDAR technology that will allow more in-depth analysis of the dike and other City assets;
- Repaired an emergency hydrant washout at the Horseshoe Slough Pump Station; and
- Removed invasive species from the north and west dike.

Pump Station Upgrades

Significant progress has been made in upgrading the City's drainage pump stations to accommodate growth and climate change. The total capacity of the City's drainage pump stations has increased by 30% since 2005. Over the last 20 years, as part of the City's asset management program, 19 of 39 drainage pump stations have been rebuilt or upgraded.

In 2025, the UBCM grant-funded Drainage Pump Station Climate Adaptation and Resilience Upgrade project was completed which involved the installation of new onsite generators at 6 drainage pump stations, permitting uninterrupted operation of the pump stations by providing backup power capabilities. The project was funded through a \$2,000,000 grant from the UBCM Community Emergency Preparedness Fund. In addition, through the Drainage Pump Station Rehabilitation and Generator Upgrade Program, the No. 6 Road North Drainage Pump Station was upgraded to increase the pumping capacity.

The City is currently undertaking a condition assessment of all 39 drainage pump stations. Upcoming drainage pump station upgrade projects include the No. 3 Road South and No. 9 Road-Westminster Highway Pump Stations.

During extreme events, a number of older pump stations operate near full capacity. These stations have been identified for upgrades. Projects to upgrade or replace these stations are either included in current capital budgets or will be brought forward for Council's consideration as part of future capital budgets.

Box Culvert Repair and Preventative Maintenance

The City has approximately 61 kilometres of culverts, the majority of which are 50 to 60 years in age. Although the box culverts have a design life of 100 years, premature failure of some joints has been observed in recent years.

The City has implemented a preventative box culvert maintenance program to inspect the condition of box culverts on a 7-year cycle and identify sections that require repair or replacement. Staff are proactively managing the condition of box culverts by identifying and repairing deteriorating joints before they cause significant damage. Repair of significant defects identified through the program will continue to be presented to Council for consideration as part of the annual capital budget.

Staff inspected 12.6 kilometres of box culverts within 13 drainage catchments in 2025. Results of each inspection are documented in reports with supporting images and video recordings. This allows staff to monitor changes to the condition of box culverts, thereby better informing long-term infrastructure improvement planning. In 2025, no significant defects were encountered and all minor defects that were identified have been repaired.

Rehabilitation of the No. 4 Road box culvert from Westminster Highway to Granville Avenue was completed in 2025. The rehabilitation included cleaning inside of the box culvert, detailed inspection of all the joints, injection grouting at joints and cracks to prevent infiltration into the box culvert and fill potential voids on the outside of the box culvert. The box culvert rehabilitation projects mitigate the deterioration of the box culvert joints and extend the service life of the culverts. The box culverts in the No. 2 Road South, No. 3 Road South, McCallan Road North, and No. 1 Road North drainage catchment areas are scheduled for inspection in 2026.

Canal Stabilization Works

The City undertakes canal stabilization works to upgrade canal banks and drainage and irrigation infrastructure. Canal stabilization upgrades help improve the capacity of the City's flood protection system by removing blockages along the canal and increasing the storage volume of the canal. In 2025, canal stabilization projects were completed along Sidaway Road between Westminster Highway and Blundell Road and along No. 7 Road between Highway 91 and Cambie Road.

Development

The City has successfully partnered with developers to secure dike upgrades through development. In particular, the City is actively pursuing opportunities to construct superdikes, where land supporting development behind the dike is filled to the same elevation as the dike crest. This eliminates visual impacts of a raised dike structure on waterfront views, while providing an enhanced flood protection structure for the City.

Superdikes, constructed through development to date, include sections of the north dike near the Richmond Olympic Oval and No. 4 Road, as well as sections along the south dike at Riverport Way, Williams Road, and in Steveston.

Budgetary Implications

There are no budgetary implications associated with the report.

Conclusion

The City observed the below average annual rainfall over the last 10 years in 2025, however, the intensity of rainfall events has continued to increase. Below average freshet flows were also observed in the spring of 2026. The drainage and flood protection system performed well, with negligible freshet flood risk and a below average number of drainage-related service requests.

Demands on the drainage and flood protection system will continue to increase due to climate change and growth. The Flood Protection Management Strategy guides the City to proactively forecast, plan and improve the City's flood protection system to meet long-term requirements. Through capital improvements, investment in preventative maintenance programs, and sound incident planning and response efforts, the City is able to manage flooding risks and maintain a high level of service to Richmond residents.

Significant progress continues to be made in advancing the City's dike planning efforts and implementing infrastructure improvements to the City's flood protection system.

Respectfully submitted,

Milton Chan, Director, Engineering

Report Contributors

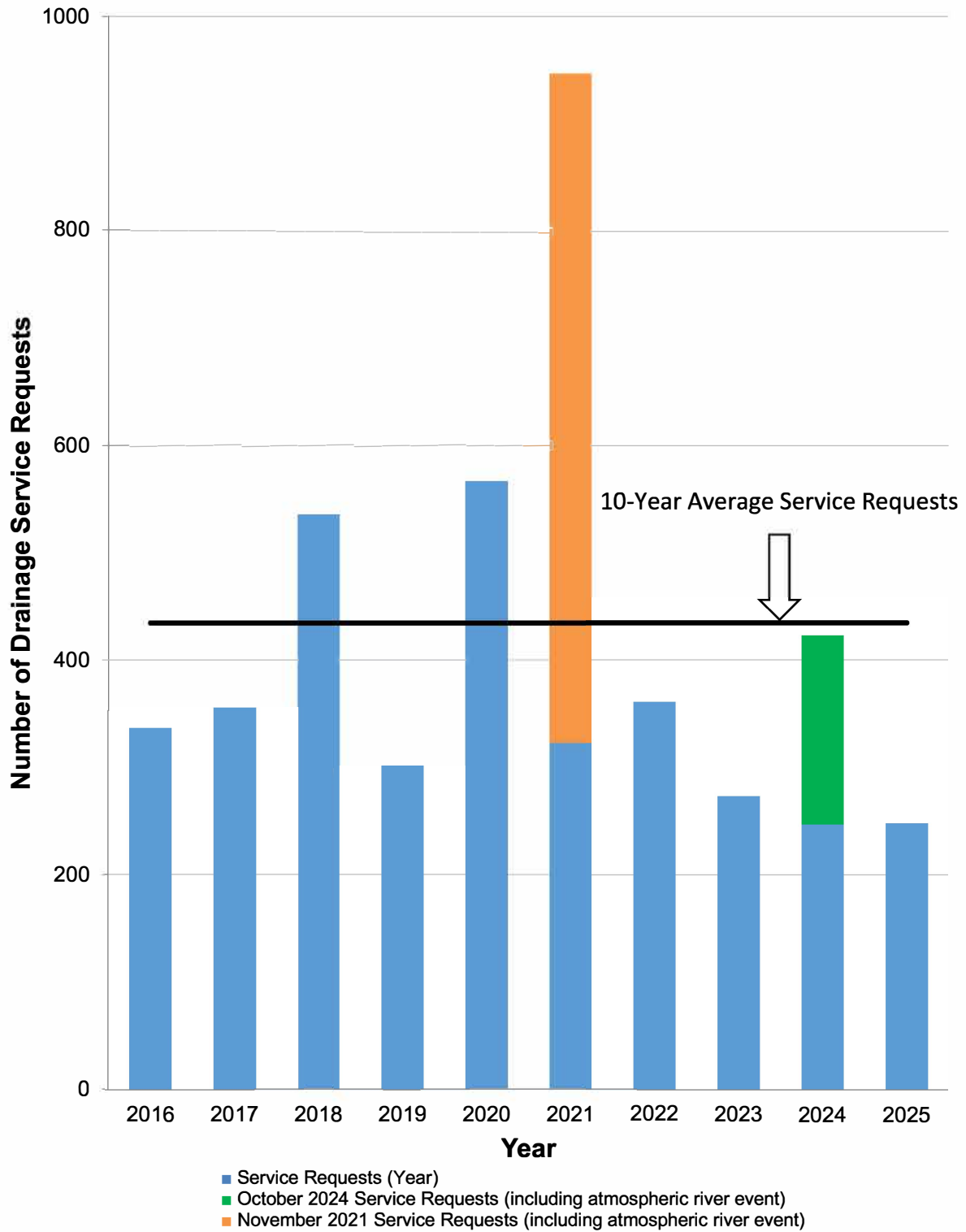
This report was prepared by Jason Ho, Manager, Engineering Planning and reviewed by Public Works.

Endorsed by Serena Lusk, CAO

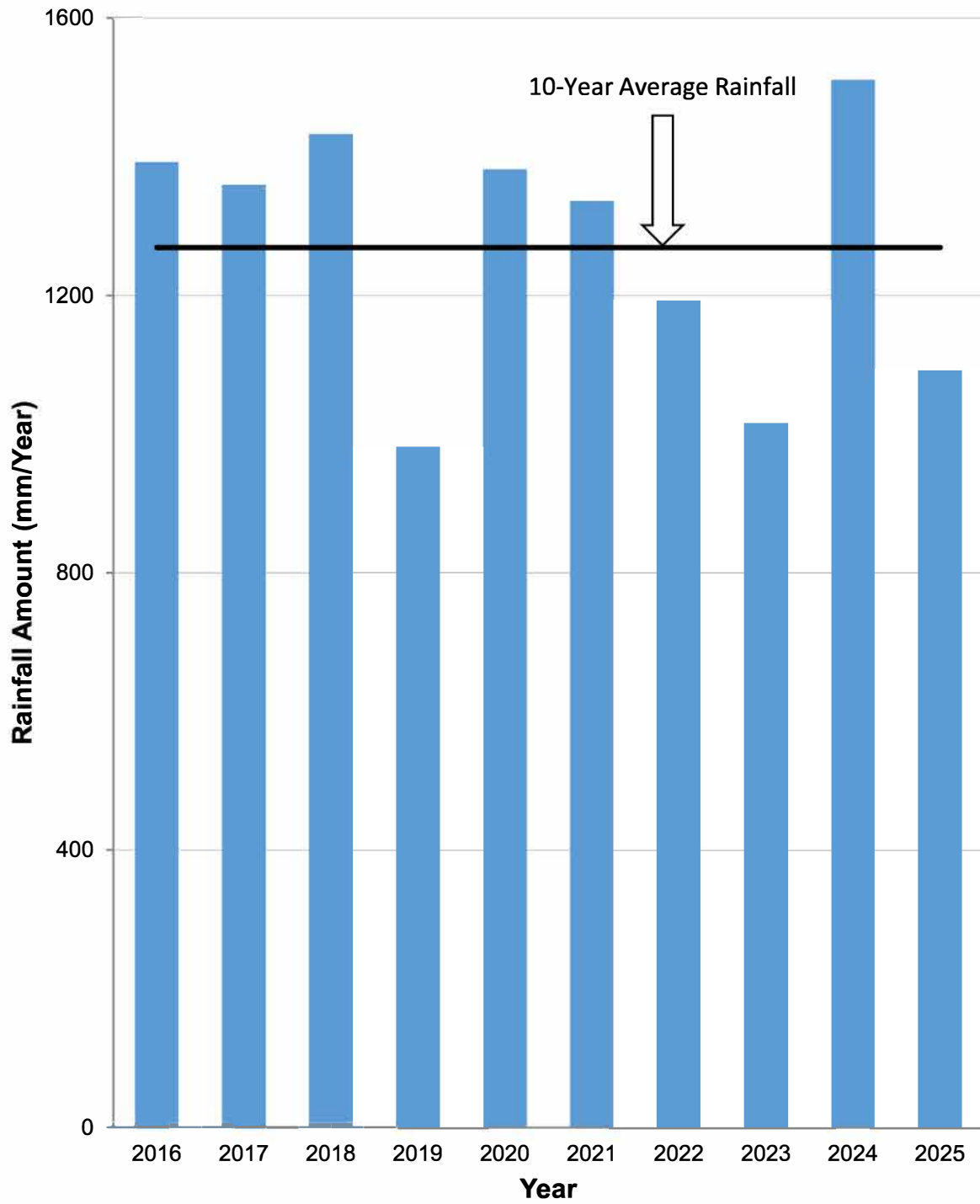
Att. 1: Annual Drainage Service Requests 2016 – 2025

2: Annual Rainfall Data 2016 – 2025

Annual Drainage Service Requests 2016-2025



**Annual Rainfall Data
2016-2025**





To:	Public Works and Transportation Committee	Date:	June 15, 2026
From:	Roeland Zwaag General Manager, Engineering and Public Works	File:	10-6650-01/2025-Vol 01
Re:	Richmond Water Quality and Conservation Report 2025		

Staff Recommendations

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2. Submitted to the Drinking Water Officer and Medical Health Officer; and
3. Made available on the City’s website, through various communication tools including social media channels and as part of community outreach initiatives.

Executive Summary

This report presents the Richmond Water Quality and Conservation Report 2025 for Council’s consideration. The Report fulfills the City’s annual public reporting obligations under applicable drinking water legislation, including reporting water quality results to Vancouver Coastal Health’s Drinking Water Officer and Medical Health Officer, and summarizes the City’s water quality monitoring, water system operations, infrastructure renewal, emergency preparedness and water conservation programs. In 2025, Richmond’s drinking water met applicable drinking water quality guidelines, with 2,080 water samples collected and tested from 40 dedicated sampling sites, and 33.0 million cubic metres of water delivered to residents, businesses and institutions.

The Report also highlights the City’s continued focus on conservation and service reliability. Since the water metering program began in 2003, total annual water use has decreased by 17% while Richmond’s population has increased by over 40%. Key 2025 initiatives included replacing 4.5 kilometres of asbestos cement watermain with PVC pipe, inspecting 653 kilometres of watermains and repairing 70 leaks, installing 36 multi-family meters, replacing 688 water meter registers, providing 234 low-flow toilet rebates, supporting 105 rain barrel purchases, maintaining outdoor and mobile drinking water fountains, and continuing the Simple Habits Save Water campaign.

Staff Report

Origin

This report presents the City's "Richmond Water Quality and Conservation Report 2025" (the Report), which enables the City to meet its obligations for public reporting to comply with applicable requirements in accordance with the Drinking Water Protection Act and regulations. The City ensured the safe and adequate supply of essential water services throughout 2025. The Report also provides information on the City's water system and water conservation efforts.

This report supports Council's Strategic Plan 2022-2026 Focus Area #3 A Safe and Prepared Community:

Community safety and preparedness through effective planning, strategic partnerships and proactive programs.

Analysis

Background

In 2001, the Province of British Columbia enacted the Drinking Water Protection Act, which gave authority to the Minister of Health to implement and enforce standards for water supply systems in British Columbia. In May 2003, regulations to be implemented under the Act were adopted by the legislature as the Drinking Water Protection Regulation. These Acts were updated on April 29, 2014, under Bill 18 – 2014: the Water Sustainability Act. These regulations are designed to ensure the safe supply of drinking water.

The Drinking Water Protection Regulation requires water purveyors in BC to possess an operating permit, which confirms the Drinking Water Officer for the area has approved the water supply. Vancouver Coastal Health is responsible for the placement and function of the Drinking Water Officer, who has the authority to monitor water purveyors to ensure they are providing safe drinking water through compliance with the British Columbia Drinking Water Protection Regulation, and any other conditions of the operating permit.

Under the Regulation, the City of Richmond is required to:

- Develop and maintain a process to notify the Drinking Water Officer and the Medical Health Officer of situations or conditions that could render unsafe drinking water;
- Implement and maintain a plan for collecting, shipping and analyzing water samples that adequately represent all areas within the City, in compliance with the direction set by the Drinking Water Officer; and
- Implement and maintain a plan for reporting results to the Drinking Water Officer and to water users.

Water Services – Distribution and Programs

Richmond is proactive in its services and programs in order to provide water to residents and businesses, as well as water for fire protection services. All water supplied is from Metro Vancouver, and to ensure a consistent supply, the Capital Construction Watermain Replacement and Pressure Management programs are in place as proactive approaches to reduce the risk of watermain breaks. These approaches have been proven to be reliable and valuable tools in water distribution management. The Capital Construction program replaces aging infrastructure that is susceptible to breaks and the Pressure Management program lowers the strain on existing infrastructure to make it less likely to develop leaks and breaks. The City's Leak Detection Program is another proactive approach that helps quickly identify leaks and reduce the number of breaks and water loss. By scanning the City's system, non-visible leaks can be detected before they surface. In 2025, through the Leak Detection Program, 70 leaks were repaired and put back into service without compromising the integrity of the water distribution system. These three proactive programs are essential for minimizing costs with water losses and ensuring minimal disruptions to water quality and supply.

Water conservation is an important aspect of Richmond's Water Services operations. Climate change, extreme heat events and increasingly dry summers in recent years have emphasized a critical need for city-wide water conservation efforts. The City, through its Water Use Restriction Bylaw No. 7784, collaborates with Metro Vancouver to align water restrictions and various programs to promote the conservation of water and to minimize the wastage of potable water. Richmond's various water conservation programs are outlined in the Report.

Annual Water Quality Report

The annual water quality report is presented in Attachment 1. Highlights of the Report include:

- Through 640 kilometres of total watermain, the City, delivered 33.0M cubic metres of water to 248,321 residents, businesses and other institutions.
- The water met all drinking water quality guidelines and Richmond residents and visitors enjoyed high quality, safe and reliable drinking water.
- 2,080 water samples were collected to ensure water quality and each passed with exceptional results.
- Compared to the year that Richmond's water metering program started in 2003, the City's total water usage in 2025 decreased by 17%, from 39.7M cubic in 2003 to 33.0M cubic metres in 2025, despite a population increase of 34% from 178,319 to 248,321 residents over the same period.
- Richmond's 40 outdoor water fountains found in parks and other public areas provided potable water to the public while promoting tap water consumption as an alternative to bottled water.
- Three watermain replacement projects were completed, replacing a total of 4.5 kilometres; and 36 multi-family meters were installed.
- Water Conservation campaign "Simple Habits Save Water" will continue through 2026.

In addition to these highlights, the City is continuously evaluating and improving proactive maintenance and detection programs to ensure safe and uninterrupted water service to the community.

These and many other initiatives are detailed in the Report.

Proposed Communication

Subject to Council's approval, the Report will be posted on the City's website and made available through various communication tools including social media channels and as part of community outreach activities.

Budgetary Implications

None.

Conclusion

The Report outlines the methods in which the City manages its water system to ensure compliance with applicable provincial requirements under the Drinking Water Protection Act. In 2025, the City's water quality met and exceeded the required standards to ensure residents enjoyed high quality, reliable and safe drinking water. The City's water quality services further support businesses and promote livability through accessibility while enjoying Richmond's outdoor active spaces throughout the community.

This report will be reviewed and endorsed by the Medical Health Officer of Vancouver Coastal Health Authority as part of the City's reporting obligations.

Respectfully submitted,

Suzanne Bycraft, Director, Public Works

Report Contributors

This report was prepared by Nicholas Siu, Water Project Manager, and reviewed by Engineering.

Endorsed by Serena Lusk, CAO

Att. 1: Richmond Water Quality and Conservation Report 2025



Richmond **Water Quality and Conservation Report 2025**





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1.0

Year in Review



1.1 Prioritizing water conservation in Richmond



As part of the City of Richmond's commitment to sustainability, water conservation is a top priority for the Water Department.

Water metering in homes and businesses helps the City monitor the amount of water being used and allows residents to pay only for what they are using. Water meters are installed in all new homes as part of the building process. All single-family homes and businesses are now on water meters.

In 2025, the City also **installed 36 multi-family meters** under the universal water metering program, which supports water conservation. This brings the percentage of multi-family properties with **water meters up to 63%**.

Since residents and businesses are billed based upon the actual amount of water they use, rather than a flat-rate system, water meters provide a financial incentive to conserve water. On average, this has resulted in not only less water used, but also **50% savings in water costs for residents and businesses**.

To help accurately track water usage, in the last year **688 water meters were replaced** with new technology that allows for wireless data collection with better monitoring capacity.



Water conservation not only helps to ensure the City has the water it needs in the future but also helps keep water in reservoirs for the hot, dry summer months. One way this is done is through Metro Vancouver's water restrictions, which are in place from May 1 to October 15.

The City also provided **234 rebates to residents who purchased low-flow toilets**, limiting the amount of water used with each flush. Residents further supported water conservation by purchasing **105 rain barrels**. This is a great way to collect water during wet seasons to use during drier months.

All these measures, and actions taken by residents to be water conscious, has **reduced Richmond's the annual water usage** by 6.7 million cubic metres, or 80 cubic metres per person, **since 2003 – a 17% reduction**. That's enough water to fill the BC Place Stadium six times.

Another impressive fact that highlights Richmond's dedication to water conservation is that while the City's population has grown from just over 200,000 people in 2013 to over 248,000 people in 2025, **water consumption has decreased from 180 million cubic meters to 133 million cubic meters** during this same timeframe.



2025 TOTAL
WATER USE
33.0
million
cubic metres

=

WATER USE
PER PERSON
133 cubic
metres



SAFE DELIVERY OF WATER

Having safe, clean and reliable drinking water is another priority for the City with **33 million cubic metres of water delivered to Richmond's 248,321 residents**. To ensure the water coming out of the taps meets British Columbia Drinking Water Protection Regulations, in 2025, **City staff collected 2,080 water samples**, taking actions to meet or exceed public health standards.

These water samples are taken on a weekly basis at **40 dedicated sampling sites** strategically located throughout the community. The samples are then sent to Metro Vancouver laboratories for analysis. Water is monitored for taste, odour, temperature and appearance, while ensuring it is free of contaminants.

Another way the City provides consistent water delivery is by maintaining and replacing Richmond's **600 kilometres of watermains**. Last year, 4.5 kilometres of asbestos cement watermains were replaced with new PVC pipes. Using acoustic equipment, **City staff inspected 653 kilometres**

of watermains and **repaired 70 leaks**. An additional **137 new service connections** were installed and four capital construction projects completed.

Other maintenance included **replacing 688 water meter heads, repairing 13 watermain breaks, and completing 116 service connection repairs**.

Crews also responded to 1,129 service requests.

They provided round-the-clock response to leak and watermain breaks, leading to timely repairs and minimal downtime.

In 2025, an additional **40 slide-gate fire hydrants were replaced with compression hydrants**. These newer hydrants reduce property damage due to motor vehicle accidents. Summer students **re-painted 978 fire hydrants** to improve their visibility while the removal of vegetation overgrowth allowed for **improved access to 2,498 fire hydrants**.

RESPONDING TO EMERGENCIES

While much work is done to keep the City's water supply safe, clean and reliable, it is important to take a proactive approach to preparing for emergencies that could impact Richmond's water supply. The City has a mobile emergency water treatment trailer that can be used when the water supply is contaminated or unavailable. This trailer provides safe, drinkable water in the event of a disruption to regular service.

The mobile unit is flexible and can be used to respond to both large-scale emergencies and smaller, neighbourhood-contained incidents. **The treatment trailer can filter approximately 60 litres of water per minute and can draw water straight from the Fraser River.**

EDUCATING THE NEXT GENERATION

Recognizing children's interest in protecting the environment, in partnership with Richmond elementary school teachers, each year Richmond's Public Works staff host Project WET. This is an interactive elementary school program aimed at educating students on the importance of water.

In 2025, over 250 Grade 4 to 7 students came to the Works Yard to learn about water conservation, supply and quality. Students also learned about sewerage and drainage, environmental programs and inspections.

Having the chance to participate in hands-on learning has made this a highly popular program with available class spaces fully booked.

The City is proud of the work done by its staff and community members to not only conserve water but also ensure the quality of water flowing through our system is clean, safe and reliable.

2025 Top Accomplishments

This report showcases some key Water Services achievements in the past year, along with our ongoing commitment to excellence and innovation in service delivery.

1

Safe delivery of water

Delivered 33 million cubic metres of water and tested 2,080 water samples that all met the drinking water quality guidelines.

5

Promoted water conservation

Provided 234 rebates to residents who purchased low-flow toilets. Residents also purchased 105 rain barrels to support water conservation.

3

Leak detection and repair

Used acoustic equipment to inspect 653 kilometres of watermain and repaired 70 leaks.

2

Watermain replacement

Replaced 4.5 kilometres of asbestos cement watermain with new PVC pipes.

4

Expanded water metering

Installed 36 multi-family meters as part of a universal water metering program, which supports water conservation.

6

Upgraded flushing stations

Upgraded 13 flushing stations controllers to bluetooth to enhance flushing automation for water quality purposes.

7

Enhanced monitoring technology

Replaced 688 Neptune V3 Water Meter Registers for better monitoring capacity.

8

Upgraded fire hydrants

Replaced an additional 40 slide-gate hydrants with compression hydrants to reduce property damage due to motor vehicle accidents.

9

Efficient service response

Crews responded to 1,129 service requests, including leaks and watermain breaks, with round-the-clock response.

10

Upgraded water fountains

Completed upgrades of two permanent drinking fountains to include dog bowls and backflow preventers.

1.2 Year in Review Highlight

Richmond's Water Fountains Keep Residents Hydrated Throughout the Community

Richmond residents love to stay active, enjoying the City's many parks, trails and community spaces. To help keep the community hydrated while on the go, the City has water fountains strategically placed in busy areas – making it easy and convenient to have a drink or fill your water bottle.

The City's permanent drinking water fountains are maintained twice a month to ensure clean, reliable drinking water directly from the source – the City's water mains. City staff make sure the fountains are in working order, test the quality of water and clean them. This regular proactive maintenance ensures the public can consistently enjoy safe, clean and high-quality drinking water throughout the City.

Once fountains no longer meet operational standards or stop functioning properly, they are replaced with newer fountains that incorporate a water bottle-filling station, with the aim of reducing the usage of single-use plastic bottles. Some of the fountains also include ground-level spouts for thirsty pets.

When considering the installation of new fountains, the City's parks and engineering staff consider their proximity to new community developments where residents gather, such as dog parks.

During the winter months, these fountains are turned off to prevent freezing and costly damage. Once the weather warms up, the taps are turned back on for everyone to enjoy.

Over the course of the year, residents and visitors used 250,000 litres of water from these fountains. Water that helps keep dogs cool and people hydrated.

Did you know the City of Richmond maintains 40 outdoor and three powered mobile water fountains, providing safe and reliable drinking water for residents on the go?

With 29 fountains in parks and trails and another 11 in main community areas, City staff work hard to ensure the water is always flowing.



COMMUNITY EVENTS

In addition to the permanent water fountains, for over 10 years the City has provided mobile water fountains to help people quench their thirst at community events. This includes three fountains – one large unit and two smaller ones.

The portable water fountains are typically in demand from March to September. These units provide the community with access to fresh drinking water at outdoor events throughout the city. Fountains are often set up on Fridays, with staff conducting water quality testing prior to usage to ensure the highest possible standards of the water coming out of the taps. They are then removed on Mondays, at which time staff record the total water consumption in cubic meters.

In 2025, these portable fountains were dropped off to 65 events or community gatherings, such as Steveston Salmon Festival and Richmond Maritime Festival, with 8,546 litres of water being consumed.

The City also has provided drinking water fountains that can be attached to the side of fire hydrants. These units offer a water source at events or camps where other service options are not available or practical.

Providing water throughout the community is an important resource to help Richmond decrease its waste. Being able to have a drink or fill your water bottle on the go, helps people save money while also reducing the number of disposable containers being sent to landfill.

Just like all water that comes out of the City's taps, the water from the portable fountains is tested upon installation to ensure good quality water is being provided for the public to enjoy.

Event attendees often express their appreciation for having access to fresh, cold drinking water – especially during hot summer days. City staff work closely with event organizers to accommodate their needs and ensure the water provided contributes to a safe, enjoyable experience. By providing reliable access to clean drinking water, the City enhances the overall success of community events.

MISTING STATIONS

With rising temperatures, and warmer summer days, the City has invested in designing its own misting stations. After testing several designs, the City's plumbers, welders and painters, along with the water team, developed a made in Richmond design. In 2026, a permanent misting station will be installed as a pilot project.

The City also has temporary misting stations that are easy to set up. These are placed at a water source, such as a fire hydrant, to help people cool down. These will be phased out as new permanent stations are installed.

Working with the City's Emergency Programs, the temporary stations are set up in high foot traffic areas during extreme high temperature events, providing relief in parks and popular outdoor locations like Minoru Plaza and Garry Point Park.

The City's water staff work hard throughout the year to ensure safe and reliable drinking water for residents and visitors, not just at home but also when they're on the go. So, the next time you're out for a walk or heading to an event, look for one of Richmond's water fountains to stay hydrated.

Enjoy a drink knowing the water coming from the tap is regularly maintained and tested to ensure the water is not only refreshing, but also safe for you, your family and your pet to drink.

1.3 Setting Goals and Objectives

The goals for Water Services are to provide clean and high-quality tap water to Richmond residents; ensure adequate supply of water to meet demand; apply innovative technology, equipment and operational practices as part of continuous improvement to secure water quality and support water conservation; provide 24/7 emergency response support to residents experiencing water service leaks or disruptions; and improve water conservation in the community through outreach, education and programs.

These objectives support the City in achieving its goals.





1. Water quality

Continue to maintain a high level of quality water with no positive results of contamination within the water system.



2. Water Conservation Education

Launch a water conservation awareness and education campaign.



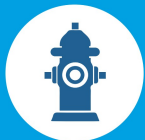
3. Deliver Community Outreach

Conduct elementary school education through Project WET and community outreach at the Public Works Open House, and develop activities and materials for enhanced outreach in the community.



4. Expand water metering

Install 24 multi-family meters of various sizes.



5. Continue fire hydrant upgrades

Change out 20 Brigadier-series M59 bodies and heads to be updated to the new M67 which are less likely to seize and have better serviceability.



6. Watermain replacement

Upgrade five kilometres of City watermains with new PVC pipes to replace outdated asbestos cement pipes.



7. Enhance water meter monitoring

Replace an additional 62 Neptune V3 Water Meter Registers to better monitor and read through the City's fixed base towers.

1.4 Tracking Our Progress

As part of tracking its progress, the City collects data across a broad spectrum of programs, services and activities. This data shows how Richmond meets its mandates for reliable delivery of safe drinking water and water conservation.

The mix of data reported reflects the effectiveness of Water Services' many programs and its commitment to excellence and innovation.

2,080
water
samples
tested


40
testing
locations

WATER QUALITY TESTING

Every week, Water Services collects water samples for analysis from multiple locations across Richmond.

In 2025, we collected and tested 2,080 water samples.

WATER SUPPLY AND USAGE

Since the water metering program started in 2003, water use has declined by 17%. This is despite the fact that the City's population has grown by 39% (70,073 people) since 2003 for a total of 248,321 residents in 2025. Our individual and collective efforts have made a huge difference.

17%
water use
reduction

in annual volume use
in 2025 compared
to 2003



2025 TOTAL
WATER USE
33.0
million
cubic metres*



2025
WATER USE
PER PERSON
133 cubic metres*



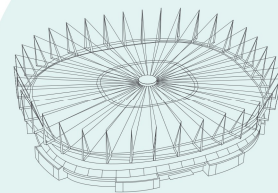
REDUCTION
IN ANNUAL
WATER USE
per person
SINCE 2003
80 cubic metres*

39%
water use
reduction

per capita use in 2025
compared to 2003

6.7
million
cubic metres*

Reduction in total
annual water use
in 2025 compared to
2003 (by volume)



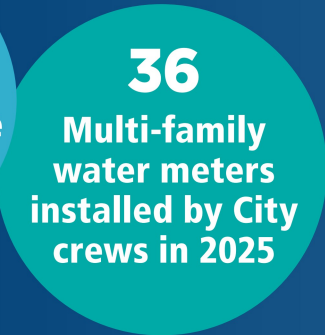
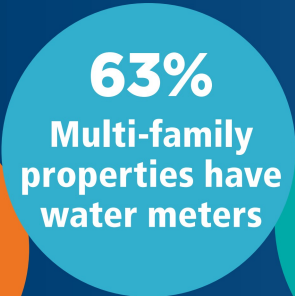
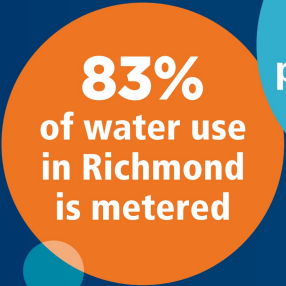
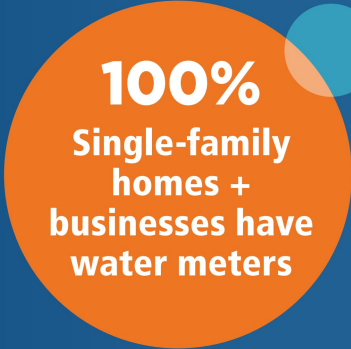
6x

That's enough water to fill
BC PLACE STADIUM
six times.

*One cubic metre = 1,000 litres

WATER METERS

Richmond’s reductions in water use have been largely driven by the City’s move toward universal water metering. All single-family homes and businesses are now on water meters. More than half of multi-family homes are also on meters.



Type	Total Complexes	Metered Complexes	Percentage of Complexes Metered
2024 Totals	1,077	646	60%
2025 Totals	1,112	700	63%



WATER CONSERVATION PROGRAMS

In addition to water metering, the City has a number of ongoing programs to promote water conservation, from leak detection and repairs to rain barrel sales and a rebate program for the purchase of low-flow toilets.



105 Rain barrels sold



234 Rebates for low-flow toilet purchases



70 Water leaks detected and repaired

Lawn sprinkling causes a significant increase in water use during the high-demand months from May to October. Regional sprinkling limits are introduced annually to encourage people to use less water and water less often. However, despite those limits, summer consumption levels continue to place a strain on the water supply.

AVERAGE MONTHLY USE
2025 LOW-DEMAND MONTHS

2,475,376
cubic metres

AVERAGE MONTHLY USE
2025 HIGH-DEMAND MONTHS

3,318,646
cubic metres

Due to the water usage in the summer of 2025

STAGE 1
water restrictions were in place from May 1 to mid-October.



168 days of Stage 1 watering restrictions



WATER DISTRIBUTION NETWORK

The City has a comprehensive network of watermain, service connections, hydrants and other infrastructure to ensure reliable water delivery to its users. Through a series of pressure reducing valves, the City's network connects to Metro Vancouver's system, which delivers water across the region from its mountain reservoirs.

INFRASTRUCTURE

640 
Total kilometres
of City
watermain

13 
Pressure reducing
valves

5,253
Fire
hydrants



CONSTRUCTION AND MAINTENANCE

Annual maintenance and construction programs help to ensure Richmond's community has access to a reliable, high-quality water supply.

NEW CONSTRUCTION

4.5 KM
of new
watermain
constructed

4
Capital
construction
projects
completed

137
New service
connection
installations



MAINTENANCE

116

Service
connection
repairs



13

Watermain
breaks
repaired



688

Water meter
heads
replaced



1,129

Service requests
received by
patrollers



COMMUNITY SERVICE

As an added benefit to serve residents and visitors, Water Services provides both permanent and portable water fountains around the community and at events as well as misting stations during extreme heat periods.

8,546
Litres of water
dispensed
from mobile
fountains

40
Permanent
water
fountains

4
Mobile
water
fountains

231
Days mobile
water fountains
in service

To support work experience opportunities for local youth and provide increased capacity to perform seasonal work, the City hires extra staff for the summer. Some tasks performed by summer students included important fire hydrant maintenance.

978
Fire hydrants
re-painted by
summer students
to improve
visibility

2,498
Sites with improved
access to fire hydrants
thanks to work done
to clear vegetation
overgrowth around
hydrants.

WATER COST COMPARISON

The cost of municipal water remains one of the best values around.

In the City of Richmond, the equivalent of 40 bottles of store-bought water (500 ml) costs just \$0.04 (four cents) when it comes from your tap. The same amount of water at a major local retailer costs roughly \$5.49.

Bottled water costs about 140 times more than the same amount from the tap.

