



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

April 5, 2023

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

Incident No: CAR-03-2023

Reported to ODW: March 15, 2023 2:35pm

Reported by: Heather Buhler, Water Treatment Operations Engineer

Approved by: Dan Merredew, Water Treatment Plant Operations Supervisor

Incident Date: March 15, 2023

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 Corrective Actions:

Water Treatment Plant Operator: on March 15, 2023 there was a scheduled Water Treatment Plant (WTP) shut down for maintenance work. The WTP was offline from 8:22am until 2:20pm. During this shutdown period, the Branch 1 free chlorine analyzer was reading below 0.5mg/L off and on from 11:33am until 2:02pm, reaching a low of 0.26mg/L at 11:38am. Between 11:33am and 2:02pm, the free chlorine was below 0.5 mg/L for a total of 1 hour and 34 minutes. The Branch 2 free chlorine analyzer was reading below 0.5mg/L from 1:19pm until 2:02pm, reaching a low of 0.27 mg/L at 1:36pm. From 1:19pm until 2:02pm, the free chlorine was below 0.5 mg/L for a total of 43 minutes.

During this period, operators were attempting to purge air out of the UV system prior to restarting the WTP. It is estimated that approximately 1.33ML of water was sent to Branch 1 and 0.84ML of water was sent to Branch 2 while the free chlorine residual was below 0.5mg/L. This issue was not noted by Operators at the time because the WTP was offline. As a result, no additional testing was conducted at the time of the incident. Branch 1 and Branch 2 free chlorine analyzers were reading 1.38mg/L and 1.43mg/L respectively, prior to the purging of air from the UV units. Grab sampled collected from the Branch 1 and Branch 2 read 1.22 mg/L and 1.21mg/L at 3:15pm.

Due to the relatively small volume of water and the fact that the water is further boosted with chlorine at the In-town pumping stations, this event will not have impacted water quality.



**Water and Waste
Eaux et déchets**

Test Results: n/a

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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