

# TOWN OF FORT FRANCES

## Operations and Facilities Executive Committee

AGENDA - November 18, 2015, 8:30 AM

### MEETING - Civic Centre

Session #020

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<b>1</b> <b><u>Call to Order</u></b>	
<b>2</b> <b><u>Disclosure of pecuniary interest and the general nature thereof</u></b>	
<b>3</b> <b><u>Approval of Previous Committee Minutes</u></b>	
3.1     Minutes from the meeting of this Committee on November 1, 2015.	2 - 3
<b>4</b> <b><u>Non-agenda Items</u></b>	
<b>5</b> <b><u>New Business</u></b>	
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<b>6</b> <b><u>Outstanding Items</u></b>	
6.1     Sanitary Sewer-Bylaw	
<b>7</b> <b><u>Information</u></b>	
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7.7     2015 Tonnage at Landfill Site - updated November 1st, 2015	39
<b>8</b> <b><u>Adjourn / Next Meeting Date</u></b>	

TOWN OF FORT FRANCES

MINUTES

SESSION NO. #019

November 1, 2015

The meeting of Operations & Facilities Executive Committee of the Town of Fort Frances was held in the Civic Centre on November 1, 2015 from 12:05 p.m. to 2:30 p.m.

PRESENT: Paul Ryan, Chairperson, Doug Kitowski and Doug Brown.

ALSO PRESENT: Mayor Avis ( 1:00 p.m. to 2:30 p.m.)

**1. Call to Order**

The meeting was called to order at 12:05 p.m.

**2. Disclosure of pecuniary interest and the general nature thereof**

None

**3. Approval of Previous Committee Minutes**

3.1 Minutes from the meeting of this Committee on October 21, 2015 - the minutes were approved as circulated.

**4. Non-agenda Items**

None

**5. New Business**

5.1 2016 Operations and Facilities Division User Fees and Charges - the draft user fees report and spreadsheets were reviewed where the following revisions were introduced ;

1) The bag tags cost will remain the same as in 2015 set at \$2.25.

2) The minimum tipping fee at the landfill site will remain the same as in 2015 set at \$18.00.

3) All cemetery interment fees will be increased by \$12.00 + 1.2% which reflects the same cost to the Town for the provincial cemetery licensing fee.

4) **New for 2016** - is the implementation of a minimum charge for providing services to unplug a blockage in a sanitary sewer service line;

a) during regular business hours - \$25.00

b) regular overtime - \$37.50

c) on a statutory holiday - \$50.00

The revisions will be reflected in the administration report which will be forwarded to Council for approval.

5.2 2016 Operations and Facilities Division Proposed Operating and Capital Budget - (packages attached) - the first draft of the 2016 Operating and Capital Budget for the Operations and Facilities Division was reviewed. All members of the Operations and Facilities Executive Committee were given an opportunity to ask questions and receive clarification.

**6. Outstanding Items**

6.1 Sanitary Sewer By-Law - to be discussed at a later date.

**7. Adjourn / Next Meeting Date**

The meeting was adjourned at 2:30 p.m.

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Executive Committee Chair

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D. Brown, Manager of Operations & Facilities

November 13, 2015

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

**SUBJECT: Awarding Tender 15-OF-17 – Supply of New Municipal (Sidewalk) Tractor c/w Snowblower & Boom Flail Mower Attachments - O & F Division Operations**

As you are aware the approved 2015 capital budget included the purchase of one new sidewalk machine c/w sidewalk size snowblower & Boom Flail Mower attachments where the original budget was forecasted at \$120,000.00

The tender documents and specifications were developed to be generic in nature to ensure the two main municipal sidewalk tractor manufacturers (Hodder & Trackless) could meet the specifications and that the Town could select the low tender.

Please find attached an administration report prepared by Milt Strachan, Transportation Superintendent outlining the results of the tender received & pertinent information on the new sidewalk tractor.

In accordance with the Town's procurement policy, Administration has an obligation to point out to Council any tender irregularities. The tender submitted by Joe Johnson Equipment meets all the specifications outlined in the tender documents. See attached pictures of the trackless MT6 Municipal Tractor c/w snowblower & boom flail mower attachments.

The net cost of the new sidewalk machine is \$155,659.71 where there is a budget shortfall of \$35,659.71. It is recommended that this budget shortfall be financed through either a 2015 capital budget surplus or taken out of the corporate vehicles/equipment reserve funds during the 2015 year-end budget process. The new tractor will be delivered within 45 to 90 days once the tender is awarded.

The Operations & Facilities Executive committee recommends the following;

- 1) That one MT6 Municipal Tractor in compliance with the tender documents 15-OF-17 be awarded to Joe Johnson Equipment Inc. at a total cost of \$172,853.25 (all taxes included).
- 2) That the budget shortfall of \$35,659.71 will be financed through either a 2015 capital budget surplus or taken out of the corporate



vehicles/equipment reserve funds during the 2015 year-end budget process.