\$1.85

**AVERAGE
METERED RATE**
for one cubic metre*
*1,000 litres of water

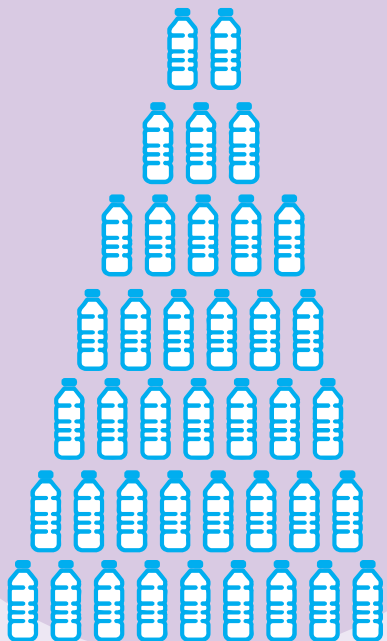
\$5.49

**COST FOR ONE PACK OF
40 X 500 ml
bottles of water at
a local retailer**

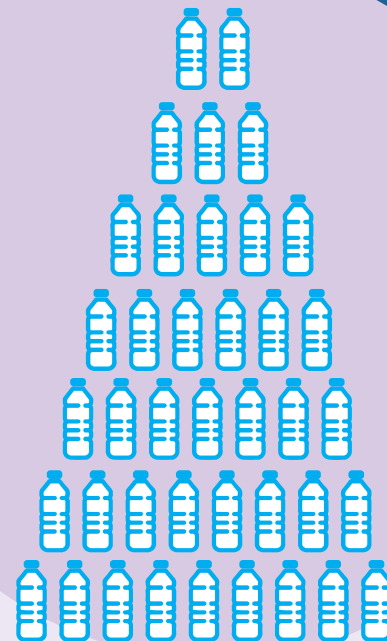
CITY OF RICHMOND WATER

VS

LOCAL STORE BOUGHT WATER



Cost of equivalent amount of water
(40 x 500 ml) from your tap



Cost for one pack of 40 x 500 ml bottles
of water at local retailer

2.0

Safe and Reliable Water Delivery



2.1 Where Our Water Comes From

The City of Richmond's drinking water is supplied by Metro Vancouver via four large transmission mains. The water then enters the City's water distribution system through various connections and is delivered to residences and businesses through our system via service connections at each property.

The region's water supply originates from three local watersheds: Capilano, Seymour and Coquitlam. The watersheds contain large collection lakes called reservoirs, which collect and store rainfall and snowmelt from the mountains. Water from the reservoirs is treated at two water treatment facilities: the Seymour Capilano Filtration Plant, which treats water from the Seymour and Capilano reservoirs, and supplies two thirds of the region's drinking water; and the Coquitlam Water Treatment Plant, which treats water from the Coquitlam reservoir and supplies the remaining third of the region's drinking water. The City of Richmond gets the majority of its water from the Seymour and Capilano reservoirs.

The Seymour plant is the largest filtration plant in Canada and has the capacity to filter and disinfect up to 1.8 billion litres of water per day. It is located in the Seymour watershed so water has to be transmitted from the Capilano reservoir to the Seymour plant and back by two underground watermain called "Twin Tunnels," which are over 7 kilometres long and 3.8 metres in diameter. Water at this facility undergoes filtration and ultraviolet (UV) disinfection.

The Coquitlam plant is located north of the City of Coquitlam and treats 380 million litres of water per day. Water at this facility undergoes ozone and UV disinfection. The treatment methods at each plant are designed to address the specific characteristics of the source water.

The City of Richmond gets the majority of its water from the Seymour and Capilano reservoirs.

Metro Vancouver manages three local watersheds: Capilano, Seymour and Coquitlam.

The Seymour plant is the largest filtration plant in Canada and has the capacity to filter and disinfect up to 1.8 billion litres of water per day.

Metro Vancouver Watershed and Water Transmission Map

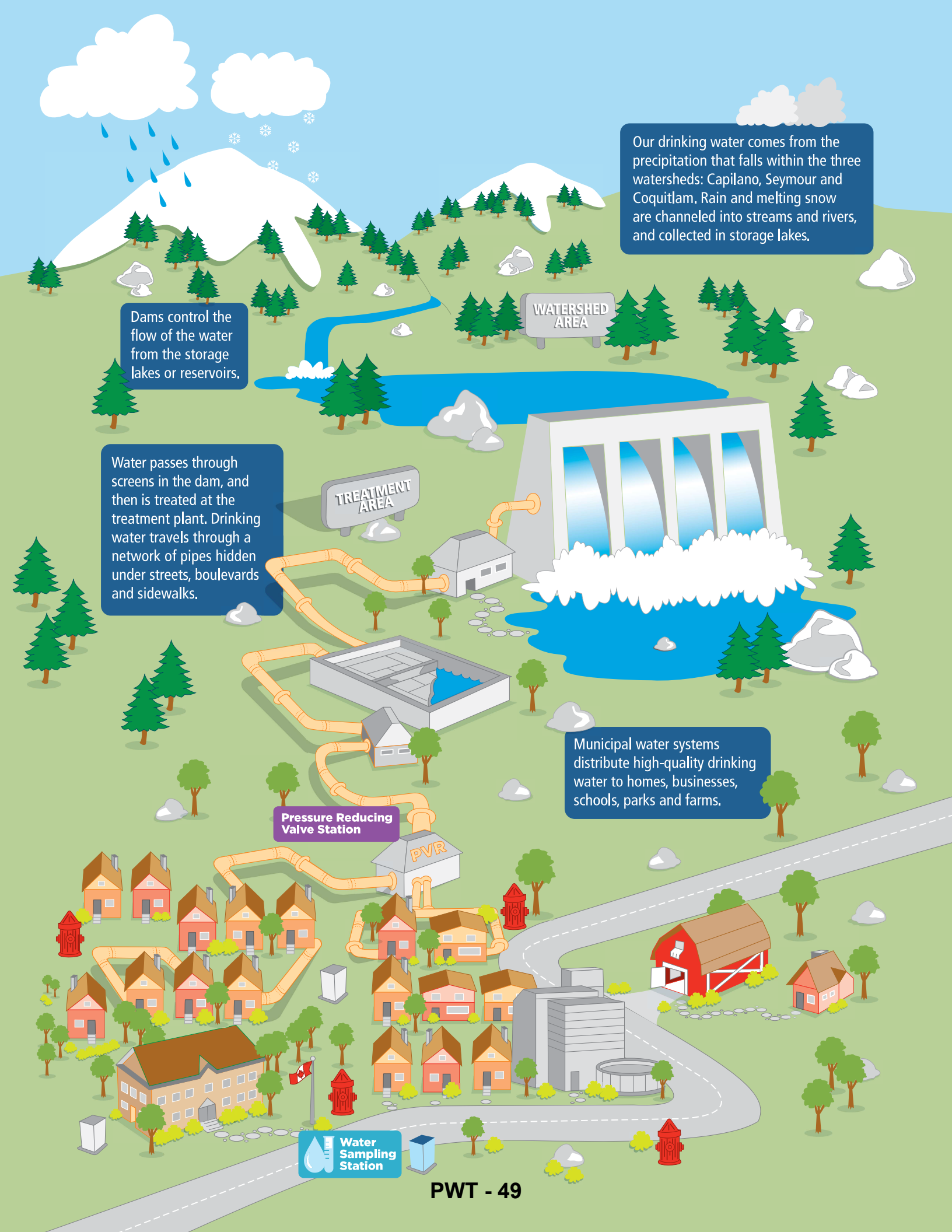
Did you know?

THERE ARE THREE WATERSHEDS that have the capacity to provide over two billion litres of drinking water in one day!

PRESSURE REDUCING VALVE STATIONS are located throughout Richmond to decrease the pressure of water as it enters Richmond's distribution system from Metro Vancouver's system.

WATER SAMPLING STATIONS are located throughout Richmond, where the water is regularly tested and monitored. The City takes pride in providing residents with safe, high-quality tap water.

GRAVITY AND PUMP STATIONS in Metro Vancouver's water transmission deliver water to Richmond and keep pressure up in the system.



Our drinking water comes from the precipitation that falls within the three watersheds: Capilano, Seymour and Coquitlam. Rain and melting snow are channeled into streams and rivers, and collected in storage lakes.

Dams control the flow of the water from the storage lakes or reservoirs.

Water passes through screens in the dam, and then is treated at the treatment plant. Drinking water travels through a network of pipes hidden under streets, boulevards and sidewalks.

Municipal water systems distribute high-quality drinking water to homes, businesses, schools, parks and farms.

Water Sampling Station

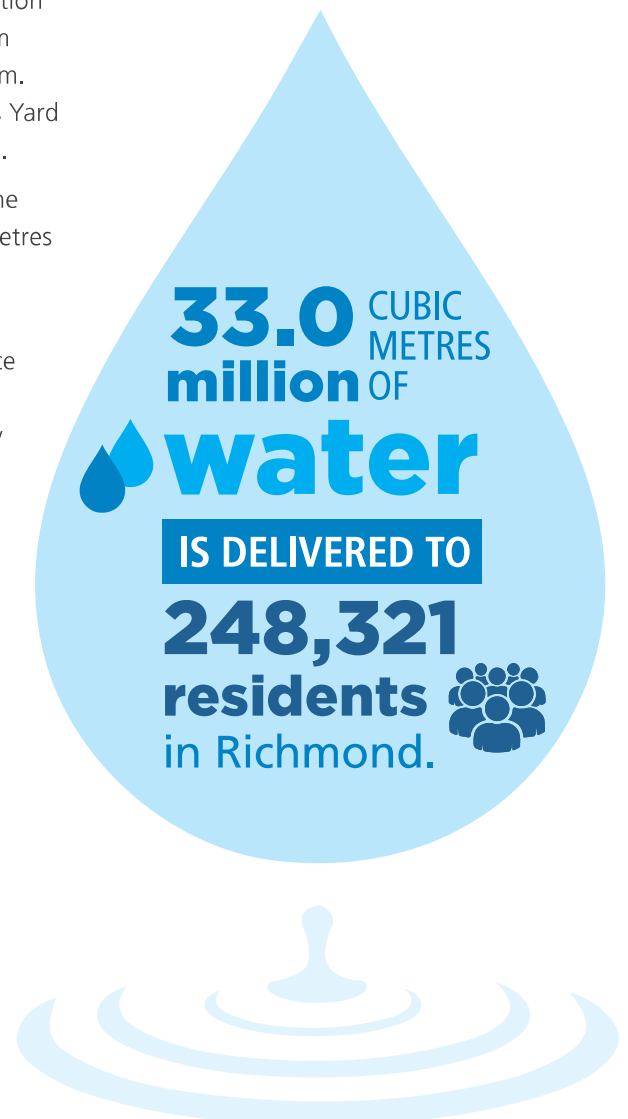
2.2 Our Water System

The City of Richmond owns, operates and maintains a complex water distribution system, which delivers water to its residents, businesses and other customers.

Once Metro Vancouver treats the water, it is carried into Richmond via four large transmission mains: Angus Drive main, Lulu Island-Delta main, Tilbury main and Annacis main No. 4. Richmond then draws water through 13 connection points along Metro Vancouver's mains. Each connection has a pressure reducing valve station that reduces the pressure from the transmission mains to match the pressure set in the City's system. The pressure reducing valve stations are monitored from the Works Yard through a supervisory control and data acquisition (SCADA) system.

Downstream of the pressure reducing valve stations is the rest of the City's water distribution system, consisting of more than 630 kilometres of distribution mains.

The water mains are all interconnected in different ways to supply high-quality water to our residents and businesses. Individual service connections feed water from the main network to homes and businesses. All businesses and single-family homes, as well as many multi-family complexes, have been provided with water meters, which record consumption. A network of fire hydrants, valves, service connections and other infrastructure further supports delivery of water where and when it is needed. An overview of our water system is shown on *Figure 1* on page 28.





Richmond's water supply originates from one of three regional reservoirs.

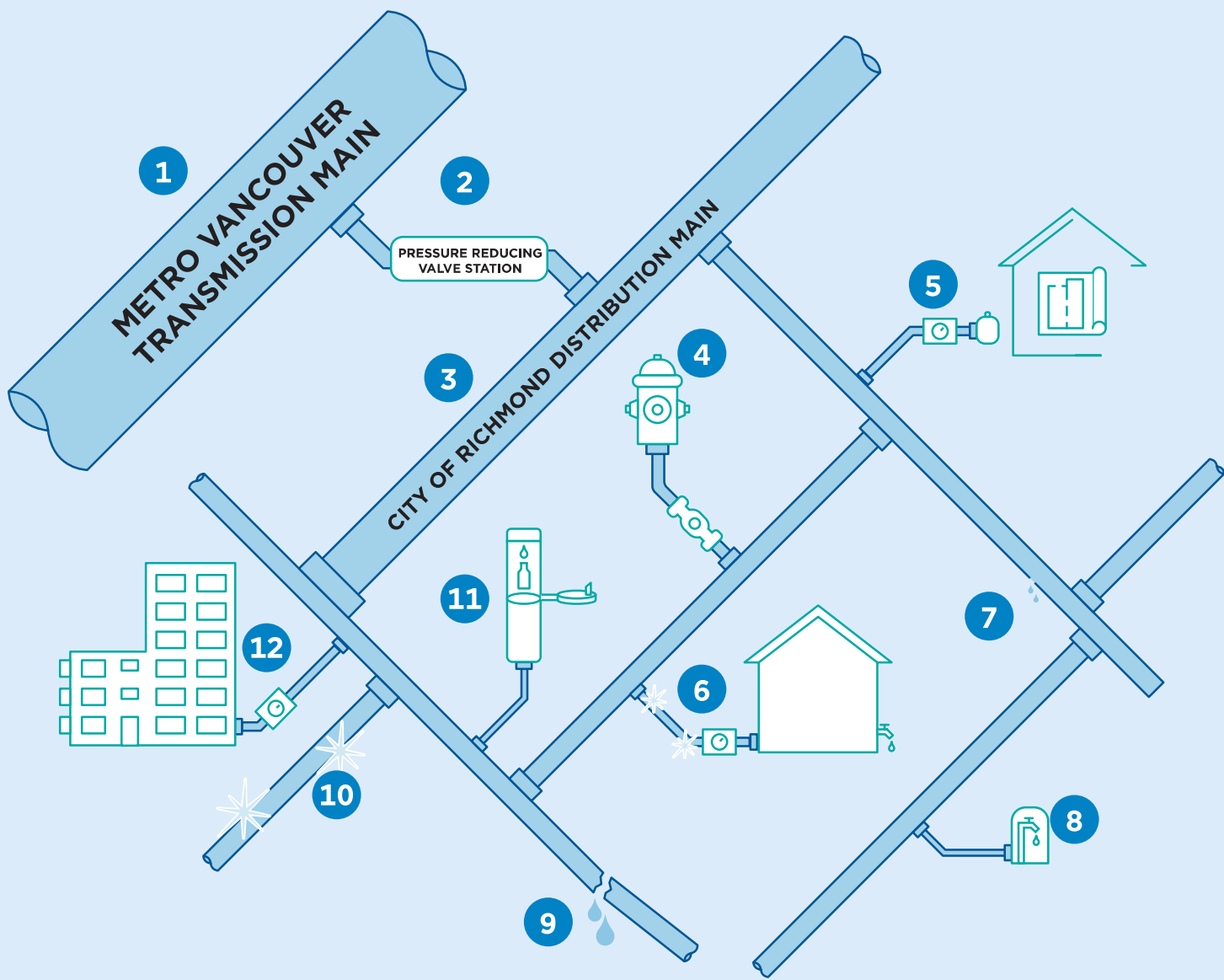


Figure 1

Richmond's Water System

- 1 Metro Vancouver supplies drinking water to the City of Richmond via four transmission mains.
- 2 Pressure reducing valve (PRV) stations are the interface between Metro Vancouver's mains and the City of Richmond's water system. Water Services crews operate and maintain PRV stations throughout the City.
- 3 The City of Richmond's water system is made up of more than 640 km of watermains. The watermains are all interconnected in different ways to supply high-quality water to Richmond residents.
- 4 Fire hydrants play an important role in the City's water system. They deliver large quantities of water for fighting fires and help keep the City's drinking water safe by providing a way for water to be safely flushed out of the water system.
- 5 Water service connections link City of Richmond watermains to houses and businesses.
- 6 Sometimes service connections can get damaged or break for different reasons. Water Services crews are always ready to repair water connections to prevent service disruptions to residents.
- 7 The City of Richmond's Leak Detection Program uses specialized equipment to find underground leaks in the water system.
- 8 Water Sampling Stations help Water Services staff monitor the quality of the City's drinking water. Stations are located in strategic locations throughout the City.
- 9 All pressurized systems can develop breaks due to the strain on the pipes. Water Services staff minimize breaks by replacing ageing infrastructure and implementing a Pressure Management Program.
- 10 The City of Richmond has a watermain replacement and installation program to upgrade aging underground water infrastructure and improve the watermain network throughout the City.
- 11 Drinking water fountains help bring fresh drinking water to City of Richmond residents and are a sustainable way of keeping hydrated while on the go. Water Services staff maintain and service fountains along Richmond's dikes and in parks.
- 12 Water metering is important since it measures how much water each property has used. This makes sure that residents only pay for what they use and it also keeps residents informed of their water usage and promotes water conservation.

2.3 Mobile Emergency Response Unit

Water Services staff are trained to operate the City's mobile emergency water treatment trailer for use during a major emergency where the City's water is contaminated or unavailable. The emergency mobile unit is flexible and can be used to respond to both large-scale emergencies and smaller, neighbourhood-contained incidents.

All components of the emergency mobile unit that come in contact with the treated water are compliant with the Guidelines for Canadian Drinking Water Quality. The water is pumped into the system and through cartridges to reduce turbidity and through activated carbon to improve taste and odour. Next, it goes through UV units to disinfect the water. Lastly, sodium hypochlorite is added to provide a second source of disinfection and to act as free chlorine, which provides residual disinfection in the water.

The trailer was designed with the consideration of factors such as extreme weather events, sudden loss of clean water from Metro Vancouver and seismic events. It is regularly maintained and tested by Water Services staff to ensure that the City is ready to deliver clean, safe water for Richmond residents during an emergency.

The City has a mobile emergency response unit to provide a supply of safe, drinkable water in the event of a disruption to regular service.

*The treatment trailer is capable of filtering approximately **60 litres of water per minute** and can draw water straight from the Fraser River.*





This mobile trailer ensures safe drinking water can be supplied wherever needed.

PWT - 55

3.0

Ensuring Our Water Quality and Safety



3.1 Water Quality Standards

In 2002, the City of Richmond implemented a Drinking Water Quality Monitoring Program to comply with provincial and federal legislation: the British Columbia Drinking Water Protection Act, the British Columbia Drinking Water Protection Regulations, the Water Quality Monitoring and Reporting Plan for Metro Vancouver, and the Guidelines for Canadian Drinking Water Quality.

Under these regulations, the City of Richmond is required to:

Develop a process to notify the Vancouver Coastal Health (VCH) Drinking Water Officer and the VCH Medical Health Officer of any condition that could render unsafe drinking water.

Implement a sampling program that adequately represents all areas within the City.

Ensure test results are immediately available to the VCH Medical Health Officer.

Obtain a construction permit from Vancouver Coastal Health prior to the construction, installation, or extension of the water supply system.

Produce an annual report detailing the results of the City's water quality monitoring program for review by VCH.

The conditions set out in the Drinking Water Protection Act require all water systems in BC to be classified through the Environmental Operators Certification Program (EOCP). Richmond's water system is classified as a Level III facility and responsible staff that work on the system must possess appropriate EOCP Water Distribution Level 1, Level 2, or Level 3 certificate.

To obtain and maintain their level of certification, staff have to successfully complete the required training and hands-on experience. This ensures staff are able to respond appropriately and immediately to problems prior to them becoming a risk to health or property.



Many different aspects go into ensuring the quality of our drinking water.

Crews conduct programs and preventative maintenance, water quality monitoring and testing.

Plus, they take quick action when a watermain breaks or if water contamination occurs.

As part of regular water flushing to clean pipes and ensure quality, water is tested for contaminants and monitored for taste, odour, temperature and appearance.

3.2 Ensuring Water Quality

FLUSHING PROGRAM

Water Services conducts a unidirectional flushing program every year. Unidirectional flushing involves forcing water in a single direction through a specific route through the pipes by closing or opening valves in a strategic way. Forcing the water in a single direction increases the velocity of the water flow and ensures that the inside of the pipes is being scoured and cleaned while the water is safely flushed out of the watermain network. The water is then drained through hydrants at the end of the flushing sequence to remove the debris from the system. Cleaning the inside of the pipes is important because it prevents bacterial growth and removes sediment. Staff take measures to control the flow of water during flushing. When practical, the water that is flushed is captured to be reused for irrigation. The City also conducts regular weekly, monthly and annual flushing at lower velocities to eliminate stagnant water in dead-end watermains and other low-demand areas.

REDUCE WATERMAIN LEAKS AND BREAKS

The City has various programs that reduce leaks and breaks in the system, which help keep our drinking water safe and clean. Whenever there is a watermain break, the system can experience a loss of pressure, which can result in negative pressure. This means that the pressure on the inside of the main is lower than the pressure from the soil on the outside of the main. When a watermain along the system has cracks or gaps between joints, there is a possibility that groundwater can be siphoned back into the system during times of negative pressure. Two programs that promote water conservation also help keep

our drinking water safe by preventing this ingress of groundwater. The Leak Detection and Pressure Management programs help reduce watermain breaks and minimize weak spots in the distribution system where groundwater can get into the pipes. You can learn more about these programs in *Section 6* of this report.

QUICK RESPONSE TO WATERMAIN LEAKS AND BREAKS

Not only is reducing watermain breaks in the system important, but responding quickly when leaks and breaks happen is just as crucial. Quick response by staff reduces water loss and eliminates the chance or the amount of time that groundwater can enter the system, which in turn prevents contaminants from getting into the watermains. Water Services staff are always on call and trained to respond to all levels of watermain breaks.

BACKFLOW PREVENTER PROGRAM

A Backflow Preventer Program supports safe, temporary use of hydrants by farm, construction and film industries, and others who sometimes require access to bulk volumes of water or where other connections to the water distribution system are not feasible or viable.

Water Services staff install a backflow preventer at every hydrant that has an active hydrant-use permit. The backflow preventer acts as a one-way valve and helps keep outside water from getting into the City's water system, which keeps possible contaminants out.

3.3 Monitoring Water Quality

The City of Richmond collects water samples on a weekly basis at 40 dedicated sampling sites. These sites are strategically located throughout the City to provide a suitable representation of the City's water quality across the whole network.

Water samples collected by City staff are taken to Metro Vancouver laboratories for analysis. Sample results are reviewed by City staff and Vancouver Coastal Health, the Health Authority in Richmond, to ensure the drinking water meets the standards and parameters outlined in the British Columbia Drinking Water Protection Regulations.

Richmond is recognized as providing high-quality drinking water. In addition to testing for contaminants, water is also monitored for taste, odour, temperature and appearance. This additional commitment to quality assurance supports the objective of making Richmond's tap water the "water of choice" throughout our community. The 2025 water quality

testing results are included in **Appendix A** of this report. Test results for specific parameters can be found in **Appendices B, C, D** and **E**. Test samples are analyzed to ensure the water quality is within defined standards, including bacterial, physical and chemical parameters. A complete description of the testing parameters can be found in **Appendix F**.

The sampling stations are split up into three groups, and each group is sampled on a different day of the week. Additional information on sampling sites can be found in **Appendix G**.



Regular water sample testing helps to ensure Richmond's safe water supply.



Results that are outside of these parameters are considered 'Failed Samples'. It is important for City staff to deal with failed sample results immediately. The City's standard response to a failed water sample is:

Re-sample from the same station.

Flush the watermain extensively.

Re-sample again from the same station.

Isolate the watermain to one feed until test results confirm compliance with the British Columbia Drinking Water Protection Regulations.

Under the Drinking Water Protection Act, the Metro Vancouver laboratory must immediately inform the City of Richmond, the Drinking Water Officer and the Medical Health Officer if a water supply system result fails to meet established guidelines. Water Services staff then take immediate action and precautions, and issue required notifications.

Water safety situations such as chemical or biological contamination, excessive turbidity, disinfection failure, loss of pressure due to high demand, or a watermain break where there is suspected contamination, would be considered an emergency.

See *Appendix H* for more details about the actions taken by Water Services staff in these situations.



**WATER QUALITY ADVISORIES
ARE ISSUED TO THE GENERAL
PUBLIC WHEN NECESSARY.**

4.0

Constructing and Maintaining a Reliable Water System



New watermain being installed along No. 7 Road.

4.1 Comprehensive Water Network

The extensive network of watermains and other infrastructure has been carefully planned to provide redundancy. This ensures system and service stability, and minimizes service disruptions.

The system's network of pressure reducing valves and gate valves provides a broad variety of options to control water flow on an area-specific basis. In addition, most watermains are looped so water can be fed to properties from both ends of their fronting mains. Therefore, system valves can be used to isolate portions of the system that require repairs, maintenance or replacement, limiting the number of customers that are impacted by service disruptions while necessary work is completed.

The City's municipal water distribution service includes more than:

600 KM OF
watermains

ANNUALLY DELIVERING

MORE THAN

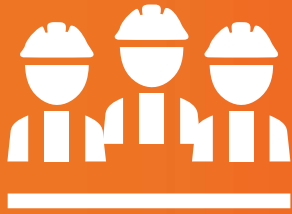
30 million
CUBIC METRES

OF **water**

TO OUR

CUSTOMERS





CITY CREWS ADD VALUE

Water Services crews work year-round to replace aging watermain and infrastructure across the City as well as to install new watermain, service connections and water meters. In 2025, we completed the installation of just over 4.5 kilometres of new PVC watermain in a number of areas across the city, including the Burkeville neighbourhood and segments of Seacote, Sidaway, and No. 7 Roads.



4.2 Capital Construction Programs

The dedicated watermain crew is responsible for completing the annual planned capital construction program. Annual construction programs include installation of new watermain, upgrades to existing water distribution infrastructure, provision of service connections to new construction and multi-family water meter installation.

Crews are tasked with meeting project scope, schedule and budget, while minimizing service and other disruptions to residents, businesses and others. The crews make extra effort to maintain positive relationships and communication with the immediate community within project areas.

Water Services crews have become the service provider of choice for many capital projects that might otherwise be contracted externally.

Crews are able to deliver projects at a competitive price, providing value to taxpayers.



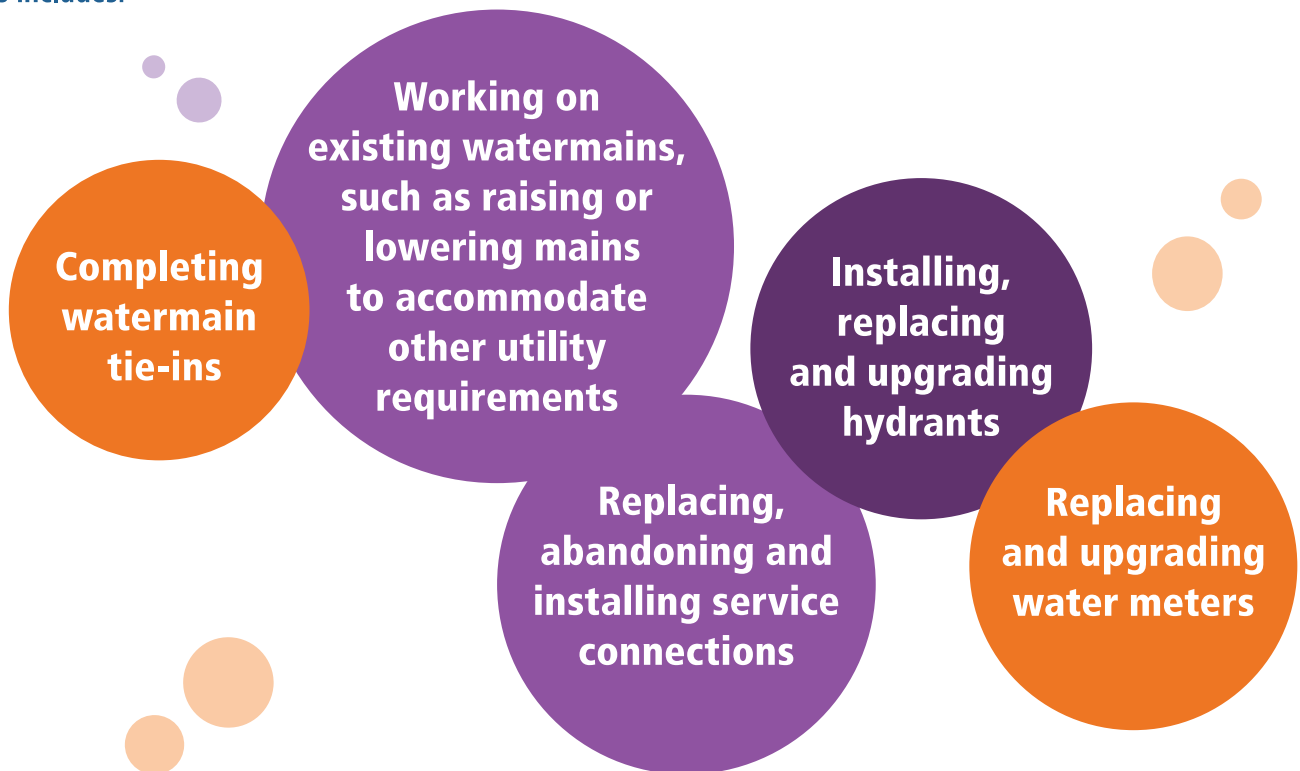


4.3 Maintenance and Repairs

Water Services also undertakes system repairs as required, including fixing watermain breaks and repairing damaged or broken water service connections. In addition, Water Services uses specialized equipment to identify, locate and repair underground leaks in our water system.

Water Services crews are also tasked with responding to maintenance and service requests from a wide variety of customers, including residents, businesses, developers, contractors and other utilities such as Fortis BC, BC Hydro and Metro Vancouver.

This includes:



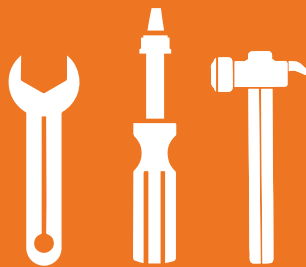


Ongoing maintenance ensures a safe, reliable water supply.

Additional ongoing preventative maintenance and repair programs help extend the life of the infrastructure and reduce service disruptions due to equipment or infrastructure breakdowns. This helps reduce ongoing operating and capital costs. Dedicated preventative maintenance programs are in place for all valves, hydrants and the system's pressure reducing valves.

Preventative maintenance can identify the need for demand maintenance, a more in-depth maintenance process that is only done if required. This includes valve box raising, hydrant parts replacement, valve replacements and other work. Demand repairs can arise at any time and crews are available to respond to emergencies at all hours of the day.

The department's rapid response standards include a team of staff who work after-hours and overnight to quickly respond to issues arising with the water system and other City utilities and assets. This ensures major disruptions to water services, such as pipe breaks and leaks and other issues, are dealt with quickly and efficiently, minimizing impact on the system, its users and the community at large.



4.4 Fire Protection



Fire hydrants play an important role in our water system as they serve multiple needs. Hydrants deliver large quantities of water for fighting fires and help keep our drinking water safe by providing a way for water to be flushed out of our system.

Water Services conducts extensive annual maintenance on the City's 5,000-plus fire hydrants to ensure they are ready to provide large volumes of water during fire fighting efforts.

In addition to replacing hydrants as part of the City's Capital Construction Watermain Replacement Program, or demand replacements due to damage or malfunction, Water Services actively performs hydrant retrofits to replace slide gate hydrants with compression hydrants. Compression hydrants close when they are compromised, preventing major water loss and infrastructure damage. Since starting the retrofits, Water Services has replaced 80 hydrants throughout the City. Slide gate hydrants are being phased out and all new hydrants being installed in the City are compression-style.

Fire hydrants play an important role in our water system.





ANNUAL
MAINTENANCE ON
5,000+
fire hydrants

80
hydrant
retrofits
in three years

Fire hydrants are being upgraded to ensure a stable supply of water when needed.

5.0

Accessible Water in the Community



The City's mobile water fountains provide free drinking water at many community events.

PWT - 70



5.1 Water Where You Are

Universal access to safe drinking water is critical to public health and quality of life, whether you are at home, at work or out in the community.

The City ensures this access by providing free water at its network of permanent public water fountains and at mobile water fountains deployed at special events. This helps the public maintain healthy hydration levels at all times while also protecting the environment and promoting sustainability by reducing the need to use plastic water bottles.

Water misting stations, deployed during extreme heat events, also support public health.

A permanent water fountain upgrade program was launched in 2023.



Water fountain with a pet bowl located in Steveston Village.

5.2 Water Fountains

The water fountains found in Richmond parks and other public areas are maintained by Water Services. This ensures the public has ready access to free, safe drinking water throughout the community.

The water fountains are tested and inspected regularly to ensure they provide high-quality drinking water. The fountains are turned off in winter months to prevent freezing and costly damage, and are turned back on in the spring for the public to enjoy.

A permanent water fountain upgrade program was launched in 2023. The program involves

upgrading older fountains with new and longer-lasting fountains. The new fountains have improved designs that also incorporate a bottle water-fill station. Some of the fountains also include ground-level spouts to keep pets hydrated. Part of the upgrades might also include relocating the fountains to another location within the

same area to better serve the community.

The first fountain to be upgraded as part of this program is located at Barnard Park. A new fountain with a water bottle filler and pet drinking bowl at ground level was installed in a more convenient location for the public. Two additional fountain upgrades were completed in 2025.

5.3 Portable Water Fountains

City staff proudly maintain four portable drinking water units that are used at numerous community events. Two of the units have the ability to chill water when connected to a power source. The units provide the public with access to free, potable tap water at events and promote tap water usage as an alternative to bottled water consumption.

The portable water fountains are deployed at a variety of popular community events such as the Steveston Salmon Festival, Richmond Maritime Festival and dozens of other local events annually.

In addition to the larger, wheeled water fountains, the City also maintains a number of drinking water fountains that can be attached

to the tops of fire hydrants. These units provide an alternative potable water source at events or camps where other service options are not available or practical. The units can also be used at large events like the Salmon Festival to provide additional drinking water sources.

The water from the portable fountains is tested upon installation to ensure we provide good quality water for the public to enjoy.



Scan the QR code to discover locations of the City's water fountains.



5.4 Misting Stations

In response to recurring extreme hot weather, Water Services staff designed and built misting stations that can be placed at a water source, like a hydrant, and provide a way for people to cool down.

In coordination with Emergency Programs, misting stations are regularly deployed in parks and popular outdoor locations, such as Minoru Plaza and Garry Point Park, during extreme high temperature events to provide heat relief.

Misting stations are also deployed outside of extreme heat events throughout the City to provide the public with a fun way to keep cool while enjoying being out and about in the community.



Misting station in use in Steveston Village on Canada Day.



