MUNICIPALITY OF KILLARNEY-TURTLE MOUNTAIN



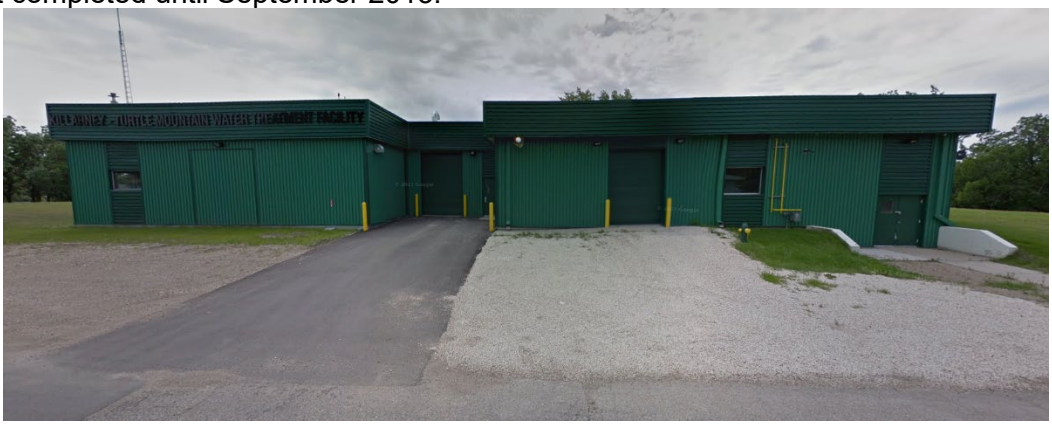
ANNUAL WATER SYSTEM OPERATION REPORT – 2025

The Municipality of Killarney – Turtle Mountain, strives to provide high quality drinking water in sufficient quantity to meet the needs of the public in the urban ward. It is our goal to do so in a safe and cost-effective manner while remaining in compliance with the regulatory requirements governing the provision of drinking water.

It is our belief that the public has a right to access information related to the drinking water that they consume. To that end, this report was prepared by the Killarney Public Works Department on April 1, 2025. Free copies of the report can be picked up at the municipal office and can also be viewed online at www.killarney.ca.

Where do we get our drinking water from?

In 2013, the Municipality of Killarney-Turtle Mountain completed its change over from surface water from Killarney Lake to the aquifer located 11 km NE of Killarney where two wells are located. Due to construction delays and a fire during the demolition of the old plant, the project was not completed until September 2013.



Why do we treat our water?

We treat our water to ensure that safe and pleasing drinking water is supplied to the homes and businesses in Killarney. In addition, new provincial regulations have set health based drinking water standards for all public water systems. The Municipality of Killarney – Turtle Mountain is committed to meeting or exceeding the water quality standards set by the province while providing the best tap water possible with our current treatment system.

What type of treatment do we use?

The Water Treatment Plant is equipped with a greensand filtration system and two reverse osmosis trains, which will produce 30 liters per second of treated water. The potable water is then stored in reservoir systems that holds roughly 2400 m3 before going to distribution.





Why and how do we disinfect our water?

The final step in the treatment of safe water is disinfection. Disinfection is the selective destruction or inactivation of disease-causing organisms in water. The “Drinking Water Safety Act” and supporting regulations require that water is disinfected before it leaves the water treatment facility and that an adequate amount of disinfectant is in the distribution system (water piping network) to ensure the water is safe right to the consumer’s tap.

The current disinfection method used is chlorination. An adequate amount of chlorine is added as the water enters the storage reservoir to ensure an effective kill and to provide a disinfectant residual in the water piping network throughout the Urban Ward of the Municipality of Killarney-Turtle Mountain. The reservoir has a capacity of roughly 2400 m3.

Is our water tested? What for? When?

Water tests are taken on a routine basis to ensure that the water is safe and to monitor how well the treatment facility is performing. We test the water at the treatment facility and in the distribution system at various locations and times. It is a regulatory requirement that all water test results associated with water safety be submitted to the Provincial Office of Drinking Water for review.

Monitoring Requirements:

Parameter	Monitoring Requirement
Bacteriological (total coliform and E.coli)	Bi-weekly sampling of one Raw, Treated and distribution sample
Free Chlorine (treated water)	Continuous sampling entering the distribution system with a manual sample take daily
Total Chlorine (treated water)	One sample a day entering the distribution system.
Free Chlorine (distribution system)	Sample to be taken at the same time and location as bacteriological sample
Total Chlorine (distribution system)	Sample to be taken at the same time and location as bacteriological sample
Free Ammonia (treated water)	One sample a week entering the distribution system
General Chemistry	One raw and one treated every 3 years
Lead	As per the instructions of the Drinking Water Officer.

