

TOWN OF FORT FRANCES

Operations and Facilities Executive Committee

AGENDA - May 18, 2016, 8:30 AM

MEETING - Civic Centre

Session #010

	Page
1. <u>Call to Order</u>	
2. <u>Disclosure of pecuniary interest and the general nature thereof</u>	
3. <u>Approval of Previous Committee Minutes</u>	
3..1 Minutes from the previous meeting of this committee on May 4, 2016.	2 - 3
4. <u>Non-agenda Items</u>	
5. <u>New Business</u>	
5..1 Request from Joe Gladu to have a Bench Installed Along the Waterfront Parkway between Crowe Avenue and Mosher Avenue.	4 - 7
5..2 April 2016 Drinking Water Systems Monthly Summary Report	8 - 15
5..3 Operations and Facilities Division - Environmental Area - Operations Statistics - April 2016	16 - 18
6. <u>Information</u>	
6..1 Sewer and Water Data for 2016 - updated April 30, 2016	19
6..2 2016 Tonnage at Landfill Site - updated April 30, 2016	20
6..3 Fort Frances Wastewater Treatment Facility April 2016 Monthly Report	21 - 26
7. <u>Adjourn / Next Meeting Date</u>	

TOWN OF FORT FRANCES

MINUTES

SESSION NO. #009

May 4, 2016

The meeting of Operations & Facilities Executive Committee of the Town of Fort Frances was held in the Civic Centre on May 4, 2016 from 8:34 a.m. to 9:20 a.m.

PRESENT: Doug Kitowski, June Caul and Doug Brown.

ALSO PRESENT: Mayor Roy Avis

1. Call to Order

The meeting was called to order at 8:34 a.m.

2. Disclosure of pecuniary interest and the general nature thereof

None.

3. Approval of Previous Committee Minutes

- 3.1 Minutes from the previous meeting of this committee on April 20, 2016 - the minutes were approved as circulated.

4. Non-agenda Items

None.

5. New Business

- 5.1 Execution of Funding Agreement under the MTO Connecting Links Program for Engineering Services of the Mill Road Overpass Structure (Bridge) - the administration report was reviewed and will be forwarded to Council for approval.
- 5.2 Award Tender 16-OF-09 - 3 Year Term - Sanitary Sewer Cleaning & CCTV Inspection Program - the administration report was reviewed and will be forwarded to Council for approval.
- 5.3 2016 Surplus Asset Sale - the administration report was reviewed and will be forwarded to Council for approval.

6. Information

- 6.1 Operations and Facilities Division - Public Works Area - Operations Statistics - January 2016 - the Public Works Statistics for January 2016 were reviewed and will be forwarded to Council as information only. No action required.
- 6.2 Operations and Facilities Division - Public Works Area - Operations Statistics - February 2016 the Public Works Statistics for February 2016 were reviewed and will be forwarded to Council as information only. No action required.

7. Adjourn / Next Meeting Date

The meeting was adjourned at 9:20 a.m.

Executive Committee Chair

D. Brown, Manager of Operations & Facilities

May 11, 2016

Report To: Mayor and Council

From: Doug Brown, Manager of Operations & Facilities

SUBJECT: Request from Mr. Joe Gladu to have a Bench Installed Along the Waterfront Parkway between Crowe Avenue & Mosher Avenue

A letter was received from Mr. Joe Gladu requesting to have a bench installed along the Waterfront Parkway in honor of his late wife, Mrs. Annie Gladu (Boon). See attached letter.

A little history on the benches along the Waterfront Parkway; in 2003 & 2004 several citizens and organizations purchased a bench at a price of \$1600 which included the cost of the plaque. The bench & plaque were installed for the commemoration of the Town of Fort Frances 100th anniversary. The last bench purchased was in May of 2004 by the Evergreen Chapter No. 80 – order of the Eastern Star. The paperwork was handled out of the CAO's office where the park's crew installed the plaque. Since Fort Frances 100th Birthday event, three additional benches (Mr.& Mrs. Allison 2013 & Bob Ward 2014 & Tammy Wihnan- 2015 yet to be installed) have been approved by Council where the requests were directed to the O & F executive committee.

In January of 2014 Mrs. Elsie Ward made a similar request, which was approved by Council, where she was responsible for the cost of a Trystan bench, freight from the manufacturer to Fort Frances and the plaque. The cost of the bench to Mrs. Elsie Ward was \$1727.98 (includes HST) and she paid for the plaque on her own directly to General Supply (price unknown).

The Operations & Facilities Executive Committee recommends the following;

- 1) Mr. Joe Gladu would be responsible for all the costs of the following materials;
 - “Select Bench” complete with ash slats manufactured by Trystan
 - Freight costs to transport the bench materials to Fort Frances.
 - The plaque supplied by General Supply-purchased on his own.

The total cost for the bench materials is estimated at \$1542.84 plus HST. See quotes from the suppliers.

- 2) The Town will supply the labour & materials to construct the foundation for the select bench.
- 3) The Town will supply the labour to install the new select bench and plaque.