6.0 

Conserving Our Water Supply





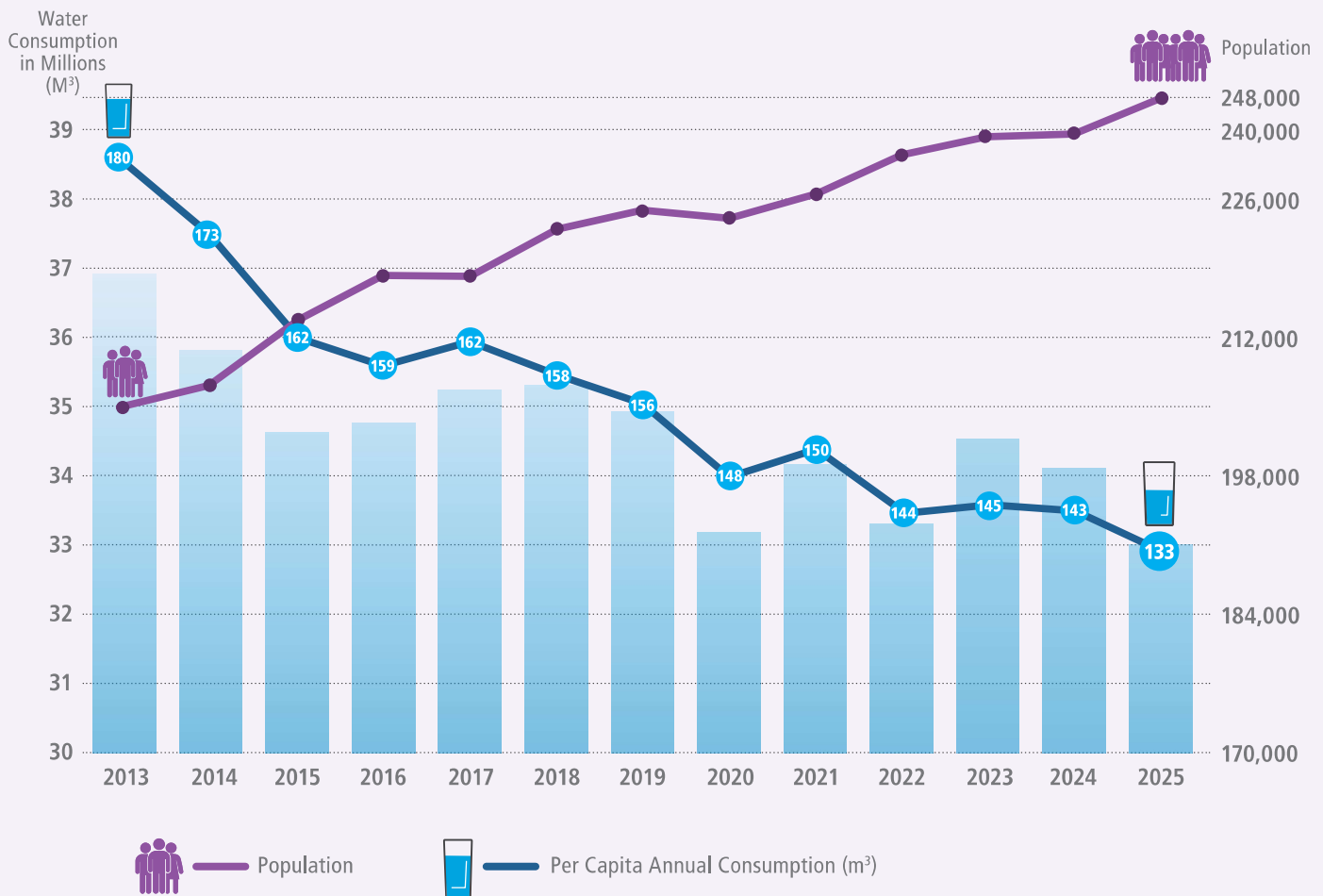
6.1 Reducing Water Consumption

Water conservation efforts are important to ensure that our regional system can keep up with the growing population to safeguard our water supply and to help maintain our beautiful environment.

The City of Richmond continues to succeed in reducing annual water consumption despite a growing population by implementing corporate and community-wide initiatives. These include water metering, lawn watering regulation, pressure management, leak-reduction and leak-detection programs, a toilet rebate program and a rain barrel sale program.



Water Consumption vs. Population | 2013 to 2025



The graph above shows how the City of Richmond has been conserving water despite an increase in population over the years. Water consumption has been steadily decreasing since its peak in 2006, except for small year-to-year increases in 2021 and 2023. The steady decrease in consumption parallels the City's steady and ongoing transition toward universal water metering for all users.

Despite this progress, the whole Metro Vancouver region, including Richmond, saw a spike in consumption due to extreme heat in the summers of 2021 and 2023, placing a strain on our regional water supply. This has reinforced the City's determination to continue to expand and place increased emphasis on our water conservation programs in order to further decrease our consumption and do our part in the region's push to conserve water.

6.2 Water Metering Programs

Water metering plays a significant role in the City's water management program as it promotes water conservation by encouraging users to reduce their water consumption.

The City implemented its single-family water metering program in 2003. Initially voluntary, water meters eventually became mandatory. All single-family homes in Richmond have been metered since the end of 2017. All industrial, commercial and institutional properties are also metered. Most users have experienced significant savings in costs over the previous flat-rate billing system. The program has contributed to significant overall reductions in water consumption in Richmond.

The City is now working to achieve water meter universality in multi-family residences. Currently, more than half of Richmond's multi-family residential complexes have water meters. All remaining unmetered properties are scheduled to be metered over the next 15 years.

Nearly all multi-family residences that have installed meters have experienced reductions in their water costs, with average savings of nearly 50%. Multi-family water meter installations are undertaken by experienced City crews and are completed with minimal service disruptions.



AVERAGE
SAVINGS
OF NEARLY
50%

Residents and businesses are ***billed based on actual amount of water they use,*** rather than a flat-rate system, providing a ***financial incentive to conserve water.***

6.3 Pressure Management Program

Using the pressure reducing valve stations, the City of Richmond reduces water pressure in the system by 10 pounds per square inch (PSI) from October to May, lowering the system pressure from 90 PSI to 80 PSI.

The purpose of this practice is to reduce the volume of leakage during a lower demand period, decrease the risk of watermain breaks and extend the life of our water infrastructure.

During summer months, the daytime pressure is set to 90 PSI to meet the increased water demand on the system.

A timer-based system is used to lower the pressure to 80 PSI daily from midnight to 4 a.m. as water demand decreases during that time over the summer.

This program has successfully decreased watermain leaks and breaks in the water system.



A look inside a pressure reducing valve station.



It is estimated that most municipalities in North America lose 12% to 15% of their potable water to undiscovered underground leakage.

6.4 Leak Reduction and Detection Programs

The City has made significant progress identifying and eliminating leaks through programs that target residential users and the City's own network.

The Leak Reduction Program identifies single-family properties with continuous flow using our metering system. City staff then inform the homeowner about the potential leak. The program can significantly reduce overall private property leakage since leaks can be detected by the metering system before they become visible or obvious.

The Leak Detection Program discovers non-visible underground leaks within the City's distribution system without the need to excavate. City crews use special equipment called noise loggers to measure sound frequencies along the targeted pipe. The frequencies are then recorded for staff review. A leak in the pipe creates different sound patterns than typical water flow in the watermain, allowing the crew to pinpoint leaks and provide swift action to excavate and repair the affected asset.

6.5 Toilet Rebate Program

This program encourages homeowners to replace older, high-volume toilets with low-flush toilets to conserve water and reduce costs.



Toilets account for almost one quarter of the water used in the average home. Switching to a low-flush toilet could save more than 70 litres of water per person per day, and, when combined with a water meter, will result in cost savings.

In addition to reducing water use and costs, installing low-flush toilets ensures homes reflect current best practices and market preferences.

Single and multi-family homeowners are eligible to apply for a lifetime maximum of two rebates per property. Industrial, commercial and other non-residential properties are not eligible at this time.

The City of Richmond's Toilet Rebate Program provides a utility account rebate of \$100 to homeowners when they install a low-flush toilet.



6.6 Rain Barrel Sale Program

Rain barrels are excellent outdoor water-saving devices that collect and store rainwater from rooftops for lawn and garden use.

Rain barrels are available for purchase at the City's Recycling Depot by Richmond residents only. The barrels can hold up to 208 litres and are made from safe and durable recycled materials. The barrels include a mosquito mesh to keep out bugs and leaves. Installation instructions are included with each rain barrel.

Rainwater is a great water source for lawns, plants and gardens, and for washing outside surfaces. Using rainwater will reduce the amount of tap water you use, therefore saving money on your utility bill.

HOLDS UP TO

208

LITRES



Collecting water using a rain barrel to water flowers and plants.

6.7 Lawn Watering Regulations

As the temperature increases, water consumption increases with it. During summer months, average water use can increase by as much as 50%, largely due to lawn watering. Overall, lawn watering typically represents nearly 40% of all water used in an average single-family home.

The higher water demand combined with the decrease in precipitation during the summer causes water levels in the Metro Vancouver reservoirs to drop more quickly. Water conservation, particularly in summer, is vital in order to maintain a minimum amount of water in the reservoirs in case of emergency. Conservation is particularly important in years when snowpack levels are low and seasonal rainfall is below normal.

To help manage the high demand for drinking water during the hot and dry summer months in 2025, Metro Vancouver initiated annual Stage 1 lawn watering regulations from May 1 to Oct. 15, 2025. Regional lawn watering and other water usage restrictions are applied on an annual basis to limit consumption and ensure adequate supply levels are maintained.

The staged water restrictions are applied and adjusted throughout the summer based on demand and available supply.

Lawn watering and other water usage is regulated through the Water Use Restriction Bylaw No. 7784. Failure to comply with lawn watering restrictions is an offence subject to fines.





6.8 Waterwise Demonstration Garden

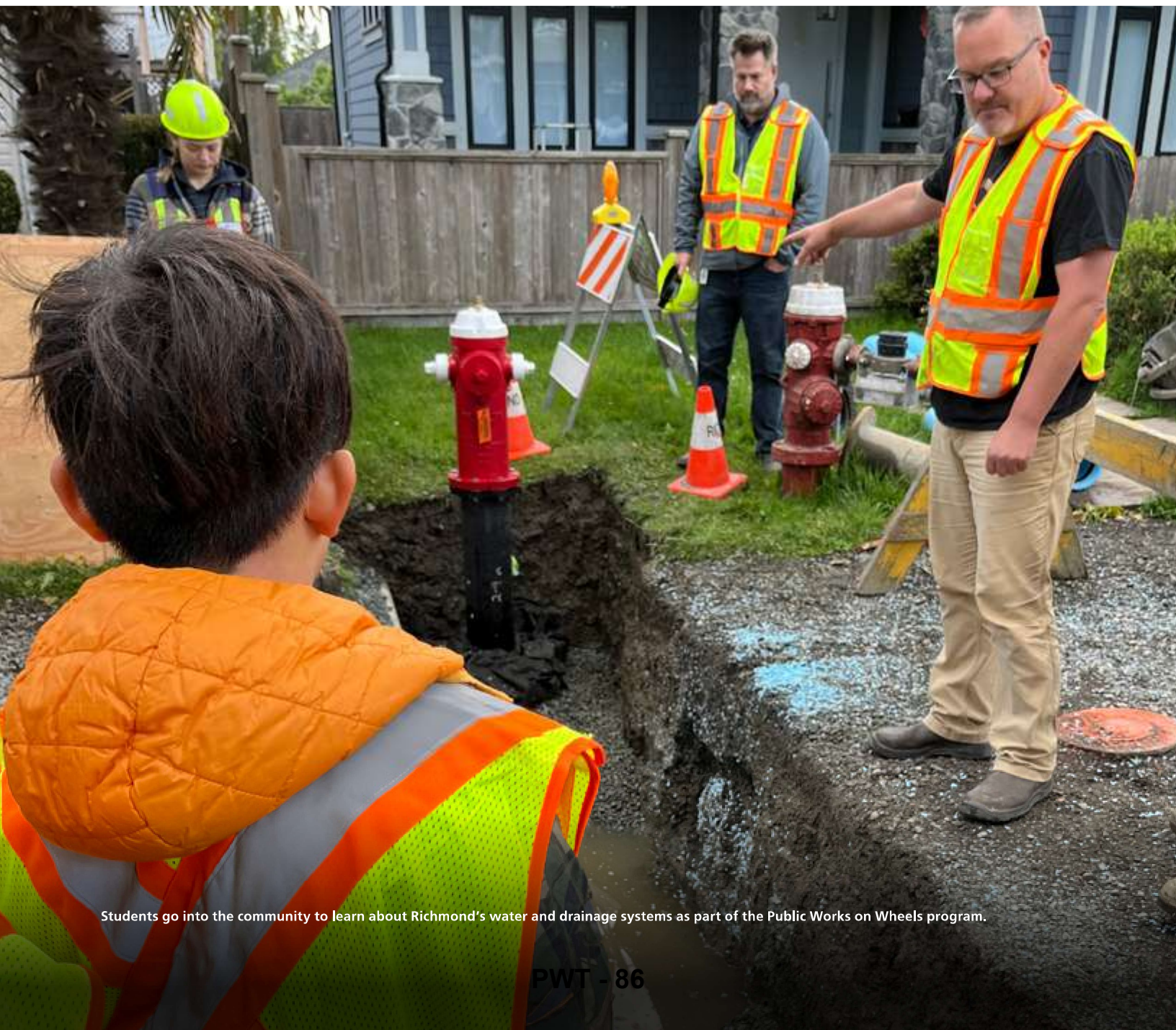
Lawn and garden watering are major consumers of water during the summer. Overwatering can place a strain on the regional water supply and can be detrimental to the health of many plants. In addition, with the advent of water metering for most Richmond homes, excessive lawn and garden watering can significantly increase utility bills.

The City of Richmond's Waterwise Demonstration Garden acts as a resource for local residents, providing tips on how they can reduce their water usage and still have beautiful, healthy gardens, lawns and landscapes. The garden shows a variety of plants that residents and businesses can use in their landscaping that are drought-tolerant and do not require a lot of water to grow and thrive in our unique climate. The garden also offers lawn maintenance tips, and provides information on micro-irrigation, with different ways and systems of watering plants like driplines, bubblers, micro-sprays and others.

The demonstration garden is located within Terra Nova Rural Park and can be visited year-round for those looking for useful information on reducing their water consumption.

7.0

Community Outreach



Students go into the community to learn about Richmond's water and drainage systems as part of the Public Works on Wheels program.



Water Services staff share information and host activities at Richmond's Public Works Open House.

7.1 Project WET

Project WET is an interactive elementary school program aimed at educating students on the importance of water.

In partnership with Richmond elementary school teachers, City of Richmond Public Works staff in 2025, invited 215 students, Grades 4 to 7 to the Works Yard to learn about water conservation, supply and quality. Students also learn about other Public Works areas like Sewerage and Drainage, Environmental Programs and Inspections.

There are several interactive displays, with staff guiding students through key learning objectives for each. Project WET field trips take place as a celebration of National Public Works Week. The available class spaces are in high demand and are always fully booked.



Kids learning about water distribution and the importance of fire hydrants at Project WET.

7.2 Community Engagement

Water Services strives to remain engaged with the community throughout the year,

both through its day-to-day activities and specific initiatives.

When the City undertakes a new project in the community, it makes every effort to ensure residents and businesses in the area are kept informed of what will be happening, the projected timeline, potential service impacts and more.





City staff take pride in their work and embrace opportunities to raise awareness about their contributions and the benefits to the community.

Before every project, the City sends letters to all area residents who will be affected by the construction work. In addition, the City regularly conducts direct outreach with individuals and groups in the project area. Staff often meet directly with local residents, schools and others to answer their questions and address concerns about the project. This has included inviting school classes to the project site to learn first-hand about the work being done.

A major highlight of the City's engagement activity is the Public Works Open House, and National Public Works Week.

Water Services staff annually work to develop new displays for the Open House with information and activities to help keep the public informed about the work being done to deliver high-quality water to their taps, promote water conservation and provide excellent value to taxpayers.

During the past year, Water Services set up an above-ground water system display that included water meters, valves and blow-offs to teach Open House attendees about the water system and water conservation. The Emergency Water Treatment trailer was also set up to educate people on the importance of water quality and emergency preparedness. Staff volunteered their time and effort on a non-working day to educate and interact with the public.

The Public Works Open House also features the City's portable water fountains and misters to help keep attendees hydrated and cool during the warm weather. City staff take pride in their work and embrace opportunities to raise awareness about their contributions and the benefits to the community.

8.0

Appendices



Appendices

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Appendix A | 2025 Water Quality Results

Water Sampling | Type: GRAB | Station Number: RMD-202 | Address: 1500 Valemont Way

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-03 09:25	<1	<1	2	0.73	0.17	7
2025-01-09 09:25	<1	<1	<2	0.70	0.24	6
2025-01-17 09:30	<1	<1	4	0.77	0.21	6
2025-01-23 09:25	<1	<1	<2	0.69	0.20	5
2025-01-31 09:30	<1	<1	2	0.76	0.25	4
2025-02-06 09:30	<1	<1	<2	0.82	0.17	4
2025-02-14 11:30	<1	<1	<2	0.73	0.19	4
2025-02-20 09:30	<1	<1	<2	0.86	0.15	4
2025-02-28 09:25	<1	<1	<2	0.74	0.38	4
2025-03-06 09:45	<1	<1	<2	0.81	0.20	5
2025-03-14 09:30	<1	<1	<2	0.73	0.18	6
2025-03-20 09:30	<1	<1	2	0.78	0.41	6
2025-03-28 09:30	<1	<1	<2	0.84	0.34	6
2025-04-03 09:30	<1	<1	<2	0.68	0.23	6
2025-04-11 09:30	<1	<1	<2	0.75	0.21	7
2025-04-16 09:30	<1	<1	<2	0.72	0.22	7
2025-04-25 09:30	<1	<1	<2	0.78	0.22	9
2025-05-01 09:30	<1	<1	<2	0.71	0.24	9
2025-05-09 09:45	<1	<1	<2	0.76	0.18	10
2025-05-15 09:30	<1	<1	<2	0.74	0.21	10
2025-05-23 09:45	<1	<1	<2	0.74	0.24	10
2025-05-29 09:30	<1	<1	<2	0.86	0.29	11
2025-06-06 09:25	<1	<1	<2	0.67	0.35	11
2025-06-12 10:00	<1	<1	<2	0.77	0.18	13
2025-06-20 09:30	<1	<1	2	0.71	0.14	12
2025-06-26 09:45	<1	<1	<2	0.83	0.21	13
2025-07-04 09:30	<1	<1	<2	0.69	0.13	12
2025-07-10 09:30	<1	<1	<2	0.73	0.10	13
2025-07-18 09:40	<1	<1	2	0.75	0.11	15
2025-07-24 09:30	<1	<1	<2	0.65	0.12	15
2025-08-01 09:30	<1	<1	4	0.65	0.10	16
2025-08-07 09:25	<1	<1	4	0.72	0.11	17
2025-08-15 09:45	<1	<1	4	0.78	0.09	17
2025-08-20 14:15	<1	<1	NA	0.63	0.14	16
2025-08-29 11:15	<1	<1	<2	0.62	0.10	17
2025-09-04 09:30	<1	<1	<2	0.62	0.15	17
2025-09-12 09:25	<1	<1	<2	0.68	0.10	17
2025-09-18 09:25	<1	<1	<2	0.58	0.13	17
2025-09-26 09:30	<1	<1	<2	0.54	0.10	17
2025-10-02 09:30	<1	<1	<2	0.59	0.22	16
2025-10-10 09:35	<1	<1	<2	0.72	0.12	14
2025-10-16 09:30	<1	<1	<2	0.90	0.19	14
2025-10-24 09:25	<1	<1	<2	0.76	0.17	13
2025-10-30 09:30	<1	<1	<2	0.70	0.13	10
2025-11-07 09:30	<1	<1	4	0.79	0.17	10
2025-11-13 09:45	CG	CG	20	0.61	0.25	10
2025-11-21 09:30	<1	<1	32	0.67	0.16	10
2025-11-27 09:30	<1	<1	20	0.79	0.12	9
2025-12-05 09:35	21	<1	<2	0.70	0.14	8
2025-12-11 09:45	<1	<1	120	0.71	0.32	9
2025-12-19 09:45	<1	<1	2	0.79	0.14	8
2025-12-23 11:50	<1	<1	NA	0.62	0.20	8
2025-11-14 10:00	-	-	2	0.64	0.21	9

Water Sampling | Type: GRAB | Station Number: RMD-203 | Address: 23260 Westminster Highway

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-03 11:00	<1	<1	<2	0.57	0.57	8
2025-01-09 11:00	<1	<1	<2	0.58	0.31	8
2025-01-17 11:10	<1	<1	2	0.61	0.52	8
2025-01-23 11:00	<1	<1	<2	0.45	0.22	8
2025-01-31 11:10	<1	<1	2	0.55	0.19	8
2025-02-06 11:10	<1	<1	<2	0.66	0.27	8
2025-02-14 09:45	<1	<1	2	0.65	0.71	8
2025-02-20 11:00	<1	<1	<2	0.63	0.24	8
2025-02-28 11:00	<1	<1	<2	0.76	0.70	8
2025-03-06 11:30	<1	<1	<2	0.81	0.84	8
2025-03-14 11:10	<1	<1	2	0.69	0.13	8
2025-03-20 11:10	<1	<1	<2	0.97	0.39	8
2025-03-28 11:10	<1	<1	<2	1.24	0.59	8
2025-04-03 11:10	<1	<1	<2	0.90	0.44	8
2025-04-11 11:10	<1	<1	<2	1.08	0.34	8
2025-04-16 11:10	<1	<1	<2	0.77	0.39	8
2025-04-25 11:10	<1	<1	2	0.84	0.33	8
2025-05-01 11:10	<1	<1	<2	0.88	0.28	8
2025-05-09 11:15	<1	<1	<2	0.86	0.28	8
2025-05-15 11:10	<1	<1	<2	0.90	0.39	8
2025-05-23 11:30	<1	<1	<2	0.84	0.54	8
2025-05-29 11:10	<1	<1	<2	0.75	0.41	8
2025-06-06 11:00	<1	<1	2	0.70	0.48	8
2025-06-12 11:30	<1	<1	<2	0.93	0.27	8
2025-06-20 11:10	<1	<1	<2	0.82	0.22	8
2025-06-26 11:30	<1	<1	<2	0.99	0.24	8
2025-07-04 11:10	<1	<1	<2	0.94	0.29	8
2025-07-10 11:10	<1	<1	6	0.94	0.20	8
2025-07-18 11:30	<1	<1	<2	0.96	0.28	8
2025-07-24 11:10	<1	<1	4	0.81	0.27	8
2025-08-01 11:10	<1	<1	10	0.82	0.22	8
2025-08-07 11:00	<1	<1	150	0.87	0.14	8
2025-08-15 11:10	<1	<1	6	0.81	0.18	8
2025-08-20 15:45	<1	<1	NA	0.80	0.37	8
2025-08-29 12:30	<1	<1	<2	0.73	0.37	8
2025-09-04 11:10	<1	<1	4	0.80	0.22	8
2025-09-12 11:00	<1	<1	2	0.66	0.29	8
2025-09-18 11:00	<1	<1	<2	0.70	0.30	8
2025-09-26 11:10	<1	<1	4	0.66	0.28	8
2025-10-02 11:10	<1	<1	2	0.54	0.32	8
2025-10-10 11:30	<1	<1	<2	0.71	0.29	8
2025-10-16 11:10	<1	<1	<2	0.41	0.34	8
2025-10-24 11:00	<1	<1	8	0.38	0.38	8
2025-10-30 11:10	<1	<1	2	0.35	0.36	8
2025-11-07 11:10	<1	<1	<2	0.43	0.38	8
2025-11-13 11:30	<1	<1	<2	0.45	0.25	8
2025-11-21 11:10	<1	<1	8	0.40	0.27	8
2025-11-27 11:10	<1	<1	2	0.50	0.37	8
2025-12-05 11:20	<1	<1	<2	0.35	0.25	8
2025-12-11 11:30	1	<1	2	0.44	0.12	8
2025-12-19 11:00	<1	<1	<2	0.61	0.35	8
2025-12-23 12:45	<1	<1	NA	0.48	0.30	8

Water Sampling | Type: **GRAB** | Station Number: **RMD-204** | Address: **3180 Granville Avenue**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-03 07:30	<1	<1	<2	0.7	0.11	8
2025-01-09 07:30	<1	<1	<2	0.78	0.12	7
2025-01-17 07:30	<1	<1	<2	0.85	0.16	7
2025-01-23 07:30	<1	<1	<2	0.72	0.12	6
2025-01-31 07:30	<1	<1	<2	0.97	0.13	5
2025-02-06 07:30	<1	<1	<2	0.82	0.11	5
2025-02-14 08:00	<1	<1	<2	0.8	0.12	4
2025-02-20 07:30	<1	<1	<2	0.82	0.21	5
2025-02-28 07:30	<1	<1	2	0.77	0.11	5
2025-03-06 08:00	<1	<1	<2	0.74	0.12	6
2025-03-14 07:30	<1	<1	<2	0.81	0.16	6
2025-03-20 07:30	<1	<1	<2	0.81	0.12	7
2025-03-28 07:30	<1	<1	<2	0.73	0.12	7
2025-04-03 07:30	<1	<1	<2	0.86	0.11	8
2025-04-11 07:30	<1	<1	<2	0.77	0.12	8
2025-04-16 07:30	<1	<1	<2	0.73	0.14	9
2025-04-25 07:30	<1	<1	<2	0.74	0.13	9
2025-05-01 07:30	<1	<1	<2	0.8	0.14	10
2025-05-09 08:00	<1	<1	<2	0.75	0.14	11
2025-05-15 07:30	<1	<1	<2	0.85	0.13	14
2025-05-23 08:00	<1	<1	<2	0.72	0.18	12
2025-05-29 07:30	<1	<1	<2	0.72	0.16	13
2025-06-06 07:30	<1	<1	<2	0.87	0.16	13
2025-06-12 08:00	<1	<1	<2	0.73	0.13	13
2025-06-20 07:30	<1	<1	<2	0.74	0.13	15
2025-06-26 08:00	<1	<1	<2	0.73	0.09	13
2025-07-04 07:30	<1	<1	<2	0.7	0.11	14
2025-07-10 07:30	<1	<1	2	0.71	0.19	15
2025-07-18 07:45	<1	<1	<2	0.68	0.09	16
2025-07-24 07:30	<1	<1	2	0.69	0.08	16
2025-08-01 07:30	<1	<1	4	0.53	0.08	17
2025-08-07 07:30	<1	<1	2	0.69	0.09	17
2025-08-15 07:45	<1	<1	10	0.8	0.09	18
2025-08-20 12:30	<1	<1	NA	0.61	0.09	17
2025-08-29 09:00	<1	<1	2	0.62	0.09	17
2025-09-04 07:30	<1	<1	2	0.69	0.09	18
2025-09-12 07:30	<1	<1	8	0.59	0.09	18
2025-09-18 07:30	<1	<1	2	0.98	0.08	18
2025-09-26 07:30	<1	<1	2	0.89	0.09	18
2025-10-02 07:30	<1	<1	6	0.99	0.09	17
2025-10-10 07:45	<1	<1	4	0.82	0.18	15
2025-10-16 07:30	<1	<1	2	0.85	0.12	14
2025-10-24 07:30	<1	<1	8	0.93	0.12	14
2025-10-30 07:30	<1	<1	2	0.97	0.1	13
2025-11-07 07:30	<1	<1	<2	0.79	0.27	12
2025-11-13 08:00	<1	<1	<2	0.86	0.09	11
2025-11-21 07:03	<1	<1	6	0.76	0.1	10
2025-11-27 07:30	<1	<1	<2	0.79	0.11	10
2025-12-05 07:45	<1	<1	<2	0.78	0.11	9
2025-12-11 08:00	<1	<1	6	0.75	0.11	9
2025-12-19 08:00	<1	<1	<2	0.86	0.08	9
2025-12-23 10:10	<1	<1	NA	0.65	0.17	9

Water Sampling | Type: **GRAB** | Station Number: **RMD-205** | Address: **13851 Steveston Highway**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-03 09:00	<1	<1	<2	0.64	0.13	7
2025-01-09 09:00	<1	<1	<2	0.65	0.15	7
2025-01-17 09:15	<1	<1	<2	0.73	0.21	6
2025-01-23 09:00	<1	<1	<2	0.63	0.13	5
2025-01-31 09:15	<1	<1	<2	0.82	0.18	5
2025-02-06 09:15	<1	<1	<2	0.81	0.14	5
2025-02-14 09:30	<1	<1	<2	0.8	0.2	4
2025-02-20 09:15	<1	<1	18	0.83	0.14	4
2025-02-28 09:00	<1	<1	<2	0.69	0.38	5
2025-03-06 09:30	<1	<1	<2	0.74	0.59	5
2025-03-14 09:15	<1	<1	<2	0.74	0.14	6
2025-03-20 09:15	<1	<1	<2	0.74	0.13	6
2025-03-28 09:15	<1	<1	<2	0.73	0.14	6
2025-04-03 09:15	<1	<1	2	0.64	0.14	7
2025-04-11 09:15	<1	<1	<2	0.67	0.11	7
2025-04-16 09:15	<1	<1	<2	0.66	0.25	7
2025-04-25 09:15	<1	<1	6	0.66	0.16	9
2025-05-01 09:15	<1	<1	<2	0.67	0.15	9
2025-05-09 09:30	<1	<1	<2	0.76	0.11	10
2025-05-15 09:15	<1	<1	<2	0.72	0.17	10
2025-05-23 09:30	<1	<1	<2	0.71	0.24	10
2025-05-29 09:15	<1	<1	12	0.73	0.15	12
2025-06-06 09:00	<1	<1	4	0.73	0.16	11
2025-06-12 09:30	<1	<1	<2	0.75	0.17	13
2025-06-20 09:15	<1	<1	<2	0.53	0.12	12
2025-06-26 09:30	<1	<1	<2	0.73	0.2	12
2025-07-04 09:15	<1	<1	2	0.7	0.17	13
2025-07-10 09:15	<1	<1	2	0.72	0.11	13
2025-07-18 09:20	<1	<1	2	0.78	0.1	16
2025-07-24 09:15	<1	<1	<2	0.69	0.1	15
2025-08-01 09:15	<1	<1	2	0.66	0.09	16
2025-08-07 09:00	<1	<1	12	0.68	0.07	17
2025-08-15 09:00	<1	<1	2	0.71	0.08	16
2025-08-20 14:00	<1	<1	NA	0.71	0.11	16
2025-08-29 10:45	<1	<1	<2	0.64	0.12	16
2025-09-04 09:15	<1	<1	2	0.75	0.13	17
2025-09-12 09:00	<1	<1	2	0.72	0.11	17
2025-09-18 09:00	<1	<1	<2	0.68	0.13	18
2025-09-26 09:15	<1	<1	<2	0.55	0.09	17
2025-10-02 09:15	<1	<1	10	0.83	0.12	16
2025-10-10 09:15	<1	<1	2	0.65	0.09	14
2025-10-16 09:15	<1	<1	6	0.83	0.14	14
2025-10-24 09:00	<1	<1	<2	0.76	0.11	14
2025-10-30 09:15	<1	<1	2	0.69	0.09	11
2025-11-07 09:15	<1	<1	<2	0.76	0.09	10
2025-11-13 09:30	<1	<1	<2	0.7	0.1	10
2025-11-21 09:15	<1	<1	2	0.66	0.12	10
2025-11-27 09:15	<1	<1	<2	0.8	0.12	9
2025-12-05 09:15	<1	<1	<2	0.7	0.12	8
2025-12-11 09:30	<1	<1	2	0.72	0.1	8
2025-12-19 09:30	<1	<1	<2	0.59	0.08	8
2025-12-23 11:35	<1	<1	NA	0.7	0.15	7

