

January 2020

**Monthly Summary Report
Water Systems**

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

Dated: February 03, 2020

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of January 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 Monthly 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. 720 Scott St. | 2. 1036 Victoria Ave. | 3. 901 Wright Ave. | 4. W. Tower |
| 5. 943 Third St. E. | 6. 500 Keating Ave. | 7. 901 Wright Ave. | 8. W. Tower |
| 9. 1330 Woodward St. | 10. 1001 King's Hwy. | 11. 901 Wright Ave. | 12. W. Tower |
| 13. 1109 Colonization Rd. W. | 14. 943 3rd St. E. | 15. 901 Wright Ave. | 16. W. Tower |
| 17. 940 3rd St. East. | 18. 740 6th St. West. | 19. 1324 King's 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 November 29, 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:

- Jan. 3rd -cleaned all 4 check valves on the poly unit.
 -cleaned top and bottom tanks on the poly unit.
 -calibrated the distributor chlorine analyzer.
- Jan. 8th -cleaned troughs on clarifier #2.
- Jan. 9th - cleaned troughs on clarifier #1.
 -cleaned flumes on filters.
 -cleaned all 4 check valves on the poly unit.
 -cleaned top and bottom tanks on the poly unit.
- Jan. 16th -cleaned all 4 check valves on the poly unit.
 -cleaned top and bottom tanks on the poly unit.
- Jan. 21st -cleaned out bottom of soda ash bucket elevator.
- Jan. 22nd -changed hose on compressor # 2.
- Jan. 23rd -cleaned the check valves on the poly unit.
 -cleaned top and bottom tanks on the poly unit.
- Jan. 27th -changed filters on soda ash dust collector.

Jan. 28th -ran the standby generator.

Jan. 29th -greased both clarifiers, chains, bearings and gears
-greased bucket elevator.
-greased air scour blower.
-greased poly unit.

Jan. 30th -put new probe on chlorine analyzer # 2.

Jan. 31st -cleaned the check valves on the poly unit.
-cleaned top and bottom tanks on the poly unit.

8) **Water Complaints:**

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

9) **Other Miscellaneous Information:**

Jan. 2nd -routine micro samples collection.

Jan. 7th -century cranes here to service our hoists.

Jan. 8th -routine micro sample collection.

Jan. 13th -Pryde's Plumbing here working on boiler.

Jan. 14th -routine micro sample collection.

Jan. 16th -M.E.C.P. here for annual inspection.

Jan. 17th -M.E.C.P. here for annual inspection.

Jan. 20th -routine micro sample collection.

Jan. 23rd -Cannect Electric here changing lights on outside of building.

Jan. 24th -cleaned top of soda ash bucked elevator.

Jan. 27th -routine micro sample collection.

Jan. 29th -took grab samples off the filters,
-calibrated fluoride analyzer.

Jan. 31st -received a load of Alum.

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.