



Town of Altona

Public Water System

Annual Report 2024

The Town of Altona 2024 Annual Public Water System Annual Report will be posted on the Town website (www.altona.ca) on or before February 1, 2025.

Free paper copies of the report are available at the Town of Altona administration building located on 111 Centre Avenue East.

The public will be notified via the Town's website as well as a poster on the Town's bulletin board in the Town office.

Town of Altona Public Water System
Annual Report 2024

Name of the Public Water system: **Altona Public Water System**

Name of the Legal Owner: **The Town of Altona**

Phone: **204.324.6468**

Contact person: **Dan Gagné (CAO)**

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Supervisor: Clint Derksen

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Senior Operator: Jackson Enns

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Report Prepared: January 24, 2025

The 2024 Annual Report for the Town of Altona summarizes the Water Utility's ability to distribute safe potable water and meet provincial regulations.

1. Description of the Water System:

The Altona Public Water System (Altona PWS) provides potable water to a population of approximately 4,400 residents. Treated water purchased from the Pembina Valley Water Cooperative Inc. (PVWC) meets all objectives as stated in the Guidelines for Canadian Drinking Water Quality.

1.1 Water Supply Source

The Altona PWS receives treated water from the Red River Regional Water Treatment Plant in Letellier, Mb. which is approximately 20 kilometers east of Altona. The Letellier plant draws raw water from the Red River and treats the water before distribution.

1.2 Distribution System

Treated water from the two reservoirs is pumped throughout the Altona distribution system via four variable frequency driven 15 horsepower duty pumps in two pumphouses, plus two 75 horsepower emergency pumps. The approximate 34 kilometers of piping is 99% looped and is comprised of 58% AC, 41% PVC, and 1% HDPE.

1.3 Storage Reservoirs

Name: North End Reservoir

Capacity: 3 222 000 L

Name: South End Reservoir Capacity: 1 453 000 L

1.4 Number of Connections, population served and types of users

The Altona distribution system is comprised of 1,725 (corrected after meter replacement project) service connections. 2021 census indicates a population of 4390. All connections are metered. Domestic use is the largest consumer with approximately 65% while commercial use is approximately 35%.

1.5 Classification and Certification

Operators are certified under Manitoba Conservation's *Water and Wastewater Facility Operators Regulation* under the *Environment Act*

Clint Derksen- Supervisor	ID # 2014-081 - WD2, WWC2, WWT1
Jackson Enns-Foreman	ID # 03223 - WD2, WWC2, WWT2
Scott Klassen-Assistant	ID # 03849 - WD2, WWC2, WWT2
Kirby Sawatzky-Assistant	ID # 04305 - WD1, WWC2, WWT1

2. Disinfection system in use

The final step before distribution is the addition of 12% liquid sodium hypochlorite to the water while entering the reservoirs. The treated water leaving the pumphouses is continuously tested for a level of chlorine that is high enough for proper disinfection in the distribution system.

2.1 Equipment and monitoring requirements

As required, the Altona PWS ensures continuous disinfection is maintained by stocking all spare parts for all chlorinators.

Free Available and Total Chlorine residuals are analysed daily by staff, continuously with chlorine analyzers at each reservoir, and bi-weekly throughout the distribution system. A Hach brand portable colorimeter test kit, which is calibrated annually, is used for the testing at the South reservoir, and an Orbeca brand portable colorimeter test kit, which is also calibrated annually, is used for the testing at the North reservoir. All results are recorded on the appropriate monitoring forms and submitted to the Office of Drinking Water monthly. Bi-weekly samples are sent to an independent lab for testing. THM/HAA analysis are required every other year. In 2024 we also tested for lead content.

Tests performed bi-weekly:

- **Total Coliform:** a measurement of the total coli form present in bi-weekly samples submitted to an independent lab.
- **Escherichia coli:** a measurement of the Escheria coli present in bi-weekly samples submitted to an independent lab.

Quarterly samples, every other year, are also collected in the distribution system and sent to the lab for **THM** testing and **HAA** testing.

- **THM** is the abbreviation for Trihalomethane, which is a chlorination/disinfection byproduct.
- **HAA** is the abbreviation for Halo Acetic Acid, which is a chlorination/disinfection byproduct.

2.2 Overall performance

In 2024, the Altona PWS had no positive result for Coli form. The following tables outline the requirements and performance of the PWS in the Town of Altona for 2024 as outlined in the Operating License.

