



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

May 9, 2023

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

Incident No: CAR-05-2023-WTP

Reported to ODW: May 9, 2023

Reported by: Heather Buhler, Water Treatment Operations Engineer

Approved by: Dan Merredew, Water Treatment Operations Supervisor

Incident Date: April 7, 2023

Incident Location: Winnipeg 2-Treated (WTP)

Incident Type:

Failure to provide continuous UVT monitoring of the water downstream of the UV Reactors for Branch 2

Description of Corrective Actions:

On April 7th at approximately 14:10 the Branch 2 UVT (UV Transmittance) analyzer malfunctioned. This malfunction of the analyzer resulted in an average UVT of 100% being reported on April 8th and April 9th; and 99.9% UVT on April 10th. Currently, the only alarms on the system occur when UVT decreases, Low alarm is at 90% and the Low-Low is at 80%. As a result, operators did not flag an issue on the instrument while it was reading 100%. On April 11th, a concern was raised about the UVT analyzer and it was immediately cleaned and calibrated by the Technicians and returned to service by 9:45.

Online results from the Branch 2 UVT analyzer were reading 99.4% prior to the incident and 91.1% after recalibration. Throughout this period, the UV system was fully operational. The UVT analyzer on the Branch 1, which is fed from the same source water, was also fully operational throughout this period and confirmed all water leaving the Deacon Booster Pump Station was above an average of 92% UVT. As a result, this event will not have impacted water quality.

The Water Treatment Plant is in the process of implementing an alarm at 100% UVT on both the Branch 1 and Branch 2 UVT analyzers to prevent any reoccurrences of this event.

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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