Respectfully Submitted  
Operations & Facilities Division



Doug Brown, P. Eng.  
Operations and Facilities Manager

**Council approval of this report will ensure the following;**

1. That one MT6 Municipal Tractor in compliance with the tender documents 15-OF-17 be awarded to Joe Johnson Equipment Inc. at a total cost of \$172,853.25 (all taxes included).
2. That the budget shortfall of \$35,659.71 will be financed through either a 2015 capital budget surplus or taken out of the corporate vehicles/equipment reserve funds during the 2015 year-end budget process.

2015NovemberMunicipalTractor

November 13, 2015

Report To: Doug Brown, Manager of Operations and Facilities

From: Milt Strachan, Transportation Superintendent

**SUBJECT: Tender No. 15-OF-17 – New Municipal/Parks Tractor with 51 Inch Snow Blower and 51 Inch Boom Flail**

There was only one bid received, from Joe Johnson Equipment Inc. at a price of \$152,967.48 plus HST of \$19,885.77 for a total of \$172,853.25. This piece of equipment meets all of the specifications in the Tender package.

The Boom Mower attachment will give us the ability to do the roadside cutting that is presently contracted out at a cost of approximately \$8,000.00 per summer. I think that it would improve the quality of the roadside cutting and give us flexibility to do the cuts when we want as opposed to waiting for the availability of the contractor.

It is my recommendation that the Town of Fort Frances purchase the Municipal Parks/Tractor with 51 Inch Snow Blower and 51 Inch Boom Flail from Joe Johnson Equipment Inc. at the tendered price.

Sincerely,

Milt Strachan  
Transportation Superintendent



# T *rackless* V E H I C L E S



## Series MT6 - Municipal Tractor

**trackless**  
**MT**

*Advanced design for maximum  
productivity, safety and comfort  
... from the leader in the municipal tractor field*



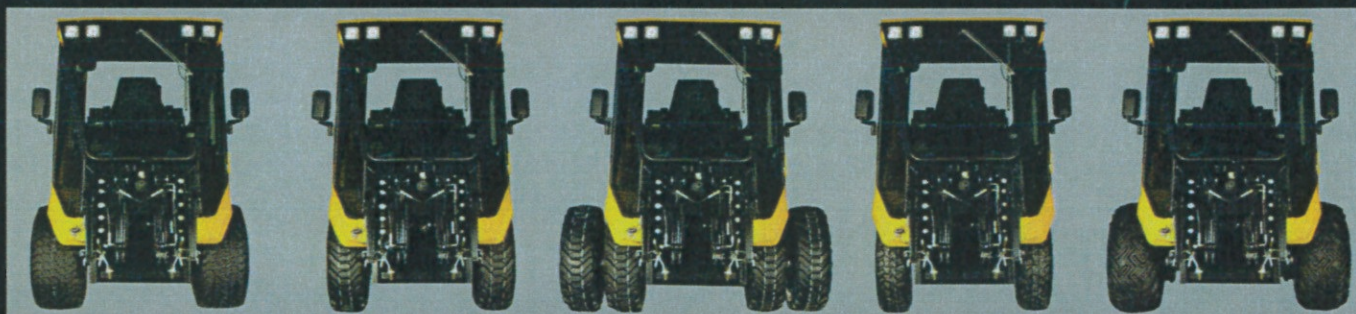
THE



*trackless*

TEAM "AT YOUR SERVICE"

### Wheel and Tire Selection



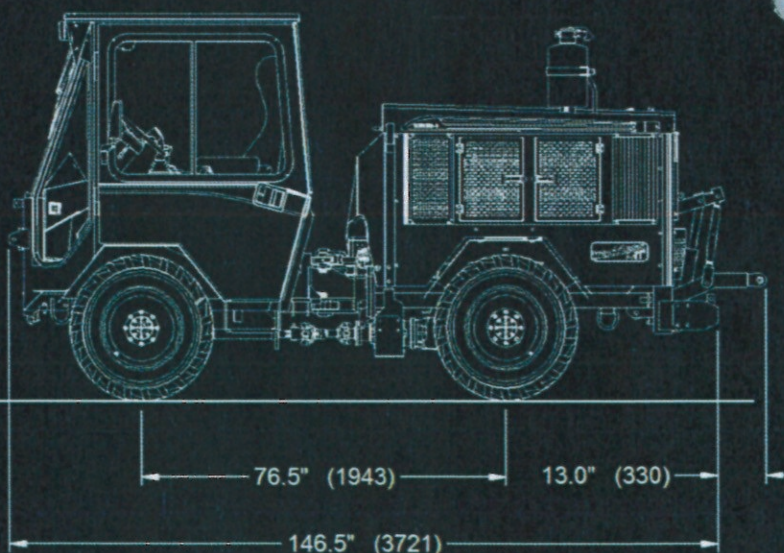
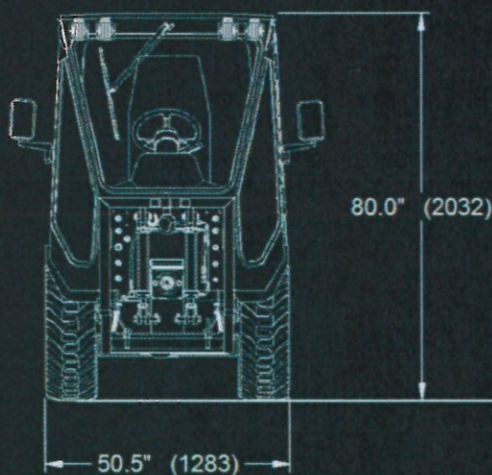
32 X 13.50 X 15  
Summer Turf  
Option 2