Disinfection Monitoring and Reporting

Standard %

Compliance

A) Free Chlorine residual entering the distribution system Section 21(1)a - MR 40/2007	≥ 0.5mg/L	100%
B) Frequency of testing entering the distribution system Section A - MR 40/2007	Daily	100%
C) Free Chlorine residual in the distribution system Section 22a - MR 40/2007	≥ 0.1mg/L	100%
D) Frequency of testing in the distribution system Section A - MR 40/2007	Bi-Weekly	100%
E) Report Submissions Section 25(2) - MR 40/2007	Monthly	100%
The PWS has met all regulatory requirements for 2024 in this area.		

Bacteriological Monitoring and Reporting

	<i>Standard</i>	<i>% Compliance</i>
A) Number of samples of watering leaving the North End Reservoir Schedule A - MR 40/2007	26	100%
B) Number of samples of watering leaving the South End Reservoir Schedule A - MR 40/2007	26	100%
C) Number of distribution water samples Schedule A - MR 40/2007	26	100%
D) Frequency of Testing Schedule A - MR 40/2007	Bi-weekly	100%
E) Total Coli form present in samples Section 3(1)b - MR 40/2007	0 TC per 100ml*	100%
F) E. Coli present in Samples Section 3(1)a - MR 41/2007	0 EC per 100ml	100%

The Public Water System has met all regulatory monitoring requirements for 2024. The water system was deemed to be in compliance with all terms and conditions in the Operating License.

Disinfection By-products Monitoring and Reporting – THMs and HAAs

Water System	Q1 THM	Q2 THM	Q3 THM	Q4 THM	Avg
ALTONA 4.00	0.09	0.08	0.24	0.11	0.13
Water System	Q1 HAA	Q2 HAA	Q3 HAA	Q4 HAA	Avg
ALTONA 4.00	47.7	51.6	102	86.8	72.0

We are currently unable to achieve the required level of THM and HAA’s due to the treated water being out of compliance when it arrives at our distribution stations.

Lead Monitoring and Reporting

In 2024 the Altona PWS was required to provide independent lab analysis on 20 addresses throughout the distribution system.

Address	Result (RDT)
Location 1	0.000158
Location 2	0.00039
Location 3	0.000119
Location 4	0.000212
Location 5	0.000514
Location 6	0.000372
Location 7	0.000423
Location 8	0.000455

Location 9	0.000505
Location 10	0.000134
Location 11	0.000362
Location 12	0.000732
Location 13	0.000378
Location 14	0.000835
Location 15	0.000287
Location 16	0.00143
Location 17	0.000337
Location 18	0.000193
Location 19	0.000602
Location 20	0.000389

Engineering Assessment of Water System Infrastructure and Water Supply Source

As specified by the operating license, the Altona PWS was required to initiate an Engineering Assessment of the Water System Infrastructure and Water Supply Source. J.R. Cousin Consultants completed the Town of Altona Public Water System Assessment 2016 PWS 4.00. Two copies of the report were mailed to The Office of Drinking Water.

3. Water Rates

In 2024 our water rate was \$14.92 per 1000 Imperial gallons.

4. Water System Incidents

In 2024 there were no major incidents.

4.1 Major Expenses

In 2024 we replaced all most commercial meters with smart meters.

5. Drinking Water Orders

In 2024 there were no Safety Orders issued for Altona Public Water System.

6. Boil Water Advisories (BWA's) issued and actions taken

In 2024 there were seven BWA's issued due to water main breaks and repairs.

1. January 25 @ 2nd St NE
2. April 26 @ Railway St
3. August 13 @ Suspected false positive at the lab
4. August 17 @ PVWC depressurization
5. August 23 @ 4th Ave SE
6. September 12 @ 2nd Ave SE
7. November 27 @ 5th St NE

The Office of Drinking Water was notified of BWA's and cc'd on all lab analysis reports.

7. Operational Requirements

The Town of Altona is continually in non-compliance with both THM and HAA requirements issued for the Altona Public Water System. We are working with Pembina Valley Water Corporation to remedy this in the future.

8. Major Waterline Extensions 2024

In 2024 there were no extensions to Altona PWS.

9. Future System Expansion

There are no solid plans in place for any extensions to take place in

2025.

Report Prepared by:

A handwritten signature in black ink, appearing to read "Clint Derksen", with a long horizontal flourish extending to the right.

Clint Derksen
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