Respectfully Submitted
Operations & Facilities Division,



Doug Brown, P. Eng.
Operations & Facilities Manager

Council approval of this report will ensure the following:

- 1) Mr. Joe Gladu would be responsible for all the costs of the following materials:
 - Select Bench” complete with ash slats manufactured by Trystan
 - Freight cost to transport the bench materials to Fort Frances.
 - The plaque supplied by General Supply will be purchased directly by Mr. Joe Gladu.

The total cost for bench materials is estimated at \$1542.84 plus HST.

- 2) The Town will supply the labour & materials to construct the foundation for the select bench.
- 3) The Town will supply the labour to install the new select bench and plaque.

2016MayGladuwaterfrontbench

Joe Gladu

1251 Warsaw Crescent

Winnipeg, Manitoba R3M 1E9

Mrs. Lisa Slomke,

I am writing to request a bench to be installed in Fort Frances along the Waterfront in memory of my wife. My wife, Annie Gladu (Boon) asked for this in one of her last requests.

The place we were considering is between Crowe Avenue and Mosher Avenue.

I will cover all costs required I understand that I purchase the bench from the Town and the Plaque from Busch's Auto. *General Supplies?*

The bench will mean a lot to Annie's Family and Friends in the area.

Thank you and please let me know how to proceed.

Sincerely,

Joe Gladu

jgladu@tri-core.ca

204 791-5680

INVOICE

FROM:

TRYSTAN
 (A Division of Date Industries Limited)
 1302 SWAN STREET, AYR, ONTARIO, CANADA N0B 1E0

PHONE (519) 632-7427
 FAX (519) 632-8271

INVOICE NO. 6140

SOLD TO: The Town of Fort Frances
 320 Portage Ave.
 Fort Frances, ON
 P9A 3P9

SHIP TO:

SAME

SHIPPED VIA		DATE SHIPPED		INVOICE DATE		TERMS		
collect		Apr. 28/16		Apr. 28/16		Net 30 days		
PURCHASE ORDER #		PCS. ON ORDER	DESCRIPTION	PCS SHIPPED	UNIT WEIGHT	TOTAL WEIGHT	PRICE	AMOUNT
faxed		1	Select Bench 7' Ash slats Transparent light grey stain cast ends black	1	200#	200#	\$1173.00	\$1173.00
		1	Crate G-585-1400-1471	1			\$ 150.00	\$ 150.00
				CHECKED		APPROVED		
				MAY 05 2016		MAY 05 2016		
				By: <u>AKP</u>		By: <u>Derry</u>		

No claims allowed unless made within 30 days of receipt of goods.
 All prices subject to change without notice.

Page 7 of 26
 PLEASE PAY
 THIS AMOUNT

May 16, 2016

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

SUBJECT: April 2016 Drinking Water Systems Monthly Summary Report

Please find attached the April 2016 Summary Report on the drinking water systems, prepared by Randy White, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the April 2016 report as presented.

Respectfully submitted,
Operations & Facilities Division



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

<p>Council approval of this report will accept the April 2016 Drinking Water Systems Monthly Summary Report and approve the report prior to it being made available to the general public.</p>

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

03CouncilwaterreportMarch 2015

April, 2016

**Monthly Summary Report
Water Systems**

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

Dated: May 06, 2015

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of April 2016 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.

Water distribution samples taken at the following locations:

- | | | | |
|-----------|-----------------------|------------------|-----------------|
| 1. Arena | 2. Daycare | 3. Public Works | 4. Water Tower |
| 5. Arena | 6. 1036 Victoria Ave. | 7. Super 8 | 8. Water Tower |
| 9. Arena | 10. Public Works | 11. Super 8 | 12. Water Tower |
| 13. Arena | 14. Daycare | 15. Public Works | 16. Water Tower |

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 purpose 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:

- April 02nd - calibrated distribution chlorine analyzer.
- April 07th - cleaned all four (4) check valves on poly unit.
- cleaned the top and bottom tank on the poly unit.
- calibrated distribution chlorine analyzer.
- April 09th - clear tech at plant working on new chlorinator.
- April 11th - transferred sludge from Clarifier No. 1 to Clarifier No. 2.
- April 12th - ran generator for 1 hour.
- cleaned the in-line mixer.
- put Clarifier No. 1 back on line.
- painted pipes and stands at Water Treatment Plant.
- April 14th - painted the lower level floor.
- April 26th - took Clear Well No. 2 off line to clean.
- Lakeside here to hook up Fluoride Analyzer and to provide training.
- April 28th - hauled out chemicals and equipment for Sunny Cove.
- Lakeside here working on Chlorine and Fluoride analyzers.
- cleaned all four (4) check valves on poly unit.
- cleaned the top and bottom tank on the poly unit

8) **Water Complaints:**

- Poor Pressure – 0 complaints
- Water Quality – 1 complaint

1312 Emo Road: Took chlorine residual - 1.45 mg/L. Customer satisfied after consultation.

9) **Other Miscellaneous Information:**

April 04th - took weekly routine bacti samples.

April 05th - lead sampling all day – distribution system.

April 06th - lead sampling all day – distribution system.

April 07th - took grab samples off the filters.

April 11th - took weekly routine bacti samples.

April 18th - took weekly routine bacti samples.