31 X 10.00 X 16.5  
Loader Lug  
Standard Equipment

31 X 10.00 X 16.5  
Dual Loader Lug  
Option 3

LT 245 / 75R X 16  
Winter Radial  
Option 1

32 X 15.5 X 15  
Tera Grip Turf  
Option 2-1  
(with axle extensions)  
(Option 11)



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## 50" - 80" Snowblowers



The Trackless Snowblower is a highly efficient, two stage, twin auger unit that has no equal in removing snow from sidewalks.

It is available in four widths; 51 inch, 60 inch, 70 inch and 80 inch. All will accept either a sidewalk chute or a quick change truck loading chute. Many municipalities utilize both chutes with their snowblower. After clearing their sidewalks, they change to the truck loading chute to load windrowed snow from the street or from cul de sacs. In both cases, the manoeuvrability and physical size of the MT and snowblower are less apt to create traffic congestion than larger snowblowers. An average loading time for the MT and snowblower is seven yards per minute.

Overall heavy duty construction includes 3/8 inch-thick side plates, double wall impeller housing and a 15 inch diameter bearing assembly for smooth, accurate chute rotation. High strength, low alloy steel augers with ice picks and a heavy duty balanced impeller, easily handle the toughest snow conditions.

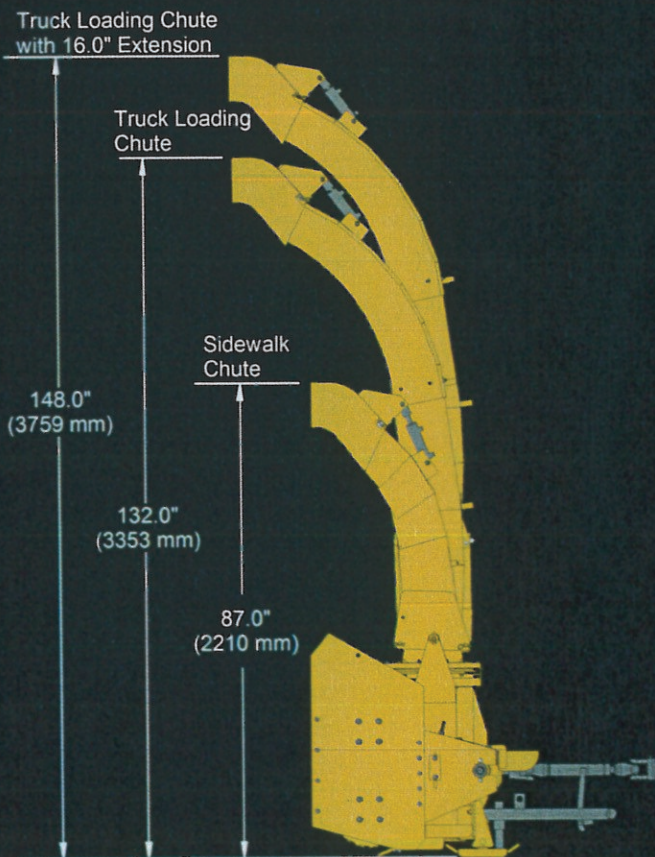
The snowblower is manufactured by Trackless Vehicles to ensure that the quality and service parts availability is equal to that of the MT.

Positive and accurate steering of the snowblower in confined areas and around obstructions is due to the articulated steering of the MT. The ability to move the snowblower sideways by simply turning the steering wheel allows the operator to safely approach any obstruction.

**For further evaluation, a demonstration may be arranged.**

### Specifications

Housing: 51" wide x 38" high with 3/8" end plates.  
 Augers: 2 - 13" diameter spiral with ice picks.  
 Impeller: 6" x 24" - 4 blade.  
 Impeller housing liner: Two-piece (replaceable).  
 Turntable: Ball bearing.  
 Chute rotator: Hydraulic motor.  
 Chute deflector: Hydraulic cylinder controlled.  
 Cutting edge: 6" x 3/8" hardened (reversible).  
 Shear bolts: On auger drive and main PTO drive.  
 Adjustable cutting height: Using top link.  
 Quick change truck loading chute: 11' clearance.  
 Weight: 1,050 lbs.  
 HP rating: 125.





# Boom Flail Mower



## Specifications

Width of cut: 51"; overall width of head 64-1/2".  
Horizontal reach: Center of MT6 to outside cut 13-1/2'.  
Below grade cut: 53".  
Vertical reach: 13-1/2'.  
Overall level ground cutting coverage: 11', starting 5" inside outer tire.  
Number of cutting blades: 36.  
Weight: wet and with counterweights – 1,960 lbs.



