

March 2020

**Monthly Summary Report
Water Systems**

**Prepared By: Brad Webb, ORO
Senior Water Treatment Plant Operator**

Dated: April 15, 2019

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of March 2020 at the Water Treatment Plant - Water Works # 220000978 and the Airport Groundwater Well Water Works No. 849N7DGE0 (Precedes Airport Groundwater Well Water Works No. 26002736). This information report has been prepared for Council to better understand how the water systems they own and operate are maintained on a monthly basis. Also, this report will assist Council as Directors of the Corporation in exercising its obligation to meet a reasonable Standard of Care as outlined in Section 19 of the Safe Drinking Water Act. The water treatment plant falls under the requirements of Ontario Regulation 170/03 – Drinking Water Systems.

The Airport Small Drinking Water System, System No. 849N7DGE0, was put into service August 01, 2017. The system falls under the requirements of Ontario Regulation 319/08 – Small Drinking Water Systems.

2) **Flow Data:**

Water Treatment Plant: See attached spreadsheet.

Airport Groundwater Well:

Estimated Daily Usage 0.21 m3

Estimated March Usage 6.5 m3

3) **Microbiological (Health Related) Water Analysis - Main Water System No. 220000978:**

Water Treatment Plant (treated): 5 samples taken no adverse results

Water Treatment Plant (raw): 5 samples taken no adverse results

Water Distribution System: 20 samples taken where 25% of samples were tested for heterotrophic plate count (HPC) - no adverse results.

We take microbiological samples on a weekly basis, which includes 1 raw sample, 1 treated sample and 4 distribution samples. The 4 distribution samples are taken at different locations throughout the distribution system.

Water distribution samples taken at the following locations:

- | | | | |
|-----------------------------|----------------------------|-----------------------------|--------------|
| 1. 1111 First St. E. | 2. 227 5 th St. | 3. 901 Wright Ave. | 4. W. Tower |
| 5. 943 3 rd St. | 6. 1309. Kings Hwy. | 7. Piston Ring. | 8. W. Tower |
| 9. 401 Kings Hwy. | 10. 1309. Kings Hwy. | 11. 943 3 rd St. | 12. W. Tower |
| 13. 1111 First St. E. | 14. 401 Kings Hwy. | 15. 1309. Kings Hwy. | 16. W. Tower |
| 17. 943 3 rd St. | 18. 401 Kings Hwy. | 19. 1309. Kings Hwy. | 20. W. Tower |

4) Microbiological (Health Related) Water Analysis - Airport Groundwater Well No. 849N7DGE0:

New drinking water system put online August 01, 2017. No treatment required as the Airport groundwater tested negative for bacteria.

The Airport drinking water system is to be sampled and tested for bacteria once every three (3) months in accordance with Section 25 – Microbiological Sampling and Testing of the Small Drinking Water Systems Regulation, O. Reg. 319/08.

Water distribution sample taken February 5, 2020 – no adverse results.

5) Free Available Chlorine Residual (FAC) - Main Water System No. 220000978:

FAC residuals are taken at a minimum daily at both the Water Treatment Plant and within the Water Distribution System.

6) Free Available Chlorine Residual (FAC) - Airport Groundwater Well System No. 849N7DGE0:

New drinking water system put online August 01, 2017. No treatment required as the Airport groundwater well tested negative for bacteria.

7) Maintenance Activities at the WTP:

Mar 03rd -Connect Electric working on heater in front stairwell.
-Lakeside here installing new level transmitters in clear wells.

Mar 04th -Lakeside here working on cl2 detectors in both chlorine rooms.

Mar 05th -Lakeside here finishing up work on cl2 detectors.
-Connect Electric wiring plugs for new U.P.S. in control room.
-Calibrated distribution Chlorine analyzer.

Mar 06th -Calibrated distribution Chlorine analyzer.

Mar 08th -Calibrated distribution Chlorine analyzer.

Mar 12th - Cleaned top and bottom tanks on the poly unit.
-Cleaned all 4 check valves on the poly unit.

Mar 16th -Changed belts on compressor # 1.

Mar 18th -Calibrated distribution Chlorine analyzer.
-Took grab samples off the filters.

May 19th -Pulled in line mixer and replaced motor.
- Cleaned top and bottom tanks on the poly unit.
-Cleaned all 4 check valves on the poly unit.

Mar 26th -Changed west chlorine tank and pig tail

Mar 31st Started painting downstairs.

8) **Water Complaints:**

- Poor Pressure – 0 complaints.
- Water quality – 0 complaints.

9) **Other Miscellaneous Information:**

Mar 2nd -Routine micro sample collection.

Mar 09th -Routine micro sample collection.

Mar 18th -Took annual samples at the Plant and Tower
-Took T.S.S. Samples off Filter #4.
-Took 5 year fluoride and 5 year sodium sample.

Mar 16th -Routine micro sample collection.

Mar 23rd -Received a load of Alum
-Routine micro sample collection.
-Water repair sample on Sinclair Ave.1st set.

Mar 24th -Water repair sample on Sinclair Ave.2nd set.
-Water repair sample on 6th Street 1st set.

Mar 24th -Water repair sample on 6th Street 2nd set.

Mar 30th Routine micro sample collection.

10) In order to acknowledge that all levels of responsibility within the Corporation of the Town of Fort Frances have received and reviewed this monthly report, it is necessary to sign-off in the appropriate location below:

- Brad Webb, ORO, Senior WTP Operator: _____
- Craig Miller, P.Eng. Environmental Superintendent: _____
- Travis Rob, P.Eng. Manager of Operations & Facilities: _____
- Doug Brown, P.Eng. CAO: _____
- Rick Wiedenhoeft, Chair O & F Exec Committee: _____
- June Caul, Mayor: _____
- John McTaggart, Councillor: _____
- Mike Behan, Councillor: _____
- Wendy Brunetta, Councillor: _____
- Doug Judson, Councillor: _____
- Andrew Hallikas, Councillor: _____

Note: Once all signatures have been obtained, the report will be distributed and made available to the public. If you have any questions, please feel free to contact myself or Brad Webb, Senior WTP Operator at 274-2325.