

December 2020

**Monthly Summary Report
Water Systems**

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

Dated: January 06, 2021

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of December 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 December Usage	6.5 m3

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

Water Treatment Plant (treated): 4 samples taken no adverse results

Water Treatment Plant (raw): 4 samples taken no adverse results

Water Distribution System: 16 samples taken where 25% of samples were tested for heterotrophic plate count (HPC) – With one adverse.

1 Adverse Sample from 500 Keating Ave. Re-sampled one sample up stream, one down and 2 at 500 Keating Ave. per MECP requirements, with 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. 500 Keating Ave.	2. 320 Portage Ave.	3. 740 Sixth St. W.	4. W. Tower
5. 715 Col. Rd. E.	6. 943 Third St. E.	7. 1309 King's Hwy.	8. W. Tower
9. 401 King's Hwy.	10. 835 McKenzie Ave.	11. 900 Wright Ave.	12. W. Tower
13. 940 Third St. E.	14. 1127 First St. E.	15. 900 Wright Ave.	16. 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 December 21, 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:

Dec 02nd - Removed fuel tank for old fire pump.

Dec 08th - Cleaned Soda Ash Line.

Dec 09th - Calibrated Distribution Chlorine Analyzer.

Dec 11th - Cleaned top and bottom tanks on the Poly Unit.
-Cleaned all 4 check valves on the Poly Unit.

Dec 14th - Took grab samples off the filters.
-calibrated fluoride analyzer.

Dec 15th - Flushed and cleaned Poly lines to Clarifier #2
-Greased both Clarifier chains

Dec 16th - Cleaned Soda Ash auger and bottom of bucket elevator

Dec 17th -Cleaned top and bottom tanks on the Poly Unit.
-Cleaned all 4 check valves on the Poly Unit.

Dec 18th -Greased clarifier # 2

Dec 22nd - Replaced impeller motor on Clarifier # 2

Dec 23rd - Cleaned top and bottom tanks on the Poly Unit.
-Cleaned all 4 check valves on the Poly Unit.

Dec 30th - Ran backup generator for 1 hr.

Dec 31st -Cleaned top and bottom tanks on the Poly Unit.
-Cleaned all 4 check valves on the Poly Unit.

8) **Water Complaints:**

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

9) **Other Miscellaneous Information:**

Dec 01st - Took micro samples for 800 blk. of 2nd St. E. repair. 2nd set.

Dec 07th - Routine micro Sample Collection.

Dec 09th - Re-sample micro for adverse.

Dec 14th -Routine micro sample collection.

Dec 17th - Cannect Electric here to reset and check MCC breaker for the Flash mixer.

Dec 21st - Quarterly samples at Plant and Water Tower.
- TSS samples taken off the filters.
- Routine micro Sample Collection.
- Took Airport samples

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, Environmental Superintendent: _____
- Travis Rob, Manager of Operations & Facilities: _____
- Doug Brown, 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.