Almost every municipality has several areas which are difficult, unsafe or impossible to mow. Ditch, steep incline, over guard rail and waters-edge cutting become problems of the past once the Trackless Boom Flail enters the scene.

Trackless Boom Flail advantages include:

- 1) Better visibility than side or rear mount boom flails resulting in less operator fatigue and safer operation.
- 2) Can be removed from the Trackless MT6 in approximately 10 minutes. Within minutes another attachment can be installed and the operator can be on the way to another job site.
- 3) Hydrostatic control of the ground speed allows the operator to react more quickly when approaching an obstruction. It also allows the operator the ability to constantly vary the ground speed, as necessary, without shifting gears, which results in higher productivity.
- 4) Compact size of the Trackless MT6 and boom flail interferes with passing traffic less than larger agricultural-type tractor/mower combinations. The compact size is also beneficial when transporting to and from the job site.



November 16, 2015

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

**SUBJECT: October 2015 Drinking Water Systems Monthly Summary Report**

Please find attached the October 2015 Summary Report on the drinking water systems, prepared by Randy White, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the October 2015 report as presented.

Respectfully submitted,  
Operations & Facilities Division



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

<p><b>Council approval of this report will</b> accept the October 2015 Drinking Water Systems Monthly Summary Report and approve the report prior to it being made available to the general public.</p>
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c.c. – Doug Herr, Environmental & Facilities Supt.  
Randy White, Senior WTP Operator

03CouncilwaterreportMarch 2015

**October, 2015**

**Monthly Summary Report  
Water Systems**

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

**Dated: November 13, 2015**



## 1) **Introduction -**

This report contains the major maintenance activities and operational events that occurred during the month of October 2015 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 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**

Oct. 1 <sup>st</sup>	worked on air compressors
Oct. 2 <sup>nd</sup>	cleaned top and bottom tanks on the poly unit cleaned all 4 check valves on the poly unit worked on air compressors (safety guards)
Oct. 5 <sup>th</sup>	calibrated dist chlorine analyzer took grab samples off the filters
Oct 13 <sup>th</sup>	changed all the filters on the dust collection system
Oct 16 <sup>th</sup>	calibrated dist chlorine analyzer
Oct 22 <sup>nd</sup>	took grab samples from filters
Oct 23 <sup>rd</sup>	calibrated the dist chlorine analyzer
Oct 29 <sup>th</sup>	cleaned top and bottom tanks on the poly unit cleaned all 4 check valves on the poly unit

**8) Water Complaints –**

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

9) **Other Miscellaneous Information:**

Oct 5 <sup>th</sup>	routine micro sample collection new main samples – Kings Highway – 1 <sup>st</sup> set
Oct 6 <sup>th</sup>	new main samples – Kings Highway – 2 <sup>nd</sup> set new main samples – Nelson Street – 1 <sup>st</sup> set
Oct 7 <sup>th</sup>	new main samples – Nelson Street – 2 <sup>nd</sup> set
Oct 8 <sup>th</sup>	resample micro sample collection
Oct 13 <sup>th</sup>	routine micro sample collection lead testing samples on distribution system
Oct 14 <sup>th</sup>	received a bulk load of soda ash new main samples at Acklands – 1 <sup>st</sup> set
Oct 15 <sup>th</sup>	new main samples at Acklands – 2 <sup>nd</sup> set
Oct 19 <sup>th</sup>	routine micro sample collection new main samples Butler and Nelson – 1 <sup>st</sup> set main repair samples at Simplicity – 1 <sup>st</sup> set main repair samples at 526 First Street West – 1 <sup>st</sup> set
Oct 20 <sup>th</sup>	new main samples at Butler and Nelson – 2 <sup>nd</sup> set main repair samples at Simplicity – 2 <sup>nd</sup> set main repair samples at 526 First Street West – 2 <sup>nd</sup> set took samples on new main – Kings Highway – 1 <sup>st</sup> set
Oct 21 <sup>st</sup>	took samples on new main – Kings Highway – 2 <sup>nd</sup> set
Oct 26 <sup>th</sup>	routine micro sample collection took the DWSP samples
Oct 27 <sup>th</sup>	received a shipment of chlorine
Oct 28 <sup>th</sup>	repair samples at Riverview and Elm – 1 <sup>st</sup> set 560 Elm Avenue new main sample – 1 <sup>st</sup> set
Oct 29 <sup>th</sup>	repair samples at Riverview and Elm – 2 <sup>nd</sup> set 560 Elm Avenue new main samples – 2 <sup>nd</sup> set

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: \_\_\_\_\_
- John Albanese, Councillor: \_\_\_\_\_
- June Caul, 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.