April 25th - took weekly routine bacti 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:

- Randy White, ORO, Senior WTP Operator: _____
- Doug Herr, Environmental & Facilities Supt.: _____
- Doug Brown, Manager of Operations & Facilities: _____
- Mark McCaig, CAO: _____
- Paul Ryan, Chair O& F Exec Committee: _____
- Roy Avis, Mayor: _____
- June Caul, Councillor: _____
- John Albanese, Councillor: _____
- Wendy Brunetta, 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 April 2016

Town of Fort Frances - Water treatment Plant - Water Works # 220000978
Monitoring Record
April 2016

Operating Data	Units	*MAC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total	Average
		or Range																																
Flow rates																																		
Raw Water	10^3 M^3	17	5.21	5.14	5.18	5.27	5.19	5.24	5.15	5.18	5.17	5.29	5.30	5.17	5.10	5.26	5.26	5.27	5.36	5.07	5.25	5.29	5.24	5.15	5.10	5.24	5.26	5.15	5.16	5.21	5.16	4.93	150.74	5.20
Peak Instantaneous - Raw Water	L/s	n/a	60.76	64.91	60.85	60.82	60.77	61.10	60.86	60.91	61.12	60.94	61.02	61.02	61.11	61.19	61.15	61.16	61.22	61.34	61.34	61.42	61.72	60.41	61.07	61.20	61.03	60.90	60.29	60.51	60.60	60.51	1833.25	61.11
Treated Water	10^3 M^3	17	3.68	3.57	3.74	3.90	3.71	4.33	3.70	3.97	3.63	3.56	3.82	3.75	3.67	3.47	3.50	3.26	3.60	3.32	3.43	3.35	3.41	3.49	3.08	3.39	3.54	3.55	3.45	3.29	3.34	3.24	106.74	3.56
Peak Instantaneous - Treated Water	L/s	5	69.76	70.34	71.07	70.80	73.19	72.60	77.36	74.38	75.79	69.37	71.17	73.40	74.57	73.59	72.16	69.80	70.48	65.87	71.71	69.78	69.74	69.40	70.32	66.56	67.57	64.84	69.30	67.50	69.74	69.25	2121.41	70.71
BackWash Water	10^3 M^3	n/a	0.225	0.232	0.212	0.222	0.236	0.000	0.257	0.220	0.232	0.266	0.222	0.232	0.264	0.217	0.232	0.269	0.224	0.233	0.267	0.225	0.232	0.263	0.226	0.240	0.264	0.228	0.237	0.254	0.225	0.236	6.892	0.230
Fluoride Information																																		
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.70	0.71	0.82	0.62	0.65	0.61	0.69	0.73	0.64	0.66	0.72	0.69	0.67	0.66	0.76	0.59	0.61	0.82	0.73	0.82	0.77	0.81	0.86	0.75	0.57	0.76	0.77	0.68	0.68	0.68	21.23	0.71
Turbidity Information																																		
Raw Water	NTU	n/a	0.61	0.59	0.63	0.56	0.61	0.61	0.63	0.59	0.60	0.63	0.58	0.61	0.60	0.59	0.63	0.59	0.66	0.54	0.60	0.62	0.71	0.77	0.65	0.71	0.68	0.73	0.76	0.67	0.73	0.77	19.26	0.64
Settled Water	NTU	n/a	0.29	0.31	0.33	0.23	0.26	0.32	0.29	0.28	0.20	0.17	0.27	0.19	0.32	0.34	0.28	0.21	0.19	0.24	0.25	0.32	0.28	0.26	0.28	0.30	0.31	0.26	0.29	0.33	0.32	0.19	8.11	0.27
Treated Water	NTU	1	0.13	0.10	0.11	0.10	0.09	0.11	0.11	0.12	0.11	0.10	0.11	0.13	0.10	0.10	0.12	0.12	0.11	0.12	0.10	0.11	0.11	0.10	0.12	0.11	0.09	0.13	0.10	0.12	0.10	0.10	3.28	0.11
Other Operating Parameters																																		
pH - Treated Water	no units	6.5 to 8.5	7.40	7.29	7.24	7.43	7.43	7.46	7.45	7.42	7.38	7.35	7.44	7.42	7.51	7.5	7.48	7.35	7.31	7.43	7.44	7.43	7.41	7.44	7.41	7.45	7.45	7.41	7.31	7.54	7.46	7.42	222.46	7.42
pH - Settled water	no units	n/a	6.20	6.06	6.05	6.10	6.18	6.17	6.13	6.23	6.19	6.26	6.17	6.15	6.12	6.11	6.17	6.12	6.15	6.05	6.31	6.29	6.18	6.21	6.22	6.19	6.28	6.27	6.16	6.33	6.23	6.19	185.47	6.18
pH - Raw Water	no units	n/a	7.17	7.25	7.20	7.36	7.40	7.38	7.32	7.39	7.30	7.26	7.35	7.33	7.50	7.44	7.41	7.31	7.20	7.42	7.42	7.42	7.43	7.38	7.42	7.33	7.44	7.44	7.25	7.41	7.35	7.31	220.59	7.35
FAC - Treated Water	mg/l	0.2 to 4	2.26	2.28	2.32	2.30	2.26	2.20	2.28	2.32	2.20	2.22	2.16	2.29	2.20	2.18	2.20	2.21	2.26	2.32	2.34	2.25	2.11	2.12	2.07	2.08	2.07	2.08	2.11	2.20	2.26	2.24	66.39	2.21
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.52	2.66	2.70	2.66	2.72	2.70	2.74	2.68	2.49	2.47	2.64	2.66	2.72	2.72	2.62	2.47	2.52	2.66	2.58	2.52	2.46	2.50	2.48	2.52	2.44	2.48	2.52	2.66	2.68	2.57	77.76	2.59
Temperature	C	15	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	3.0	4.0	4.0	5.0	5.0	4.0	5.0	5.0	4.0	4.0	5.0	5.0	4.0	4.0	5.0	6.0	6.0	130.0	4.3	
Fluoride used (Total Daily Consumption)	kg	n/a	17.0	17.0	17.0	18.0	17.0	17.0	17.0	18.0	19.0	20.0	20.0	19.0	19.0	19.0	18.0	19	19	17	18	18	17	17	17	18	17	16	17	18	19	537.0	17.9	
Chlorine used (Total Daily Consumption)	kg	n/a	21.0	21	22	21	22	22	21	22	21	22	22	22	21	23	22	22	23	21	23	21	22	20	21	21	22	20	21	21	21	21	645.0	21.5
Soda ash (Total Daily Consumption)	kg	n/a	182.4	179.9	181.3	184.5	181.7	183.4	180.3	181.3	181.0	185.2	185.5	181.0	178.5	184.1	184.1	184.5	187.6	177.5	183.8	185.2	183.4	180.3	178.5	183.4	184.1	180.3	180.6	182.4	180.6	172.6	5458.3	181.9
Soda Ash - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	1050.0	35.0
Alum residual - (Total Daily Consumption)	kg	n/a	182.4	179.9	181.3	184.5	181.7	183.4	180.3	181.3	181.0	185.2	185.5	181.0	178.5	184.1	184.1	184.5	187.6	177.5	183.8	185.2	183.4	180.3	178.5	183.4	184.1	180.3	180.6	182.4	180.6	172.6	5458.3	181.9
Alum residual - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	1050.0	35.0
Alum residual - Treated Water	mg/l	0.1	0.05	0.05	0.05	0.04	0.04	0.06	0.06	0.05	0.03	0.05	0.04	0.06	0.06	0.05	0.05	0.04	0.03	0.05	0.05	0.05	0.04	0.05	0.05	0.03	0.04	0.02	0.03	0.06	0.04	0.02	1.34	0.04
Poly bags added (25 kg bags)	kg		0.5						0.5							0.5					0.5			0.5						0.5			75.0	