There were no non-compliant incidents in 2025:

Drinking water quality standard- no incidents for 2025

Drinking Water Safety Orders- no incidents for 2025

Boil Water/Water Quality Advisories- no incidents for 2025

Drinking Water Safety Act- no incidents for 2025

Compliance Requirements

Parameter	Quality Standard	Treated	Distribution
Total coliform	less than one bar per 100ml	100%	100%
E. Coli	less than one E. Coli per 100ml	100%	100%
Free Chlorine	.5mg/l leaving plant .1 mg/l at all points in distribution	100%	100%
		Raw	Treated
General chemistry	One raw and one treated once every three years	100%	100%
Arsenic	equal or less than 0.01mg/l	0.00549 mg/l	0.00184 mg/l
Benzene	equal or less than 0.005 mg/l	<0.00050mg/l	<0.00050 mg/l
Fluoride	Equal or less than 1.5	0..23 mg/l	0.116 mg/l

	mg/l		
Lead	equal or less than 0.01 mg/l	<0.000050mg/l	<0.00005 mg/l
Nitrate	equal or less than 45mg/l	<0.10 mg/l	<0.020 mg/l
Trichloroethylene	equal or less than 0.005 mg/l	<0.00050 mg/l	<0.0005 mg/l
Tetrachloroethylene	equal or less than 0.03 mg/l	<0.00050 mg/l	<0.0005 mg/l
Uranium	equal or less than 0.02 mg/l	<0.000267 mg/l	0.000109 mg/l

Comments:

The Public Water System has a general chemistry done every year to help monitor the system, even though it is not required. The results from the table above show that the treated water meets all current health related requirements in our license.

Operational Requirements

Bi-weekly testing was done through Duracan Laboratory with reports sent directly to the Office of Drinking Water. All monthly monitoring reports are sent to the Regional Drinking Water Officer.

Testing for 2025:

Lead

Health Canada established a new guideline for lead in drinking water in March 2019. The maximum acceptable concentration (MAC) for total lead in drinking water is 0.010 mg/L to 0.005mg/l based on a sample of water taken at the consumers tap using the appropriate sampling protocol for the type of building being sampled. This new standard was adopted in 2020 by Manitoba.

Manganese

Guidelines for Manganese are also being revised. Proposed health guideline maximum is 0.12 mg per liter and for aesthetic objective of 0.02 mg/L. We currently are running right around these proposed guidelines but may have to increase our reservoir cleaning and watermain flushing programs if we need to.

Advisory Notification Plan

MINOR (Example: Water main leak or pump breakdown)

-Locate and assess problem

-Notify other staff members, management, office

-Gather information and equipment needed to repair problem (all parts, maps, equipment located at water plant and shop
-Notify additional contractors if needed (names & numbers all listed at municipal shop and water plant
-Repair problem
-Notify office, management, and staff when problem is repaired

MODERATE (Example: Major water main leak, emergency repairs, failed water sample)

-Locate and assess problem
-Isolate problem
-Notify other staff, management, office
-Notify drinking water officer
-Notify areas affected. Example: major water users & public that are affected
-Notify media if necessary
-Prepare to run temporary water line or water supply if needed
-Repair problem, gather samples if needed and send to lab (info for lab at water plant)
-Notify drinking water officer, management, and office when problem has been repaired
-Do not return regular water supply until it has been cleared as safe

Severe: (Example: Distribution pressure failure, Bacteria failure)

-Contact drinking water officer
-Contact public health inspector
-Contact staff, management, and office
-Contact media to notify residents of a boil water advisory
-Contact neighbor municipalities for assistance for tanking in water if needed
-Repair problem
-Do not return regular water supply until drinking water officer has cleared it as safe

2024

- 4 water leaks occurred in 2024

Sewer & Water main Renewal for 2024

- Ellis Drive water renewed
- Watermain and hydrant replaced on Bay Ave
- 2 new well pumps installed
- Jockey pump replaced in water plant

Water & Sewer Renewal for 2025

- Hydrant replacement and repairs
- South Railway West water main replacement

- Broadway sewer crossing from Williams Ave to Mountain Ave
- Highway loop from GVE to Patterson

2026

- 100 Block of Rossmore water and sewer renewal
- Finish water renewal on the highway loop from the vet clinic to Paterson grain
- Renew water main from marvel auto body to Rocky Mountain Equipment
- Broadway sewer crossing from Williams to mountain Ave
- Possible sewer renewal at the 400 block of king street
- Change membranes on one of our RO units
- We had 6 water leaks in 2025

Year-round Basis Services

House Connections – 1,032
Commercial – 83

Seasonal Basis Services

Average Population – 550
Maximum Population – 1,110
Number of Service Connections – 370

Water Rate

Meter Size	Water Included	Water Charge	Wastewater Charge	Water and Wastewater Minimum Charge
5/8	3000	$38.28	$25.56	$80.31
3/4	6000	$76.56	$51.12	$144.15
1 inch	12000	$153.12	$102.24	$271.83

Quarterly Service Charge $16.47

All customers will pay a minimum charge per quarter.
Unmetered Mobile Home Trailers will be charged a set rate per quarter for water and wastewater usage.
Unmetered seasonal water and wastewater customers will be charged a flat rate per season.
Rates subject to change.

Who can we call with questions or concerns regarding our drinking water?

For general questions during regular business hours, call:

Municipal Office (204) 523-7247

8:30 a.m. – 4:30 p.m., 415 Broadway Ave., Killarney, MB

To report an issue with your water supply during regular business hours call the Municipal Office and leave a message for the Plant Operator to call you back.