Flow Data	October	Units	2013		2014		2015	
			Day of the Month		Day of the Month		Day of the Month	
Total Raw Water	m <sup>3</sup>		145180		132900		170410	
Raw Maximum Day	m <sup>3</sup>	Sunday 13th	4990	Sunday 05th	4410	Saturday 24th	5730	
Raw Minimum Day	m <sup>3</sup>	Monday 7th	4310	Monday 06th	4140	Monday 26th	5230	
Raw Average Daily Consumption	m <sup>3</sup>		4680		4290		5500	
Total Treated Water	m <sup>3</sup>		113160		106970		123450	
Treated Water Maximum Day Consumption	m <sup>3</sup>	Wednesday 2nd	4100	Monday 27th	4020	Monday 05th	4720	
Treated Water Minimum Day Consumption	m <sup>3</sup>	Tuesday 29th	3410	Monday 13th	3000	Monday 26th	3210	
Treated Water Average Day Consumption	m <sup>3</sup>		3650		3450		3980	
Daily Average Per Household Consumption Rate	m <sup>3</sup>		0.96		0.91		1.05	
* Daily Average Per Person Consumption Rate	m <sup>3</sup>		0.46		0.43		0.50	
Monthly Averages - Operating Parameters WTP:								
FAC Residual - Treated Water	mg/L		1.87		1.92		2.16	
Total Chlorine Residual - Treated Water	mg/L		2.19		2.22		2.55	
Aluminum Sulphate - Raw Water	mg/L		34.0		36.9		35.0	
Aluminum Sulphate - Treated Water Residual	mg/L		0.06		0.04		0.03	
Fluoride - Treated Water	mg/L		0.66		0.71		0.56	
Soda Ash - Raw Water	mg/L		34.0		35.0		35.0	
PH - Adjusted	mg/L		7.13		7.19		7.20	
Temperature	C		12.5		10.9		12.0	
Quantity of Chemical Used:								
Aluminum Sulphate	kg		4936.1		4906.5		5964.4	
Polyelectrolyte	kg		50.0		50.0		62.5	
Chlorine Gas	kg		609		583		789	
Soda Ash - Used for PH Adjustment	kg		4936.1		4651.5		5964.4	
Fluoride	kg		489		444		492	

\* The Canadian Average is 450 Litres (0.45 m<sup>3</sup>) per day.

\* Population is 7986

\* Number of Households is 3783

Town of Fort Frances - Water treatment Plant - Water Works # 220000978  
Monitoring Record  
October 2015