Flow Data	APRIL	Units	2014		2015		2016	
			Day of the Month		Day of the Month		Day of the Month	
Total Raw Water	m ³		206600		165700		150740	
Raw Maximum Day	m ³	Thursday 03rd	9660	Friday 17th	6650	Sunday 17th	5360	
Raw Minimum Day	m ³	Saturday 26th	4770	Thursday 09th	5270	Saturday 30th	4930	
Raw Average Daily Consumption	m ³		7120		5710		5200	
Total Treated Water	m ³		173600		112830		106740	
Treated Water Maximum Day Consumption	m ³	Thursday 03rd	7020	Sunday 12th	4260	Wednesday 06th	4330	
Treated Water Minimum Day Consumption	m ³	Saturday 26th	4810	Tuesday 21st	3390	Saturday 23rd	3080	
Treated Water Average Day Consumption	m ³		5790		3760		3560	
Daily Average Per Household Consumption Rate	m ³		1.53		0.99		0.94	
* Daily Average Per Person Consumption Rate	m ³		0.73		0.47		0.45	
Monthly Averages - Operating Parameters WTP:								
FAC Residual - Treated Water	mg/L		1.63		2.04		2.21	
Total Chlorine Residual - Treated Water	mg/L		1.92		2.32		2.59	
Aluminum Sulphate - Raw Water	mg/L		34.5		35.6		35	
Aluminum Sulphate - Treated Water Residual	mg/L		0.06		0.06		0.04	
Fluoride - Treated Water	mg/L		0.63		0.68		0.71	
Soda Ash - Raw Water	mg/L		35.0		37.3		35	
PH - Adjusted	mg/L		7.25		7.19		7.42	
Temperature	C		2.7		5.5		4.3	
Quantity of Chemical Used:	kg							
Aluminum Sulphate	kg		7457.2		6105.7		5458.3	
Polyelectrolyte	kg		75.0		62.5		75.0	
Chlorine Gas	kg		689		639		645	
Soda Ash - Used for PH Adjustment	kg		7565.3		6398.2		5458.3	
Fluoride	kg		574		365		537	

- * The Canadian Average is 450 Litres (0.45 m³) per day.
- * Population is 7986
- * Number of Households is 3783

TOWN OF FORT FRANCES
Operations and Facilities Division - Environmental Area - Operations Statistics
(April 2016)

STAFFING:

See Operations Statistics (April) 2016 prepared by M. Strachan, Superintendent of Transportation

OVERTIME HOURS - Equivalent Straight Time Hours

See Operations Statistics (April) 2016 prepared by M. Strachan, Superintendent of Transportation

WATER DISTRIBUTION:

Water Main Breaks:

- Number of water main breaks: None

Hydrant Repairs:

- Number of hydrant repairs: None

Hydrant Replacements:

- Number of hydrant replacements: None

Hydrant Installations (NEW):

- Number of new hydrant installations: None

Main Valve Repairs:

- Number of main valve repairs: None

Main Valve Replacements:

- Number of main valve replacements: None

Water Service Breaks:

- Number of water service breaks: None

Water Service Repairs:

- Number of water main valve repairs: One (1)
 - 1638 Colonization Rd. W.

