

THE TOWN OF FORT FRANCES

September 16, 2013

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

SUBJECT: August 2013 Drinking Water Systems Monthly Summary Report



Please find attached the August 2013 Summary Report on the drinking water systems, prepared by Randy White, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the August 2013 report as presented.

Respectfully submitted,
Operations & Facilities Division

Doug Brown

Doug Brown, P. Eng.
Manager of Operations & Facilities

Council approval of this report will accept the August 2013 Drinking Water Systems Monthly Summary Report and approve the report prior to it being made available to the general public.

c.c. – Doug Herr, Environmental & Facilities Supt.
Randy White, Senior WTP Operator

08 Council Water Report August 2013.doc

RECOMMENDED

SEP 16 2013

DIV. MNG.

Doug Brown

EXECUTIVE COMM.

R. White



August, 2013

**Monthly Summary Report
Water Systems**

**Prepared by: Randy White, ORO
Senior Water Treatment Plant Operator**

Dated: September 16, 2013

1) Introduction -

This report contains the major maintenance activities and operational events that occurred during the month of August 2013 at the Water Treatment Plant - Water Works # 220000978 and the Airport Groundwater Well Water Works # 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.

2) Flow Data

Water Treatment Plant: See attached spreadsheet. No flow data for Airport groundwater well.

3) Microbiological (Health Related) Water Analysis– Main Water System #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.

4) Microbiological (Health Related) Water Analysis– Airport Groundwater Well # 26002736

No samples taken.

The Airport has signs posted in the men's and women's washroom stating that the water has not been tested or treated for drinking purposes in accordance with the Health Protection and Promotion Act – Section 7 of the Small Drinking Water Systems Regulation, O. Reg. 318/08 (*Amended to Safe Drinking Water Act, 2002 - Section 6 of Ontario Regulation 252/05*). The operators do a visual inspection of the warning notices at a minimum of once per week to ensure that they are legible and comply with Ontario Regulation 318/08, Section 7(5).

5) Free Available Chlorine Residual (FAC) – Main Water System – #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 # 26002736

Signs posted, exempt from testing.

7) Maintenance Activities at the WTP

August 01st - annual calibrations completed by Lakeside Controls
- cleaned top and bottom tanks on poly unit
- cleaned all 4 check valves on the poly unit

August 7th - flushed the poly lines to the clarifiers

August 14th - installed a new UPF on M.C. Panel 2
- rebuilt soda ash pumps

August 21st - Lakeside Controls working on computer programming

August 22nd - rebuilt soda ash pumps

August 26th - repaired the settled water sampling pump

August 28th - flushed the poly lines to the clarifiers

August 29th - Adverse result from new valve installation sampling. Telephoned M.O.H., S.A.C., Health Unit and M.O.E.

August 30th - cleaned top and bottom tanks on poly unit
- cleaned all 4 check valves on the poly unit

8) Water Complaints:

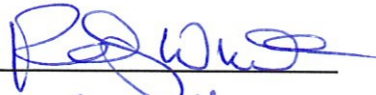

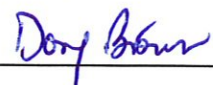


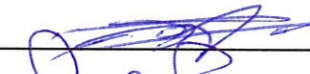
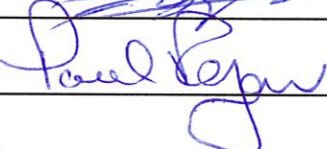
- Poor Pressure – 0 complaint.
- Water quality – 2 complaints.
933 Banta Blvd. – discoloured water – flushed fire hydrant and tested chlorine – 1.88 mg/L.

818 McKenzie Ave. – discoloured water – flushed hydrant at end of block (dead-end), until water clarity cleared.

9) **Other Miscellaneous Information:**

- August 06th - routine micro sample collection
 - Second St. E. – new main samples – 1st set
- August 07th - Second St. E. – new main samples – 2nd set
 - 410 Third St. W. – service repair samples – 1st set
- August 08th - 410 Third St. W. – service repair samples – 2nd set
- August 12th - routine micro sample collection
- August 13th - completed leachate sampling at the landfill site
 - Eighth St. W. (200 blk.) - new water main extension, samples – 1st set.
- August 15th - Eighth St. W. (200 blk.) - new water main extension, samples – 2nd set
 - 413 Second St. E. – water service repair samples – 1st set
- August 19th - took micro samples at Sunny Cove Camp
 - took DWSP samples at the water treatment plant and water tower
 - 413 Second St. E. – water service repair samples – 2nd set
- August 20th - routine micro sample collection
- August 21st - Williams Ave. – new water main and Nelson St. at Crowe Ave. – water main repair samples – 1st set
- August 22nd - Williams Ave. – new water main and Nelson St. at Crowe Ave. – water main repair samples – 2nd set
- August 26th - routine micro sample collection
- August 27th - Fifth St. E. – new valve installation samples – 1st set (Adverse)
- August 28th - Fifth St. E. – new valve installation samples – 1st set (after adverse)
- August 29th - Fifth St. E. – new valve installation samples – 2nd set (after adverse)

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:

- Randy White, ORO, Senior WTP Operator: 
- Doug Herr, Environmental & Facilities Supt.: 
- Doug Brown, Manager of Operations & Facilities: 
- Mark McCaig, CAO: 
- Rick Wiedenhoeft, Chair O& F Exec Committee: 
- Roy Avis, Mayor: 
- Paul Ryan, Councillor: 
- John Albanese, Councillor: _____
- Andrew Hallikas, Councillor: _____
- Doug Kitowski, Councillor: _____
- Ken Perry, 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 Randy White, Senior WTP Operator at 274-2325.

Monthly Report August 2013

Flow Data	August	Units	2011	2012	2013
			Day of the Month	Day of the Month	Day of the Month
Total Raw Water		m ³	217590	198830	161980
Raw Maximum Day		m ³	8430	7990	5920
Raw Minimum Day		m ³	6170	5130	4460
Raw Average Daily Consumption		m ³	7020	6410	5230
Total Treated Water		m ³	165500	147770	129740
Treated Water Maximim Day Consumption		m ³	6770	6700	5130
Treated Water Minimim Day Consumption		m ³	4260	3640	3430
Treated Water Average Day Consumption		m ³	5340	4770	4190
Daily Average Per Household Consumption Rate		m ³	1.41	1.26	1.11
* Daily Average Per Person Consumption Rate		m ³	0.67	0.60	0.52
Monthly Averages - Operating Parameters WTP:					
FAC Residual - Treated Water		mg/L	1.88	1.75	1.83
Total Chlorine Residual - Treated Water		mg/L	2.17	2.03	2.15
Aluminum Sulphate - Raw Water		mg/L	34.5	34.5	34.0
Aluminum Sulphate - Treated Water Residual		mg/L	0.07	0.04	0.06
Fluoride - Treated Water		mg/L	0.67	0.67	0.6
Soda Ash - Raw Water		mg/L	34.0	34.0	34.0
PH - Adjusted		mg/L	7.14	7.18	7.11
Temperature		C	21.5	22.0	23.1
Quantity of Chemical Used:		kg			
Aluminum Sulphate		kg	7506.9	6859.6	5507.3
Polyelectrolyte		kg	87.5	75.0	87.5
Chlorine Gas		kg	866	804	716
Soda Ash - Used for PH Adjustment		kg	7398.1	6760.2	5507.3
Fluoride		kg	763	731	458

* The Canadian Average is 450 Litres (0.45 m³) per day.

* Population is 7986

* Number of Households is 3783

