

April 13, 2018

PWS 252.00

Ms. Moira L. Geer, CPA,CA  
Director, Water and Waste Department  
City of Winnipeg  
101-1199 Pacific Ave.  
Winnipeg, MB R3E 3S8

### **2017 Annual Compliance Audit**

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Dear Ms. Geer:

Please find enclosed the 2017 Annual Compliance Audit for the Winnipeg public water system (PWS). The report compares water system compliance to *The Drinking Water Safety Act* and its supporting regulations, and the terms and conditions of the water system's current operating licence (PWS-09-412-01).

Where non-compliance items are identified, the issues do not necessarily translate into increased public health risk. The Office of Drinking Water uses processes, including boil water advisories, to notify water users of a public health risk.

Specific non-compliance issues include:

- Chlorine residual less than 0.1mg/L in distribution at NW02 (August and October).
  - Additional distribution disinfectant residual testing and bacteriological testing were completed in the area.
  - No positive bacteriological samples were detected.
  - The City of Winnipeg conducted an investigation into the matter, but were unable to determine a local cause for low chlorine residual, and the issue resolved itself with the onset of winter.
  - The City of Winnipeg continues to monitor the site, and potential water age issues in the area.
  - NW02 remains a distribution sampling point.
- Chlorine residual less than 0.1 mg/L at SW16 (September), there was discoloured water at the time of the sample and chlorine residuals were established the next day following flushing.
- Total coliform detection of 14 MPN/100 mL at WC05 in April.
  - The issue was corrected with resampling on the instruction of a Drinking Water Officer.
- Chlorine residual was measured less than 0.1mg/L on the upstream side of a water main repair in September.
  - The issue was corrected following line flushing.

Please review the following terms and conditions of your operating licence to ensure ongoing compliance:

- Water quality sampling frequencies identified in *Table 2*.

- Water System Assessment (due date: March 1, 2017) submitted.
- 2017 Public Water System Annual Report (due date: March 31, 2018)
- Advisory Notification Plan (due date: May 1, 2018)

Water suppliers that own and operate a portion of their water supply on a seasonal basis, such as a campground or park, are reminded they are required to follow Seasonal Water System Start-up/Shutdown procedures. Your operating licence may be amended in the future to reflect this requirement; however, in the interim, the protocol must be followed.

The Seasonal Water System Start-up/Shutdown procedure can be found on our website at: [http://www.gov.mb.ca/sd/waterstewardship/odw/reg-info/operations-monitor/pdf/odw\\_og\\_02.pdf](http://www.gov.mb.ca/sd/waterstewardship/odw/reg-info/operations-monitor/pdf/odw_og_02.pdf)

Health Canada has completed their review on National Guidelines, including algae (total microcystin toxins) manganese and lead. The new guidelines are expected to be finalized and posted in 2018 with minor changes following the public consultation stage. Owners and operators are encouraged to review Health Canada's guidelines and related chemistry results to determine what impact they may have on your water supply. You will receive notification of any changes to Health Canada's Guidelines for Canadian Drinking Water Quality and Manitoba Standards should they affect your water supply.

The 2017 Annual Compliance Audit is based on information submitted to this office. If you have questions regarding non-compliance items identified in this audit, review your records prior to contacting this office. If your records conflict with the audit information, please call me at (204) 642-6134.

Sincerely,

*Original signed by Derek Clarke.*

*Signed original provided upon your request.*

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Derek Clarke  
Senior Regional Drinking Water Officer

Enclosures

e-copy:

Marc Balcaen, Supervisor, Drinking Water Officer  
Melanie Betsill, Manager, Office of Drinking Water  
Kim Philip, Director, Office of Drinking Water  
Dr. Lisa Richards, Medical Officer of Health, Winnipeg Regional Health Authority  
Dr. Heejune Chang, Medical Officer of Health, Winnipeg Regional Health Authority  
Dr. Susan Roberecki, Medical Officer of Health - Environmental Health, Manitoba Health, Seniors and Active Living

**Sustainable Development**

**2017 Annual Compliance Audit**

Water System: WINNIPEG - PWS

Code: 252.00

Water System Owner: City of Winnipeg

Water System Operating Licence: PWS-09-412-01

Expiry Date: November 30, 2020

- 1) This report documents the Winnipeg Public Water System compliance for the period from January 1 to December 31, 2017.
- 2) Addendum A to this report provides specific information on the non-compliance incidents identified in the summary below.
- 3) Other than the information provided in attached Addendum A, the water supplier has complied with *The Drinking Water Safety Act*, its supporting regulations, and the terms and conditions of the water system's current operating licence
- 4) This report is based on information submitted by the water supplier, agents of the water supplier, and / or the Province of Manitoba.

**Summary of Non-Compliance Incidents:**

• Failure to Meet Disinfection Requirements
• Failure to Meet Bacteriological Requirements

## Sustainable Development

Addendum A: Record of Non-Compliance

Water System: WINNIPEG - PWS

Report period: January 1, 2017 to December 31, 2017.

### ***Enforcement Action Taken***

Date	Incident	Outcome
	None reported	

### ***Disinfection Requirements***

Date	Incident	Outcome
August	Failure to maintain a free chlorine residual of at least 0.1 mg/L at all times at any point in the water distribution system	Non-compliant
September	Failure to maintain a free chlorine residual of at least 0.1 mg/L at all times at any point in the water distribution system	Non-compliant
October	Failure to maintain a free chlorine residual of at least 0.1 mg/L at all times at any point in the water distribution system	Non-compliant
October	Failure to maintain a free chlorine residual of at least 0.1 mg/L at all times at any point in the water distribution system	Non-compliant
October	Failure to maintain a free chlorine residual of at least 0.1 mg/L at all times at any point in the water distribution system	Non-compliant
November	Failure to maintain a free chlorine residual of at least 0.1 mg/L at all times at any point in the water distribution system	Non-compliant

### ***Bacteriological Requirements***

Date	Incident	Outcome
2017/04/04	Failure to meet Bacteriological Standard: Total Coliform (TC) detected	Non-compliant

### ***Microbial Requirements***

Date	Incident	Outcome
	None reported	

### ***Turbidity Requirements***

Date	Incident	Outcome
	None reported	

Sustainable Development

***Chemical Requirements***

Date	Incident	Outcome
	None reported	

***Operational Requirements***

Date	Incident	Outcome
	None reported	