Water Service Terminations:

- Number of water service repairs: None

Water Service Turn "Off/On":

- Number of water service turn "Off/On": Twenty-three (23)
 - 912 Sixth St. E, 1150 Walker Ave. N., 729 Church St., 901 Banta Blvd., 1007 Williams Ave., 838 Third St. E.
 - 1002 River Rd. W., 1210 Fifth St. W., 1205 Elizabeth St. E., 516 Third St. W., 1025 River Rd. W.
 - 928 Frenette Ave., 1453 Colonization Rd. W., 1021 Williams Ave., 927 Fifth St. E. (2), 1213 Elizabeth St. E.
 - 622 Third St. E., 1628 Colonization Rd. W., 700 McIrvine Rd., 533 Scott St. and 1031 Third St. E. (2)

Frozen Water Services:

- Number of frozen water services: None

Water Meter Installations/Replacements:

- Number of water meter installations/replacements: None

Backflow Preventer Installations/Replacements:

- Number of backflow preventer installations/replacements: None

Backflow Preventer Annual Testing:

- Number of backflow preventer tested: Thirty-six (36)
 - 1201 Idylwild Dr. (2), 221 Scott St., 400 Portage Ave., 986 King's Hwy., 740 Sixth St. W., 1100 Scott St.
 - 1509 School Rd., 830 Portage Ave., 516 Mowat Ave., 617 Mowat Ave., 600 King's Hwy. (3), 401 Mowat Ave.
 - 835 McKenzie Ave., 830 Fifth St. W., 310 Church St., 528 Second St. E. (3), 522 Second St. E.
 - 475 Keating Ave., 261 Scott St., 440 McIrvine Rd., 406 Church St., 360 Scott St., 510 Portage Ave.
 - 256 Scott St., 800 Fifth St. W., 820 Fifth St. E., 339 Scott St., 600 Fifth St. W., 516 Portage Ave.
 - 343 Scott St. and 1000 King's Hwy.

Other Information:

- Summarized final costs for invoicing of private works associated with private works
- Replaced missing markers on fire hydrants.
- April 22, 2016 - Delivered delinquent account notices to residences (9 issued)
- April 22, 2016 - Connection inspection of a water service tie in at 1018 First St. E.

WATER TREATMENT PLANT:

- April, 2016 - In receipt of the Water Treatment Facility Monthly Report.
- April 5 & 6, 2016 - Completed lead testing in the plumbing (20), commercial (2) and in the distribution system (3) Period 1 - REDUCED.

SEWERAGE COLLECTION:

Wastewater Main Backups:

- Number of wastewater main backup: One (1)
 - Victoria Ave. (1000 blk.)

Sewer Main Repairs:

- Number of sewer main repairs: None

Sewer Manhole Repairs:

- Number of sewer manhole repairs: None

Sewer Service Repairs:

- Number of sewer service repairs: None

Sewer Service Terminations:

- Number of sewer service repairs: None

Sewer Service Replacements:

- Number of sewer service repairs: None

Other Information:

- Cleaned eleven (11) plugged sewer services at the following locations:
 - 544 Third St. W., 1012 Victoria Ave. N., 1210 Scott St., 860 King's Hwy., 1039 Walker Ave. N.
 - 930 Christie Ave. N., 922 Victoria Ave. N., 600 Church St., 385 Daniel Ave., 1032 Second St. E.
 - and 1123 Scott St.
- Traced various building sewer services.
- CCTV inspected building sewer services at 218 Second St. E., 1210 Scott St. and 352 Third St. E.
- Preformed connection inspection at 1018 First St. E. and 1010 Walker Ave. N.

WASTE-WATER TREATMENT FACILITY:

- April, 2016 - Received the Wastewater Treatment Facility Monthly Report.

WASTE MANAGEMENT:

Garbage Collection:

- Number of complaints regarding garbage collection:
 - Town - 0 complaints, Asselin's - 2 complaints

Sanitary Landfill (Waste Disposal Site):

Landfill Scales functioning properly during this period.