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	31	Total	Average	
		or Range																																		
Flow rates																																				
Raw Water	10^3 M^3	17	5.59	5.53	5.35	5.63	5.57	5.50	5.51	5.52	5.49	5.62	5.56	5.56	5.27	5.50	5.50	5.52	5.46	5.49	5.45	5.47	5.45	5.53	5.38	5.73	5.51	5.23	5.47	5.42	5.51	5.49	5.60	170.41	5.50	
Peak Instantaneous - Raw Water	L/s	n/a	64.65	64.66	64.58	64.54	64.58	64.62	64.58	64.46	64.53	64.38	64.43	64.37	64.27	64.23	64.29	64.21	64.13	64.03	63.97	63.88	64.09	64.13	64.03	64.03	64.12	63.93	64.07	63.95	63.97	64.13	63.88	1991.72	64.25	
Treated Water	10^3 M^3	17	4.38	4.68	4.18	4.41	4.72	4.56	4.58	4.31	4.22	4.32	4.56	4.13	4.29	4.18	4.22	4.09	3.65	3.42	4.03	3.58	4.06	3.40	3.66	3.42	3.72	3.21	3.43	3.75	3.49	3.23	3.57	123.45	3.98	
Peak Instantaneous - Treated Water	L/s	n/a	74.83	75.85	75.07	75.63	74.42	74.65	76.42	74.43	74.99	75.27	74.09	75.06	87.24	83.99	88.41	84.91	83.18	89.70	85.12	82.40	84.28	81.55	83.04	81.87	84.17	83.13	83.00	79.34	80.98	72.85	2399.87	80.00		
BackWash Water	10^3 M^3	n/a	0.231	0.250	0.229	0.234	0.246	0.225	0.232	0.250	0.220		0.237	0.233	0.219	0.232	0.240	0.224	0.233	0.244	0.224	0.232	0.225	0.225	0.229	0.229	0.225	0.231	0.243	0.225	0.232	0.244	0.224	6.967	0.232	
Fluoride Information																																				
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.62	0.53	0.60	0.62	0.53	0.55	0.51	0.61	0.60	0.55	0.52	0.55	0.57	0.61	0.58	0.52	0.57	0.56	0.57	0.57	0.58	0.59	0.57	0.55	0.53	0.51	0.51	0.53	0.58	0.57	0.52	17.38	0.56	
Turbidity Information																																				
Raw Water	NTU	n/a	1.70	1.68	1.59	1.63	1.71	1.46	1.37	1.62	1.51	1.56	1.47	1.49	1.74	1.62	1.88	1.51	1.63	1.45	1.75	1.44	1.53	1.47	1.58	1.51	1.44	1.57	1.37	1.50	1.53	1.45	1.37	48.13	1.55	
Settled Water	NTU	n/a	0.11	0.11	0.10	0.10	0.16	0.13	0.12	0.13	0.12	0.11	0.12	0.12	0.19	0.14	0.15	0.12	0.11	0.16	0.15	0.14	0.15	0.12	0.11	0.12	0.11	0.14	0.11	0.17	0.13	0.12	0.11	3.98	0.13	
Treated Water	NTU	1	0.07	0.07	0.05	0.04	0.08	0.08	0.07	0.09	0.09	0.08	0.09	0.10	0.09	0.08	0.10	0.08	0.08	0.10	0.08	0.08	0.07	0.05	0.04	0.06	0.06	0.08	0.08	0.09	0.08	0.09	0.07	2.37	0.08	
Other Operating Parameters																																				
pH - Treated Water	no units	6.5 to 8.5	7.30	7.15	7.24	7.16	7.26	7.23	7.21	7.18	7.15	7.19	7.12	7.17	7.18	7.21	7.21	7.14	7.18	7.18	7.24	7.19	7.23	7.27	7.24	7.25	7.21	7.16	7.25	7.27	7.19	7.15	7.12	223.23	7.20	
pH - Settled water	no units	n/a	6.59	6.34	6.21	6.19	6.42	6.45	6.41	6.62	6.54	6.50	6.41	6.39	6.37	6.52	6.68	6.72	6.78	6.53	6.77	6.54	6.54	6.42	6.36	6.31	6.40	6.84	6.62	6.34	6.48	6.37	6.39	201.05	6.49	
pH - Raw Water	no units	n/a	7.12	7.05	7.01	7.04	7.13	7.09	7.00	7.18	7.15	7.09	7.00	7.12	7.08	7.16	7.16	7.17	7.09	7.14	7.13	7.08	7.10	7.06	7.01	7.00	70.07	7.16	7.15	7.19	7.12	7.09	7.01	282.95	9.13	
FAC - Treated Water	mg/l	0.2 to 4	2.46	2.09	2.09	2.07	2.46	2.42	2.21	2.54	1.99	1.86	2.26	2.18	2.19	2.22	2.08	1.92	2.15	2.01	2.15	2.23	2.18	2.10	2.21	2.08	2.10	2.12	1.97	2.10	2.08	2.23	2.28	67.03	2.16	
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.70	2.86	2.62	2.52	2.80	2.88	2.37	2.82	2.20	2.17	2.39	2.37	2.92	2.70	2.74	2.68	2.66	2.72	2.68	2.64	2.68	2.56	2.63	2.25	2.30	2.50	2.40	2.22	2.24	2.31	2.39	78.92	2.55	
Temperature	C	15	16.0	16.0	16.0	15.0	15.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.0	13.0	12.0	12.0	11.0	11.0	11.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	9.0	8.0	8.0	8.0	371.0	12.0	
Fluoride used (Total Daily Consumption)	kg	n/a	16.0	16.0	16.0	16.0	17.0	16.0	16.0	16.0	16.0	16.0	16.0	15.0	15.0	16.0	16.0	16.0	15.0	16.0	16.0	16.0	15.0	16.0	15.0	16.0	15.0	15.0	17.0	15.0	15.0	16.0	18.0	17.0	492.0	15.9
Chlorine used (Total Daily Consumption)	kg	n/a	27.0	27.0	25.0	27.0	27.0	26.0	27.0	26.0	26.0	27.0	26.0	26.0	26.0	26.0	26.0	27.0	26.0	26.0	26.0	25.0	26.0	26.0	25.0	26.0	24.0	22.0	23.0	22.0	23.0	24.0	23.0	789.0	25.5	
Soda ash (Total Daily Consumption)	kg	n/a	195.7	193.6	187.3	197.1	195.0	192.5	192.9	193.2	192.2	196.7	194.6	194.6	184.5	192.5	192.5	193.2	191.1	192.2	190.8	191.5	190.8	193.6	188.3	200.6	192.9	183.1	191.5	189.7	192.9	192.2	196.0	5964.4	192.4	
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	35.0	1085.0	35.0	
Alum residual - (Total Daily Consumption)	kg	n/a	195.7	193.6	187.3	197.1	195.0	192.5	192.9	193.2	192.2	196.7	194.6	194.6	184.5	192.5	192.5	193.2	191.1	192.2	190.8	191.5	190.8	193.6	188.3	200.6	192.9	183.1	191.5	189.7	192.9	192.2	196.0	5964.4	192.4	
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	35.0	1085.0	35.0	
Alum residual - Treated Water	mg/l	0.1	0.03	0.01	0.02	0.03	0.03	0.01	0.01	0.02	0.04	0.04	0.02	0.04	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.03	0.04	0.04	0.03	0.03	0.03	0.04	0.03	0.04	0.04	0.02	0.81	0.03	
Poly bags added (25 kg bags )	kg			0.5				0.5								0.5						0.5								0.5				62.5		