Water Sampling | Type: **GRAB** | Station Number: **RMD-206** | Address: **4251 Moncton Street**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-23 07:45	<1	<1	<2	0.75	0.13	6
2025-01-31 07:50	<1	<1	<2	0.74	0.17	5
2025-02-06 07:50	<1	<1	<2	0.53	0.13	5
2025-02-14 08:15	<1	<1	<2	0.99	0.11	4
2025-02-20 07:50	<1	<1	<2	0.85	0.12	4
2025-02-28 07:45	<1	<1	<2	0.75	0.13	5
2025-03-06 08:15	<1	<1	<2	0.70	0.14	6
2025-03-14 07:50	<1	<1	<2	0.78	0.19	6
2025-03-20 07:50	<1	<1	<2	0.77	0.11	7
2025-03-28 07:50	<1	<1	<2	0.69	0.15	7
2025-04-03 07:50	<1	<1	<2	0.75	0.15	7
2025-04-11 07:50	<1	<1	<2	0.78	0.31	8
2025-04-16 07:50	<1	<1	NA	0.74	0.16	8
2025-04-25 07:50	<1	<1	2	0.77	0.13	9
2025-05-01 07:50	<1	<1	2	0.69	0.18	10
2025-05-09 08:15	<1	<1	<2	0.89	0.16	11
2025-05-15 07:50	<1	<1	<2	0.66	0.15	11
2025-05-23 08:15	<1	<1	<2	0.75	0.27	11
2025-05-29 07:50	<1	<1	<2	0.77	0.16	12
2025-06-06 07:45	<1	<1	2	0.80	0.16	12
2025-06-12 08:15	<1	<1	2	0.73	0.28	12
2025-06-20 07:50	<1	<1	<2	0.46	0.37	13
2025-06-26 08:15	<1	<1	<2	0.79	1.10	12
2025-07-04 07:50	<1	<1	2	0.76	0.22	13
2025-07-10 07:50	<1	<1	<2	0.75	0.22	14
2025-07-18 08:00	<1	<1	2	0.69	1.90	15
2025-07-24 07:50	<1	<1	<2	0.90	3.60	15
2025-08-01 07:50	<1	<1	4	0.71	0.59	16
2025-08-07 07:45	<1	<1	12	0.70	0.27	16
2025-08-15 08:00	<1	<1	<2	0.69	0.15	17
2025-08-20 12:45	<1	<1	NA	0.67	0.09	16
2025-08-29 09:20	<1	<1	4	0.59	0.10	17
2025-09-04 07:50	<1	<1	<2	0.76	0.25	17
2025-09-12 07:45	<1	<1	2	0.69	0.27	17
2025-09-18 07:45	-	-	<2	0.97	1.70	18
2025-09-26 07:50	<1	<1	<2	0.92	0.09	18
2025-10-02 07:50	<1	<1	2	0.53	0.08	17
2025-10-10 08:00	<1	<1	<2	0.62	0.13	16
2025-10-16 07:50	<1	<1	2	0.79	0.12	15
2025-10-24 07:45	<1	<1	2	0.71	0.17	14
2025-10-30 07:50	<1	<1	2	0.58	0.11	13
2025-11-07 07:50	<1	<1	<2	0.70	0.20	12
2025-11-13 08:15	<1	<1	<2	0.90	0.09	11
2025-11-21 07:50	<1	<1	<2	0.64	0.13	11
2025-11-27 07:50	<1	<1	2	0.77	0.13	10
2025-12-05 08:00	<1	<1	<2	0.68	0.14	9
2025-12-11 08:15	<1	<1	<2	0.70	0.22	9
2025-12-19 08:15	<1	<1	2	0.63	0.09	9
2025-12-23 10:25	<1	<1	NA	0.68	0.14	9
2025-01-03 08:45	<1	<1	<2	0.83	0.11	7
2025-01-09 08:45	<1	<1	<2	0.78	0.11	7
2025-01-17 08:55	<1	<1	2	0.76	0.13	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-208** | Address: **13200 No. 4 Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-23 08:45	<1	<1	<2	0.81	0.11	5
2025-01-31 08:55	<1	<1	<2	0.77	0.13	5
2025-02-06 08:55	<1	<1	<2	0.89	0.11	4
2025-02-14 09:15	<1	<1	<2	0.89	0.12	4
2025-02-20 09:00	<1	<1	<2	0.80	0.12	4
2025-02-28 08:45	<1	<1	<2	0.87	0.13	3
2025-03-06 09:15	<1	<1	<2	0.74	0.15	5
2025-03-14 08:55	<1	<1	<2	0.66	0.13	5
2025-03-20 08:55	<1	<1	<2	0.77	0.12	6
2025-03-28 08:55	<1	<1	<2	0.75	0.15	6
2025-04-03 08:55	<1	<1	<2	0.78	0.14	7
2025-04-11 08:55	<1	<1	<2	0.74	0.12	7
2025-04-16 08:55	<1	<1	<2	0.75	0.15	8
2025-04-25 08:55	<1	<1	<2	0.61	0.12	9
2025-05-01 08:55	<1	<1	<2	0.75	0.18	9
2025-05-09 09:15	<1	<1	<2	0.74	0.15	10
2025-05-15 08:55	<1	<1	<2	0.76	0.12	11
2025-05-23 09:15	<1	<1	2	0.78	0.22	11
2025-05-29 08:55	<1	<1	<2	0.72	0.13	12
2025-06-06 08:45	<1	<1	<2	1.07	0.15	13
2025-06-12 09:15	<1	<1	<2	0.79	0.10	13
2025-06-20 08:55	<1	<1	<2	0.74	0.15	13
2025-06-26 09:15	<1	<1	8	0.88	0.10	13
2025-07-04 08:55	<1	<1	<2	0.84	0.09	13
2025-07-10 08:55	<1	<1	<2	0.81	0.08	13
2025-07-18 09:00	<1	<1	52	0.79	0.11	15
2025-07-24 08:55	<1	<1	6	0.69	0.11	15
2025-08-01 08:55	<1	<1	<2	0.82	0.11	16
2025-08-07 08:45	<1	<1	30	0.77	0.10	16
2025-08-15 08:45	<1	<1	8	0.88	0.07	17
2025-08-20 13:45	<1	<1	NA	0.81	0.08	16
2025-08-29 10:30	<1	<1	4	0.69	0.08	17
2025-09-04 08:55	<1	<1	12	0.78	0.08	18
2025-09-12 08:45	<1	<1	<2	0.78	0.07	17
2025-09-18 08:45	<1	<1	2	0.30	0.20	18
2025-09-26 08:55	<1	<1	2	0.70	0.08	17
2025-10-02 08:55	<1	<1	<2	0.83	0.09	17
2025-10-10 09:00	<1	<1	<2	0.64	0.10	15
2025-10-16 08:55	<1	<1	<2	0.77	0.10	14
2025-10-24 08:45	<1	<1	<2	0.89	0.11	14
2025-10-30 08:55	<1	<1	<2	0.83	0.10	12
2025-11-07 08:55	<1	<1	<2	0.86	0.34	11
2025-11-13 09:15	<1	<1	<2	0.88	0.09	10
2025-11-21 08:55	<1	<1	<2	0.83	0.09	10
2025-11-27 08:55	<1	<1	<2	0.99	0.11	10
2025-12-05 09:00	<1	<1	<2	0.79	0.11	9
2025-12-11 09:15	<1	<1	<2	0.78	0.10	9
2025-12-19 09:15	<1	<1	<2	0.77	0.08	8
2025-12-23 11:20	<1	<1	NA	0.69	0.23	8
2025-01-03 08:30	<1	<1	<2	0.76	0.12	7
2025-01-09 08:30	<1	<1	<2	0.84	0.11	7
2025-01-17 08:40	<1	<1	4	0.80	0.16	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-212** | Address: **Across from 8600 Ryan Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-23 08:30	<1	<1	<2	0.84	0.12	6
2025-01-31 08:40	<1	<1	<2	0.77	0.13	5
2025-02-06 08:40	<1	<1	<2	0.80	0.14	5
2025-02-14 09:00	<1	<1	<2	0.87	0.13	4
2025-02-20 08:45	<1	<1	<2	0.86	0.11	5
2025-02-28 08:30	<1	<1	<2	0.84	0.12	5
2025-03-06 09:00	<1	<1	<2	0.75	0.12	6
2025-03-14 08:40	<1	<1	2	0.74	0.13	6
2025-03-20 08:40	<1	<1	2	0.75	0.13	7
2025-03-28 08:40	<1	<1	<2	0.75	0.13	7
2025-04-03 08:40	<1	<1	<2	0.74	0.12	8
2025-04-11 08:40	<1	<1	<2	0.83	0.14	8
2025-04-16 08:40	<1	<1	<2	0.75	0.15	8
2025-04-25 08:40	<1	<1	<2	0.81	0.15	9
2025-05-01 08:40	<1	<1	<2	0.75	0.14	10
2025-05-09 09:00	<1	<1	2	0.76	0.15	11
2025-05-15 08:40	<1	<1	<2	0.74	0.15	11
2025-05-23 09:00	<1	<1	<2	0.72	0.25	11
2025-05-29 08:40	<1	<1	<2	0.76	0.18	12
2025-06-06 08:30	<1	<1	4	0.76	0.20	13
2025-06-12 09:00	<1	<1	4	0.78	0.12	13
2025-06-20 08:40	<1	<1	2	0.76	0.13	14
2025-06-26 09:00	<1	<1	<2	0.77	0.09	14
2025-07-04 08:40	<1	<1	<2	0.82	0.74	14
2025-07-10 08:40	<1	<1	6	0.84	0.11	14
2025-07-18 08:45	<1	<1	<2	0.76	0.11	15
2025-07-24 08:40	<1	<1	<2	0.74	0.11	16
2025-08-01 08:40	<1	<1	4	0.71	0.09	16
2025-08-07 08:30	<1	<1	12	0.69	0.09	17
2025-08-15 08:30	<1	<1	<2	0.82	0.09	18
2025-08-20 13:30	<1	<1	NA	0.68	0.09	16
2025-08-29 10:10	<1	<1	10	0.67	0.09	18
2025-09-04 08:40	<1	<1	2	0.80	0.09	17
2025-09-12 08:30	<1	<1	2	0.72	0.09	17
2025-09-18 08:30	<1	<1	<2	0.63	0.09	18
2025-09-26 08:40	<1	<1	4	0.77	0.09	18
2025-10-02 08:40	<1	<1	2	0.62	0.11	17
2025-10-10 08:45	<1	<1	<2	0.77	0.10	15
2025-10-16 08:40	<1	<1	2	0.68	0.09	14
2025-10-24 08:30	<1	<1	4	0.83	0.12	14
2025-10-30 08:40	<1	<1	2	0.81	0.10	13
2025-11-07 08:40	<1	<1	<2	0.83	0.17	11
2025-11-13 09:00	<1	<1	2	0.80	0.09	11
2025-11-21 08:40	<1	<1	<2	0.78	0.09	10
2025-11-27 08:40	<1	<1	<2	0.82	0.09	10
2025-12-05 08:45	<1	<1	<2	0.71	0.09	9
2025-12-11 09:00	<1	<1	<2	0.74	0.10	9
2025-12-19 09:00	<1	<1	<2	0.57	0.10	9
2025-12-23 11:05	<1	<1	NA	0.74	0.21	8
2025-01-03 09:45	<1	<1	10	0.64	0.10	7
2025-01-09 09:45	<1	<1	<2	0.68	0.12	7
2025-01-17 09:50	<1	<1	2	0.62	0.21	6

Water Sampling | Type: GRAB | Station Number: RMD-214 | Address: 11720 Westminster Highway

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-23 09:45	<1	<1	<2	0.49	0.12	5
2025-01-31 09:50	<1	<1	<2	0.78	0.13	5
2025-02-06 09:50	<1	<1	<2	0.79	0.11	4
2025-02-14 10:00	<1	<1	<2	0.77	0.12	4
2025-02-20 09:45	<1	<1	<2	0.75	0.14	4
2025-02-28 09:45	<1	<1	<2	0.72	0.20	4
2025-03-06 10:00	<1	<1	<2	0.69	0.14	6
2025-03-14 09:50	<1	<1	<2	0.79	0.12	6
2025-03-20 09:50	<1	<1	<2	0.66	0.12	6
2025-03-28 09:50	<1	<1	<2	0.66	0.12	7
2025-04-03 09:50	<1	<1	<2	0.77	0.13	7
2025-04-11 09:50	<1	<1	<2	0.66	0.11	8
2025-04-16 09:50	<1	<1	<2	0.67	0.14	8
2025-04-25 09:50	<1	<1	<2	0.73	0.14	10
2025-05-01 09:50	<1	<1	6	0.62	0.14	10
2025-05-09 10:00	<1	<1	18	0.71	0.08	12
2025-05-15 09:50	<1	<1	<2	0.81	0.15	11
2025-05-23 10:00	<1	<1	6	0.72	0.17	11
2025-05-29 09:50	<1	<1	22	0.73	0.15	12
2025-06-06 09:45	<1	<1	88	0.60	0.16	13
2025-06-12 10:15	<1	<1	4	0.76	0.11	13
2025-06-20 09:50	<1	<1	2	0.73	0.15	13
2025-06-26 10:00	<1	<1	300	0.60	0.13	14
2025-07-04 09:50	<1	<1	NA	0.76	0.08	14
2025-07-10 09:50	<1	<1	410	0.65	0.20	15
2025-07-18 10:00	<1	<1	<2	0.75	0.11	15
2025-07-24 09:50	<1	<1	<2	0.76	0.12	15
2025-08-01 09:50	<1	<1	2	0.73	0.09	16
2025-08-07 09:45	<1	<1	1000	0.65	0.09	17
2025-08-15 09:30	<1	<1	730	0.68	0.08	17
2025-08-20 14:30	<1	<1	NA	0.63	0.08	17
2025-08-29 11:00	<1	<1	530	0.59	0.08	17
2025-09-04 09:50	<1	<1	220	0.61	0.08	17
2025-09-12 09:45	<1	<1	NA	0.66	0.08	18
2025-09-18 09:45	<1	<1	360	0.66	0.10	18
2025-09-26 09:50	<1	<1	150	0.51	0.08	18
2025-10-02 09:50	<1	<1	100	0.65	0.10	17
2025-10-10 09:55	<1	<1	<2	0.77	0.11	14
2025-10-16 09:50	<1	<1	4	0.95	0.35	14
2025-10-24 09:45	<1	<1	<2	0.84	0.16	14
2025-10-30 09:50	<1	<1	<2	0.86	0.10	11
2025-11-07 09:50	<1	<1	<2	0.90	0.15	10
2025-11-13 10:00	<1	<1	<2	0.91	0.09	10
2025-11-21 09:50	<1	<1	<2	0.72	0.11	10
2025-11-27 09:50	<1	<1	4	0.85	0.10	9
2025-12-05 09:50	<1	<1	<2	0.90	0.10	8
2025-12-11 10:00	<1	<1	8	0.85	0.12	9
2025-12-19 10:00	<1	<1	2	0.73	0.08	8
2025-12-23 12:05	<1	<1	NA	0.78	0.16	7
2025-01-03 08:00	<1	<1	2	0.96	0.12	8
2025-01-09 08:00	<1	<1	58	0.88	0.10	7
2025-01-17 08:05	<1	<1	<2	0.66	0.19	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-216** | Address: **11080 No. 2 Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-23 08:00	<1	<1	<2	0.82	0.12	6
2025-01-31 08:05	<1	<1	<2	0.80	0.18	5
2025-02-06 08:05	<1	<1	<2	0.77	0.12	5
2025-02-14 08:30	<1	<1	<2	0.84	0.13	4
2025-02-20 08:05	<1	<1	<2	0.80	0.14	5
2025-02-28 08:00	<1	<1	<2	0.73	0.12	6
2025-03-06 08:30	<1	<1	4	0.68	0.12	7
2025-03-14 08:05	<1	<1	<2	0.66	0.15	7
2025-03-20 08:05	<1	<1	<2	0.73	0.10	8
2025-03-28 08:05	<1	<1	<2	0.72	0.11	9
2025-04-03 08:05	<1	<1	<2	0.81	0.14	9
2025-04-11 08:05	<1	<1	<2	0.74	0.12	10
2025-04-16 08:05	<1	<1	<2	0.81	0.16	10
2025-04-25 08:05	<1	<1	<2	0.72	0.15	10
2025-05-01 08:05	<1	<1	8	0.81	0.20	13
2025-05-09 08:30	<1	<1	6	0.66	0.18	12
2025-05-15 08:05	<1	<1	<2	0.76	0.14	13
2025-05-23 08:30	<1	<1	6	0.70	0.22	12
2025-05-29 08:05	<1	<1	10	0.75	0.16	14
2025-06-06 08:00	<1	<1	2	0.69	0.12	13
2025-06-12 08:30	<1	<1	<2	0.73	0.10	13
2025-06-20 08:05	<1	<1	6	0.71	0.12	14
2025-06-26 08:30	<1	<1	<2	0.87	0.10	14
2025-07-04 08:05	<1	<1	2	0.79	0.13	15
2025-07-10 08:05	<1	<1	6	0.72	0.11	17
2025-07-18 08:15	<1	<1	<2	0.88	0.09	15
2025-07-24 08:05	<1	<1	4	0.74	0.11	15
2025-08-01 08:05	<1	<1	12	0.59	0.08	17
2025-08-07 08:00	<1	<1	22	0.70	0.10	19
2025-08-15 08:10	<1	<1	16	0.78	0.10	18
2025-08-20 13:00	<1	<1	NA	0.71	0.08	18
2025-08-29 09:35	<1	<1	4	0.66	0.08	17
2025-09-04 08:05	<1	<1	2	0.63	0.10	17
2025-09-12 08:00	<1	<1	6	0.62	0.09	18
2025-09-18 08:00	<1	<1	16	0.86	0.09	20
2025-09-26 08:05	<1	<1	22	0.80	0.10	19
2025-10-02 08:05	<1	<1	14	0.52	0.09	17
2025-10-10 08:15	<1	<1	<2	0.64	0.16	15
2025-10-16 08:05	<1	<1	<2	0.87	0.15	14
2025-10-24 08:00	<1	<1	4	0.83	0.16	14
2025-10-30 08:05	<1	<1	4	0.86	0.12	12
2025-11-07 08:05	<1	<1	<2	0.80	0.19	11
2025-11-13 08:30	<1	<1	<2	0.94	0.18	10
2025-11-21 08:05	<1	<1	<2	0.67	0.21	10
2025-11-27 08:05	<1	<1	<2	0.82	0.22	9
2025-12-05 08:15	<1	<1	<2	0.84	0.15	9
2025-12-11 08:30	<1	<1	2	0.80	0.13	9
2025-12-19 08:30	<1	<1	<2	0.65	0.09	9
2025-12-23 10:40	<1	<1	NA	0.82	0.12	8
2025-01-03 10:15	<1	<1	<2	0.28	0.32	8
2025-01-09 10:15	<1	<1	<2	0.45	0.27	7
2025-01-17 10:25	<1	<1	<2	0.42	0.21	7

Water Sampling | Type: **GRAB** | Station Number: **RMD-249** | Address: **23000 block Dyke Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-23 10:15	<1	<1	<2	0.35	0.21	6
2025-01-31 10:25	<1	<1	<2	0.34	0.14	6
2025-02-06 10:25	<1	<1	<2	0.31	0.22	6
2025-02-14 10:30	-	-	2	0.64	6.30	5
2025-02-20 10:15	<1	<1	2	0.65	0.15	5
2025-02-28 10:15	<1	<1	<2	0.70	0.20	5
2025-03-06 10:30	<1	<1	<2	0.76	0.18	6
2025-03-14 10:25	<1	<1	<2	0.67	0.12	7
2025-03-20 10:25	<1	<1	<2	0.92	0.61	6
2025-03-28 10:25	<1	<1	<2	0.91	0.40	8
2025-04-03 10:25	<1	<1	2	0.78	0.31	7
2025-04-11 10:25	<1	<1	<2	0.79	0.23	8
2025-04-16 10:25	<1	<1	30	0.70	0.20	9
2025-04-25 10:25	<1	<1	2	0.63	0.19	10
2025-05-01 10:25	<1	<1	<2	0.72	0.23	9
2025-05-09 10:30	<1	<1	6	0.74	0.22	11
2025-05-15 10:25	<1	<1	<2	0.78	0.27	10
2025-05-23 10:30	<1	<1	<2	0.54	0.24	11
2025-05-29 10:25	<1	<1	8	0.72	0.32	10
2025-06-06 10:15	<1	<1	2	0.60	0.29	12
2025-06-12 10:45	<1	<1	<2	0.80	0.24	11
2025-06-20 10:25	<1	<1	26	0.55	0.20	15
2025-06-26 10:30	<1	<1	<2	0.86	0.17	15
2025-07-04 10:25	<1	<1	<2	0.64	0.15	15
2025-07-10 10:25	<1	<1	18	0.58	0.14	15
2025-07-18 10:40	<1	<1	30	0.64	0.18	16
2025-07-24 10:25	<1	<1	22	0.65	0.26	14
2025-08-01 10:25	<1	<1	54	0.69	0.17	16
2025-08-07 10:15	<1	<1	92	0.60	0.13	17
2025-08-15 10:25	<1	<1	4	0.54	0.15	17
2025-08-20 15:00	<1	<1	NA	0.41	0.28	18
2025-08-29 11:45	<1	<1	<2	0.32	0.19	18
2025-09-04 10:25	<1	<1	<2	0.40	0.25	18
2025-09-12 10:15	<1	<1	14	0.35	0.24	18
2025-09-18 10:15	<1	<1	10	0.46	0.22	16
2025-09-26 10:25	<1	<1	22	0.42	0.18	18
2025-10-02 10:25	<1	<1	2	0.49	0.29	16
2025-10-10 13:00	<1	<1	<2	0.34	0.34	15
2025-10-16 10:25	<1	<1	24	0.30	0.54	14
2025-10-24 10:15	<1	<1	4	0.31	0.36	15
2025-10-30 10:25	<1	<1	4	0.32	0.29	12
2025-11-07 10:25	<1	<1	2	0.33	0.20	13
2025-11-13 10:30	<1	<1	4	0.30	0.29	11
2025-11-21 10:25	<1	<1	<2	0.25	0.23	10
2025-11-27 10:25	<1	<1	<2	0.30	0.61	10
2025-12-05 10:30	<1	<1	<2	0.33	0.18	10
2025-12-11 10:30	<1	<1	<2	0.40	0.47	9
2025-12-19 10:25	<1	<1	2	0.31	0.24	9
2025-01-06 15:45	<1	<1	26	0.70	0.13	7
2025-01-13 15:45	<1	<1	16	0.74	0.13	7
2025-01-20 15:45	<1	<1	2	0.73	0.16	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-250** | Address: **6071 Azure Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 15:45	<1	<1	<2	0.70	0.12	5
2025-02-03 15:45	<1	<1	<2	0.75	0.10	5
2025-02-10 15:45	<1	<1	<2	0.81	0.58	4
2025-02-18 15:45	<1	<1	<2	0.79	0.15	4
2025-02-24 15:45	<1	<1	2	0.75	0.14	5
2025-03-03 15:45	<1	<1	<2	0.74	0.11	6
2025-03-10 15:45	<1	<1	2	0.87	0.19	7
2025-03-17 15:45	<1	<1	<2	0.77	0.12	6
2025-03-24 15:45	<1	<1	<2	0.95	0.11	7
2025-03-31 15:45	<1	<1	<2	0.78	0.13	7
2025-04-07 15:45	<1	<1	<2	0.80	0.19	8
2025-04-14 15:45	<1	<1	6	0.66	0.14	8
2025-04-22 15:45	<1	<1	<2	0.58	0.22	10
2025-04-28 15:45	<1	<1	8	0.76	0.15	11
2025-05-05 15:45	<1	<1	2	0.69	0.16	11
2025-05-12 15:45	<1	<1	<2	0.71	0.15	12
2025-05-20 15:45	<1	<1	<2	0.72	0.21	12
2025-05-26 15:45	<1	<1	4	0.71	0.19	13
2025-06-02 15:45	<1	<1	<2	0.66	0.12	13
2025-06-09 15:45	<1	<1	<2	0.77	0.17	14
2025-06-16 15:45	<1	<1	<2	0.68	0.09	14
2025-06-23 15:45	<1	<1	4	0.70	0.09	14
2025-06-30 10:55	<1	<1	2	0.60	0.10	15
2025-07-07 15:45	<1	<1	<2	0.73	0.10	15
2025-07-14 15:45	<1	<1	<2	0.81	0.15	13
2025-07-21 15:45	<1	<1	<2	0.80	0.09	16
2025-07-28 15:45	<1	<1	6	0.67	0.11	17
2025-08-05 15:45	<1	<1	4	0.72	0.09	18
2025-08-11 15:45	<1	<1	14	0.76	0.08	17
2025-08-18 15:45	<1	<1	6	0.70	0.10	17
2025-08-25 15:45	<1	<1	10	0.72	0.08	17
2025-09-02 15:45	<1	<1	4	0.78	0.07	18
2025-09-08 15:45	<1	<1	14	0.73	0.14	18
2025-09-15 15:45	<1	<1	4	0.69	0.07	19
2025-09-22 15:45	<1	<1	12	0.56	0.08	18
2025-09-29 08:50	<1	<1	12	0.71	0.13	18
2025-10-06 15:45	<1	<1	2	0.57	0.17	16
2025-10-15 15:45	<1	<1	<2	0.85	0.12	15
2025-10-20 15:45	<1	<1	6	0.84	0.17	15
2025-10-27 15:45	<1	<1	4	0.81	0.08	13
2025-11-03 15:45	<1	<1	2	0.80	0.10	11
2025-11-10 09:15	<1	<1	2	0.86	0.13	11
2025-11-17 15:45	<1	<1	2	0.30	0.11	12
2025-11-24 15:45	<1	<1	<2	0.76	0.09	10
2025-12-01 15:45	<1	<1	4	0.75	0.14	10
2025-12-08 15:45	<1	<1	2	0.91	0.14	9
2025-12-15 15:45	<1	<1	<2	0.92	0.10	9
2025-12-22 15:30	<1	<1	NA	0.78	0.16	9
2025-12-29 15:30	<1	<1	NA	0.80	0.10	8
2025-01-06 12:30	<1	<1	4	0.72	0.12	6
2025-01-13 12:30	<1	<1	4	0.79	0.22	6
2025-01-20 12:30	<1	<1	2	0.72	0.16	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-251** | Address: **5951 McCallan Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 12:30	<1	<1	<2	0.78	0.11	5
2025-02-03 12:30	<1	<1	<2	0.54	0.11	4
2025-02-10 12:30	<1	<1	<2	0.77	0.16	4
2025-02-18 12:30	<1	<1	<2	0.79	0.10	4
2025-02-24 12:30	<1	<1	<2	0.72	0.16	4
2025-03-03 12:30	<1	<1	<2	0.69	0.11	5
2025-03-10 12:30	<1	<1	2	0.80	0.15	6
2025-03-17 12:30	<1	<1	2	0.74	0.11	6
2025-03-24 12:30	<1	<1	<2	0.91	0.12	6
2025-03-31 12:30	<1	<1	<2	0.77	0.13	6
2025-04-07 12:30	<1	<1	<2	0.84	0.18	7
2025-04-14 12:30	<1	<1	<2	0.81	0.10	8
2025-04-22 12:30	<1	<1	<2	0.72	0.15	8
2025-04-28 12:30	<1	<1	2	0.72	0.11	9
2025-05-05 12:30	<1	<1	<2	0.58	0.14	10
2025-05-12 12:30	<1	<1	4	0.75	0.13	11
2025-05-20 12:30	<1	<1	4	0.65	0.25	11
2025-05-26 12:30	<1	<1	2	0.76	0.33	11
2025-06-02 12:30	<1	<1	<2	0.76	0.15	11
2025-06-09 12:30	<1	<1	10	0.81	0.12	12
2025-06-16 12:30	<1	<1	2	0.75	0.11	13
2025-06-23 12:30	<1	<1	10	0.78	0.09	12
2025-06-30 07:30	<1	<1	2	0.56	0.09	13
2025-07-07 12:30	<1	<1	10	0.77	0.11	13
2025-07-14 12:30	<1	<1	4	0.80	0.10	14
2025-07-21 12:30	<1	<1	2	0.74	0.10	14
2025-07-28 12:30	<1	<1	10	0.75	0.08	16
2025-08-05 12:30	<1	<1	18	0.68	0.11	16
2025-08-11 12:30	<1	<1	22	0.78	0.09	16
2025-08-18 12:30	<1	<1	24	0.76	0.08	16
2025-08-25 12:30	<1	<1	26	0.72	0.09	16
2025-09-02 12:30	<1	<1	56	0.72	0.08	17
2025-09-08 12:30	<1	<1	22	0.73	0.08	17
2025-09-15 12:30	<1	<1	30	0.61	0.08	18
2025-09-22 12:30	<1	<1	20	0.67	0.09	18
2025-09-29 08:58	<1	<1	20	0.69	0.09	17
2025-10-06 12:30	<1	<1	10	0.69	0.16	15
2025-10-15 12:30	<1	<1	6	0.56	0.27	14
2025-10-20 12:30	<1	<1	<2	0.87	0.14	14
2025-10-27 12:30	<1	<1	10	0.86	0.10	12
2025-11-03 12:30	<1	<1	2	0.79	0.10	12
2025-11-10 09:30	<1	<1	2	0.81	0.17	10
2025-11-17 12:30	<1	<1	<2	0.80	0.15	11
2025-11-24 12:30	<1	<1	2	0.79	0.14	11
2025-12-01 12:30	<1	<1	<2	0.76	0.10	9
2025-12-08 12:30	<1	<1	2	0.90	0.26	8
2025-12-15 12:30	<1	<1	2	1.05	0.12	8
2025-12-22 12:30	<1	<1	NA	0.90	0.19	8
2025-12-29 12:30	<1	<1	NA	0.64	0.08	7
2025-01-06 13:00	<1	<1	6	0.69	0.12	8
2025-01-13 13:00	<1	<1	<2	0.74	0.11	8
2025-01-20 13:00	<1	<1	<2	0.66	0.16	7

Water Sampling | Type: **GRAB** | Station Number: **RMD-252** | Address: **9751 Pendleton Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 13:00	<1	<1	<2	0.73	0.11	7
2025-02-03 13:00	<1	<1	<2	0.71	0.11	6
2025-02-10 13:00	<1	<1	<2	0.79	0.14	5
2025-02-18 13:00	<1	<1	<2	0.75	0.11	5
2025-02-24 13:00	<1	<1	<2	0.73	0.19	6
2025-03-03 13:00	<1	<1	2	0.65	0.13	7
2025-03-10 13:00	<1	<1	2	0.79	0.14	7
2025-03-17 13:00	<1	<1	<2	0.73	0.11	7
2025-03-24 13:00	<1	<1	<2	0.79	0.12	8
2025-03-31 13:00	<1	<1	<2	0.73	0.14	8
2025-04-07 13:00	<1	<1	<2	0.78	0.12	8
2025-04-14 13:00	<1	<1	<2	0.68	0.10	9
2025-04-22 13:00	<1	<1	<2	0.68	0.16	10
2025-04-28 13:00	<1	<1	<2	0.67	0.11	9
2025-05-05 13:00	<1	<1	<2	0.62	0.15	12
2025-05-12 13:00	<1	<1	2	0.64	0.15	12
2025-05-20 13:00	<1	<1	<2	0.64	0.20	12
2025-05-26 13:00	<1	<1	<2	0.63	0.12	13
2025-06-02 13:00	<1	<1	<2	0.72	0.18	13
2025-06-09 13:00	<1	<1	2	0.70	0.13	14
2025-06-16 13:00	<1	<1	2	0.61	0.13	14
2025-06-23 13:00	<1	<1	<2	0.69	0.08	14
2025-06-30 08:05	<1	<1	2	0.58	0.11	15
2025-07-07 13:00	<1	<1	4	0.71	0.09	15
2025-07-14 13:00	<1	<1	2	0.64	0.08	16
2025-07-21 13:00	<1	<1	<2	0.62	0.08	17
2025-07-28 13:00	<1	<1	8	0.58	0.09	17
2025-08-05 11:00	<1	<1	8	0.55	0.16	18
2025-08-11 13:00	<1	<1	<2	0.64	0.07	17
2025-08-18 13:00	<1	<1	12	0.61	0.10	18
2025-08-25 13:00	<1	<1	2	0.60	0.08	18
2025-09-02 13:00	<1	<1	<2	0.64	0.07	18
2025-09-08 13:00	<1	<1	6	0.65	0.09	18
2025-09-15 13:00	<1	<1	2	0.54	0.07	18
2025-09-22 13:00	<1	<1	8	0.40	0.07	19
2025-09-29 09:15	<1	<1	2	0.56	0.08	18
2025-10-06 13:00	<1	<1	4	0.52	0.10	15
2025-10-15 13:00	<1	<1	4	0.64	0.28	15
2025-10-20 13:00	<1	<1	4	0.66	0.13	15
2025-10-27 13:00	<1	<1	2	0.32	0.09	14
2025-11-03 13:00	<1	<1	<2	0.82	0.13	13
2025-11-10 10:00	<1	<1	<2	0.69	0.09	13
2025-11-17 13:00	<1	<1	2	0.49	0.13	11
2025-11-24 13:00	<1	<1	8	0.71	0.18	11
2025-12-01 13:00	<1	<1	2	0.69	0.10	11
2025-12-08 13:00	<1	<1	<2	0.85	0.18	10
2025-12-15 13:00	<1	<1	4	0.92	0.12	10
2025-12-22 13:00	<1	<1	NA	0.76	0.18	10
2025-12-29 13:00	<1	<1	NA	0.63	0.10	9
2025-01-06 13:30	<1	<1	<2	0.73	0.12	7
2025-01-13 13:30	<1	<1	<2	0.83	0.16	8
2025-01-20 13:30	<1	<1	<2	0.82	0.30	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-253** | Address: **11051 No. 3 Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 13:30	<1	<1	<2	0.54	0.12	5
2025-02-03 13:30	<1	<1	<2	0.71	0.14	4
2025-02-10 13:30	<1	<1	<2	0.88	0.19	4
2025-02-18 13:30	<1	<1	2	0.88	0.11	4
2025-02-24 13:30	<1	<1	<2	0.79	0.14	4
2025-03-03 13:30	<1	<1	<2	0.71	0.12	5
2025-03-10 13:30	<1	<1	<2	0.94	0.19	6
2025-03-17 13:30	<1	<1	<2	0.83	0.15	6
2025-03-24 13:30	<1	<1	<2	1.14	0.15	6
2025-03-31 13:30	<1	<1	<2	0.77	0.14	6
2025-04-07 13:30	<1	<1	<2	0.93	0.20	7
2025-04-14 13:30	<1	<1	<2	0.82	0.12	7
2025-04-22 13:30	<1	<1	2	0.77	0.18	8
2025-04-28 13:30	<1	<1	<2	0.57	0.13	9
2025-05-05 13:30	<1	<1	<2	0.71	0.18	10
2025-05-12 13:30	<1	<1	2	0.81	0.15	10
2025-05-20 13:30	<1	<1	<2	0.72	0.15	11
2025-05-26 13:30	<1	<1	<2	0.78	0.13	11
2025-06-02 13:30	<1	<1	<2	0.68	0.13	12
2025-06-09 13:30	<1	<1	<2	0.83	0.15	11
2025-06-16 13:30	<1	<1	<2	0.69	0.10	13
2025-06-23 13:30	<1	<1	<2	0.72	0.10	13
2025-06-30 08:40	<1	<1	<2	0.70	0.12	13
2025-07-07 13:30	<1	<1	<2	0.83	0.20	13
2025-07-14 13:30	<1	<1	<2	0.82	0.13	13
2025-07-21 13:30	<1	<1	<2	0.58	0.12	14
2025-07-28 13:30	<1	<1	4	0.74	0.11	16
2025-08-05 13:30	<1	<1	2	0.77	0.10	16
2025-08-11 13:30	<1	<1	2	0.78	0.08	16
2025-08-18 13:30	<1	<1	<2	0.78	0.11	16
2025-08-25 13:30	<1	<1	<2	0.77	0.09	16
2025-09-02 13:30	<1	<1	<2	0.83	0.08	17
2025-09-08 13:30	<1	<1	<2	0.73	0.09	17
2025-09-15 13:30	<1	<1	2	0.72	0.08	18
2025-09-22 13:30	<1	<1	2	0.71	0.07	18
2025-09-29 09:37	<1	<1	<2	0.82	0.10	18
2025-10-06 13:30	<1	<1	<2	0.80	0.12	15
2025-10-15 13:30	<1	<1	<2	0.79	0.09	14
2025-10-20 13:30	<1	<1	<2	0.89	0.24	14
2025-10-27 13:30	<1	<1	<2	0.86	0.12	13
2025-11-03 13:30	<1	<1	<2	0.84	0.11	11
2025-11-10 10:30	<1	<1	<2	0.75	0.10	10
2025-11-17 13:30	<1	<1	16	0.82	0.10	11
2025-11-24 13:30	<1	<1	<2	0.76	0.10	9
2025-12-01 13:30	<1	<1	<2	0.76	0.24	9
2025-12-08 13:30	<1	<1	<2	0.97	0.14	9
2025-12-15 13:30	<1	<1	<2	1.04	0.14	8
2025-12-22 13:30	<1	<1	NA	0.89	0.23	9
2025-12-29 13:30	<1	<1	NA	0.80	0.10	7
2025-01-06 14:30	<1	<1	<2	0.77	0.14	7
2025-01-13 14:30	<1	<1	<2	0.77	0.12	7
2025-01-20 14:30	<1	<1	<2	0.79	0.14	7