- Amount of residential waste delivered to the landfill:
 - 182,950 kgs (182.95 tonnes)
- Amount of ICI waste delivered to the landfill:
 - 381,960 kgs (381.96 tonnes)

Recycling:

- Number of complaints regarding recycled materials:
 - Town - 0 complaints, Asselin's - 0 complaints
- Amount of recycled waste diverted from the landfill:
 - Emterra: January - 39.86 tonnes, February - 25.94 tonnes and March - 46.80 tonnes, April - No Data

Prepared By:



Environmental & Facilities Superintendent

Date:

16-05-2016

Sewer & Water Data for 2016
up-dated April 30, 2016

Month	Days per month	2016	2016	2016	2016	2016	2015	2016	2016	2016	2016	2016	2015	2015	2016-2015	2016-2015	2016	2016	
		Total	daily	Couch.	Couch.	Couch.	Total	Total	daily	Couch.	Couch.	Couch.	Total	daily	Diff	Diff	Difference	Infiltration	
		Sewage	Sewage	Sewage	Sewage	Sewage	Sewage	Treated	Treated	2 Water	2 Water	Water	Treated	Treated	Treated	Wastewater	STP-WTP	daily average	
		STP	STP	Meters	Meters	%	STP	WTP	WTP	Meters	Meters	%	WTP	WTP	WTP	STP			
		cu. meters monthly	cu. meters daily	cu. meters monthly	cu. meters daily		cu. meters monthly	cu. meters monthly	cu. meters daily	cu. meters monthly	cu. meters daily		cu. meters monthly	cu. meters daily					
January	31	176710	5700.32	7600	245.16	4.30%	161362		118110.0	3810.0	16818.5	542.5	14.24%	121570	3922	-3460.0	15348.0	58600.0	1890.3
February	29	157117	5417.83	7638	263.38	4.86%	140237		110250.0	3801.7	16818.5	579.9	15.25%	107690	3713	2560.0	16880.0	46867.0	1616.1
March	31	231365	7463.39	9648	311.23	4.17%	173865		118060.0	3808.4	15056.0	485.7	12.75%	126450	4079	-8390.0	57500.0	113305.0	3655.0
April	30	253871	8462.37	10565	352.17	4.16%	168865		106740.0	3558.0	15056.0	501.9	14.11%	112830	3761	-6090.0	85006.0	147131.0	4904.4
May	31		0.00		0.00		242869			0.0		0.0		120100	3874	-120100.0	-242869.0	0.0	0.0
June	30		0.00		0.00		218773			0.0		0.0		116430	3881	-116430.0	-218773.0	0.0	0.0
July	31		0.00		0.00		179969			0.0		0.0		134840	4350	-134840.0	-179969.0	0.0	0.0
August	31		0.00		0.00		183529			0.0		0.0		129900	4190	-129900.0	-183529.0	0.0	0.0
September	30		0.00		0.00		163113			0.0		0.0		121920	4064	-121920.0	-163113.0	0.0	0.0
October	31		0.00		0.00		159808			0.0		0.0		123450	3982	-123450.0	-159808.0	0.0	0.0
November	30		0.00		0.00		188990			0.0		0.0		102560	3419	-102560.0	-188990.0	0.0	0.0
December	31		0.00		0.00		189403			0.0		0.0		107110	3455	-107110.0	-189403.0	0.0	0.0
Total	366	819063		35451			2170783		453160		63749			1424850	46690	-971690.0	-1351720.0	365903.0	999.7
Monthly Average							180898.6							118737.5	3890.9	-80974.2	-112643.3	30491.9	1005.5
daily Average														3868.77					

2016- tonnage at landfill site- up-dated April 30th, 2016

2016- tonnage at landfill site- up-dated April 30th, 2016											2015				2016		
MONTH	Residential Waste tonnes	Res %	ICI Waste tonnes	ICI %	Non Community Waste tonnes	Non Com %	Covering Material tonnes	2015	Average last 9 years	2016	Total Fees	Average last 9 years	Total Fees	2016-2015 Tonnes	2016-2015 Fees		
								Total Tonne	Total Tonne	Total Tonne		Fees 2007 to 2015					
JAN	127.94	34.66	232.74	63.04	8.50	2.30	0.00	372.45	359.81	369.18	\$22,076.55	\$17,555.67	\$20,490.00	-3.27	-\$1,586.55		
FEB	117.31	37.25	189.93	60.31	7.68	2.44	0.00	323.82	305.82	314.92	\$17,311.55	\$15,120.16	\$17,474.70	-8.90	\$163.15		
MAR	146.89	37.15	237.97	60.19	10.53	2.66	6.72	446.81	413.51	395.39	\$25,940.55	\$21,116.69	\$23,164.20	-51.42	-\$2,776.35		
APRIL	182.95	31.92	381.96	66.65	8.18	1.43	0.00	609.02	574.14	573.09	\$36,933.10	\$30,100.39	\$34,152.50	-35.93	-\$2,780.60		
MAY		#DIV/0!		#DIV/0!		#DIV/0!		783.04	727.97	0.00	\$40,474.95	\$37,236.70					
JUNE		#DIV/0!		#DIV/0!		#DIV/0!		690.69	802.40	0.00	\$43,913.10	\$38,365.69					
JULY		#DIV/0!		#DIV/0!		#DIV/0!		654.72	679.93	0.00	\$43,552.25	\$37,235.68					
AUG		#DIV/0!		#DIV/0!		#DIV/0!		642.81	630.37	0.00	\$39,041.90	\$33,782.35					
SEPT		#DIV/0!		#DIV/0!		#DIV/0!		719.08	646.67	0.00	\$43,223.58	\$34,032.13					
OCT		#DIV/0!		#DIV/0!		#DIV/0!		2,214.61	815.99	0.00	\$95,565.65	\$40,618.32					
NOV		#DIV/0!		#DIV/0!		#DIV/0!		614.90	564.84	0.00	\$33,016.35	\$28,524.43					
DEC		#DIV/0!		#DIV/0!		#DIV/0!		487.78	397.37	0.00	\$27,125.80	\$21,749.94					
Average per monthly	143.77	36.35	260.65	61.18	8.72	#DIV/0!	1.68		576.57	137.72	\$39,014.61	\$29,619.85	\$23,820.35	-99.52	-6,980.35		
Total	575.09		1042.60		34.89		6.72	8559.73	6918.81	1652.58	\$468,175.33	\$355,438.14	\$95,281.40	-99.52	-\$6,980.35		
												Actual	\$95,281.40				
Town of Fort Frances Tonnage	1617.69																
		increase amount of waste due to waste from Rainy Lake Hotel Demolition											Budget	\$384,888.00			
Total Tonnage	1652.58												Forecasted	\$285,844.20			
Residential Tonnage	575.09	34.80%															
ICI Tonnage	1042.60	63.09%															
Coverage material	6.72																