2015 CAPITAL BUDGET as of November 1st, 2015

O & F Division	G/L Code	TOTAL BUDGET	Budget as of October 31, 2015	Variance	Notes
TRANSPORTATION					
Public Works Buildings/General Misc.					
1 Engineering and O&F Managers Office Upgrades	C-310-9127-1471	12,000	4,302	7,698	99% of the work is completed as of August 21,2015
2 Salt Shed Storage Building	C-310-9113-1523	528,278	468,156	60,122	Substantial Completion as of August 21, 2015 - outstanding 2nd lift of asphalt completed on October 5, 2015
3 PW Garage Exterior Renovations & 7 Overhead Doors	C-310-9127-1523	150,000	34,163	115,837	Contract awarded to Ed Kaun & Sons on July 13, 2015- Presently working on new exterior siding
4 Public Works Small Equipment	C-310-9105-1471	8,000	7,661	339	
		698,278	514,282	183,996	
Large Equipment & Vehicles					
5 Snowplow Truck - 1997 Replacement (2014 Carryover)	C-334-9244-1471	237,000	235,722	1,278	New Plow Truck on site as of January 29,2015
6 Street Sweeper (2001 Replacement)	C-334-9292-1471	325,000	776	324,224	Tender closes on June 29, 2015 Tender awarded to Joe Johnson on July 13, 2015 delivered around April 1st, 2016.
7 Sidewalk Machine c/w Blower Attachment	C-334-9230-1471	120,000	0	120,000	Milt preparing tender adveretising on October 7, 2015, tender closes on November 10
		682,000	236,498	445,502	
Small Vehicles					
8 Replace V180 - 2002 Ford F250 3/4 Ton Truck c/w 4 Wheel Drive	C-333-9133-1471	40,000	28,234	11,766	Awarded Tender to MacDonald Motors on April 13,2015- Vehicle on site 2nd week of August
		40,000	28,234	11,766	
Roads					
9 Concrete Repairs Portage Ave/CNR East abutment Wall Phair Ave from 3rd - 5th Streets (200 meters Sanitary Main replacement)	C-313-9110-1523	150,000	50,757	99,243	90% of the work completed as of Tuesday August 18, 2016- asphalt patch still outstanding
10 Nelson Street from Butler Ave to Shevlin Wood yard (105 meters Sanitary Main replacement)	C-313-9271-1523	462,667	43,331	419,336	rescheduled to 2016
11	C-313-9272-1523	308,532	17,215	291,317	
Connecting Link					
				0	
Kings Hwy 11-71 Reconstruction from west of Wright Ave to east of York	C-316-9273-1523	2,059,755	1,281,250	778,506	Bay City on site as May 19, 2015 - 10 days on - 12 hours days
		2,980,954	1,392,554	1,588,401	
Sidewalks					
Phair Ave from 3rd - 5th Streets (200 meters Sanitary Main replacement)	C-320-9271-1523	98,163	6,047	92,116	
14 Nelson Street from Butler Ave to Shevlin wood yard	C-320-9272-1523	13,406	644	12,762	
Kings Hwy 11-71 Reconstruction from west of Wright Ave to east of York	C-320-9273-1523	51,556	26,155	25,400	
16 Keating Ave to JW Walker to 1st Street (Traffic Safety Committee)	C-320-9274-1523	65,000	52,565	12,435	
		228,125	85,411	142,713	
Streetlight Pole Replacement					
17 20 Poles Replaced along Waterfront	C-345-9135-1471	25,000	25,216	(216)	As of June 5 shipped new street light poles to International Falls, MN- New Poles installed by Friday July 3rd, 2015
		25,000	25,216	(216)	
TOTAL TRANSPORTATION					
		4,654,357	2,282,195	2,372,162	
PARKS & CEMETERIES					
Parks					
18 Small Equipment Replacement (Mowers & whipper snippers)	C-580-9105-1471	5,000	4,355	645	
19 60" wide Snow Plow attachment for Large JD Tractor	C-580-9174-1471	5,500	6,105	(605)	New blower delivered in July
20 Replace V411 - 1992 Chevy Truck (2-Wheel Drive)	C580-9133-1471	30,000	26,305	3,695	Awarded Tender to MacDonald Motors on April 13,2015 Truck delivered on July 22,2015.
Cemeteries					
21 Riding Lawn Mowers - Trade in existing two mowers	C-580-9157-1471	16,586	10,276	6,310	both mowers delivered on April 28, 2015
TOTAL PARKS & CEMETERIES					
		57,086	47,040	10,046	
AIRPORT					
22 Video Surveillance System	C-390-9105-0000	3,000	2,939	61	Surveillance Equipment Installed as of May 15
Front End Loader c/w Sweeper - ASCAP Funding (Dependent on Funding)	C-390-9257-1471	216,427	161,780	54,647	Tender closes on June 9, 2015 at 2:00 pm low tender with ACAP funding. Award to supplier on June 22, 2015 delivered on September 9, 2015
24 Replacement Loader-Mounted Snow Blower	C-390-9293-1471	119,250	0	119,250	funding. Award to supplier on June 22, 2015 delivered sometime in October of 2015
TOTAL AIRPORT					
		338,677	164,719	173,958	
WASTE MANAGEMENT SYSTEM					
Transfer Station Upgrades - Installation of 2 Stationary Compactors (2014 Carryover)	C-351-9128-1471	218,275	47,841	170,434	delivered compaction equipment on July 22, 2015 still some deficiencies not fully operational as of August 25, 2015
		218,275	47,841	170,434	
ENVIRONMENT					
Sanitary Sewer - Collection System					
26 Sanitary Sewer Tools & Equipment	C-410-9105-1471	12,000	4,900	7,100	
27 Refurbishing Sanitary Manholes	C-410-9138-1523	162,400	79,720	82,680	Tom Veert completed work of July 3rd, 2015
28 Design for Infrastructure Renewal Project	C-410-9238-1523	37,500	0	37,500	
Kings Hwy 11-71 Reconstruction from west of Wright Ave to east of York	C-410-9273-1523	364,814	258,821	105,993	
Nelson Street from Butler Ave to Shevlin wood yard (105 meters Sanitary Main replacement)	C-410-9272-1523	157,442	151,924	5,518	
Phair Ave from 3rd - 5th Streets (200 meters Sanitary Main replacement)	C-410-9271-1523	220,607	27,146	193,461	
		954,763	522,512	432,251	
Sewage Treatment Plant					
32 Misc. Capital Upgrades	C-413-9108-1471	120,000	48,357	71,643	
Sludge Dewatering Equipment & Installation of Secondary Clarifier					
33 Chains	C-413-9290-1523	800,000	172,528	627,472	New dewatering equipment ordered in June of 2015
34 Honeywell Improvements at STP including Street lighting	C-413-9280-0000	50,406	0	50,406	
		970,406	220,885	749,521	
Water System					
Water Distribution System					
35 Miscellaneous Tools/Equipment	C-961-9105-1471	12,000	8,626	3,374	
36 Replacing Main Line Water Valves/Hydrants	C-961-9137-1523	211,300	76,325	134,975	Tom Veert completed work of July 3rd, 2015- One fire Hydrant outstanding as of August 25, 2015
37 Design for Infrastructure Renewal Project for 2016 construction work	C-961-9238-1523	37,500	0	37,500	
Kings Hwy 11-71 Reconstruction from west of Wright Ave to east of York	C-961-9273-1523	704,545	542,816	161,729	
Nelson Street from Butler Ave to Shevlin wood yard (105 meters Sanitary Main replacement)	C-961-9272-1523	126,778	98,838	27,940	
Phair Ave from 3rd - 5th Streets (200 meters Sanitary Main replacement)	C-961-9271-1523	203,145	30,747	172,398	
		1,295,268	757,353	537,915	
Water Treatment Plant					
41 Misc. Small Capital Equipment	C-965-9105-1471	60,000	13,727	46,273	
42 Back-up Generator	C-965-9260-1471	357,000	344,890	12,110	Generator installed and fully operational as July 24, 2015
		417,000	358,617	58,383	
TOTAL ENVIRONMENT					
		3,637,437	1,859,366	1,778,071	
PW		4,654,357	2,282,195	2,372,162	49.03%
Waste Management		218,275	47,841	170,434	21.92%
Airport		338,677	164,719	173,958	48.64%
Parks		57,086	47,040	10,046	82.40%
Water		1,712,268	1,115,970	596,298	65.17%
Sewer		1,925,169	743,397	1,181,772	38.61%
Total		8,905,832	4,401,161	4,504,671	49.42%

