

Office of Drinking Water
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February 20, 2019

PWS Code: 50.00

Ms. Sharla Griffiths, CAO
City of Dauphin
100 Main Street South
Dauphin MB R7N 1K3

Dear Ms. Griffiths:

This letter is in follow-up to the January 7, 2019, inspection of the Dauphin public water system. The primary focus of the inspection was to confirm compliance with the terms and conditions of Dauphin Public Water System Operating Licence PWS-08-117-02.

Mr. Jeff Hume, water plant operator was in attendance.

Water System Overview:

The Dauphin Water Treatment Plant receives its water from the Vermillion River and if necessary, Edwards Creek and at the time of inspection the Edwards source water was being used. The treatment train consists of flash mixing / flocculation / sedimentation with the use of aluminum sulphate (alum), caustic soda and polymer. Ozone is used for disinfection, oxidation and taste and odor control. Filtration consists of 3 rapid gravity filters with sand and anthracite media. Finally, treated water is disinfected with the use of chlorine and ammonia (chloramination). Fluoride is also added in the final stages of treatment for dental health.

The water supply is classified as a Class 4 Water Treatment and Class 2 Distribution under the Water and Wastewater Facility Operators Regulation pursuant to The Environment Act. The regulation requires all operators to hold a certificate. At least one operator, (operator-in-charge (OIC)) must hold a certificate that is at least the same class as the facility. Other operators can be certified to the same class, lower or higher, as the facility; or can hold an operator-in-training (OIT) certificate.

Water system owners are reminded that water system classification and valid operator certification certificates must be posted at the water treatment plant or made available for inspection. In addition, water system owners are responsible for updating and submitting a Table of Organization as required under the Water and Wastewater Facility Operators Regulation. For more information on the Water and Wastewater Facility Operators Regulation please contact Donna Garcia, Certification Program Specialist, Sustainable Development at donna.garcia@gov.mb.ca.

Compliance:

- Free and total chlorine residuals were tested at the treated water sampling location. The free chlorine residual was 1.06 mg/L. This is within the requirement of at a minimum of 0.5 mg/L free chlorine residual entering the distribution system.

- Water samples for bacteriological analysis are being submitted on a bi-weekly basis that is consistent with the requirements.
- The monthly monitoring report forms are being submitted to this office at the end of each month.

Required for Compliance:

- Include filter profiles with the monthly reports for incidents where turbidity exceeds 1.0 NTU.
- Modify the SCADA system to ensure that continuous turbidity monitoring data captured on monthly reports only includes data recorded while filters are producing filtered water to the clear well. Currently the system is reporting turbidity data 24 hour a day even when filters are not in operation or in backwash.

Important Information:

The Office of Drinking Water participates in the Federal-Provincial-Territorial Committee on Drinking Water that approves the *Guidelines for Canadian Drinking Water Quality*. Drinking water quality standards applied in Manitoba regulations be consistent with current Health Canada guidelines, and the Office therefore monitors the potential impact of proposed changes to Manitoba water systems.

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 discuss this information and to determine what impact they may have on the water supply.

If you have any questions, please do not hesitate to contact me at 204-648-5200.

Sincerely,



Stephen Yeo
Senior Drinking Water Officer

cc: Bill Brenner - Director of Operations, City of Dauphin
Jeff Hume – Utility Foreman, City of Dauphin