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Fort Frances WPCP
200 McIrvine Rd
Fort Frances, Ontario
P9A 3S3
Tel: 807-274-3121
Fax: 807-274-8381

May 16, 2016

Town of Fort Frances
320 Portage Avenue
Fort Frances Ontario
P9A 3M5

Attention: Mr. Doug Herr
Environmental and Facilities Superintendent

Dear Doug:

**Re: Fort Frances Wastewater Treatment Facility
April 2016 Monthly Report**

As per the operating agreement, the attached document is the April 2016 monthly report for the Fort Frances Wastewater Treatment Facility.

The report highlights the influent and effluent quality and the process parameters. Additionally, the routine operation and maintenance activities conducted by the operators are summarized.

If you have any questions regarding this report do not hesitate to contact Mr. Larry Wachter – Operations Manager.

Yours truly,

A handwritten signature in black ink, appearing to read 'Kelly CTD'.

Kelly Cunningham
Senior Operator

For Larry Wachter
Operations Manager

**The Corporation of the Town of Fort Frances
Wastewater Treatment Plant
(Sewage Plant)
April 2016 Monthly Operations Report**

INTRODUCTION

In accordance with the Agreement between the Ontario Clean Water Agency (Operating Authority) and the Town of Fort Frances, the Fort Frances Sewage Treatment Plant is required to prepare a monthly report. This document covers the reporting month of April 2016; the facility performance report summarizes important information regarding the quality of the effluent, wastewater, analytical test results, maintenance operations, and relevant activities of the WWTP.

DESCRIPTION OF WORKS

Capacity of Works	9000 m ³ /day (average flow)
Service Area	Town of Fort Frances and Couchiching Reserve
Service Population	9000
Effluent Receiver	Rainy River
Major Process	Secondary treatment facility complete with a phosphorus removal system; ultra violet disinfection; aerobic sludge stabilization and dewatering

The Fort Frances Sewage Treatment Plant received and operates its operation under *Certificate of Approval Number 3-0049-96-006*, in accordance with Section 53 of the Ontario Water Resources Act. The Certificate of Approval outlines the terms and conditions and the report captures these terms and conditions in the following sections.

LABORATORY

ALS Laboratory Group – Thunder Bay is contracted to conduct the required analytical tests of the influent (raw) and effluent samples; weekly requirement.

APRIL 2016 EFFLUENT QUALITY

<i>Parameters</i>	<i>Monthly Actual Concentration mg/L</i>	<i>Compliance Criteria Concentration mg/L</i>	<i>Performance Objective Concentration mg/L</i>	<i>Monthly Actual Loading, kg/d</i>	<i>Compliance Criteria Loading kg/d</i>	<i>Performance Objective Loading kg/d</i>
CBOD ₅	2.4 mg/L	25 mg/L	15 mg/L	20.2 kg/d	225 kg/d	135 kg/d
Total Suspended Solids	5.6 mg/L	25 mg/L	15 mg/L	47.1 kg/d	225 kg/d	135 kg/d
Total Phosphorus	0.13 mg/L	1.0 mg/L	0.9 mg/L	1.11 kg/d	9 kg/d	8.1 kg/d
Total Nitrogen Nitrate Nitrogen	9.72 mg/L 3.20 mg/L					
Total Cl ₂ Residual		<0.01 mg/L (when in use)				
E-Coli		9.3 count/100 ml (geometric mean)		200 count/100ml (geometric mean)		E-coli not to exceed 150 organisms/100ml (monthly geometric mean density)
pH				pH range 7.3 to 7.9; average pH was 7.6		
Temperature degrees C				Temperatures ranged from 7.5 to 8.0; average temperature of effluent was 7.7 C		

Compliance criteria are mandatory requirements of the C of A and performance objectives are a goal to be achieved using best reasonable efforts.

WASTEWATER LIQUID PROCESS

The average daily flow for April was 8462.4 m³/day. This represents 94% of the design average flow. Total treated flow for the month was 253871 m³.

