



Kale Black, Sr. Drinking Water Officer  
Office of Drinking Water, Manitoba Sustainable Development  
309 – 25 Tupper Street North  
Portage La Prairie, MB R1N 3K1

October 7, 2020

**RE: CORRECTIVE ACTION REPORT FOR WINNIPEG PUBLIC WATER SYSTEM, 252.00**

**Incident No:** CAR-19-2020-WTP

**Reported to ODW:** September 21, 2020

**Reported by:** Mike Logan, Senior Operator

**Approved by:** Dan Merredew, Water Treatment Operations Supervisor

**Incident Date:** September 21, 2020

**Incident Location:** Winnipeg 2-Treated (WTP)

**Incident Type:**

Low Disinfectant Residual Entering Distribution System (<0.5 mg/L free chlorine), 22(1) MR 40/2007

**Description of Event and Corrective Actions:**

In preparation for draining the Branch 1 for Aqueduct maintenance and following standard operating procedures, the chlorine dose setpoint at the Water Treatment Plant was lowered to 0.85 mg/L to allow de-chlorination post Deacon. After the dose was lowered, the free chlorine residual at Deacon dropped below 0.50 mg/L: Branch 1 was below 0.50 mg/L from 13:29 to 15:53, minimum was 0.38 mg/L at 15:13.

Branch 2 was below 0.50 mg/L from 14:43 to 15:15, minimum was 0.49 mg/L at 15:00.

The chlorine dose setpoint was immediately increased to 1.25 mg/L to raise the free chlorine residual. In addition, the protocol for isolation and draining of Branch 1 Aqueduct will be updated to adjust the Water Treatment Plant chlorine dose setpoint based on seasonal considerations including current dose setpoint and water temperature. The existing protocol advised to adjust the chlorine dose setpoint to 0.85 mg/L but did not include guidance to consider seasonal factors that could impact chlorine consumption rates.

**Test Results:** Grab samples September 21, 2020 @ 13:50: Branch 1 – 0.46 mg/L Branch 2 – 0.49 mg/L

**Reference No:** n/a

**EMERGENCY REPORTING IS REQUIRED WHERE A POTENTIAL HEALTH RISK IS INVOLVED. FOLLOW THE INSTRUCTIONS OF YOUR DRINKING WATER OFFICER IN SITUATIONS REQUIRING IMMEDIATE REPORTING**

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