Water Sampling | Type: **GRAB** | Station Number: **RMD-254** | Address: **5300 No. 3 Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 14:30	<1	<1	<2	0.74	0.11	6
2025-02-03 14:30	<1	<1	<2	0.60	0.12	6
2025-02-10 14:30	<1	<1	<2	0.80	0.12	5
2025-02-18 14:30	<1	<1	<2	0.83	0.11	4
2025-02-24 14:30	<1	<1	<2	0.74	0.12	5
2025-03-03 14:30	<1	<1	<2	0.69	0.11	6
2025-03-10 14:30	<1	<1	<2	0.90	0.13	7
2025-03-17 14:30	<1	<1	<2	0.76	0.11	7
2025-03-24 14:30	<1	<1	<2	0.94	0.11	7
2025-03-31 14:30	<1	<1	<2	0.77	1.40	7
2025-04-07 14:30	<1	<1	<2	0.92	0.20	8
2025-04-14 14:30	<1	<1	<2	0.66	0.11	8
2025-04-22 14:30	<1	<1	<2	0.74	0.16	9
2025-04-28 14:30	<1	<1	<2	0.73	0.13	10
2025-05-05 14:30	<1	<1	<2	0.72	0.14	11
2025-05-12 14:30	<1	<1	<2	0.72	0.16	11
2025-05-20 14:30	<1	<1	<2	0.70	0.14	11
2025-05-26 14:30	<1	<1	2	0.81	0.18	12
2025-06-02 14:30	<1	<1	2	0.68	0.13	13
2025-06-09 14:30	<1	<1	<2	0.77	0.17	12
2025-06-16 14:30	<1	<1	<2	0.73	0.12	13
2025-06-23 14:30	<1	<1	<2	0.76	0.10	12
2025-06-30 09:30	<1	<1	2	0.59	0.10	13
2025-07-07 14:30	<1	<1	<2	0.73	0.10	15
2025-07-14 14:25	<1	<1	2	0.77	0.10	15
2025-07-21 14:30	<1	<1	<2	0.70	0.11	16
2025-07-28 14:30	<1	<1	2	0.67	0.10	16
2025-08-05 14:30	<1	<1	10	0.71	0.14	17
2025-08-11 14:30	<1	<1	4	0.79	0.08	17
2025-08-18 14:30	<1	<1	2	0.65	0.12	18
2025-08-25 14:30	<1	<1	6	0.74	0.07	17
2025-09-02 14:25	<1	<1	4	0.73	0.07	18
2025-09-08 14:30	<1	<1	8	0.74	0.07	18
2025-09-15 14:30	<1	<1	30	0.63	0.07	18
2025-09-22 14:30	<1	<1	70	0.56	0.08	19
2025-09-29 10:25	<1	<1	2	0.73	0.08	18
2025-10-06 14:30	<1	<1	<2	0.63	0.10	16
2025-10-15 14:30	<1	<1	8	0.78	0.15	15
2025-10-20 14:25	<1	<1	<2	0.72	0.20	14
2025-10-27 14:40	<1	<1	<2	0.71	0.08	13
2025-11-03 14:30	<1	<1	<2	0.80	0.10	12
2025-11-10 11:15	<1	<1	2	0.62	0.08	11
2025-11-17 14:30	<1	<1	2	0.73	0.16	11
2025-11-24 14:30	<1	<1	<2	0.65	0.09	11
2025-12-01 14:30	<1	<1	<2	0.68	0.09	10
2025-12-08 14:30	<1	<1	<2	0.90	0.19	9
2025-12-15 14:25	<1	<1	2	0.84	0.13	10
2025-12-22 14:30	<1	<1	NA	0.65	0.20	9
2025-12-29 14:30	<1	<1	NA	0.80	0.09	7
2025-01-06 15:00	<1	<1	2	0.84	0.13	6
2025-01-13 15:00	<1	<1	<2	0.88	0.29	6
2025-01-20 15:00	<1	<1	<2	0.73	0.24	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-255** | Address: **6000 block Miller Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 15:00	<1	<1	<2	0.85	0.19	5
2025-02-03 15:00	<1	<1	<2	0.86	0.29	5
2025-02-10 15:00	<1	<1	<2	0.83	0.24	4
2025-02-18 15:00	<1	<1	<2	0.82	0.20	4
2025-02-24 15:00	<1	<1	<2	0.78	0.24	4
2025-03-03 15:00	<1	<1	<2	0.8	0.19	5
2025-03-10 15:00	<1	<1	<2	1.0	0.25	5
2025-03-17 15:00	<1	<1	<2	0.95	0.21	6
2025-03-24 15:00	<1	<1	<2	0.88	0.22	6
2025-03-31 15:00	<1	<1	<2	0.67	0.52	6
2025-04-07 15:00	<1	<1	<2	0.87	0.33	7
2025-04-14 15:00	<1	<1	<2	0.71	0.17	7
2025-04-22 15:00	<1	<1	<2	0.77	0.28	8
2025-04-28 15:00	<1	<1	<2	0.76	0.21	9
2025-05-05 15:00	<1	<1	2	0.76	0.25	10
2025-05-12 15:00	<1	<1	<2	0.84	0.25	10
2025-05-20 15:00	<1	<1	<2	0.85	0.37	10
2025-05-26 15:00	<1	<1	4	0.85	0.34	11
2025-06-02 15:00	<1	<1	8	0.83	0.52	11
2025-06-09 15:00	<1	<1	<2	0.97	0.38	11
2025-06-16 15:00	<1	<1	4	0.86	0.49	13
2025-06-23 15:00	<1	<1	<2	0.77	0.74	12
2025-06-30 10:10	<1	<1	<2	0.73	0.15	13
2025-07-07 15:00	<1	<1	<2	0.78	0.41	13
2025-07-14 15:00	<1	<1	<2	0.92	0.90	13
2025-07-21 15:00	<1	<1	2	0.72	0.78	14
2025-07-28 15:00	1	<1	<2	0.85	0.55	15
2025-08-05 15:00	<1	<1	4	0.73	0.22	16
2025-08-11 15:00	<1	<1	2	0.86	0.22	16
2025-08-18 15:00	<1	<1	<2	0.85	0.29	16
2025-08-25 15:00	<1	<1	<2	0.92	0.61	16
2025-09-02 15:00	<1	<1	2	0.93	0.33	17
2025-09-08 15:00	<1	<1	8	0.95	0.66	17
2025-09-15 15:00	<1	<1	<2	0.86	0.23	17
2025-09-22 15:00	<1	<1	2	0.80	0.25	18
2025-09-29 08:25	<1	<1	2	0.95	0.48	17
2025-10-06 15:00	<1	<1	<2	0.97	1.30	15
2025-10-15 15:00	1	<1	<2	0.71	0.37	14
2025-10-20 14:55	<1	<1	<2	0.87	0.38	13
2025-10-27 15:00	<1	<1	<2	0.95	0.28	12
2025-11-03 15:00	<1	<1	<2	0.94	0.20	10
2025-11-17 15:00	<1	<1	<2	0.76	3.70	12
2025-11-24 15:00	<1	<1	2	0.90	0.54	10
2025-12-01 15:00	<1	<1	<2	0.86	0.28	9
2025-01-06 14:45	<1	<1	<2	0.61	0.10	7
2025-01-13 14:45	<1	<1	2	0.60	0.12	7
2025-01-20 14:45	<1	<1	<2	0.61	0.13	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-256** | Address: **1000 block McDonald Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 14:45	<1	<1	<2	0.61	0.10	5
2025-02-03 14:45	<1	<1	<2	0.66	0.13	4
2025-02-10 14:45	<1	<1	<2	0.62	0.09	4
2025-02-18 14:45	<1	<1	<2	0.68	0.10	4
2025-02-24 14:45	<1	<1	<2	0.56	0.13	6
2025-03-03 14:45	<1	<1	<2	0.63	0.11	7
2025-03-10 14:45	<1	<1	<2	0.71	0.12	7
2025-03-17 14:45	<1	<1	4	0.63	0.11	8
2025-03-24 14:45	<1	<1	<2	0.86	0.15	8
2025-03-31 14:45	<1	<1	<2	0.52	0.20	9
2025-04-07 14:45	<1	<1	<2	0.46	0.20	10
2025-04-14 14:45	<1	<1	<2	0.68	0.16	11
2025-04-22 14:45	<1	<1	<2	0.56	0.12	12
2025-04-28 14:45	<1	<1	2	0.62	0.12	13
2025-05-05 14:45	<1	<1	2	0.48	0.12	14
2025-05-12 14:45	<1	<1	<2	0.61	0.11	15
2025-05-20 14:45	<1	<1	<2	0.61	0.16	13
2025-05-26 14:45	<1	<1	<2	0.61	0.13	15
2025-06-02 14:45	<1	<1	10	0.52	0.15	16
2025-06-09 14:45	<1	<1	2	0.61	0.16	15
2025-06-16 14:45	<1	<1	6	0.52	0.11	17
2025-06-23 14:45	<1	<1	6	0.55	0.08	17
2025-07-07 14:45	<1	<1	4	0.56	0.11	19
2025-07-14 14:45	<1	<1	<2	0.71	0.12	19
2025-07-21 14:45	<1	<1	40	0.57	0.10	20
2025-07-28 14:45	<1	<1	30	0.55	0.10	20
2025-08-05 14:45	<1	<1	36	0.64	0.09	19
2025-08-11 14:45	<1	<1	32	0.62	0.07	20
2025-08-18 14:45	<1	<1	140	0.55	0.08	20
2025-08-25 14:45	<1	<1	40	0.49	0.08	20
2025-09-02 14:45	<1	<1	20	0.62	0.08	19
2025-09-08 14:45	<1	<1	18	0.58	0.14	20
2025-09-15 14:45	<1	<1	44	0.73	0.09	20
2025-09-22 14:45	<1	<1	60	0.55	0.08	19
2025-09-29 08:10	<1	<1	26	0.59	0.08	18
2025-10-06 14:45	<1	<1	<2	0.52	0.13	16
2025-10-15 14:45	<1	<1	<2	0.87	0.11	14
2025-10-20 14:40	<1	<1	<2	0.79	0.14	14
2025-10-27 14:45	<1	<1	4	0.74	0.10	13
2025-11-03 14:45	<1	<1	<2	0.67	0.12	12
2025-11-10 08:30	<1	<1	<2	0.77	0.13	12
2025-11-17 14:45	<1	<1	2	0.67	0.15	11
2025-11-24 14:45	<1	<1	<2	0.75	0.11	10
2025-12-01 14:45	<1	<1	12	0.50	0.22	9
2025-12-08 14:45	<1	<1	<2	0.81	0.18	9
2025-12-15 14:40	<1	<1	12	0.87	0.14	9
2025-12-22 14:45	<1	<1	NA	0.65	0.14	9
2025-12-29 14:45	<1	<1	NA	0.48	0.10	7
2025-01-08 15:45	<1	<1	<2	0.77	0.11	7
2025-01-15 15:45	<1	<1	<2	0.75	0.17	6
2025-01-22 15:45	<1	<1	<2	0.74	0.12	5

Water Sampling | Type: **GRAB** | Station Number: **RMD-257** | Address: **6640 Blundell Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 15:45	<1	<1	<2	0.70	0.26	5
2025-02-05 15:45	<1	<1	2	0.75	0.11	4
2025-02-12 15:45	<1	<1	<2	0.73	0.11	4
2025-02-19 15:45	<1	<1	2	0.61	0.11	4
2025-02-26 15:45	<1	<1	<2	0.77	0.13	5
2025-03-05 15:45	<1	<1	<2	0.65	0.14	5
2025-03-12 15:45	<1	<1	<2	0.66	0.16	5
2025-03-19 15:45	<1	<1	<2	0.75	0.13	6
2025-03-26 15:45	<1	<1	<2	0.71	0.11	6
2025-04-02 15:45	<1	<1	2	0.75	0.15	6
2025-04-09 15:45	<1	<1	<2	0.72	0.16	7
2025-04-15 15:45	<1	<1	<2	0.74	0.12	7
2025-04-23 15:45	<1	<1	<2	0.70	0.25	9
2025-04-30 15:45	<1	<1	<2	0.75	0.13	9
2025-05-07 15:45	<1	<1	<2	0.70	0.16	10
2025-05-14 15:30	<1	<1	<2	0.64	0.15	10
2025-05-21 15:45	<1	<1	<2	0.75	0.10	10
2025-05-28 15:45	<1	<1	<2	0.73	0.16	11
2025-06-04 15:45	<1	<1	<2	0.69	0.15	11
2025-06-11 15:45	<1	<1	<2	0.72	0.11	11
2025-06-18 15:45	<1	<1	2	0.85	0.19	12
2025-06-25 15:45	<1	<1	<2	0.67	0.10	12
2025-07-02 15:45	<1	<1	<2	0.70	0.08	12
2025-07-09 15:45	<1	<1	2	0.79	0.08	13
2025-07-16 15:45	<1	<1	<2	0.72	0.11	14
2025-07-23 15:45	<1	<1	2	0.78	0.10	14
2025-07-30 15:45	<1	<1	<2	0.73	0.13	15
2025-08-06 15:45	<1	<1	4	0.65	0.09	16
2025-08-13 15:45	<1	<1	2	0.75	0.08	16
2025-08-21 15:45	<1	<1	NA	0.65	0.08	15
2025-08-27 15:45	<1	<1	<2	0.73	0.08	16
2025-09-03 16:00	<1	<1	<2	0.76	0.07	16
2025-09-10 15:45	<1	<1	<2	0.69	0.10	17
2025-09-17 15:45	<1	<1	2	0.68	0.10	18
2025-09-24 15:45	<1	<1	2	0.77	0.10	17
2025-10-01 15:45	<1	<1	4	0.77	0.09	17
2025-10-08 15:45	<1	<1	<2	0.76	0.10	15
2025-10-15 15:45	<1	<1	<2	0.84	0.14	14
2025-10-22 15:45	<1	<1	2	0.80	0.13	13
2025-10-29 15:45	<1	<1	<2	0.81	0.12	12
2025-11-05 15:45	<1	<1	NA	0.87	0.09	10
2025-11-12 15:45	<1	<1	2	0.92	0.12	10
2025-11-19 16:05	<1	<1	2	0.73	0.16	10
2025-11-26 15:45	1	<1	8	0.71	0.13	9
2025-12-03 16:00	<1	<1	4	0.88	0.11	8
2025-12-10 16:00	<1	<1	<2	0.86	0.13	8
2025-12-17 15:45	<1	<1	<2	0.73	0.18	8
2025-12-23 10:00	<1	<1	NA	0.77	0.18	7
2025-12-30 11:30	<1	<1	NA	0.79	0.16	7
2025-01-08 15:25	<1	<1	<2	0.78	0.10	7
2025-01-15 15:25	<1	<1	2	0.70	0.13	7
2025-01-22 15:30	<1	<1	<2	0.76	0.11	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-258** | Address: **7000 block Dyke Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 15:25	<1	<1	<2	0.79	0.47	5
2025-02-05 15:25	<1	<1	2	0.90	0.11	5
2025-02-12 15:30	<1	<1	<2	0.72	0.10	5
2025-02-19 15:25	<1	<1	<2	0.85	0.11	5
2025-02-26 15:30	<1	<1	<2	0.77	0.10	5
2025-03-05 15:25	<1	<1	<2	0.60	0.14	5
2025-03-12 15:25	<1	<1	<2	0.76	0.14	6
2025-03-19 15:30	<1	<1	<2	0.68	0.12	6
2025-03-26 15:30	<1	<1	<2	0.78	0.14	7
2025-04-02 15:25	<1	<1	2	0.81	0.10	7
2025-04-09 15:30	<1	<1	<2	0.69	0.11	8
2025-04-15 15:25	<1	<1	2	0.72	0.15	9
2025-04-23 15:25	<1	<1	<2	0.74	0.22	9
2025-04-30 15:25	<1	<1	4	0.75	0.12	10
2025-05-07 15:25	<1	<1	4	0.76	0.14	10
2025-05-14 15:15	<1	<1	4	0.66	0.11	11
2025-05-21 15:25	<1	<1	8	0.80	0.14	11
2025-05-28 15:25	<1	<1	4	0.74	0.15	12
2025-06-04 15:25	<1	<1	2	0.75	0.12	13
2025-06-11 15:25	<1	<1	14	0.64	0.10	14
2025-06-18 15:25	<1	<1	14	0.76	0.12	14
2025-06-25 15:25	-	-	12	0.88	5.70	14
2025-07-02 15:25	<1	<1	10	0.70	0.09	14
2025-07-09 15:30	<1	<1	10	0.87	0.07	14
2025-07-16 15:25	<1	<1	2	0.74	0.08	15
2025-07-23 15:25	<1	<1	4	0.77	0.07	16
2025-07-30 15:25	<1	<1	42	0.75	0.12	16
2025-08-06 15:25	<1	<1	24	0.67	0.09	17
2025-08-13 15:25	<1	<1	12	0.77	0.07	17
2025-08-21 15:25	<1	<1	NA	0.63	0.09	16
2025-08-27 15:15	<1	<1	20	0.87	0.07	17
2025-09-03 15:45	<1	<1	20	0.77	0.08	18
2025-09-10 15:30	<1	<1	10	0.70	0.07	17
2025-09-17 15:25	<1	<1	8	0.67	0.08	18
2025-09-24 15:25	<1	<1	18	0.70	0.07	18
2025-10-01 15:25	<1	<1	12	0.74	0.07	18
2025-10-08 15:25	<1	<1	2	0.71	0.09	16
2025-10-15 15:25	<1	<1	<2	0.75	0.10	15
2025-10-22 15:30	<1	<1	4	0.81	0.11	14
2025-10-29 15:25	<1	<1	<2	0.77	0.11	13
2025-11-05 15:25	<1	<1	4	0.97	0.11	11
2025-11-12 15:30	<1	<1	2	0.78	0.09	11
2025-11-19 15:50	<1	<1	<2	0.68	0.21	10
2025-11-26 15:25	<1	<1	<2	0.76	0.11	10
2025-12-03 15:45	<1	<1	<2	0.79	0.09	9
2025-12-10 15:30	<1	<1	2	0.77	0.11	9
2025-12-17 15:25	<1	<1	<2	0.69	0.13	8
2025-12-23 09:45	<1	<1	NA	0.74	0.11	8
2025-12-30 11:15	<1	<1	NA	0.78	0.08	8
2025-01-08 14:40	<1	<1	<2	0.76	0.11	8
2025-01-15 14:40	<1	<1	<2	0.74	0.14	7
2025-01-22 14:40	<1	<1	<2	0.75	0.10	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-259** | Address: **10020 Amethyst Avenue**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 14:40	<1	<1	<2	0.67	0.10	6
2025-02-05 14:40	<1	<1	<2	0.72	0.11	5
2025-02-12 14:40	<1	<1	<2	0.60	0.10	5
2025-02-19 14:40	<1	<1	<2	0.78	0.22	5
2025-02-26 14:40	<1	<1	<2	0.76	0.14	6
2025-03-05 14:40	<1	<1	<2	0.47	0.13	5
2025-03-12 14:40	<1	<1	<2	0.80	0.12	7
2025-03-19 14:40	<1	<1	<2	0.60	0.15	6
2025-03-26 14:40	<1	<1	<2	0.72	0.22	7
2025-04-02 14:40	<1	<1	2	0.84	0.13	7
2025-04-09 14:40	<1	<1	<2	0.75	0.14	8
2025-04-15 14:40	<1	<1	<2	0.78	0.14	9
2025-04-23 14:40	<1	<1	<2	0.71	0.15	10
2025-04-30 14:40	<1	<1	<2	0.72	0.13	10
2025-05-07 14:40	<1	<1	2	0.73	0.16	11
2025-05-14 14:30	<1	<1	<2	0.69	0.15	12
2025-05-21 14:40	<1	<1	2	0.73	0.10	12
2025-05-28 14:40	<1	<1	<2	0.75	0.13	12
2025-06-04 14:40	<1	<1	8	0.73	0.17	13
2025-06-11 14:40	<1	<1	4	0.68	0.09	13
2025-06-18 14:40	<1	<1	10	0.70	0.10	14
2025-06-25 14:40	<1	<1	6	0.68	0.14	14
2025-07-02 14:40	<1	<1	<2	0.73	0.11	14
2025-07-09 14:45	<1	<1	8	0.77	0.09	15
2025-07-16 14:40	<1	<1	2	0.74	0.11	15
2025-07-23 14:40	<1	<1	<2	0.75	0.10	16
2025-07-30 14:40	<1	<1	4	0.72	0.11	16
2025-08-06 14:40	<1	<1	12	0.69	0.08	17
2025-08-13 14:40	<1	<1	4	0.73	0.08	17
2025-08-21 14:40	<1	<1	NA	0.65	0.12	17
2025-08-27 14:45	<1	<1	12	0.70	0.12	17
2025-09-03 15:00	<1	<1	8	0.75	0.08	18
2025-09-10 14:40	<1	<1	10	0.67	0.08	18
2025-09-17 14:40	<1	<1	12	0.62	0.07	18
2025-09-24 14:40	<1	<1	8	0.74	0.10	18
2025-10-01 14:40	<1	<1	<2	0.74	0.10	17
2025-10-08 14:40	<1	<1	10	0.65	0.21	16
2025-10-15 14:40	<1	<1	<2	0.75	0.11	15
2025-10-22 14:40	<1	<1	4	0.85	0.13	14
2025-10-29 14:40	<1	<1	8	0.72	0.11	13
2025-11-05 14:40	<1	<1	2	0.76	0.08	12
2025-11-12 14:40	<1	<1	2	0.70	0.13	11
2025-11-19 14:40	<1	<1	<2	0.71	0.13	10
2025-11-26 14:40	<1	<1	<2	0.70	0.13	11
2025-12-03 15:00	<1	<1	2	0.99	0.10	10
2025-12-10 14:40	<1	<1	2	0.70	0.11	9
2025-12-17 14:40	<1	<1	<2	0.71	0.16	9
2025-12-23 09:00	<1	<1	NA	0.83	0.18	9
2025-12-30 10:15	<1	<1	NA	0.71	0.09	8
2025-01-08 14:25	<1	<1	<2	0.79	0.14	6
2025-01-15 14:25	<1	<1	<2	0.85	0.13	6
2025-01-22 14:25	<1	<1	<2	0.79	0.11	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-260** | Address: **11111 Horseshoe Way**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 14:25	<1	<1	<2	0.78	0.17	5
2025-02-05 14:25	<1	<1	<2	0.90	0.13	4
2025-02-12 14:25	<1	<1	<2	0.88	0.13	4
2025-02-19 14:25	<1	<1	<2	0.84	0.12	4
2025-02-26 14:25	<1	<1	<2	0.73	0.12	4
2025-03-05 14:25	<1	<1	<2	0.56	0.16	5
2025-03-12 14:25	<1	<1	<2	0.88	0.16	5
2025-03-19 14:25	<1	<1	<2	0.87	0.17	6
2025-03-26 14:25	<1	<1	<2	0.87	0.18	6
2025-04-02 14:25	<1	<1	2	0.86	0.18	6
2025-04-09 14:25	<1	<1	2	0.76	0.17	7
2025-04-15 14:25	<1	<1	8	0.78	0.19	7
2025-04-23 14:25	<1	<1	<2	0.78	0.21	8
2025-04-30 14:25	<1	<1	<2	0.73	0.16	9
2025-05-07 14:25	<1	<1	<2	0.70	0.20	10
2025-05-14 14:15	<1	<1	<2	0.68	0.16	10
2025-05-21 14:25	<1	<1	<2	0.69	0.19	11
2025-05-28 14:25	<1	<1	<2	0.72	0.11	12
2025-06-04 14:25	<1	<1	<2	0.77	0.18	11
2025-06-11 14:25	<1	<1	<2	0.72	0.11	12
2025-06-18 14:25	<1	<1	<2	0.72	0.10	12
2025-06-25 14:25	<1	<1	<2	0.68	0.09	12
2025-07-02 14:25	<1	<1	<2	0.74	0.11	13
2025-07-09 14:30	<1	<1	<2	0.73	0.10	13
2025-07-16 14:25	<1	<1	2	0.74	0.12	14
2025-07-23 14:25	<1	<1	<2	0.76	0.09	14
2025-07-30 14:25	<1	<1	<2	0.71	0.15	15
2025-08-06 14:25	<1	<1	2	0.72	0.10	16
2025-08-13 14:25	<1	<1	<2	0.81	0.08	16
2025-08-21 14:25	<1	<1	NA	0.50	0.11	15
2025-08-27 14:00	<1	<1	<2	0.78	0.10	16
2025-09-03 14:45	<1	<1	<2	0.88	0.10	16
2025-09-10 14:25	<1	<1	26	0.68	0.10	17
2025-09-17 14:25	<1	<1	4	0.69	0.09	18
2025-09-24 14:25	<1	<1	4	0.77	0.10	18
2025-10-01 14:25	<1	<1	4	0.70	0.10	17
2025-10-08 14:25	<1	<1	6	0.79	0.10	15
2025-10-15 14:25	<1	<1	6	0.85	0.11	15
2025-10-22 14:25	<1	<1	8	0.91	0.18	13
2025-10-29 14:25	<1	<1	<2	0.80	0.10	12
2025-11-05 14:25	<1	<1	<2	0.89	0.12	11
2025-11-12 14:25	<1	<1	6	0.80	0.11	10
2025-11-19 14:25	<1	<1	16	0.62	0.23	10
2025-11-26 14:25	<1	<1	<2	0.85	0.23	9
2025-12-03 14:45	<1	<1	2	0.84	0.10	8
2025-12-10 14:20	<1	<1	<2	0.75	0.10	8
2025-12-17 14:25	<1	<1	4	0.75	0.20	8
2025-12-23 08:45	<1	<1	NA	0.67	0.15	8
2025-12-30 10:00	<1	<1	NA	0.71	0.08	7
2025-01-08 14:10	<1	<1	<2	0.71	0.11	6
2025-01-15 14:10	<1	<1	2	0.75	0.12	6
2025-01-22 14:10	<1	<1	<2	0.67	0.11	5

Water Sampling | Type: **GRAB** | Station Number: **RMD-261** | Address: **9911 Sidaway Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 14:10	<1	<1	<2	0.72	0.11	5
2025-02-05 14:10	<1	<1	<2	0.76	0.10	4
2025-02-12 14:10	<1	<1	2	0.72	0.13	4
2025-02-19 14:10	<1	<1	<2	0.73	0.18	5
2025-02-26 14:10	<1	<1	<2	0.72	0.14	5
2025-03-05 14:10	<1	<1	<2	0.66	0.13	5
2025-03-12 14:10	<1	<1	2	0.68	0.13	6
2025-03-19 14:10	<1	<1	<2	0.69	0.54	6
2025-03-26 14:10	<1	<1	<2	0.81	0.09	6
2025-04-02 14:10	<1	<1	<2	0.58	0.11	7
2025-04-09 14:10	<1	<1	<2	0.71	0.13	7
2025-04-15 14:10	<1	<1	<2	0.64	0.21	8
2025-04-23 14:10	<1	<1	<2	0.75	0.18	9
2025-04-30 14:10	<1	<1	2	0.72	0.10	10
2025-05-07 14:10	<1	<1	<2	0.69	0.10	10
2025-05-14 14:00	<1	<1	<2	0.66	0.23	11
2025-05-21 14:10	<1	<1	<2	0.70	0.10	11
2025-05-28 14:10	<1	<1	<2	0.57	0.09	12
2025-06-04 14:10	<1	<1	2	0.69	0.13	12
2025-06-11 14:10	<1	<1	<2	0.58	0.10	13
2025-06-18 14:10	<1	<1	2	0.60	0.12	13
2025-06-25 14:10	<1	<1	<2	0.61	0.12	14
2025-07-02 14:10	<1	<1	<2	0.69	0.15	13
2025-07-09 14:15	<1	<1	<2	0.75	0.08	13
2025-07-16 14:10	<1	<1	<2	0.71	0.09	15
2025-07-23 14:10	<1	<1	<2	0.72	0.16	15
2025-07-30 14:10	<1	<1	530	0.72	0.10	16
2025-08-06 14:10	<1	<1	<2	0.66	0.09	17
2025-08-13 14:10	<1	<1	10	0.71	0.13	16
2025-08-21 14:10	<1	<1	NA	0.57	0.10	16
2025-08-27 13:15	<1	<1	12	0.65	0.10	16
2025-09-03 14:30	<1	<1	32	0.76	0.08	17
2025-09-10 14:10	<1	<1	4	0.65	0.08	17
2025-09-17 14:10	<1	<1	4	0.65	0.08	18
2025-09-24 14:10	<1	<1	4	0.70	0.09	18
2025-10-01 14:10	<1	<1	<2	0.62	0.10	17
2025-10-08 14:10	<1	<1	10	0.66	0.10	16
2025-10-15 14:10	<1	<1	6	0.73	0.11	15
2025-10-22 14:10	<1	<1	<2	0.74	0.11	14
2025-10-29 14:10	<1	<1	2	0.72	0.13	12
2025-11-05 14:10	<1	<1	<2	0.64	0.23	11
2025-11-12 14:10	<1	<1	4	0.53	0.10	11
2025-11-19 14:10	<1	<1	<2	0.61	0.12	10
2025-11-26 14:10	<1	<1	2	0.51	0.12	11
2025-12-03 14:30	<1	<1	<2	0.50	0.10	9
2025-12-10 14:00	<1	<1	<2	0.69	0.08	9
2025-12-17 14:10	<1	<1	<2	0.69	0.16	8
2025-12-23 08:30	<1	<1	NA	0.69	0.15	8
2025-12-30 09:40	<1	<1	NA	0.70	0.08	7
2025-01-08 13:20	<1	<1	2	0.70	0.11	6
2025-01-15 13:20	<1	<1	10	0.72	0.20	6
2025-01-22 13:15	<1	<1	<2	0.67	0.12	5

Water Sampling | Type: **GRAB** | Station Number: **RMD-262** | Address: **13799 Commerce Parkway**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 13:20	<1	<1	<2	0.83	0.13	4
2025-02-05 13:20	<1	<1	<2	0.69	0.11	5
2025-02-12 13:15	<1	<1	<2	0.68	0.12	3
2025-02-19 13:20	<1	<1	<2	0.71	0.14	4
2025-02-26 13:15	<1	<1	<2	0.77	0.15	5
2025-03-05 13:20	<1	<1	<2	0.78	0.14	5
2025-03-12 13:20	<1	<1	<2	0.67	0.14	6
2025-03-19 13:15	<1	<1	<2	0.70	0.77	6
2025-03-26 13:15	<1	<1	<2	0.69	0.11	6
2025-04-02 13:20	<1	<1	<2	0.76	0.13	7
2025-04-09 13:15	<1	<1	<2	0.72	0.16	7
2025-04-15 13:20	<1	<1	<2	0.69	0.19	8
2025-04-23 13:20	<1	<1	<2	0.74	0.14	9
2025-04-30 13:20	<1	<1	<2	0.71	0.18	10
2025-05-07 13:20	<1	<1	<2	0.74	0.14	10
2025-05-14 13:15	<1	<1	<2	0.73	0.16	11
2025-05-21 13:20	<1	<1	2	0.72	0.16	11
2025-05-28 13:20	<1	<1	6	0.63	0.16	12
2025-06-04 13:20	<1	<1	2	0.67	0.11	13
2025-06-11 13:20	<1	<1	4	0.65	0.11	13
2025-06-18 13:15	<1	<1	2	0.60	0.13	14
2025-06-25 13:20	<1	<1	<2	0.65	0.11	13
2025-07-02 13:20	<1	<1	8	0.67	0.17	13
2025-07-09 13:20	<1	<1	<2	0.76	0.07	13
2025-07-16 13:20	<1	<1	<2	0.78	0.12	15
2025-07-23 13:20	<1	<1	4	0.72	0.08	15
2025-07-30 13:20	<1	<1	4	0.74	0.14	16
2025-08-06 13:20	<1	<1	4	0.70	0.08	17
2025-08-13 13:20	<1	<1	2	0.72	0.08	17
2025-08-21 13:20	<1	<1	NA	0.58	0.11	16
2025-08-27 12:40	<1	<1	<2	0.63	0.10	17
2025-09-03 13:20	<1	<1	<2	0.83	0.10	18
2025-09-10 13:15	<1	<1	12	0.66	0.09	17
2025-09-17 13:20	<1	<1	<2	0.65	0.11	18
2025-09-24 13:20	<1	<1	2	0.65	0.07	18
2025-10-01 13:20	<1	<1	<2	0.66	0.08	17
2025-10-08 13:20	<1	<1	4	0.81	0.10	15
2025-10-15 13:20	<1	<1	2	0.85	0.15	14
2025-10-22 13:15	<1	<1	6	0.85	0.14	14
2025-10-29 13:20	<1	<1	2	0.87	0.12	11
2025-11-05 13:15	<1	<1	8	0.77	0.15	10
2025-11-12 13:15	<1	<1	8	0.79	0.09	10
2025-11-19 13:15	<1	<1	4	0.60	0.13	10
2025-11-26 13:20	<1	<1	6	0.68	0.28	9
2025-12-03 13:45	<1	<1	<2	0.68	0.10	8
2025-12-10 13:15	<1	<1	<2	0.69	0.23	8
2025-12-17 13:20	<1	<1	6	0.65	0.16	8
2025-12-23 07:45	<1	<1	NA	0.67	0.20	7
2025-12-30 08:45	<1	<1	NA	0.80	0.08	7
2025-01-08 12:30	<1	<1	<2	0.61	0.13	7
2025-01-15 12:30	<1	<1	<2	0.70	0.19	6
2025-01-22 12:30	<1	<1	2	0.69	0.11	5

Water Sampling | Type: **GRAB** | Station Number: **RMD-263** | Address: **12560 Cambie Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 12:30	<1	<1	<2	0.67	0.11	5
2025-02-05 12:30	<1	<1	<2	0.80	0.11	5
2025-02-12 12:30	<1	<1	<2	0.74	0.12	4
2025-02-19 12:30	<1	<1	<2	0.76	0.12	4
2025-02-26 12:30	<1	<1	2	0.74	0.11	5
2025-03-05 12:30	<1	<1	<2	0.77	0.14	6
2025-03-12 12:30	<1	<1	<2	0.82	0.13	6
2025-03-19 12:30	<1	<1	<2	0.74	1.20	6
2025-03-26 12:30	<1	<1	<2	0.65	0.16	7
2025-04-02 12:30	<1	<1	<2	0.67	0.14	7
2025-04-09 12:30	<1	<1	<2	0.73	0.18	8
2025-04-15 12:30	<1	<1	4	0.50	0.13	8
2025-04-23 12:30	<1	<1	2	0.71	0.15	9
2025-04-30 12:30	<1	<1	2	0.74	0.20	10
2025-05-07 12:30	<1	<1	2	0.69	0.13	11
2025-05-14 12:30	<1	<1	<2	0.84	0.17	11
2025-05-21 12:30	<1	<1	<2	0.84	0.13	11
2025-05-28 12:30	<1	<1	2	0.76	0.15	11
2025-06-04 12:30	<1	<1	<2	0.67	0.12	12
2025-06-11 12:30	<1	<1	<2	0.73	0.12	12
2025-06-18 12:30	<1	<1	<2	0.77	0.11	13
2025-06-25 12:30	<1	<1	<2	0.74	0.11	13
2025-07-02 12:30	<1	<1	54	0.74	0.12	13
2025-07-09 12:30	<1	<1	4	0.80	0.09	13
2025-07-16 12:30	<1	<1	<2	0.84	0.13	14
2025-07-23 12:30	<1	<1	<2	0.80	0.12	14
2025-07-30 12:30	<1	<1	4	0.68	0.23	15
2025-08-06 12:30	<1	<1	8	0.74	0.10	17
2025-08-13 12:30	<1	<1	<2	0.77	0.11	16
2025-08-21 12:30	<1	<1	NA	0.54	0.12	16
2025-08-27 12:00	<1	<1	12	0.74	0.09	16
2025-09-03 12:30	<1	<1	<2	0.82	0.07	17
2025-09-10 12:30	<1	<1	8	0.71	0.10	17
2025-09-17 12:30	<1	<1	6	0.73	0.09	18
2025-09-24 12:30	<1	<1	2	0.75	0.12	18
2025-10-01 12:30	<1	<1	<2	0.82	0.09	17
2025-10-08 12:30	<1	<1	2	0.75	0.11	16
2025-10-15 12:30	<1	<1	<2	0.75	0.12	14
2025-10-22 12:30	<1	<1	2	0.74	0.14	13
2025-10-29 12:30	<1	<1	<2	0.87	0.12	12
2025-11-05 12:30	<1	<1	<2	0.80	0.10	11
2025-11-12 12:30	<1	<1	2	0.76	0.14	10
2025-11-19 12:30	<1	<1	10	0.80	0.15	10
2025-11-26 12:30	<1	<1	<2	0.78	0.18	9
2025-12-03 13:00	<1	<1	<2	0.78	0.09	9
2025-12-10 12:30	<1	<1	<2	0.73	0.10	8
2025-12-17 12:30	<1	<1	<2	0.76	0.11	8
2025-12-23 07:10	<1	<1	NA	0.87	0.12	8
2025-12-30 08:00	<1	<1	NA	0.80	0.15	7
2025-01-08 13:00	<1	<1	8	0.72	0.34	7
2025-01-15 13:00	<1	<1	<2	0.78	0.57	6
2025-01-22 12:45	<1	<1	<2	0.73	0.17	5

