

November 2019

**Monthly Summary Report
Water Systems**

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

Dated: December 02, 2019

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of November 2019 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) - 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. 601 Reid Ave.	2. 1001 King's Hwy.	3. 800 Sixth St.	4. W. Tower
5. 500 Keating Ave.	6. 1509 School Rd.	7. 800 Fifth St.	8. W. Tower
9. 1111 First St. E.	10. 746 Sixth St.	11. 901 Wright Ave.	12. W. Tower
13. 943 Third St.	14. 1324 Kings Hwy.	15. 901 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 August 22, 2019 – 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:

Nov. 1st - Calibrated distribution chlorine analyzer.

Nov. 4th - Calibrated distribution chlorine analyzer.

Nov. 7th - Cleaned top and bottom tanks on poly unit.
Cleaned all 4 check valves on the poly unit.

Nov. 10th - Calibrated distribution chlorine analyzer.

Nov. 13th - Calibrated the distribution chlorine analyzer.

Nov. 14th - Cleaned top and bottom tanks on poly unit.
Cleaned all 4 check valves on the poly unit.

Nov. 15th - Repaired coupler on clarifier #1 mixer.

Nov. 18th - Cleaned top and bottom tanks on poly unit.
Cleaned all 4 check valves on the poly unit.

Nov. 20th - Calibrated the distribution chlorine analyzer.

Nov. 21st - Cleaned top and bottom tanks on poly unit.
Cleaned all 4 check valves on the poly unit.

Nov. 26th -Took grab samples off the filters.

Nov. 26th -calibrated fluoride analyzer.

Nov. 27th -calibrated # 3 poly pump.

Nov. 28th - Cleaned top and bottom tanks on poly unit.
Cleaned all 4 check valves on the poly unit.

Nov. 28th - Ran standby generator for 1 hour

Nov. 29th -changed soda ash pump # 7 to pump # 3.

8) **Water Complaints:**

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

9) **Other Miscellaneous Information:**

Nov. 4th - Routine micro samples collection.

Nov. 4th -Canect electric here working on alarm system.

Nov. 5th -Fire and Security here forking on fire alarms.

Nov. 5th - Landfill site samples taken.

Nov. 5th- Took DWSP samples

Nov. 12th - Routine micro sample collection

Nov. 14th -shipped back 8 fluoride barrels to Clear-Tech.

Nov. 18th -shipped back 8 fluoride barrels to Clear-Tech.

Nov. 18th - Routine micro sample collection.

Nov. 19th -Received 4 tonners of chlorine.

Nov. 25th - Routine micro sample collection.

Nov 27th -Munich RE inspected boiler, generator and high lift # 3.

Nov. 28th - ESA Inspection (Electrical Safety Authority). At water tower.

Nov. 29th - Prydes Plumbing here changing out hot water tank.

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.