The Fort Frances WWTP met all effluent compliance criteria for the parameters listed above and additionally was well within the recommended more stringent monthly performance objective levels as outlined in the Certificate of Approval.

The Town of Fort Frances agreed to accept 20 loads of 3000 gallons each, for a total of 60000 gallons of sewage hauled from the New Gold Mine site which was received into the collection system in April.

INVENTORY

Chemical	End of Month Status	Units
Hypochlorite	1140 +/-@ 7.0% + 410 @ 12%	Litres
Alum	14.0 +/- @ 60 %	Cubic meters
Polymer	15 Bags (375 kg)	Bags (25 kg/bag)

MAINTENANCE

The operators performed the routine operations and maintenance at the treatment plant and pumping stations. The activities are highlighted as follows:

Treatment Plant:

- Alternated lead/lag pumps
- Adjusted fluidizing water to head cell and grit snail as needed
- Greased GBT, mechanical bar screen and grit snail. Lubricated drive chain on grit snail and bar screen
- Regular cleaning of head works EW basket strainer
- Regular cleaning of seal water strainer TFP 9-5
- Greased all blowers
- Cleaned UV sensors
- Replaced the cutting edge on the snow plow
- Installed new shear pin drive sprocket for clarifier 2 longitudinal drive
- Stored snow blower and chains for John Deere and installed mower deck
- Removed debris from both grit pumps
- Cleaned DO probes and spot checked both aeration cells with YSI portable
- Drained and cleaned Headcell inlet, Teacup and Snail
- Removed rag balls from clarifier 2 inlet weir

Pump Stations:

- Ran gensets
- Changed seal water strainers
- Cleaned bar screens
- Replaced block heater Central Avenue genset
- Repaired seal water tubing Central Avenue pump 2
- Adjusted signal cut off value Boundary Road flow meter and replaced couplant

OPERATIONAL ISSUES

The flow meter at White Pine lift station has failed and we are in the process of obtaining quotes on a suitable replacement. We have also been troubleshooting some issues with the Boundary Road flow meter in consultation with the supplier.

SLUDGE SUMMARY

Asselin Transportation and Storage Limited hauled a total of 228.3 m³ of thickened digested sludge (12.0 m³/load average) to the Town of Fort Frances landfill site.

COMPLAINTS

There were no complaints during the report period.

BY-PASS REPORT(S)

There were no bypass events in the report period.

COMMENTS

Plant power consumption for the month was 594 (x 180 multiplier) kWh.

Quarterly sludge samples and annual Rainbow trout acute lethality samples were sent out to ALS laboratory.

The Proplus Delta V SCADA operator station was replaced.

REPORTS

ALS – Environmental Analytical Reports (on-file at plant)

Fort Frances WPCP Equipment Run Time Report (on-file at plant)

Bypass Report (on-file at plant as per occurrence)

Incident Report (on-file at plant as per occurrence)

Month	Avg. Day Flow m3	Max Day Flow m3	Sewage Flows Year 2016				Usage % Plant Capacity	Sludge Volume Hauled M3	Removal Efficiency		
			Total Treated Volume ML	Total ByPass Volume ML	Total Volume ML	CBOD5			Suspended Solids	Total Phosphorus	
January	5668.1	5900	175712		175712	63%	249.9				
February	5417.8	5665	157117		157117	60%	251.7				
March	7463.4	12988	231365		231365	83%	212.7				
April	8462.4	10027	253871		253871	94%	228.3				
May						0%					
June						0%					
July						0%					
August						0%					
September						0%					
October						0%					
November						0%					
December						0%					
Sum				0	818065		942.6				
Average	6753		204516		204516	75%	235.7				
Max		12988	253871		253871						
C of A	9000	18000									

	CBOD5			Suspended Solids			Total Phosphorus			Nitrogen		
	Avg. Raw	Avg. Eff.	Avg. Load	Avg. Raw	Avg. Eff.	Avg. Load	Avg. Raw	Avg. Eff.	Avg. Load	Avg. Raw	Avg. Eff.	
Month	BOD	CBOD	CBOD	S.S	S.S	S.S	T.P	T.P	T.P	TKN	Total N	Geo Mean
	(mg/L)	(mg/L)	(kg/day)	(mg/L)	(mg/L)	(kg/day)	(mg/L)	(mg/L)	(kg/day)	(mg/L)	(mg/L)	/100ml
January	87.0	2.4	13.5	142.4	6.0	34.7	2.41	0.15	0.83			23.7
February	74.3	3.5	18.5	132.5	4.3	23.2	2.12	0.11	0.57	17.3	8.9	19.3
March	65.2	2.3	16.1	112.4	5.7	47.7	1.87	0.11	0.94	15.1	9.7	21.4
April	57.5	2.4	20.2	110.8	5.6	47.1	1.54	0.13	1.11	12.0	9.7	9.3
May												
June												
July												
August												
September												
October												
November												
December												
Average	71.0	2.7	17.1	124.5	5.4	38.2	2.0	0.13	0.86	14.8	9.4	18.4
Max	87	3.5	20.2	142.4	6	47.7	2.4	0.15	1.11	17.3	9.7	23.7
C of A		25	225		25	225		0.9	9	200	6.0	200