Water Sampling | Type: **GRAB** | Station Number: **RMD-264** | Address: **13100 Mitchell Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 13:00	<1	<1	4	0.64	0.14	5
2025-02-05 13:00	<1	<1	<2	0.75	0.10	4
2025-02-12 12:45	<1	<1	<2	0.79	0.16	5
2025-02-19 13:00	<1	<1	<2	0.78	0.11	5
2025-02-26 12:45	<1	<1	<2	0.68	0.12	6
2025-03-05 13:00	<1	<1	<2	0.73	0.15	6
2025-03-12 13:00	<1	<1	<2	0.80	0.15	6
2025-03-19 12:45	<1	<1	<2	0.67	0.92	6
2025-03-26 12:45	<1	<1	<2	0.88	0.14	8
2025-04-02 13:00	<1	<1	<2	0.84	0.17	8
2025-04-09 12:45	<1	<1	<2	0.83	0.45	7
2025-04-15 13:00	<1	<1	<2	0.73	0.15	8
2025-04-23 13:00	<1	<1	<2	0.81	0.16	9
2025-04-30 13:00	<1	<1	<2	0.73	0.21	10
2025-05-07 13:00	<1	<1	<2	0.75	0.17	10
2025-05-14 13:00	<1	<1	4	0.78	0.13	11
2025-05-21 13:00	<1	<1	<2	0.78	0.18	11
2025-05-28 13:00	<1	<1	<2	0.76	0.13	12
2025-06-04 13:00	<1	<1	<2	0.55	0.13	12
2025-06-11 13:00	<1	<1	<2	0.69	0.15	13
2025-06-18 13:00	<1	<1	<2	0.70	0.15	14
2025-06-25 13:00	<1	<1	<2	0.76	0.11	13
2025-07-02 13:00	<1	<1	<2	0.68	0.24	13
2025-07-09 13:05	<1	<1	2	0.81	0.09	14
2025-07-16 13:00	<1	<1	2	0.89	0.11	14
2025-07-23 13:00	<1	<1	8	0.77	0.10	14
2025-07-30 13:00	<1	<1	22	0.76	0.16	16
2025-08-06 13:00	<1	<1	<2	0.81	0.11	17
2025-08-13 13:00	<1	<1	12	0.58	0.11	16
2025-08-21 13:00	<1	<1	NA	0.52	0.13	16
2025-08-27 12:15	<1	<1	10	0.87	0.09	16
2025-09-03 13:05	<1	<1	<2	0.81	0.09	17
2025-09-10 12:45	<1	<1	2	0.70	0.10	17
2025-09-17 13:00	<1	<1	2	0.78	0.12	18
2025-09-24 13:00	<1	<1	6	0.75	0.10	18
2025-10-01 13:00	<1	<1	<2	0.64	0.07	17
2025-10-08 13:00	<1	<1	<2	0.78	0.11	17
2025-10-15 13:00	<1	<1	<2	0.83	0.14	14
2025-10-22 12:45	<1	<1	NA	0.60	0.14	13
2025-10-29 13:00	<1	<1	<2	0.92	0.14	12
2025-11-05 12:45	<1	<1	<2	0.84	0.11	11
2025-11-12 12:45	<1	<1	18	0.77	0.11	10
2025-11-19 13:00	<1	<1	4	0.64	0.16	10
2025-11-26 13:00	<1	<1	<2	0.73	0.10	9
2025-12-03 13:15	<1	<1	<2	0.84	0.08	9
2025-12-10 12:45	<1	<1	2	0.75	0.11	8
2025-12-17 12:45	<1	<1	<2	0.83	0.15	8
2025-12-23 07:25	<1	<1	NA	0.64	0.15	8
2025-12-30 08:15	<1	<1	NA	0.77	0.09	7
2025-01-08 14:55	<1	<1	<2	0.92	0.11	7
2025-01-15 14:55	<1	<1	<2	0.82	0.15	7
2025-01-22 14:55	<1	<1	<2	0.79	0.11	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-266** | Address: **9380 General Currie Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 14:55	<1	<1	<2	0.72	0.12	5
2025-02-05 14:55	<1	<1	<2	0.77	0.11	5
2025-02-12 14:55	<1	<1	<2	0.86	0.12	4
2025-02-19 14:55	<1	<1	<2	0.80	0.11	4
2025-02-26 14:55	<1	<1	<2	0.75	0.12	4
2025-03-05 14:55	<1	<1	<2	0.64	0.14	5
2025-03-12 14:55	<1	<1	<2	0.81	0.12	5
2025-03-19 14:55	<1	<1	<2	0.80	0.14	6
2025-03-26 14:55	<1	<1	<2	0.75	0.11	6
2025-04-02 14:55	<1	<1	<2	0.90	0.18	6
2025-04-09 14:55	<1	<1	<2	0.71	0.14	7
2025-04-15 14:55	<1	<1	<2	0.73	0.14	7
2025-04-23 14:55	<1	<1	<2	0.80	0.16	8
2025-04-30 14:55	<1	<1	<2	0.76	0.16	9
2025-05-07 14:55	<1	<1	<2	0.66	0.20	10
2025-05-14 14:45	<1	<1	<2	0.79	0.17	12
2025-05-21 14:55	<1	<1	<2	0.72	0.14	11
2025-05-28 14:55	<1	<1	<2	0.75	0.25	11
2025-06-04 14:55	<1	<1	<2	0.81	0.18	11
2025-06-11 14:55	<1	<1	<2	0.75	0.12	12
2025-06-18 14:55	<1	<1	<2	0.63	0.11	12
2025-06-25 14:55	<1	<1	<2	0.76	0.10	14
2025-07-02 14:55	<1	<1	<2	0.80	0.11	13
2025-07-09 15:00	<1	<1	2	0.82	0.09	13
2025-07-16 14:55	<1	<1	2	0.69	0.13	15
2025-07-23 14:55	<1	<1	<2	0.74	0.11	14
2025-07-30 14:55	<1	<1	<2	0.73	0.13	15
2025-08-06 14:55	<1	<1	4	0.76	0.10	16
2025-08-13 14:55	<1	<1	2	0.84	0.09	16
2025-08-21 14:55	<1	<1	NA	0.73	0.09	16
2025-08-27 14:55	<1	<1	<2	0.69	0.10	16
2025-09-03 15:15	<1	<1	<2	0.83	0.07	17
2025-09-10 14:55	<1	<1	12	0.63	0.08	17
2025-09-17 14:55	<1	<1	<2	0.75	0.09	18
2025-09-24 14:55	<1	<1	4	0.88	0.08	18
2025-10-01 14:55	<1	<1	<2	0.71	0.10	17
2025-10-08 14:55	<1	<1	<2	0.74	0.11	15
2025-10-15 14:55	<1	<1	<2	0.85	0.12	14
2025-10-22 14:55	<1	<1	<2	0.81	0.15	13
2025-10-29 14:55	<1	<1	2	0.90	0.11	12
2025-11-05 14:55	<1	<1	<2	0.95	0.09	10
2025-11-12 14:55	<1	<1	<2	1.10	0.11	10
2025-11-19 14:55	<1	<1	4	0.76	0.17	10
2025-11-26 14:55	<1	<1	<2	0.81	0.13	9
2025-12-03 15:30	<1	<1	<2	0.96	0.10	9
2025-12-10 14:55	<1	<1	<2	0.85	0.13	8
2025-12-17 14:55	<1	<1	<2	0.69	0.15	8
2025-12-23 09:15	<1	<1	NA	0.70	0.18	7
2025-12-30 10:30	<1	<1	NA	0.74	0.09	7
2025-01-03 10:00	<1	<1	6	0.70	0.12	8
2025-01-09 10:00	<1	<1	2	0.74	0.17	7
2025-01-17 10:10	<1	<1	2	0.71	0.16	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-267** | Address: **17240 Fedoruk Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-23 10:00	<1	<1	<2	0.72	0.13	5
2025-01-31 10:10	<1	<1	<2	0.79	0.16	4
2025-02-06 10:10	<1	<1	<2	0.78	0.14	4
2025-02-14 10:15	<1	<1	<2	0.74	0.12	4
2025-02-20 10:00	<1	<1	18	0.76	0.18	5
2025-02-28 10:00	<1	<1	<2	0.75	0.49	5
2025-03-06 10:15	<1	<1	<2	0.80	0.23	5
2025-03-14 10:10	<1	<1	<2	0.71	0.28	6
2025-03-20 10:10	<1	<1	<2	0.72	0.15	6
2025-03-28 10:10	<1	<1	2	0.75	0.16	6
2025-04-03 10:10	<1	<1	2	0.69	0.13	7
2025-04-11 10:10	<1	<1	<2	0.67	0.12	8
2025-04-16 10:10	<1	<1	<2	0.64	0.21	8
2025-04-25 10:10	<1	<1	4	0.67	0.12	10
2025-05-01 10:10	<1	<1	4	0.65	0.15	11
2025-05-09 10:15	<1	<1	10	0.75	0.11	12
2025-05-15 10:10	<1	<1	2	0.67	0.13	12
2025-05-23 10:15	<1	<1	<2	0.74	0.22	12
2025-05-29 10:10	<1	<1	4	0.69	0.21	13
2025-06-06 10:00	<1	<1	8	0.67	0.14	13
2025-06-12 10:30	<1	<1	<2	0.80	0.15	14
2025-06-20 10:10	<1	<1	2	0.70	0.10	14
2025-06-26 10:15	<1	<1	<2	0.73	0.18	14
2025-07-04 10:10	<1	<1	12	0.72	0.16	14
2025-07-10 10:10	<1	<1	4	0.72	0.12	15
2025-07-18 10:20	<1	<1	<2	0.80	0.08	17
2025-07-24 10:10	<1	<1	2	0.68	0.10	16
2025-08-01 10:10	<1	<1	40	0.69	0.09	18
2025-08-07 10:00	<1	<1	10	0.73	0.08	17
2025-08-15 10:10	<1	<1	<2	0.68	0.10	18
2025-08-20 14:45	<1	<1	NA	0.66	0.09	17
2025-08-29 11:30	<1	<1	8	0.58	0.11	18
2025-09-04 10:10	<1	<1	2	0.71	0.13	18
2025-09-12 10:00	<1	<1	NA	0.49	0.09	19
2025-09-18 10:00	<1	<1	14	0.70	0.10	18
2025-09-26 10:10	<1	<1	12	0.49	0.10	18
2025-10-02 10:10	<1	<1	<2	0.67	0.14	17
2025-10-10 10:15	<1	<1	<2	0.86	0.09	15
2025-10-16 10:10	<1	<1	<2	0.79	0.12	14
2025-10-24 10:00	<1	<1	2	0.67	0.12	14
2025-10-30 10:10	<1	<1	<2	0.74	0.12	11
2025-11-07 10:10	<1	<1	<2	0.76	0.11	10
2025-11-13 10:15	<1	<1	<2	0.66	0.09	10
2025-11-21 10:10	<1	<1	4	0.66	0.09	10
2025-11-27 10:10	<1	<1	<2	0.86	0.09	9
2025-12-05 10:10	<1	<1	<2	0.74	0.10	8
2025-12-11 10:15	<1	<1	16	0.71	0.09	9
2025-12-19 10:15	<1	<1	<2	0.64	0.09	8
2025-12-23 12:20	<1	<1	NA	0.68	0.12	8
2025-01-08 15:10	<1	<1	<2	0.74	0.14	7
2025-01-15 13:10	<1	<1	<2	0.74	0.12	7
2025-01-22 15:15	<1	<1	<2	0.70	0.10	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-268** | Address: **13800 No. 3 Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 15:10	<1	<1	<2	0.74	0.22	5
2025-02-05 15:10	<1	<1	<2	0.60	0.11	5
2025-02-12 15:15	<1	<1	<2	0.74	0.10	5
2025-02-19 15:10	<1	<1	<2	0.82	0.11	5
2025-02-26 15:15	<1	<1	2	0.72	0.10	5
2025-03-05 15:10	<1	<1	<2	0.61	0.13	6
2025-03-12 15:10	<1	<1	<2	0.75	0.13	6
2025-03-19 15:15	<1	<1	<2	0.68	0.14	7
2025-03-26 15:15	<1	<1	<2	0.95	0.14	7
2025-04-02 15:10	<1	<1	<2	0.80	0.13	7
2025-04-09 15:15	<1	<1	<2	0.68	0.11	8
2025-04-15 15:10	<1	<1	<2	0.81	0.12	8
2025-04-23 15:10	<1	<1	4	0.74	0.11	9
2025-04-30 15:10	<1	<1	<2	0.74	0.31	9
2025-05-07 15:10	<1	<1	<2	0.76	0.17	10
2025-05-14 15:00	<1	<1	<2	0.74	0.14	11
2025-05-21 15:10	<1	<1	<2	0.82	0.09	11
2025-05-28 15:10	<1	<1	<2	0.73	0.12	12
2025-06-04 15:10	<1	<1	<2	0.69	0.16	12
2025-06-11 15:10	<1	<1	<2	0.65	0.11	13
2025-06-18 15:10	<1	<1	2	0.76	0.11	13
2025-06-25 15:10	-	-	2	0.86	6.70	13
2025-07-02 15:10	<1	<1	<2	0.66	0.12	14
2025-07-09 15:15	<1	<1	<2	0.79	0.09	14
2025-07-16 15:10	<1	<1	4	0.71	0.10	15
2025-07-23 15:10	<1	<1	<2	0.71	0.08	15
2025-07-30 15:10	<1	<1	<2	0.72	0.18	16
2025-08-06 15:10	<1	<1	2	0.62	0.10	17
2025-08-13 15:10	<1	<1	2	0.70	0.09	17
2025-08-21 15:10	<1	<1	NA	0.62	0.10	16
2025-08-27 15:05	<1	<1	<2	0.87	0.09	17
2025-09-03 15:30	<1	<1	10	0.72	0.08	17
2025-09-10 15:15	<1	<1	4	0.67	0.10	17
2025-09-17 15:10	<1	<1	4	0.66	0.08	18
2025-09-24 15:10	<1	<1	2	0.68	0.09	18
2025-10-01 15:10	<1	<1	<2	0.82	0.08	17
2025-10-08 13:10	<1	<1	<2	0.69	0.09	16
2025-10-15 15:10	<1	<1	<2	0.73	0.11	15
2025-10-22 15:15	<1	<1	6	0.80	0.24	14
2025-10-29 15:10	<1	<1	2	0.77	0.12	13
2025-11-05 15:10	<1	<1	<2	0.90	0.11	11
2025-11-12 15:15	<1	<1	<2	0.77	0.09	11
2025-11-19 15:40	<1	<1	<2	0.70	0.12	10
2025-11-26 15:10	<1	<1	<2	0.74	0.11	9
2025-12-03 15:15	<1	<1	<2	0.86	0.15	9
2025-12-10 15:15	<1	<1	2	0.72	0.11	9
2025-12-17 15:10	<1	<1	<2	0.63	0.13	9
2025-12-23 09:30	<1	<1	NA	0.79	0.17	9
2025-12-30 10:45	<1	<1	NA	0.76	0.10	8
2025-01-06 13:50	<1	<1	<2	0.70	0.13	6
2025-01-13 13:50	<1	<1	<2	0.75	0.16	6
2025-01-20 13:50	<1	<1	<2	0.69	0.14	5

Water Sampling | Type: **GRAB** | Station Number: **RMD-269** | Address: **14951 Triangle Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 13:50	<1	<1	<2	0.76	0.13	5
2025-02-03 13:50	<1	<1	<2	0.72	0.15	4
2025-02-10 13:50	<1	<1	<2	0.81	0.14	3
2025-02-18 13:50	<1	<1	<2	0.82	0.12	4
2025-02-24 13:50	<1	<1	<2	0.70	0.20	4
2025-03-03 13:50	<1	<1	<2	0.67	0.12	5
2025-03-10 13:50	<1	<1	2	0.78	0.18	5
2025-03-17 13:50	<1	<1	<2	0.76	0.13	5
2025-03-24 13:50	<1	<1	<2	0.84	0.12	6
2025-03-31 13:50	<1	<1	<2	0.82	0.14	6
2025-04-07 13:50	<1	<1	8	0.73	0.18	7
2025-04-14 13:50	<1	<1	<2	0.67	0.15	7
2025-04-22 13:50	<1	<1	<2	0.61	0.25	8
2025-04-28 13:50	<1	<1	4	0.73	0.11	9
2025-05-05 13:50	<1	<1	<2	0.71	0.19	10
2025-05-12 13:50	<1	<1	<2	0.77	0.13	10
2025-05-20 13:50	<1	<1	<2	0.71	0.22	10
2025-05-26 13:50	<1	<1	<2	0.65	0.27	11
2025-06-02 13:50	<1	<1	<2	0.72	0.20	11
2025-06-09 13:50	<1	<1	<2	0.69	0.15	11
2025-06-16 13:50	<1	<1	<2	0.69	0.10	13
2025-06-23 13:50	<1	<1	<2	0.72	0.13	12
2025-06-30 08:55	<1	<1	<2	0.48	0.12	13
2025-07-07 13:50	<1	<1	4	0.43	0.12	13
2025-07-14 13:50	<1	<1	2	0.74	0.17	15
2025-07-21 13:50	<1	<1	10	0.71	0.12	14
2025-07-28 13:50	<1	<1	2	0.56	0.09	16
2025-08-05 13:50	<1	<1	4	0.59	0.19	17
2025-08-11 13:50	<1	<1	8	0.36	0.09	16
2025-08-18 13:50	<1	<1	<2	0.50	0.16	16
2025-08-25 13:50	<1	<1	2	0.62	0.11	16
2025-09-02 13:50	<1	<1	2	0.77	0.11	17
2025-09-08 13:50	<1	<1	10	0.68	0.18	17
2025-09-15 13:50	<1	<1	12	0.52	0.10	18
2025-09-22 13:50	<1	<1	<2	0.61	0.08	18
2025-09-29 09:53	<1	<1	<2	0.70	0.17	17
2025-10-06 13:50	<1	<1	<2	0.84	0.13	14
2025-10-15 13:50	<1	<1	<2	0.92	0.12	14
2025-10-20 13:50	<1	<1	<2	1.02	0.15	13
2025-10-27 13:50	<1	<1	<2	0.66	0.10	12
2025-11-03 13:50	<1	<1	<2	0.72	0.10	10
2025-11-10 10:45	<1	<1	<2	0.79	0.10	9
2025-11-17 13:55	<1	<1	4	0.66	0.15	9
2025-11-24 13:50	<1	<1	<2	0.68	0.11	9
2025-12-01 13:50	<1	<1	<2	0.70	0.23	10
2025-12-08 13:50	<1	<1	2	0.87	0.25	8
2025-12-15 13:50	<1	<1	2	1.08	0.11	8
2025-12-22 13:55	<1	<1	NA	0.74	0.17	11
2025-12-29 13:55	<1	<1	NA	0.71	0.11	8
2025-01-06 14:15	<1	<1	<2	0.72	0.11	7
2025-01-13 14:15	<1	<1	<2	0.79	0.12	7
2025-01-20 14:15	<1	<1	<2	0.71	0.15	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-270** | Address: **8200 Jones Road**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 14:15	<1	<1	<2	0.77	0.11	6
2025-02-03 14:15	<1	<1	<2	0.71	0.13	4
2025-02-10 14:15	<1	<1	2	0.88	0.10	5
2025-02-18 14:15	<1	<1	<2	0.81	0.11	4
2025-02-24 14:15	<1	<1	<2	0.78	0.13	5
2025-03-03 14:15	<1	<1	<2	0.66	0.10	6
2025-03-10 14:15	<1	<1	<2	0.86	0.11	7
2025-03-17 14:15	<1	<1	2	0.77	0.11	6
2025-03-24 14:15	<1	<1	<2	0.99	0.13	8
2025-03-31 14:15	<1	<1	<2	0.76	0.15	7
2025-04-07 14:15	<1	<1	2	0.84	0.15	8
2025-04-14 14:15	<1	<1	<2	0.78	0.13	8
2025-04-22 14:15	<1	<1	<2	0.68	0.21	10
2025-04-28 14:15	<1	<1	<2	0.77	0.12	10
2025-05-05 14:15	<1	<1	<2	0.73	0.14	11
2025-05-12 14:15	<1	<1	<2	0.78	0.15	12
2025-05-20 14:15	<1	<1	<2	0.73	0.15	12
2025-05-26 14:15	<1	<1	10	0.78	0.16	13
2025-06-02 14:15	<1	<1	<2	0.68	0.12	13
2025-06-09 14:15	<1	<1	4	0.81	0.24	14
2025-06-16 14:15	<1	<1	<2	0.67	0.12	14
2025-06-23 14:15	<1	<1	10	0.77	0.10	14
2025-06-30 09:15	<1	<1	<2	0.70	0.16	15
2025-07-07 14:15	<1	<1	<2	0.75	0.21	15
2025-07-14 14:10	<1	<1	2	0.85	0.13	15
2025-07-21 14:15	<1	<1	2	0.77	0.11	16
2025-07-28 12:15	<1	<1	12	0.73	0.09	16
2025-08-05 14:15	<1	<1	16	0.69	0.15	18
2025-08-11 14:15	<1	<1	10	0.82	0.09	18
2025-08-18 14:15	<1	<1	<2	0.72	0.14	18
2025-08-25 14:15	<1	<1	4	0.78	0.09	17
2025-09-02 14:10	<1	<1	14	0.83	0.07	18
2025-09-08 14:15	<1	<1	6	0.77	0.11	18
2025-09-15 14:15	<1	<1	16	0.62	0.07	19
2025-09-22 14:15	<1	<1	10	0.61	0.09	18
2025-09-29 10:15	<1	<1	10	0.67	0.07	18
2025-10-06 14:15	<1	<1	6	0.75	0.19	16
2025-10-15 14:15	<1	<1	18	0.75	0.15	15
2025-10-27 14:15	<1	<1	<2	0.78	0.09	13
2025-11-03 14:15	<1	<1	<2	0.78	0.10	12
2025-11-10 11:00	<1	<1	<2	0.65	0.10	12
2025-11-17 14:15	<1	<1	<2	0.78	0.14	11
2025-11-24 14:15	<1	<1	<2	0.73	0.11	10
2025-12-01 14:15	<1	<1	2	0.77	0.11	10
2025-12-08 14:15	<1	<1	4	0.80	0.27	9
2025-12-15 14:10	<1	<1	<2	0.82	0.15	10
2025-12-22 14:15	<1	<1	NA	0.78	0.11	9
2025-12-29 14:15	<1	<1	NA	0.75	0.08	8
2025-01-06 15:15	<1	<1	<2	0.53	0.13	9
2025-01-13 15:15	<1	<1	<2	0.80	0.10	9
2025-01-20 15:15	<1	<1	<2	0.72	0.12	9

Water Sampling | Type: **GRAB** | Station Number: **RMD-271** | Address: **3800 Cessna Drive**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 15:15	<1	<1	<2	0.64	0.09	8
2025-02-03 15:15	<1	<1	<2	0.75	0.10	7
2025-02-10 15:15	<1	<1	<2	0.67	0.13	7
2025-02-18 15:15	<1	<1	<2	0.80	0.10	5
2025-02-24 15:15	<1	<1	<2	0.70	0.12	6
2025-03-03 15:15	<1	<1	<2	0.65	0.12	7
2025-03-10 15:15	<1	<1	<2	0.86	0.14	7
2025-03-17 15:15	<1	<1	<2	0.79	0.13	8
2025-03-24 15:15	<1	<1	2	0.81	0.12	7
2025-03-31 15:15	<1	<1	<2	0.71	0.16	9
2025-04-07 15:15	<1	<1	<2	0.65	0.17	9
2025-04-14 15:15	<1	<1	<2	0.78	0.10	10
2025-04-22 15:15	<1	<1	<2	0.66	0.17	10
2025-04-28 15:15	<1	<1	2	0.63	0.11	12
2025-05-05 15:15	<1	<1	<2	0.80	0.15	12
2025-05-12 15:15	<1	<1	<2	0.74	0.12	12
2025-05-20 15:15	<1	<1	<2	0.69	0.19	12
2025-05-26 15:15	<1	<1	<2	0.88	0.25	12
2025-06-02 15:15	<1	<1	2	0.74	0.15	13
2025-06-09 15:15	<1	<1	4	0.89	0.11	13
2025-06-16 15:15	<1	<1	4	0.81	0.11	14
2025-06-23 15:15	<1	<1	<2	0.84	0.10	13
2025-06-30 10:25	<1	<1	<2	0.79	0.08	14
2025-07-07 15:15	<1	<1	<2	0.79	0.11	15
2025-07-14 15:15	<1	<1	2	0.83	0.11	14
2025-07-21 15:15	<1	<1	<2	0.78	0.10	16
2025-07-28 15:15	<1	<1	<2	0.75	0.10	16
2025-08-05 15:15	<1	<1	4	0.71	0.13	18
2025-08-11 15:15	<1	<1	2	0.99	0.13	17
2025-08-18 15:15	<1	<1	180	0.79	0.25	17
2025-08-25 15:15	<1	<1	10	0.85	0.09	17
2025-09-02 15:15	<1	<1	18	0.85	0.08	19
2025-09-08 15:15	<1	<1	14	0.84	0.09	18
2025-09-15 15:15	<1	<1	<2	0.76	0.09	18
2025-09-22 15:15	<1	<1	30	0.59	0.07	19
2025-09-29 08:32	<1	<1	14	0.69	0.10	19
2025-10-06 15:15	<1	<1	6	0.65	0.10	18
2025-10-15 15:15	<1	<1	10	0.64	0.15	15
2025-10-20 15:10	<1	<1	4	0.64	0.12	14
2025-10-27 15:15	<1	<1	2	0.87	0.10	13
2025-11-03 15:15	<1	<1	2	0.56	0.09	14
2025-11-10 08:45	<1	<1	2	0.57	0.09	14
2025-11-17 15:15	<1	<1	<2	0.53	0.13	12
2025-11-24 15:15	<1	<1	4	0.49	0.09	12
2025-12-01 15:15	<1	<1	<2	0.76	0.11	10
2025-12-08 15:15	<1	<1	<2	0.61	0.16	11
2025-12-15 15:30	<1	<1	<2	0.61	0.16	11
2025-12-22 15:00	<1	<1	NA	0.45	0.14	9
2025-12-29 15:00	<1	<1	NA	0.69	0.10	8
2025-01-06 15:30	<1	<1	<2	0.82	0.13	6
2025-01-13 15:30	<1	<1	<2	0.86	0.13	6
2025-01-20 15:30	<1	<1	<2	0.79	0.13	5

Water Sampling | Type: **GRAB** | Station Number: **RMD-272** | Address: **751 Catalina Crescent**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 15:30	<1	<1	<2	0.81	0.13	5
2025-02-03 15:30	<1	<1	<2	0.74	0.11	4
2025-02-10 15:30	<1	<1	<2	0.88	0.21	4
2025-02-18 15:30	<1	<1	<2	0.83	0.12	4
2025-02-24 15:30	<1	<1	2	0.86	0.12	4
2025-03-03 15:30	<1	<1	<2	0.86	0.12	5
2025-03-10 15:30	<1	<1	<2	0.94	0.13	6
2025-03-17 15:30	<1	<1	<2	0.80	0.11	7
2025-03-24 15:30	<1	<1	<2	0.99	0.11	6
2025-03-31 15:30	<1	<1	<2	0.81	0.14	7
2025-04-07 15:30	<1	<1	<2	0.78	0.14	8
2025-04-14 15:30	<1	<1	<2	0.63	0.13	8
2025-04-22 15:30	<1	<1	<2	0.77	0.17	9
2025-04-28 15:30	<1	<1	12	0.81	0.16	10
2025-05-05 15:30	<1	<1	2	0.74	0.13	10
2025-05-12 15:30	<1	<1	<2	0.82	0.19	11
2025-05-20 15:30	<1	<1	<2	0.82	0.15	11
2025-05-26 15:30	<1	<1	<2	0.91	0.13	12
2025-06-02 15:30	<1	<1	<2	0.71	0.12	12
2025-06-09 15:30	<1	<1	12	0.89	0.11	12
2025-06-16 15:30	<1	<1	6	0.69	0.14	13
2025-06-23 15:30	<1	<1	6	0.85	0.10	14
2025-06-30 10:40	<1	<1	8	0.77	0.08	14
2025-07-07 15:30	<1	<1	8	0.78	0.09	15
2025-07-14 15:30	<1	<1	14	0.86	0.09	15
2025-07-21 15:30	<1	<1	36	0.81	0.12	15.5
2025-07-28 15:30	<1	<1	44	0.82	0.11	16
2025-08-05 15:30	<1	<1	82	0.71	0.11	17
2025-08-11 15:30	<1	<1	160	0.94	0.08	17
2025-08-18 15:30	<1	<1	320	0.80	0.09	17
2025-08-25 15:30	<1	<1	180	0.91	0.09	17
2025-09-02 15:30	<1	<1	18	0.90	0.16	17
2025-09-08 15:30	<1	<1	160	0.78	0.14	18
2025-09-15 15:30	<1	<1	140	0.71	0.09	18
2025-09-22 15:30	<1	<1	160	0.66	0.10	18
2025-09-29 08:37	<1	<1	170	0.78	0.10	18
2025-10-06 15:30	<1	<1	40	0.99	0.10	16
2025-10-15 15:30	<1	<1	40	0.82	0.12	15
2025-10-20 15:25	<1	<1	20	0.84	0.14	14
2025-10-27 15:30	<1	<1	10	0.86	0.09	13
2025-11-03 15:30	<1	<1	<2	0.91	0.11	12
2025-11-10 09:00	<1	<1	40	0.87	0.08	12
2025-11-17 15:30	<1	<1	16	0.77	0.12	12
2025-11-24 15:30	<1	<1	12	0.81	0.08	10
2025-12-01 15:30	<1	<1	10	0.78	0.13	9
2025-12-08 15:30	<1	<1	30	0.98	0.10	10
2025-12-15 15:15	<1	<1	4	0.89	0.12	9
2025-12-22 15:15	<1	<1	NA	0.91	0.17	9
2025-12-29 15:15	<1	<1	NA	0.66	0.08	8
2025-01-06 12:45	<1	<1	<2	0.66	0.11	8
2025-01-13 12:45	<1	<1	<2	0.72	0.12	8
2025-01-20 12:45	<1	<1	<2	0.70	0.12	7

Water Sampling | Type: **GRAB** | Station Number: **RMD-273** | Address: **Across from 8331 Fairfax Place**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 12:45	<1	<1	<2	0.65	0.10	6
2025-02-03 12:45	<1	<1	<2	0.73	0.11	6
2025-02-10 12:45	<1	<1	<2	0.71	0.12	6
2025-02-18 12:45	<1	<1	<2	0.79	0.10	5
2025-02-24 12:45	<1	<1	<2	0.71	0.10	6
2025-03-03 12:45	<1	<1	2	0.65	0.11	8
2025-03-10 12:45	<1	<1	<2	0.73	0.11	8
2025-03-17 12:45	<1	<1	<2	0.64	0.10	8
2025-03-24 12:45	<1	<1	<2	0.79	0.12	9
2025-03-31 12:45	<1	<1	<2	0.65	0.13	10
2025-04-07 12:45	<1	<1	<2	0.75	0.16	11
2025-04-14 12:45	<1	<1	<2	0.69	0.12	12
2025-04-22 12:45	<1	<1	NA	0.66	0.12	14
2025-04-28 12:45	<1	<1	<2	0.66	0.11	12
2025-05-05 12:45	<1	<1	<2	0.63	0.11	15
2025-05-12 12:45	<1	<1	6	0.65	0.12	16
2025-05-20 12:45	<1	<1	<2	0.59	0.14	16
2025-05-26 12:45	<1	<1	2	0.64	0.12	17
2025-06-02 12:45	<1	<1	<2	0.67	0.11	18
2025-06-09 12:45	<1	<1	2	0.73	0.13	17
2025-06-16 12:45	<1	<1	<2	0.65	0.11	19
2025-06-23 12:45	<1	<1	<2	0.68	0.09	18
2025-06-30 07:50	<1	<1	8	0.48	0.13	18
2025-07-07 12:45	<1	<1	2	0.68	0.11	20
2025-07-14 12:45	<1	<1	12	0.60	0.09	21
2025-07-21 12:45	<1	<1	4	0.69	0.12	21
2025-07-28 12:45	<1	<1	4	0.57	0.10	22
2025-08-05 12:45	<1	<1	18	0.62	0.08	22
2025-08-11 12:45	<1	<1	<2	0.68	0.08	22
2025-08-18 12:45	<1	<1	6	0.60	0.12	22
2025-08-25 12:45	<1	<1	4	0.60	0.08	21
2025-09-02 12:45	<1	<1	24	0.63	0.08	22
2025-09-08 12:45	<1	<1	40	0.59	0.09	22
2025-09-15 12:45	<1	<1	490	0.54	0.10	21
2025-09-22 12:45	<1	<1	340	0.57	0.07	21
2025-09-29 09:07	<1	<1	50	0.55	0.08	19
2025-10-06 12:45	<1	<1	24	0.43	0.11	18
2025-10-15 12:45	<1	<1	16	0.62	0.11	16
2025-10-20 12:45	<1	<1	10	0.74	0.17	15
2025-10-27 12:45	<1	<1	<2	0.27	0.09	14
2025-11-03 12:45	<1	<1	40	0.75	0.13	13
2025-11-10 09:45	<1	<1	2	0.69	0.10	14
2025-11-17 12:45	<1	<1	10	0.67	0.21	12
2025-11-24 12:45	<1	<1	<2	0.72	0.12	11
2025-12-01 12:45	<1	<1	<2	0.63	0.11	11
2025-12-08 12:45	<1	<1	<2	0.81	0.11	10
2025-12-15 12:45	<1	<1	<2	0.83	0.09	11
2025-12-22 12:45	<1	<1	NA	0.80	0.17	9
2025-12-29 12:45	<1	<1	NA	0.70	0.08	8
2025-01-06 13:15	<1	<1	2	0.76	0.13	8
2025-01-13 13:15	<1	<1	<2	0.79	0.13	8
2025-01-20 13:15	<1	<1	<2	0.72	0.16	7

Water Sampling | Type: **GRAB** | Station Number: **RMD-274** | Address: **10920 Springwood Court**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-27 13:15	<1	<1	4	0.71	0.13	6
2025-02-03 13:15	<1	<1	<2	0.67	0.11	6
2025-02-10 13:15	<1	<1	<2	0.78	0.16	6
2025-02-18 13:15	<1	<1	<2	0.82	0.16	5
2025-02-24 13:15	<1	<1	<2	0.73	0.18	6
2025-03-03 13:15	<1	<1	2	0.66	0.14	7
2025-03-10 13:15	<1	<1	<2	0.72	0.20	8
2025-03-17 13:15	<1	<1	<2	0.77	0.11	8
2025-03-24 13:15	<1	<1	<2	0.98	0.20	8
2025-03-31 13:15	<1	<1	<2	0.65	0.19	9
2025-04-07 13:15	<1	<1	2	0.75	0.15	10
2025-04-14 13:15	<1	<1	<2	0.70	0.15	10
2025-04-22 13:15	<1	<1	NA	0.67	0.23	12
2025-04-28 13:15	<1	<1	<2	0.72	0.17	12
2025-05-05 13:15	<1	<1	4	0.67	0.17	13
2025-05-12 13:15	<1	<1	<2	0.70	0.16	14
2025-05-20 13:15	<1	<1	<2	0.64	0.15	14
2025-05-26 13:15	<1	<1	4	0.71	0.19	14
2025-06-02 13:15	<1	<1	2	0.67	0.12	15
2025-06-09 13:15	<1	<1	10	0.77	0.20	16
2025-06-16 13:15	<1	<1	10	0.63	0.12	16
2025-06-23 13:15	<1	<1	2	0.76	0.09	14
2025-06-30 08:20	<1	<1	2	0.63	0.09	16
2025-07-07 13:15	<1	<1	2	0.72	0.17	15
2025-07-14 13:15	<1	<1	2	0.75	0.08	17
2025-07-21 13:15	<1	<1	6	0.75	0.11	18
2025-07-28 13:15	<1	<1	4	0.64	0.10	18
2025-08-05 13:15	<1	<1	10	0.67	0.09	20
2025-08-11 13:15	<1	<1	<2	0.75	0.10	19
2025-08-18 13:15	<1	<1	<2	0.62	0.09	19
2025-08-25 13:15	<1	<1	<2	0.61	0.10	19
2025-09-02 13:15	<1	<1	<2	0.78	0.07	19
2025-09-08 13:15	<1	<1	10	0.70	0.11	19
2025-09-15 13:15	<1	<1	2	0.56	0.08	20
2025-09-22 13:15	<1	<1	8	0.56	0.07	18
2025-09-29 09:27	<1	<1	<2	0.56	0.09	18
2025-10-06 13:15	<1	<1	4	0.58	0.12	17
2025-10-15 13:15	<1	<1	NA	0.79	0.22	16
2025-10-20 13:15	<1	<1	2	0.80	0.14	15
2025-10-27 13:15	<1	<1	2	0.72	0.08	14
2025-11-03 13:15	<1	<1	<2	0.78	0.09	13
2025-11-10 10:15	<1	<1	6	0.82	0.10	12
2025-11-17 13:15	<1	<1	<2	0.71	0.15	11
2025-11-24 13:15	<1	<1	<2	0.72	0.08	11
2025-12-01 13:15	<1	<1	<2	0.74	0.12	10
2025-12-08 13:15	<1	<1	4	0.86	0.13	10
2025-12-15 13:15	<1	<1	<2	0.84	0.10	10
2025-12-22 13:15	<1	<1	NA	0.75	0.15	10
2025-12-29 13:15	<1	<1	NA	0.66	0.08	9
2025-01-03 10:45	<1	<1	14	0.38	1.1	8
2025-01-09 10:45	<1	<1	2	0.39	0.29	7
2025-01-17 10:55	<1	<1	2	0.57	0.43	7

Water Sampling | Type: **GRAB** | Station Number: **RMD-275** | Address: **5180 Smith Crescent**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-23 10:45	<1	<1	6	0.36	0.35	6
2025-01-31 10:55	<1	<1	<2	0.46	0.31	6
2025-02-06 10:55	<1	<1	<2	0.45	0.25	5
2025-02-14 11:15	<1	<1	2	0.62	4.10	4
2025-02-20 10:45	<1	<1	4	0.61	0.13	5
2025-02-28 10:30	<1	<1	<2	0.57	0.18	5
2025-03-06 11:00	<1	<1	<2	0.65	0.18	6
2025-03-14 10:55	<1	<1	<2	0.67	0.17	7
2025-03-20 10:55	<1	<1	<2	0.90	0.70	7
2025-03-28 10:55	<1	<1	2	1.07	0.46	7
2025-04-03 10:55	<1	<1	<2	0.85	0.31	7
2025-04-11 10:53	<1	<1	<2	0.95	0.32	7
2025-04-16 10:55	<1	<1	2	0.80	0.21	8
2025-04-25 10:55	<1	<1	<2	0.83	0.24	9
2025-05-01 10:55	<1	<1	<2	0.83	0.23	9
2025-05-09 11:00	<1	<1	<2	0.82	0.23	9
2025-05-15 10:55	<1	<1	<2	0.78	0.27	10
2025-05-23 11:00	<1	<1	<2	0.83	0.34	12
2025-05-29 10:55	<1	<1	<2	0.65	0.30	10
2025-06-06 10:45	<1	<1	2	0.57	0.35	11
2025-06-12 11:15	<1	<1	<2	0.85	0.22	12
2025-06-20 10:55	<1	<1	10	0.68	0.24	12
2025-06-26 11:00	<1	<1	<2	0.86	0.22	14
2025-07-04 10:55	<1	<1	<2	0.80	0.20	13
2025-07-10 10:55	<1	<1	18	0.80	0.14	13
2025-07-18 11:15	<1	<1	18	0.83	0.10	14
2025-07-24 10:55	<1	<1	14	0.63	0.26	14
2025-08-01 10:55	<1	<1	14	0.67	0.21	15
2025-08-07 10:45	<1	<1	14	0.71	0.15	15
2025-08-15 10:50	<1	<1	24	0.69	0.18	16
2025-08-20 15:15	<1	<1	NA	0.78	0.45	16
2025-08-29 12:15	<1	<1	10	0.65	0.25	17
2025-09-04 10:55	<1	<1	<2	0.60	0.22	17
2025-09-12 10:45	<1	<1	14	0.52	0.39	18
2025-09-18 10:45	<1	<1	<2	0.49	0.23	16
2025-09-26 10:55	<1	<1	2	0.52	0.44	16
2025-10-02 10:55	<1	<1	14	0.69	0.29	16
2025-10-10 11:10	<1	<1	4	0.35	0.43	16
2025-10-16 10:55	<1	<1	6	0.31	0.30	15
2025-10-24 10:45	<1	<1	10	0.25	0.33	14
2025-10-30 10:55	<1	<1	6	0.27	0.26	12
2025-11-07 10:55	<1	<1	6	0.31	0.23	12
2025-11-21 10:55	<1	<1	<2	0.25	0.29	10
2025-11-27 10:55	<1	<1	<2	0.57	0.49	10
2025-12-05 11:00	<1	<1	<2	0.23	0.29	9
2025-12-11 11:00	<1	<1	4	0.37	0.44	9
2025-12-19 10:45	<1	<1	<2	0.51	0.43	9
2025-12-23 12:35	<1	<1	NA	0.34	0.30	8
2025-01-03 10:30	<1	<1	<2	0.29	0.36	8
2025-01-09 10:30	<1	<1	2	0.28	0.23	8
2025-01-17 10:40	<1	<1	<2	0.48	0.24	7

Water Sampling | Type: GRAB | Station Number: RMD-276 | Address: 22271 Cochrane Drive

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-23 10:30	<1	<1	2	0.38	0.20	7
2025-01-31 10:40	<1	<1	2	0.35	0.22	6
2025-02-06 10:40	<1	<1	<2	0.41	0.24	6
2025-02-14 11:00	-	-	2	0.62	10.0	5
2025-02-20 10:30	<1	<1	<2	0.72	0.22	4
2025-02-28 10:45	<1	<1	<2	0.59	0.48	4
2025-03-06 10:45	<1	<1	<2	0.78	1.00	6
2025-03-14 10:40	<1	<1	<2	0.63	0.12	6
2025-03-20 10:40	<1	<1	<2	0.91	0.47	7
2025-03-28 10:40	<1	<1	<2	1.03	0.47	7
2025-04-03 10:40	<1	<1	<2	0.88	0.36	7
2025-04-11 10:40	<1	<1	<2	0.94	0.36	7
2025-04-16 10:40	<1	<1	8	0.83	0.29	8
2025-04-25 10:40	<1	<1	<2	0.84	0.20	9
2025-05-01 10:40	<1	<1	<2	0.73	0.21	10
2025-05-09 10:45	<1	<1	<2	0.73	0.23	9
2025-05-15 10:40	<1	<1	2	0.77	0.25	10
2025-05-23 10:45	<1	<1	<2	0.79	0.27	11
2025-05-29 10:40	<1	<1	<2	0.67	0.29	11
2025-06-06 10:30	<1	<1	6	0.74	0.45	11
2025-06-12 11:00	<1	<1	16	0.84	0.33	12
2025-06-20 10:40	<1	<1	14	0.65	0.19	13
2025-06-26 10:45	<1	<1	64	0.87	0.21	14
2025-07-04 10:40	<1	<1	22	0.75	0.22	13
2025-07-10 10:40	<1	<1	54	0.66	0.14	14
2025-07-18 11:00	<1	<1	18	0.65	0.16	16
2025-07-24 10:40	<1	<1	30	0.73	0.26	14
2025-08-01 10:40	<1	<1	24	0.63	0.15	16
2025-08-07 10:30	<1	<1	74	0.59	0.13	17
2025-08-15 10:40	<1	<1	24	0.53	0.19	17
2025-08-20 15:30	<1	<1	NA	0.42	0.20	18
2025-08-29 12:00	<1	<1	2	0.31	0.20	18
2025-09-04 10:40	<1	<1	20	0.41	0.22	17
2025-09-12 10:30	<1	<1	NA	0.34	0.23	18
2025-09-18 10:30	<1	<1	8	0.42	0.21	17
2025-09-26 10:40	<1	<1	16	0.41	0.30	17
2025-10-02 10:40	<1	<1	6	0.42	0.26	16
2025-10-10 12:45	<1	<1	42	0.38	2.20	15
2025-10-16 10:40	<1	<1	4	0.31	0.44	16
2025-10-24 10:30	<1	<1	10	0.28	0.32	14
2025-10-30 10:40	<1	<1	56	0.28	1.20	12
2025-11-07 10:40	<1	<1	6	0.30	0.22	12
2025-11-13 10:45	<1	<1	2	0.39	0.26	11
2025-11-21 10:40	<1	<1	<2	0.24	0.21	10
2025-11-27 10:40	<1	<1	2	0.31	0.50	10
2025-12-05 10:45	<1	<1	<2	0.22	0.21	10
2025-12-11 10:45	<1	<1	20	0.37	0.54	9
2025-12-19 10:35	<1	<1	16	0.58	0.33	9
2025-01-08 12:45	<1	<1	2	0.77	0.13	7
2025-01-15 12:45	<1	<1	<2	0.78	0.85	6
2025-01-22 13:00	<1	<1	<2	0.76	0.12	5

Water Sampling | Type: **GRAB** | Station Number: **RMD-277** | Address: **11280 Twigg Place**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 12:45	<1	<1	<2	0.76	0.22	5
2025-02-05 12:45	<1	<1	<2	0.83	0.12	5
2025-02-12 13:00	<1	<1	<2	0.72	0.12	5
2025-02-19 12:45	<1	<1	<2	0.82	0.11	5
2025-02-26 13:00	<1	<1	<2	0.64	0.12	6
2025-03-05 12:45	<1	<1	<2	0.69	0.17	5
2025-03-12 12:45	<1	<1	<2	0.89	0.21	6
2025-03-19 13:00	<1	<1	<2	0.78	0.14	7
2025-03-26 13:00	<1	<1	<2	0.85	0.12	8
2025-04-02 12:45	<1	<1	<2	0.87	0.16	8
2025-04-09 13:00	<1	<1	2	0.77	0.27	7
2025-04-15 12:45	<1	<1	2	0.76	0.20	9
2025-04-23 12:45	<1	<1	<2	0.83	0.16	9
2025-04-30 12:45	<1	<1	<2	0.75	0.24	9
2025-05-07 12:45	<1	<1	2	0.79	0.20	10
2025-05-14 12:45	<1	<1	<2	0.76	0.13	13
2025-05-21 12:45	<1	<1	<2	0.76	0.12	12
2025-05-28 12:45	<1	<1	4	0.74	0.17	13
2025-06-04 12:45	<1	<1	2	0.79	0.20	12
2025-06-11 12:45	<1	<1	2	0.73	0.16	12
2025-06-18 12:45	<1	<1	10	0.6	0.14	13
2025-06-25 12:45	<1	<1	2	0.69	0.10	15
2025-07-02 12:45	<1	<1	<2	0.64	0.12	15
2025-07-09 12:50	<1	<1	2	0.74	0.09	17
2025-07-16 12:45	<1	<1	<2	0.88	0.22	14
2025-07-23 12:45	<1	<1	2	0.75	0.10	15
2025-07-30 12:45	<1	<1	10	0.77	0.17	16
2025-08-06 12:45	<1	<1	10	0.77	0.10	16
2025-08-13 12:45	<1	<1	2	0.75	0.11	19
2025-08-21 12:45	<1	<1	NA	0.61	0.16	16
2025-08-27 12:25	<1	<1	<2	0.63	0.08	19
2025-09-03 12:50	<1	<1	2	0.61	0.08	20
2025-09-10 13:00	<1	<1	34	0.70	0.14	17
2025-09-17 12:45	<1	<1	12	0.70	0.12	18
2025-09-24 12:45	<1	<1	<2	0.81	0.09	18
2025-10-01 12:45	<1	<1	8	0.61	0.10	18
2025-10-08 12:45	<1	<1	2	0.78	0.12	15
2025-10-15 12:45	<1	<1	2	0.75	0.15	15
2025-10-22 13:00	<1	<1	4	0.70	0.15	13
2025-10-29 12:45	<1	<1	2	0.85	0.10	14
2025-11-05 13:00	<1	<1	6	0.90	0.12	11
2025-11-12 13:00	<1	<1	NA	0.75	0.10	12
2025-11-19 12:45	<1	<1	<2	0.63	0.14	11
2025-11-26 12:45	<1	<1	<2	0.65	0.11	11
2025-12-03 13:30	<1	<1	<2	0.69	0.17	10
2025-12-10 13:00	<1	<1	<2	0.84	0.11	9
2025-12-17 13:00	<1	<1	2	0.71	0.14	10
2025-12-23 07:35	<1	<1	NA	0.66	0.11	9
2025-12-30 08:30	<1	<1	NA	0.60	0.10	9
2025-01-08 13:35	<1	<1	<2	0.48	0.35	7
2025-01-15 13:35	<1	<1	<2	0.49	0.18	7
2025-01-22 13:35	<1	<1	2	0.53	0.13	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-278** | Address: **6651 Fraserwood Place**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 13:35	<1	<1	<2	0.54	0.13	6
2025-02-05 13:35	<1	<1	<2	0.43	0.14	6
2025-02-12 13:35	<1	<1	<2	0.43	0.18	5
2025-02-19 13:35	<1	<1	2	0.76	0.10	5
2025-02-26 13:35	<1	<1	<2	0.73	0.14	5
2025-03-05 13:35	<1	<1	<2	0.70	0.41	6
2025-03-12 13:35	<1	<1	<2	0.64	0.16	6
2025-03-20 10:50	<1	<1	12	0.59	0.75	8
2025-03-26 13:35	<1	<1	2	0.76	0.60	7
2025-04-02 13:35	<1	<1	<2	0.79	0.97	8
2025-04-09 13:35	<1	<1	<2	0.79	0.58	8
2025-04-15 13:35	<1	<1	10	0.71	0.23	10
2025-04-23 13:35	<1	<1	<2	0.72	0.29	9
2025-04-30 13:35	<1	<1	<2	0.66	0.30	10
2025-05-07 13:35	<1	<1	<2	0.76	0.26	10
2025-05-14 13:30	<1	<1	2	0.63	0.20	11
2025-05-21 13:35	<1	<1	6	0.74	0.20	11
2025-05-28 13:35	<1	<1	<2	0.61	0.31	12
2025-06-04 13:35	<1	<1	16	0.57	0.17	13
2025-06-11 13:35	<1	<1	18	0.56	0.19	14
2025-06-18 13:30	<1	<1	14	0.50	0.16	14
2025-06-25 13:35	<1	<1	4	0.54	0.19	15
2025-07-02 13:35	<1	<1	16	0.40	0.19	15
2025-07-09 13:40	<1	<1	4	0.63	0.08	16
2025-07-16 13:35	<1	<1	38	0.58	0.23	16
2025-07-23 13:35	<1	<1	30	0.30	0.16	17
2025-07-30 13:35	<1	<1	26	0.54	0.11	17
2025-08-06 13:35	<1	<1	60	0.49	0.11	18
2025-08-13 13:35	<1	<1	42	0.42	0.19	18
2025-08-21 13:35	<1	<1	NA	0.42	0.10	17
2025-08-27 12:50	<1	<1	<2	0.43	0.12	18
2025-09-03 13:50	<1	<1	10	0.35	0.20	19
2025-09-10 13:35	<1	<1	36	0.47	0.15	18
2025-09-17 13:35	<1	<1	10	0.33	0.19	18
2025-10-01 13:35	-	-	290	0.38	9.20	17
2025-10-08 13:35	<1	<1	8	0.30	0.39	16
2025-10-15 13:35	<1	<1	12	0.61	0.16	15
2025-10-22 13:35	<1	<1	2	0.55	0.15	14
2025-10-29 13:35	<1	<1	12	0.35	0.40	13
2025-11-05 13:30	<1	<1	<2	0.53	0.15	12
2025-11-12 13:35	<1	<1	6	0.38	0.33	11
2025-11-19 13:35	<1	<1	2	0.58	0.12	11
2025-11-26 13:35	<1	<1	8	0.58	0.12	10
2025-12-03 14:00	<1	<1	2	0.60	0.11	10
2025-12-10 13:30	<1	<1	2	0.72	0.11	9
2025-12-17 13:35	<1	<1	<2	0.50	0.14	9
2025-12-23 08:00	<1	<1	NA	0.60	0.23	9
2025-12-30 09:00	<1	<1	NA	0.65	0.08	7
2025-01-08 13:50	<1	<1	<2	0.72	0.17	6
2025-01-15 13:50	<1	<1	<2	0.74	0.23	6
2025-01-22 13:50	<1	<1	4	0.72	0.13	6

Water Sampling | Type: **GRAB** | Station Number: **RMD-279** | Address: **20371 Westminster Highway**

Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-29 13:50	<1	<1	2	0.77	0.13	4
2025-02-05 13:50	<1	<1	<2	0.74	0.11	4
2025-02-12 13:50	<1	<1	<2	0.64	0.14	3
2025-02-19 13:50	<1	<1	<2	0.80	0.19	5
2025-02-26 13:50	<1	<1	<2	0.71	0.11	4
2025-03-05 13:50	<1	<1	<2	0.62	0.12	5
2025-03-12 13:50	<1	<1	<2	0.71	0.11	5
2025-03-20 10:40	<1	<1	2	0.77	0.56	6
2025-03-26 13:50	<1	<1	<2	0.67	0.11	7
2025-04-02 13:50	<1	<1	<2	0.74	0.32	7
2025-04-09 13:50	<1	<1	<2	0.76	0.42	8
2025-04-15 13:50	<1	<1	<2	0.82	0.22	9
2025-04-23 13:50	<1	<1	<2	0.70	0.31	10
2025-04-30 13:50	<1	<1	<2	0.75	0.13	10
2025-05-07 13:50	<1	<1	<2	0.71	0.13	10
2025-05-14 13:45	<1	<1	6	0.74	0.26	11
2025-05-21 13:50	<1	<1	<2	0.75	0.16	11
2025-05-28 13:50	<1	<1	4	0.70	0.19	12
2025-06-04 13:50	<1	<1	2	0.74	0.17	12
2025-06-11 13:50	<1	<1	4	0.55	0.23	13
2025-06-18 13:50	<1	<1	<2	0.71	0.14	13
2025-06-25 13:50	<1	<1	4	0.63	0.09	14
2025-07-02 13:50	<1	<1	<2	0.67	0.11	13
2025-07-09 13:55	<1	<1	<2	0.73	0.08	13
2025-07-16 13:50	<1	<1	10	0.68	0.23	15
2025-07-23 13:50	<1	<1	6	0.70	0.09	16
2025-07-30 13:50	<1	<1	10	0.72	0.14	16
2025-08-06 13:50	<1	<1	2	0.64	0.12	17
2025-08-13 13:50	<1	<1	6	0.71	0.18	17
2025-08-21 13:50	<1	<1	NA	0.52	0.13	16
2025-08-27 13:00	<1	<1	6	0.68	0.08	17
2025-09-03 14:05	<1	<1	<2	0.74	0.12	17
2025-09-10 13:50	<1	<1	<2	0.69	0.13	18
2025-09-17 13:50	<1	<1	2	0.64	0.10	18
2025-09-24 13:50	<1	<1	<2	0.72	0.14	18
2025-10-01 13:50	<1	<1	<2	0.68	0.10	17
2025-10-08 13:50	<1	<1	<2	0.89	0.13	15
2025-10-15 13:50	<1	<1	2	0.92	0.13	14
2025-10-22 13:50	<1	<1	2	0.81	0.15	13
2025-10-29 13:50	<1	<1	<2	0.82	0.10	11
2025-11-05 13:50	<1	<1	10	0.79	0.14	10
2025-11-12 13:50	<1	<1	<2	0.79	0.12	10
2025-11-19 13:50	<1	<1	<2	0.68	0.21	10
2025-11-26 13:50	<1	<1	<2	0.73	0.11	9
2025-12-03 14:15	<1	<1	60	0.72	0.10	8
2025-12-10 13:45	<1	<1	<2	0.70	0.12	8
2025-12-17 13:50	<1	<1	<2	0.75	0.11	8
2025-12-23 08:15	<1	<1	NA	0.73	0.19	7
2025-12-30 09:20	<1	<1	NA	0.81	0.09	7
2025-01-03 08:15	<1	<1	<2	0.72	0.13	8
2025-01-09 08:15	<1	<1	2	0.76	0.14	8
2025-01-17 08:20	<1	<1	<2	0.59	0.14	7

Water Sampling | Type: **GRAB** | Station Number: **RMD-280** Address: **11500 McKenzie Road**

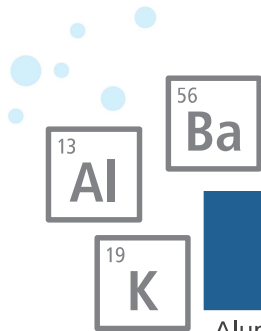
Sampled Date	Total Coliform (CFU/100 ml)	E.coli (CFU/100 ml)	HPC (CFU/ml)	Chlorine Free (mg/l)	Turbidity (NTU)	Temperature (C°)
2025-01-23 08:15	<1	<1	<2	0.95	0.10	7
2025-01-31 08:20	<1	<1	<2	0.78	0.12	6
2025-02-06 08:20	<1	<1	<2	0.66	0.13	6
2025-02-14 08:45	<1	<1	<2	0.92	0.12	5
2025-02-20 08:20	<1	<1	<2	0.73	0.12	5
2025-02-28 08:15	<1	<1	2	0.79	0.11	6
2025-03-06 08:45	<1	<1	<2	0.63	0.14	7
2025-03-14 08:20	<1	<1	<2	0.57	0.15	7
2025-03-20 08:20	<1	<1	<2	0.66	0.13	7
2025-03-28 08:20	<1	<1	10	0.71	0.11	8
2025-04-03 08:20	<1	<1	<2	0.61	0.13	9
2025-04-11 08:20	<1	<1	<2	0.80	0.11	9
2025-04-16 08:20	<1	<1	<2	0.75	0.15	9
2025-04-25 08:20	<1	<1	<2	0.70	0.15	10
2025-05-01 08:20	<1	<1	<2	0.47	0.15	12
2025-05-09 08:45	<1	<1	<2	0.73	0.12	12
2025-05-15 08:20	<1	<1	<2	0.54	0.14	13
2025-05-23 08:45	<1	<1	<2	0.69	0.18	12
2025-05-29 08:20	<1	<1	4	0.59	0.15	14
2025-06-06 08:15	<1	<1	<2	0.75	0.20	14
2025-06-12 08:45	<1	<1	8	0.59	0.11	15
2025-06-20 08:20	<1	<1	4	0.65	0.16	15
2025-06-26 08:45	<1	<1	8	0.48	0.09	15
2025-07-04 08:20	<1	<1	<2	0.73	0.11	15
2025-07-10 08:20	<1	<1	6	0.46	0.09	17
2025-07-18 08:30	<1	<1	4	0.74	0.10	17
2025-07-24 08:20	<1	<1	18	0.39	0.11	18
2025-08-01 08:20	<1	<1	4	0.59	0.13	18
2025-08-07 08:15	<1	<1	44	0.41	0.14	19
2025-08-15 08:20	<1	<1	6	0.62	0.08	18
2025-08-20 13:15	<1	<1	NA	0.68	0.09	18
2025-08-29 09:50	<1	<1	14	0.62	0.08	18
2025-09-04 08:20	<1	<1	38	0.46	0.10	19
2025-09-12 08:15	<1	<1	2	0.67	0.09	18
2025-09-18 08:15	<1	<1	6	0.65	0.15	19
2025-09-26 08:20	<1	<1	<2	0.68	0.08	18
2025-10-02 08:20	<1	<1	10	0.49	0.11	18
2025-10-10 08:30	<1	<1	<2	0.81	0.11	15
2025-10-16 08:20	<1	<1	<2	0.68	0.11	14
2025-10-24 08:15	<1	<1	6	0.81	0.22	15
2025-10-30 08:20	<1	<1	6	0.81	0.26	12
2025-11-07 08:20	<1	<1	<2	0.76	0.19	11
2025-11-13 08:45	<1	<1	2	0.79	0.16	10
2025-11-21 08:20	<1	<1	<2	0.72	0.13	10
2025-11-27 08:20	<1	<1	<2	0.88	0.41	10
2025-12-05 08:30	<1	<1	4	0.53	0.22	9
2025-12-11 08:45	<1	<1	2	0.76	0.16	10
2025-12-19 08:45	<1	<1	<2	0.72	0.23	9
2025-12-23 10:55	<1	<1	NA	0.73	0.17	8

Appendix B | 2025 Trihalomethanes (THMs) and Haloacetic Acids (HAAs) Test Results

THM (ppb) Sample	Sampled Date	Bromodi-chloromethane	Bromoform	Chlorodibromomethane	Chloroform	Total Trihalomethanes	Total THM Quarterly Average (Guideline Limit 100 ppb)
RMD 250	2025-01-29	<1	<1	<1	24	24	29
	2025-05-07	<1	<1	<1	29	29	29
	2025-09-10	<1	<1	<1	29	30	29
	2025-11-19	<1	<1	<1	36	37	28
RMD 251	2025-01-29	<1	<1	<1	25	25	30
	2025-05-07	<1	<1	<1	30	30	30
	2025-09-10	<1	<1	<1	27	28	29
	2025-11-19	<1	<1	<1	38	38	28
RMD 258	2025-01-29	<1	<1	<1	25	26	32
	2025-05-07	<1	<1	<1	30	31	32
	2025-09-10	1	<1	<1	34	35	32
	2025-11-19	<1	<1	<1	36	36	31
RMD 259	2025-01-29	<1	<1	<1	25	26	32
	2025-05-07	<1	<1	<1	30	31	32
	2025-09-10	<1	<1	<1	28	29	31
	2025-11-19	<1	<1	<1	35	36	29

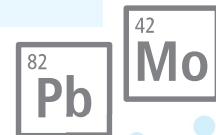
HAA (ppb)							
Sample	Dibromo- acetic Acid	Dichloro- acetic Acid	Monobro- moacetic Acid	Monochloro- acetic Acid	Trichloro- acetic Acid	Total Halo- acetic Acid	Total HAA Quarterly Average (Guideline Limit 80 ppb)
RMD 250	<0.5	12	<0.5	<0.5	9.3	22	21
	<0.5	13	<0.5	1.7	25	18	18
	<0.5	8.5	<0.5	<5.0	4.9	21	17
	<0.5	17	<0.5	<5.0	13	18	15
RMD 251	<0.5	12	<0.5	<0.5	9.8	22	22
	<0.5	13	<0.5	<0.5	24	11	19
	<0.5	8.5	<0.5	<5.0	4.7	13	18
	<0.5	17	<0.5	<5.0	13	31	15
RMD 258	<0.5	13	<0.5	<0.5	9.6	22	22
	<0.5	15	<0.5	1.6	29	13	20
	<0.5	9.5	<0.5	<5.0	6.9	16	19
	<0.5	17	<0.5	<5.0	13	30	17
RMD 259	<0.5	13	<0.5	<0.5	9.9	23	22
	<0.5	14	<0.5	<0.5	25	11	19
	<0.5	9.3	<0.5	<5.0	5.8	15	19
	<0.5	16	<0.5	<5.0	13	29	16

Appendix C | 2025 Metal Level Guidelines



Parameter	Canadian Guideline Limit	Reason Guideline Established	Guideline Recently Updated
Aluminium Total (µg/L)	2900	Health	2021
Antimony Total (µg/L)	6	Health	2024
Arsenic Total (µg/L)	10 (ALARA)	Health	
Barium Total (µg/L)	2000	Health	2020
Boron Total (µg/L)	5000	Health	2023
Cadmium Total (µg/L)	7	Health	2020
Calcium Total (µg/L)	none		
Chromium Total (µg/L)	50	Health	2018
Cobalt Total (µg/L)	none		
Copper Total (µg/L)	2000	Health	2019
Iron Total (µg/L)	≤ 300	Aesthetic	
Lead Total (µg/L)	5 (ALARA)	Health	2019
Magnesium Total (µg/L)	none		
Manganese Total (µg/L)	120	Health	2019
Mercury Total (µg/L)	1.0	Health	
Molybdenum Total (µg/L)	none		
Nickel Total (µg/L)	none		
Potassium Total (µg/L)	none		
Selenium Total (µg/L)	50	Health	
Silver Total (µg/L)	none		
Sodium Total (µg/L)	≤ 200,000	Aesthetic	
Zinc Total (µg/L)	≤ 5000	Aesthetic	

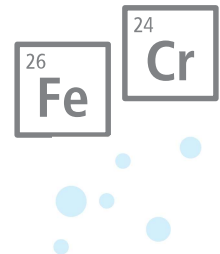
Guidelines Checked July 16, 2025
(ALARA)= As Low As Reasonably Achievable



Appendix D | 2025 Metal Testing Results

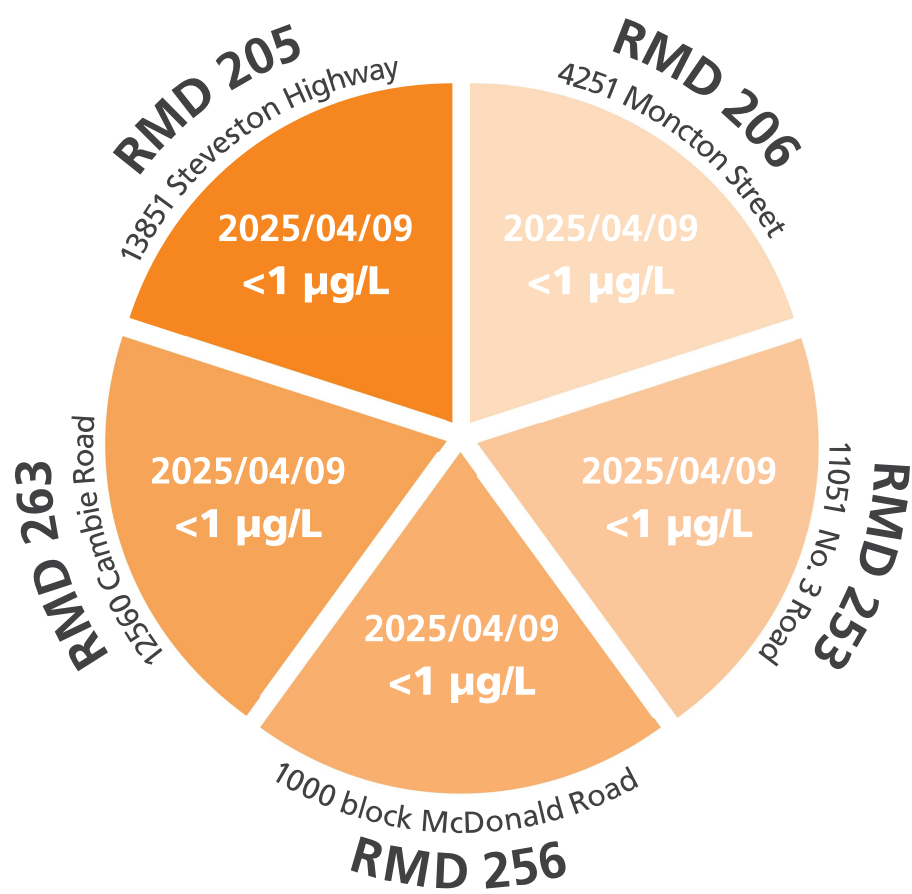


Analysis	Units	RMD 250 6071 Azure Road		RMD 257 6640 Blundell Road		RMD 263 12560 Cambie Road	
		2025-06-18	2025-12-10	2025-06-18	2025-12-10	2025-06-18	2025-12-10
Aluminum Total	µg/L	24	33	23	34	27	34
Antimony Total	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic Total	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Barium Total	µg/L	2.7	3.2	2.6	3.3	2.7	3.3
Boron Total	µg/L	<10	<10	<10	<10	<10	<10
Cadmium Total	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Calcium Total	µg/L	7700	9020	7520	9020	7340	8950
Chromium Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cobalt Total	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Copper Total	µg/L	0.7	0.7	1.6	1.4	0.9	0.8
Iron Total	µg/L	6	<5	5	<5	6	5
Lead Total	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Magnesium Total	µg/L	163	175	159	174	159	171
Manganese Total	µg/L	1.8	1.7	1.8	1.8	2	2
Mercury Total	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Molybdenum Total	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel Total	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Potassium Total	µg/L	145	159	145	158	144	157
Selenium Total	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver Total	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sodium Total	µg/L	2110	1710	2140	1720	2540	1650
Zinc Total	µg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

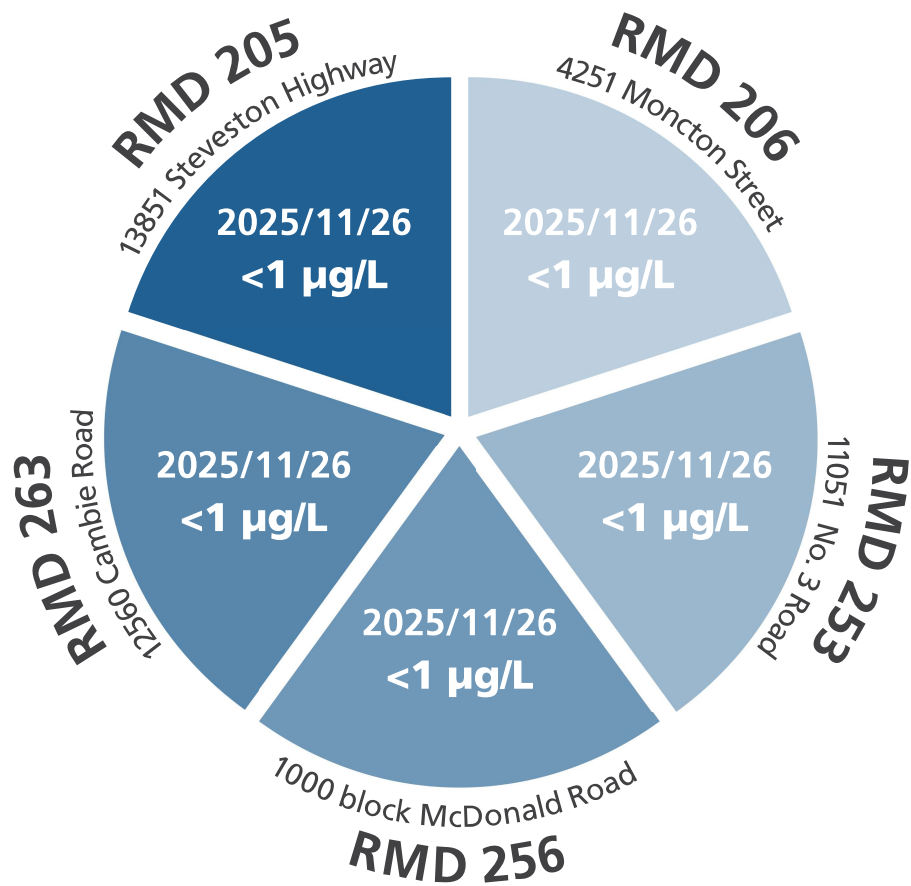


Appendix E | 2025 Vinyl Chloride Results

April 2025



November 2025



Appendix F | Water Quality Testing Parameters

Weekly sampling is conducted at 40 specific locations throughout the City of Richmond. Sample testing is conducted at Metro Vancouver laboratories to ensure the City's drinking water meets the standards and parameters outlined in the British Columbia Drinking Water Protection Act. Testing is based on the parameters outlined below. Detailed testing results based on these parameters are included in Appendices A through G.

1. Bacterial Parameters

The City of Richmond and Metro Vancouver conduct bacteriological tests for total coliform, fecal coliform and heterotrophic plate counts (HPC). The presence of these organisms in drinking water indicates that the water may be contaminated and may contain potentially harmful bacteria, viruses or parasites.

TOTAL COLIFORMS

Total coliform bacteria reproduce in water, soil or digestive systems of animals. The presence of total coliforms indicates water may have been contaminated or that the disinfection process is inadequate. The number, frequency and location of samples for total coliform testing will vary depending on the type and size of the system and jurisdictional requirements. Provincial standards state that no sample contain more than 10 total coliforms per 100 ml, and that 90% of samples must have zero coliform bacteria in a sample over a 30-day period.

FECAL COLIFORMS

Fecal coliforms are present in large numbers in the feces and intestinal tracts of humans and other warm-blooded animals, and can enter bodies of water and water systems through contamination by human and animal waste. Due to the high risk of diseases and parasites, provincial standards state there can be no detectable fecal coliforms per 100 ml sample.

HETEROTROPHIC PLATE COUNT

HPC tests measure the level of the heterotrophic micro-organism population in the City's drinking water. HPC tests indicate the presence of nutrients that could facilitate the growth of harmful bacteria, and can be a sign of changes in water quality if levels are elevated during treatment and distribution. Higher than normal HPC levels inform operators that there is an unusual increase of stagnant water or low chlorine residuals in the water mains. By reducing the HPC levels through our flushing programs, the possibility of bacteriological growth is decreased because the pipes become an inhospitable environment for bacteria to thrive. The small amount of free chlorine residual in our water also disinfects and eliminates harmful substances within our distribution system.

2. Chemical Parameters

Testing is done for chemicals in the water to ensure the proper amount of chlorine is in the system, to confirm that by products from the disinfection process do not remain in the water and to ensure that naturally occurring chemicals in the water are at acceptable levels.

CHLORINE RESIDUAL

Chlorine residual is a measurement of the free chlorine remaining in the distribution system at the point of delivery to the customer. Chlorine is added to our drinking water by Metro Vancouver as part of the disinfection process to prevent bacterial growth during distribution. When the source lakes experience high turbidity (e.g., during a storm), Metro Vancouver will increase the chlorine that is added to the water at its plants to ensure that the water quality is maintained despite the higher-than-desired turbidity. Typically, the slightly higher concentration of free chlorine in the system dissipates by the time it reaches our system. Sometimes the higher concentration remains in the system and can cause a chlorine taste and smell in the water. Despite the increased chlorine, the water is still safe to drink.

There also needs to be a minimum level of chlorine residual to protect Richmond's water supply from bacteriological contamination or growth. The minimum parameter for free chlorine residual in the water is 0.2 mg/L. In recent years, the City has made great progress in improving chlorine residuals by executing our annual flushing program to clean and flush the watermains.

DISINFECTION BY PRODUCTS

Disinfection by products are potentially harmful compounds produced by the reaction of a water disinfectant (such as chlorine or ozone) with naturally occurring organic matter in water. Two common chlorination by products are trihalomethanes (THMs) and haloacetic acids (HAAs).

THMs that are present in drinking water can enter the human body via multiple routes of exposure. These include

ingestion by consuming water and inhalation, and skin absorption from showering and bathing. Under the Guidelines for Canadian Drinking Water Quality (GCDWQ), the maximum acceptable concentration for THMs is 100 parts per billion (ppb). The maximum level for THMs is based on a running annual average of samples taken every three months. High levels on a particular day are not of concern unless they are consistently high over the latest four samples. Typically, THM levels will be highest in the summer and lowest in the winter months.

Under the GCDWD, the maximum acceptable concentration for HAAs is 80 ppb. Like THMs, HAAs are also monitored quarterly and are calculated on a running annual average of samples taken every three months.

The City utilizes the Metro Vancouver laboratory to perform quarterly tests for HAAs and THMs. These were carried out at representative sampling sites in accordance with a joint Metro Vancouver and City of Richmond monitoring plan.

ACIDITY (PH VALUE)

The measurement of acidity is known as pH. A pH below 7.0 is considered acidic, above 7.0 is considered basic and 7.0 is neutral. It is recognized that acidic water will accelerate the corrosion of metal pipes, often causing blue-green staining in household fixtures.

The acidity of our water is controlled by Metro Vancouver. The Seymour-Capilano filtration plant includes pH adjustment and corrosion control in its treatment processes. It is expected that the pH of drinking water will rise in the coming years as the filtration plant reaches its full capacity. Since natural acidity in water corrodes metal pipes over time, the pH increase will extend the lifespan of water plumbing systems and enhance water quality.

METALS

The City's water quality program also includes testing for metals that can be present in natural water sources, including copper, iron, lead and zinc.



Multiple water samples are collected and tested every week.

3. Physical Parameters

The water in Richmond's distribution system is tested for turbidity and temperature on a weekly basis. Information is also collected on the taste and odour of Richmond's water by actively tracking water quality complaints.

TURBIDITY

Turbidity is a measure of water clarity and cloudiness in the water, and is caused by dissolved substances that are present in the water. Turbidity is measured in Nephelometric Turbidity Units (NTU). The guideline for turbidity should not exceed 5 NTUs in a distribution system providing that source water protection, monitoring and water treatment requirements are met, including increased levels of residual chlorine. Turbidity is a concern because increased turbidity compromises the drinking water disinfection process and can allow microbes to grow or indicate that there is a presence of microbes in the system.

In general, sites with elevated turbidity are located in sections of the distribution network where there is low demand on the water system or where dead-end watermain exists. The increase may be attributed to sediment disturbance in the distribution system.

TEMPERATURE

High temperatures in the distribution system can affect the amount of chlorine residual and can contribute to bacterial growth. Typically, the temperature of drinking water in the distribution system rises during summer months.

TASTE AND ODOUR

Taste and odour are monitored through customer complaints. If the water quality meets all the other parameters set out in this report, the taste and odour of the water should not change. Most of the time the different taste and odour will be the result of an increase in free chlorine, which is safe to drink. However, it's important for the City and Water Services staff to track and react to complaints because it could mean that contamination has occurred somewhere in the system.

Appendix G | Water Sampling Sites

MONDAY

RMD-250	6071 Azure Road
RMD-251	5951 McCallan Road
RMD-252	9751 Pendleton Road
RMD-253	11051 No. 3 Road
RMD-254	5300 No. 3 Road
RMD-255	6000 block Miller Road
RMD-256	1000 block McDonald Road
RMD-269	14951 Triangle Road
RMD-270	8200 Jones Road
RMD-271	3800 Cessna Drive
RMD-272	751 Catalina Crescent
RMD-273	Across from 8331 Fairfax Place
RMD-274	10920 Springwood Court

WEDNESDAY

RMD-257	6640 Blundell Road
RMD-258	7000 block Dyke Road
RMD-259	10020 Amethyst Avenue
RMD-260	11111 Horseshoe Way
RMD-261	9911 Sidaway Road
RMD-262	13799 Commerce Parkway
RMD-263	12560 Cambie Road
RMD-264	13100 Mitchell Road
RMD-266	9380 General Currie Road
RMD-268	13800 No. 3 Road
RMD-277	Across from 11280 Twigg Place
RMD-278	6651 Fraserwood Place
RMD-279	Across from 20371 Westminster Highway

FRIDAY

RMD-202	1500 Valmont Way
RMD-203	23260 Westminster Highway
RMD-204	3180 Granville Avenue
RMD-205	13851 Steveston Highway
RMD-206	4251 Moncton Street
RMD-208	13200 No. 4 Road
RMD-212	Across from 8600 Ryan Road
RMD-214	11720 Westminster Highway
RMD-216	11080 No. 2 Road
RMD-249	23000 block Dyke Road
RMD-267	17240 Fedoruk Road
RMD-275	5180 Smith Crescent
RMD-276	22271 Cochrane Drive
RMD-280	11500 McKenzie Road



Testing for sufficient levels of chlorine in water system.

Appendix H | Specific Emergency Response Plans

Specific Emergency Response Plans

Positive Response for E. Coli or Fecal Coliform

In the event of possible E. coli or fecal coliform contamination, all steps to ensure public health and safety will be taken, including banning water usage if necessary. If a water sample tests positive for fecal coliform, the following response plan will occur.

- **The City of Richmond's water quality staff, the Drinking Water Officer and the Medical Health Officer will be notified by the Metro Vancouver laboratory.**
- **Interim samples from the site will be examined. Interim samples are samples in the period between when the fecal positive sample was taken and when it was determined to be fecal positive.**
- **Arrangements will be made for the immediate collection of a repeat sample, including, where possible, samples from upstream and downstream sources of the fecal-positive sample.**
- **Chlorine residual for the sample noted on the sampler's data sheet will be reviewed to determine if a localized loss of disinfectant occurred.**
- **Water Services staff will be contacted to determine if there was any loss of pressure or other unusual events that may have led to contaminants entering the system.**
- **Vancouver Coastal Health's Drinking Water Officer and the Medical Health Officer, in consultation with the City, will determine if a Boil Water Notice or other public advisory is required.**
- **Vancouver Coastal Health will provide direction on public health measures as well as support public and media communications.**
- **Any notice or advisory will remain in effect until Vancouver Coastal Health is satisfied that the public health risk has been mitigated.**
- **The Metro Vancouver laboratory will initiate procedures to identify species of the fecal positive organism with standard biochemical tests.**
- **The Medical Health Officer will be contacted with the repeat sample results and the results of the species identification on the fecal positive sample when these tests are complete.**

Staff collecting a water sample in a vial for testing.





A variety of tools are used to test water quality.

Chemical or Biological Contamination Response

In the event of chemical or biological contamination in source waters or the City's distribution system, the following actions will be taken by the City of Richmond and Metro Vancouver:

- **Immediately notify Vancouver Coastal Health.**
- **Identify the chemical and any public health risk factors associated with its presence in potable water.**
- **Isolate the contaminated zone area and determine the level of contamination.**
- **Issue a public advisory in consultation with the Drinking Water Officer and Medical Health Officer.**
- **In the event of possible biological or chemical contamination, all steps to safety will be taken to ensure public health, including banning water usage if necessary.**
- **If required, Vancouver Coastal Health will provide direction on the appropriate public health measures as well as support public and media communications.**

Turbidity Response

Turbidity (cloudy water) occurs during periods of heavy rain at and surrounding Metro Vancouver water sources. The City of Richmond, in collaboration with Vancouver Coastal Health, developed a turbidity response plan, which considers the City's responsibility for due diligence without unreasonably constraining the water utility's ability to operate the system.

Should there be a turbidity event, the results will be assessed and staff will:

- **begin a rigorous sampling program for microbiological activity and residual chlorine;**
- **monitor the City's supervisory control and data acquisition (SCADA) system with updates sent to Vancouver Coastal Health on a predetermined schedule;**
- **flush areas and re-test; and**
- **if necessary (in consultation with Vancouver Coastal Health), issue a public communication and issue a boil-water advisory to residents receiving turbid water.**

Response to Interruption of Primary and/or Secondary Disinfection

Upon notification by Metro Vancouver Operations that an interruption in disinfection has occurred, City staff implement several response measures.

- **Staff will monitor residual levels of chlorine at strategic locations in the Metro Vancouver supply area.**
- **The City's SCADA system will be monitored, with updates sent to Vancouver Coastal Health on a predetermined schedule, as set by the health authority.**
- **In cases where chlorine residual is less than 0.2 ppm, City crews will flush the affected area until an acceptable level is achieved.**

These actions will continue until disinfection is resumed and adequate levels of residual chlorine have been reached in the distribution system.

Response to Loss of Pressure Due to High Demand

Staff will implement several response measures in the event of a pressure loss due to high demand.

- **City staff will attempt to rectify the problem as soon as possible using various demand management techniques and by supplementing supply to problem areas.**
- **Metro Vancouver, the Drinking Water Officer and the Medical Health Officer will be notified of any water quality issues.**
- **City staff will perform chlorine residual tests at various locations to determine if adequate disinfectant is present in the distribution.**

All water quality complaints from the public will be thoroughly investigated due to the potential for water contamination during times of low water pressure.

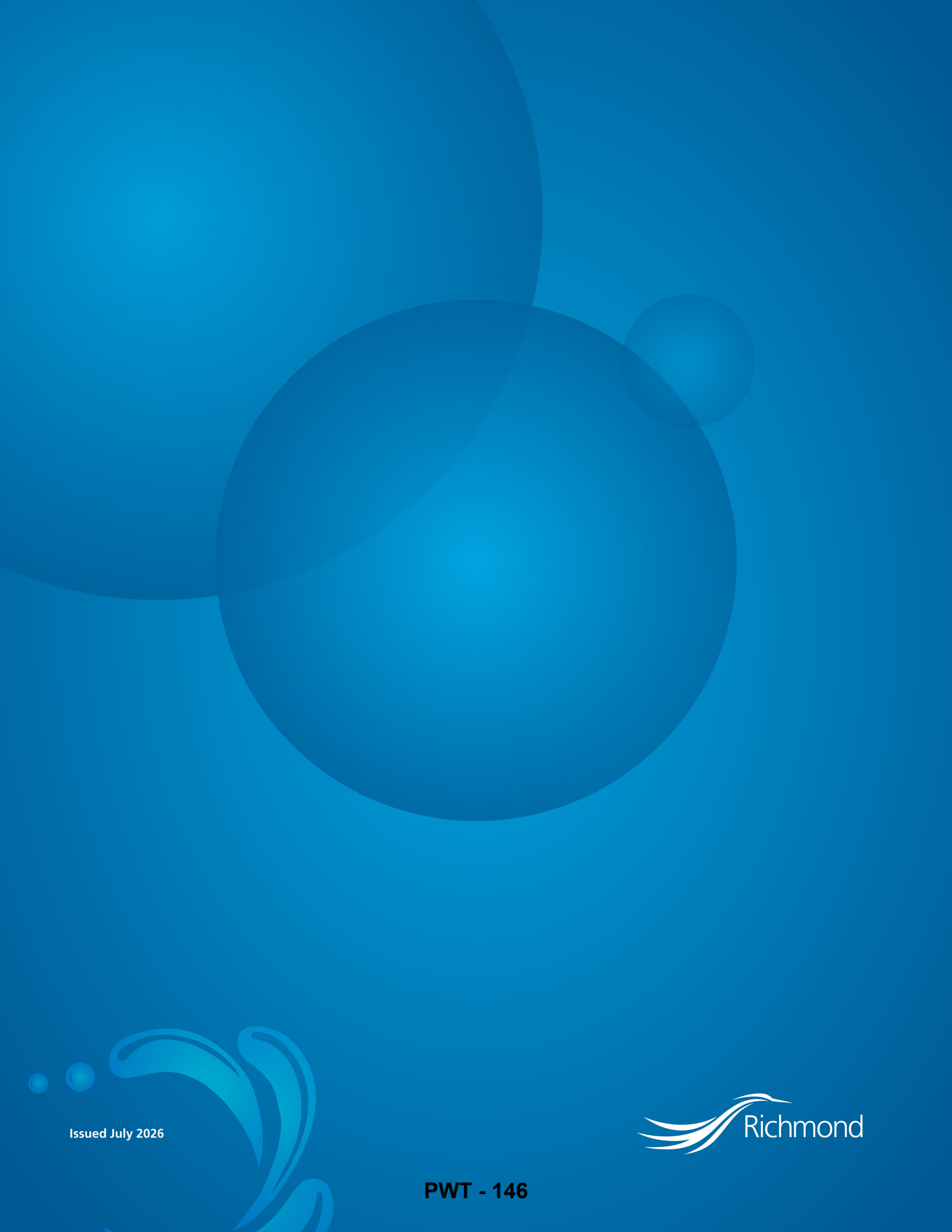
RESPONSE TO WATERMAIN BREAKS WITH SUSPECTED CONTAMINATION

- **All watermain breaks where chemical or microbiological contamination of the system are suspected will be immediately reported to the Drinking Water Officer and the Medical Health Officer.**
- **The municipality will isolate the contaminated section from the rest of the distribution system. Once the watermain has been repaired, chlorine residual testing will be conducted at various locations affected by the main break.**

If low chlorine residuals are found, necessary actions to increase the levels of free chlorine will be carried out. If bacterial contamination is suspected, water samples will be analyzed and appropriate action taken.

Appendix I | References

1. Government of Canada – Canadian Drinking Water Guidelines
www.hc-sc.gc.ca/ewh-semt/water-eau/drink-potab/index_e.html
2. BC Drinking Water Protection Act (2020)
www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/01009_01
3. BC Laws – Schedule A Water Quality Standard for Potable Water
www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/200_2003#ScheduleA
4. Government of British Columbia – Source Drinking Water Quality Guidelines
www2.gov.bc.ca/assets/gov/environment/air-land-water/water/waterquality/water-quality-guidelines/approved-wqgs/drinking-water-and-recreation/source_drinking_water_quality_guidelines_bcenv.pdf
4. Government of British Columbia – Drinking Water Officers Guide
www2.gov.bc.ca/gov/content/environment/air-land-water/water/water-quality/drinking-water-quality/drinking-water-officers-guide
5. Government of British Columbia – Legislation – Drinking Water Protection Act
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6. Metro Vancouver – Water Services
metrovancover.org/services/water
7. Metro Vancouver – Drinking Water Treatment Facilities
metrovancover.org/services/water/water-treatment-facilities
8. Metro Vancouver – Coquitlam UV Disinfection Project
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9. Metro Vancouver – Seymour-Capilano Filtration Project
metrovancover.org/services/water/Documents/seymour-capilano-filtration-plant-brochure-2016.pdf
10. Metro Vancouver – We Love Water
www.metrovancover.org/welovewater/Pages/default.aspx
11. City of Richmond – Hot Facts
www.richmond.ca/culture/discover-richmond/profile/demographics.htm





To:	Public Works and Transportation Committee	Date:	June 29, 2026
From:	Roeland Zwaag General Manager, Engineering and Public Works	File:	10-6125-30-010/Vol 01
Re:	Tilbury Phase 2 Liquefied Natural Gas (LNG) Expansion Project		

Staff Recommendation

That the comments on the “Tilbury Phase 2 LNG Expansion Project”, as outlined in Attachment 2, be endorsed for submission to the BC Environmental Assessment Office as part of the public comment period.

Executive Summary

The purpose of this report is to provide Council with an update on FortisBC’s proposed Tilbury Phase 2 LNG Expansion Project (the Project), which has advanced to the Effects Assessment phase of the provincial environmental assessment process led by the BC Environmental Assessment Office on behalf of both the Province and the Impact Assessment Agency of Canada. The Project proposes to expand FortisBC’s existing Tilbury LNG facility in Delta through construction of a new LNG storage tank, additional liquefaction capacity and supporting infrastructure including utilities, pipelines and marine fueling infrastructure.

Council has previously expressed opposition to the Project and identified concerns related to environmental protection, cumulative effects, transportation, infrastructure, emergency management and public engagement. City staff continue to participate in the environmental assessment process as members of the Technical Advisory Committee to ensure municipal interests are represented.

A public comment period is scheduled from June 25, 2026, to July 27, 2026. Attachment 2 provides comments for Council’s consideration for submission to the BC Environmental Assessment Office during this period.

Staff Report

Origin

The purpose of this report is to provide Council with an update on FortisBC's proposed Tilbury Phase 2 LNG Expansion Project (the Project), which is currently under review by the BC Environmental Assessment Office (BC EAO), and to advise Council of the ongoing environmental assessment process, recent City participation, and the public comment period associated with the Effects Assessment phase, including proposed City comments for submission to the BC EAO.

The Project proposes to expand FortisBC's existing Tilbury LNG facility in Delta through the construction of a new liquefied natural gas (LNG) storage tank, additional liquefaction capacity and supporting infrastructure including utilities, pipelines and marine fueling infrastructure.

This report supports Council's Strategic Plan 2022–2026 Focus Area #1 Proactive in Stakeholder and Civic Engagement:

Proactive stakeholder and civic engagement to foster understanding and involvement and advance Richmond's interests.

Analysis

FortisBC is proposing an expansion of its existing LNG facility located on Tilbury Island in Delta through the Tilbury Phase 2 LNG Expansion Project. The Project includes construction of a new LNG storage tank, additional liquefaction facilities and supporting infrastructure upgrades intended to expand LNG storage and production capacity. The expanded facility is expected to support regional energy resiliency, marine fueling operations and future energy demand over an operational life exceeding 40 years.

The Project is undergoing a coordinated environmental assessment process led by the BC EAO on behalf of both the Province and the Impact Assessment Agency of Canada (IAAC) under a substitution agreement. Under this process, the provincial environmental assessment process substitutes the federal impact assessment process to streamline the review.

The Project requires both provincial and federal environmental assessment review due to the proposed increase in LNG storage and processing capacity exceeding regulatory thresholds. Provincially, the Project is reviewable because it would increase LNG storage by more than 136,000 m³, which exceeds the threshold set out in British Columbia's Reviewable Projects Regulation. Federally, the Project also triggers assessment because it would increase LNG processing capacity by more than 50 per cent, bringing total processing capacity above 10,000 tonnes per day, as identified in the Physical Activities Regulations.

Environmental Assessment Process Update

On March 27, 2026, the BC EAO accepted FortisBC's revised Environmental Assessment Application and initiated the Effects Assessment phase of the environmental assessment process.

The revised application incorporated feedback received during the Application Review phase from Indigenous Nations, government agencies, Technical Advisory Committee (TAC) members, stakeholders and the public. The Effects Assessment phase includes review of the Project's potential environmental, social, economic, health and cultural effects, along with proposed mitigation measures and draft Environmental Assessment Certificate conditions.

On April 28, 2026, the Province designated the Project as a priority major project under its Look West economic strategy. The Project was one of 17 major projects added to the priority list, representing approximately \$88 billion in proposed investment over the next three years. The designation is intended to streamline permitting and approvals processes and support economic development. Attachment 1 provides an overview of the environmental assessment process and key milestones completed to date.

Participation History

Since the Project entered the environmental assessment process, the City has participated as a member of TAC and provided comments to the BC EAO regarding municipal interests, potential project effects, and the adequacy of the assessment process.

In July 2020, Richmond City Council formally expressed its opposition to the Project and identified a range of concerns requiring continued attention through the environmental assessment and regulatory review processes. In November 2023, the City reaffirmed its opposition to the Project in correspondence to the BC EAO and FortisBC, citing concerns regarding the potential environmental and socio-economic impacts of the Project, while continuing to participate in the environmental assessment process. Council's concerns focused on both the environmental assessment process and the potential environmental, social and infrastructure-related effects of the Project.

Key areas of municipal interest and concern include:

- the adequacy of public engagement in Richmond during the environmental assessment process, including the absence of an in-person public engagement event in Richmond;
- the cumulative effects of the Project in combination with other major regional projects, particularly with respect to the Fraser River estuary, sensitive ecosystems, flood resilience, and transportation systems;
- potential effects related to air quality, greenhouse gas emissions, as well as LNG transport and storage;
- the adequacy of proposed climate resilience measures;
- potential effects on traffic, local infrastructure, and community conditions during construction and operations; and
- potential effects on the Fraser River and adjacent ecological values, including water quality, fish and wildlife habitat, and broader ecological functions.

Through the environmental assessment process, FortisBC and the BC EAO have responded to concerns raised by participating agencies, Indigenous Nations and local governments through revisions to the application, additional technical studies, proposed mitigation measures and draft environmental assessment conditions. Staff continue to review these materials to determine the extent to which municipal concerns have been addressed.

Air quality and human health considerations continue to be reviewed through the environmental assessment process. Participating agencies, including Vancouver Coastal Health, have recommended air quality monitoring, public notification and appropriate mitigation measures to address potential effects associated with Project operations.

While Council has previously expressed opposition to the Project, staff continue to engage in the environmental assessment process to ensure municipal interests are represented through review of proposed conditions, mitigation measures, monitoring requirements and management plans, and to advocate for measures that avoid, mitigate or address potential impacts to Richmond.

Public Comment Period

As part of the Effects Assessment phase, the BC EAO opened an additional public comment period on June 25, 2026, which closes on July 27, 2026. During this period, the public, Indigenous Nations, stakeholders and agencies will have the opportunity to review and provide comments on:

- the Draft Assessment Report;
- the Draft Environmental Assessment Certificate, including proposed Environmental Assessment Certificate conditions;
- the Joint Permitting and Regulatory Coordination Plan;
- the Regulatory Coordination Issues Tracking Table; and
- the draft federal conditions.

The Draft Assessment Report summarizes the BC EAO's assessment of the Project and its potential environmental, social, economic, health and cultural effects. The Draft Environmental Assessment Certificate and associated conditions establish the legally binding requirements that would apply to the Project if approved. The public comment period is the final formal public engagement opportunity prior to completion of the environmental assessment process and preparation of recommendations to provincial decision-makers.

Attachment 2 outlines comments for Council's consideration for submission to the BC EAO as part of the current public comment period.

Following the public comment period, the BC EAO will finalize the Assessment Report and referral package for consideration by provincial decision-makers. A decision on the Environmental Assessment Certificate is anticipated later in 2026.

Next Steps

City staff will continue to participate on the TAC and represent municipal interests through review of project conditions, mitigation measures and future consultation opportunities. Subject to Council endorsement, staff will submit the comments outlined in Attachment 2 to the BC EAO before the public comment period closes on July 27, 2026.

Should the Project receive approval, City staff will continue to participate in applicable review processes and inter-agency coordination related to implementation of environmental assessment conditions and associated management plans, where appropriate. Staff will continue to monitor the Project and provide updates to Council as appropriate.

Budgetary Implications

There are no budget impacts associated with this report.

Conclusion

Since 2020, the City has been engaged in the environmental assessment process and other review opportunities, advocating for municipal interests related to environmental protection, transportation, infrastructure, and emergency management.

The Project advanced to the Effects Assessment phase in March 2026 following acceptance of FortisBC's revised application by the BC EAO. The public comment period opened on June 25, 2026 and closes on July 27, 2026. Through this report, Council is being asked to endorse the comments set out in Attachment 2 for submission to the BC EAO.

Following the close of the public comment period, the BC EAO will finalize the Assessment Report and referral package for provincial decision-makers. A decision on the Environmental Assessment Certificate is anticipated later in 2026. Staff will continue to monitor the Project and provide updates to Council as appropriate.

Respectfully submitted,

Chad Paulin, Director, Climate and Environment

Report Contributors

This report was prepared by Nadia Chan, Manager, Environment and reviewed by Transportation and Engineering.

Endorsed by Serena Lusk, CAO

Att. 1: Tilbury Phase 2 LNG Expansion Project Environmental Assessment Timeline
2: Comments for submission to the BC Environmental Assessment Office

Tilbury Phase 2 LNG Expansion Project Environmental Assessment Timeline

Environmental Assessment Process



★ We are here

Early Engagement (2020 – 2021)

- FortisBC initiated the environmental assessment by filing an Initial Project Description with both the BC Environmental Assessment Office (BC EAO) and Impact Assessment Agency of Canada (IAAC) in February 2020
- This phase involved public consultations, including virtual open houses, to gather input from Indigenous groups, stakeholders, and the general public
- In September 2021, Fortis submitted a Detailed Project Description, which was accepted by both agencies in early 2022

Process Planning (2021 – 2022)

- The BC EAO and IAAC collaborated to formalize the environmental assessment process, including identifying information requirements and determining timelines
- In January 2022, the federal minister approved the substitution request, allowing the BC EAO to lead the federal impact assessment on behalf of IAAC

Application Development and Review (2024 – 2025)

- December 2, 2024: FortisBC submitted the Environmental Assessment (EA) Application to the BC EAO
- January 14 – March 3, 2025: A 45-day public comment period was held, inviting feedback from the public, Indigenous groups, and stakeholders
- January 21, 2025: A virtual information session was conducted
- January 23, 2025: An in-person open house was held in Delta
- May 28, 2025: The BC EAO sent a letter to FortisBC regarding the application review
- June 1, 2025: The BC EAO continued its review of the Application and related technical materials, including consideration of potential project effects

Effects Assessment and Recommendation (2026)

- March – August 2026: The BC EAO is conducting the Effects Assessment phase, including preparation of the draft Assessment Report, draft Environmental Assessment Certificate conditions, and referral package
- June 25 – July 25, 2026: A 30-day public comment period is scheduled for review of the draft Assessment Report and proposed certificate conditions
- July – August 2026: The BC EAO will finalize the Assessment Report and referral package for consideration by provincial decision-makers

Decision (2026)

- A provincial decision on the Environmental Assessment Certificate is anticipated before the end of 2026



Comments for submission to the BC Environmental Assessment Office

The following table summarizes potential comments for Council's consideration in relation to the final public comment period on the draft Environmental Assessment Certificate materials for the Tilbury Phase 2 LNG Expansion Project.

Matter identified	Comment to the BC EAO	Document reference
Public engagement in Richmond	While the draft conditions provide for ongoing information-sharing and community feedback, the City notes that the environmental assessment process did not include a dedicated in-person public information session in Richmond, despite Richmond's proximity to the Project and interest in potential transportation, air quality, ecological, and emergency management effects. The City encourages the Environment Assessment Office (EAO) to ensure that neighbouring municipalities are provided with opportunities for direct, community-based engagement for projects of this scale.	Draft Schedule B, Conditions 4, 9, and 10
Cumulative effects	The City notes that draft Schedule B, Condition 18.2 requires updated plans and reports arising from cumulative effects initiatives to be submitted to the EAO, BC Energy Regulator (BCER), Metro Vancouver, and First Nations, but does not include Local Governments such as the City of Richmond. Given Richmond's proximity to the Project and interest in potential cumulative effects on the Fraser River estuary, sensitive ecosystems, flood resilience, and the regional transportation system, the City requests that Condition 18.2 be amended to include the City of Richmond, or Local Governments, on the distribution list for these updates.	Draft Schedule B, Condition 18
Air quality	The City supports the proposed Air Quality Management Plan. The City requests that Condition 14.5(c) of the Draft Schedule B Table of Conditions be amended to include the City of Richmond on the distribution list for annual ambient air quality monitoring reports, given Richmond's proximity to the Project and interest in potential off-site air quality effects.	Draft Schedule B, Condition 14
Greenhouse gas emissions / Net-Zero Plan	The City notes draft Schedule B Condition 11 respecting the Net-Zero Plan and requests that ongoing reporting and updates to the Net-Zero Plan be shared with the City of Richmond to support transparency regarding implementation of the Project over time. The City further notes that certain matters raised during Application review, including non-methane fuel management, future	Draft Schedule B, Condition 11

	feed gas composition, and commitments to recognized standards for refrigerant management and vapour recovery system maintenance, were not, in the City's view, substantively resolved prior to the process advancing.	
Climate resilience	The City notes the importance of proposed climate resilience measures, particularly as they relate to flood resilience, surface water management, and adaptive management in a changing regional environmental context.	Draft Schedule B, Condition 12 and Condition 18
Traffic, local infrastructure, and community conditions	The City supports the proposed framework for development of a Transportation Management Plan. The City notes that Condition 12.7(b)(vi) of the Draft Schedule B Table of Conditions states that transportation reports will be distributed to any municipality that requests them. The City requests confirmation that the City of Richmond will be included on transportation-related distribution lists and community feedback reporting where project transportation routes, traffic effects, complaints, or adaptive management measures may have regional implications.	Draft Schedule B, Condition 10 and 12
Fraser River and adjacent ecological values	The City notes the potential for effects of the Project on the Fraser River and adjacent ecological values, including water quality, fish and wildlife habitat, and broader estuarine ecological functions. In particular, the City notes draft Schedule B provisions respecting erosion and sediment control, surface water quality and quantity management, spill prevention and response, hydrostatic testing and discharge management, protection of aquatic life in receiving environments, and the assessment of 6PPD-quinone-related fish effects associated with project transportation near Tilbury Slough. Given the Project's location adjacent to Tilbury Slough and the Fraser River, the City requests that the final conditions provide clear expectations for monitoring, reporting, and adaptive management relevant to adjacent aquatic environments and ecological values, including information sharing with affected neighbouring municipalities where appropriate.	Draft Schedule B, Condition 12, 17 and 18; Draft Certified Project Description



To:	Public Works and Transportation Committee	Date:	June 22, 2026
From:	Roeland Zwaag General Manager, Engineering and Public Works	File:	03-1000-03-006/Vol 01
Re:	ICBC-City of Richmond Road Safety Improvement Program Update 2026		

Staff Recommendations

1. That the road safety improvement projects, as described in Attachment 1 of the report titled “ICBC-City of Richmond Road Safety Improvement Program Update 2026”, dated June 22, 2026, from the General Manager, Engineering and Public Works, be endorsed for submission to the ICBC 2026 Road Safety Improvement Program for consideration of cost-share funding;
2. That should the above submission be successful, the Chief Administrative Officer and General Manager, Engineering and Public Works, be authorized to execute the cost-share agreements on behalf of the City; and
3. That should the above application be successful, the Consolidated 5 Year Financial Plan (2026-2030) be amended accordingly.

Executive Summary

ICBC’s annual Road Safety Improvement Program provides funding for municipalities to undertake road safety upgrades. This report provides an update on projects funded through the program in 2025, and outlines the projects proposed to be included in the City’s 2026 application for funding.

In 2025, the City was awarded \$432,000 from ICBC across 33 project locations. Over the past five years, the City has been awarded over \$1,843,000 from the program to City transportation projects.

The City’s 2026 funding application is for a bundle of 9 projects which range from major intersection improvements to traffic calming upgrades, representing a total project value of \$7,203,000. The amount of external funding to be received will be determined by ICBC based on funding availability and project eligibility.

Staff Report

Origin

This report supports Council's Strategic Plan 2022-2026 Focus Area #4 Responsible Financial Management and Governance:

Responsible financial management and efficient use of public resources to meet the needs of the community.

Analysis

ICBC Road Safety Improvement Program

The City has partnered with ICBC in the Road Safety Improvement Program since 1994 to help fund the implementation of road safety upgrades, reduce the frequency and/or severity of crashes at high-risk locations and reduce claim costs.

This partnership enables the City to undertake more traffic safety enhancements with available City funding and helps expedite the delivery of road safety improvements. Each year, a number of Council-approved road improvement projects eligible for funding through the Road Safety Improvement Program are submitted to ICBC for funding consideration.

In 2025, the City was awarded \$432,000 through the 2025 ICBC Road Safety Improvement Program for the implementation of road improvement projects across 33 project locations. Over the past five years, the City has been awarded over \$1,843,000 from the ICBC Road Safety Improvement Program towards City transportation projects.

Proposed 2026 ICBC-City of Richmond Road Safety Improvement Program Projects

Nine bundles of projects are proposed to be included in the City's submission to ICBC for the 2026 Road Safety Improvement Program, as outlined in Attachment 1.

Funding awarded by ICBC would help facilitate the following upgrades:

- Road safety upgrades at two intersections;
- Installation of new traffic signals at three intersections;
- Installation of special crosswalks, pedestrian signals, traffic video cameras, overhead LED street name signs and UPS;
- Implementation of traffic calming measures; and
- Installation of signage to support a 30 km/h speed limit on local roads.

ICBC's funding contribution towards each project will be determined through review of historical crash rates at these locations, the estimated reduction in ICBC claim costs resulting from the proposed improvements, project eligibility in relation to the funding guidelines and the program's funding availability. Staff will report back with an update of the success of the applications and ICBC's contributions as part of the 2027 update.

Should a project be approved for funding by ICBC, the City will be required to enter into a funding agreement with ICBC. The agreement is provided by ICBC and generally includes an indemnity in favour of ICBC. Staff recommend that the Chief Administrative Officer and General Manager, Engineering and Public Works be authorized to execute any such funding agreements on behalf of the City.

Budgetary Implications

The total estimated cost of the projects proposed to be included in the 2026 submission is \$7,203,000. All projects are fully funded through existing Council-approved capital budgets. Should any submitted projects receive funding from ICBC exceeding the original budgeted external contribution, staff recommend that external grants be used to reduce the previously approved City funding sources, and that the Consolidated 5 Year Financial Plan (2026-2030) be amended accordingly.

Conclusion

ICBC is a long-time partner working with the City to promote traffic safety in Richmond. The traffic safety initiatives jointly implemented by ICBC and the City result in safer streets for all road users in Richmond.

It is recommended that Council endorse the various local road safety improvement projects for submission to the 2026 joint ICBC-City of Richmond Road Safety Improvement Program.

Respectfully submitted,

Lloyd Bie, Director, Transportation

Report Contributors

This report was prepared by Beata Ng, Manager, Transportation Development and Design and reviewed by Engineering and Finance.

Endorsed by Serena Lusk, CAO

Att. 1: Proposed 2026 City-ICBC Road Safety Improvement Program Projects

Proposed 2026 City-ICBC Road Safety Improvement Program Projects

Proposed 2026 ICBC-City of Richmond Road Safety Improvement Program Projects	Estimated Total Cost
Construction of Intersection Safety Improvements: - Westminster Highway and No. 4 Road - Granville Avenue and Cooney Road	\$2,600,000
Installation of Special Crosswalks: - No. 2 Road and Lancing Road - Ash Street and Granville Avenue - Heather Street and Granville Avenue	\$320,000
Addition of Traffic Signals: - Cambie Road and Brown Road - No. 6 Road and Vulcan Way - Great Canadian Way and Beckwith Road	\$2,900,000
Installation of Pedestrian Signal: - Westminster Highway and Garripie Avenue - Bridgeport Road and Sexsmith Road	\$600,000
Modification of Traffic Signals: - Shell Road and Alderbridge Way – Addition of Northbound Left Turn Arrow - Minoru Road and Granville Avenue – Addition of Southbound Left Turn Arrow - No. 5 Road and Blundell Avenue – Addition of Southbound Left Turn Arrow - No. 1 Road and Steveston Highway – Addition of Eastbound Left Turn Arrow - Shell Road and Cambie Road – Addition of Northbound and Southbound Left-Turn Arrows	\$120,000
Installation of Traffic Video Cameras: - Shell Road and Cambie Road - No. 1 Road and Blundell Road - No. 1 Road and Granville Avenue - No. 1 Road and Westminster Highway - Railway Avenue and Granville Avenue	\$143,000
Installation of UPS (Uninterruptible Power Supply) - Westminster Highway and McLean Avenue - Westminster Highway and Gilley Road - Minoru Boulevard and Blundell Road - Cooney Road and Saba Road - Cooney Road and Ackroyd Road - Hazelbridge Way and Alexandra Road - No. 3 Road and Browngate Road - Hazelbridge Way and Browngate Road - No. 3 Road at 3600 Block - No. 3 Road at 3700 Block - Great Canadian Way and Van Horne Way - Great Canadian Way and River Road - No. 4 Road and Blundell Road	\$325,000
Speed Limit Signage Signage installation to support 30 km/h speed limit on local roads City-wide	\$175,000
Traffic Calming Measures: - Westwater Drive from Trites Road to Railway Avenue - Other locations pending results of public consultation and traffic studies⁽¹⁾	\$20,000
Total	\$7,203,000

⁽¹⁾ Implementation is subject to consultation with and support from affected residents.