**OPERATIONS AND FACILITIES DIVISION - PUBLIC WORKS AREA**  
**OPERATIONS STATISTICS**  
**September 2015**

**STAFFING**

The following table is a breakdown of lost man shifts during the month:

	2014	2015
WSIB	0.00	0.00
WI/LTD	5.00	22.00
SICK DAYS	7.31	3.13
COMPASSIONATE LEAVE	0.00	0.00
FLOATERS	3.00	0.00
VACATION	34.25	24.81
BANKED TIME USED	16.47	22.00
OFF	0.00	2.00
STATUTORY HOLIDAYS	22.00	23.00
<b>TOTAL</b>	<b>88.03</b>	<b>96.94</b>

**OVERTIME HOURS**

Equivalent Straight Time Hours:

	2014	2015	2014	2015
	Sept	Sept	Year To	Year To
			Date	Date
ADMINISTRATION	0.00	0.00	0.00	0.00
FLOODING	0.00	0.00	1162.25	294.75
BUILDING/YARDS	0.00	0.00	5.25	0.00
INTERDEPARTMENTAL	9.75	0.00	24.75	21.75
PRIVATE WORK	4.00	10.25	27.50	108.50
RECYCLE/GARBAGE	22.25	12.75	29.75	23.25
ROADS	18.00	24.00	633.50	295.50
SEWER COLLECTION	12.00	38.50	639.38	430.25
SIDEWALKS	9.75	8.25	58.50	31.50
STORES	0.00	0.00	39.00	24.00
VEHICLE & EQUIPMENT	0.00	0.00	85.00	27.00
WATER TREATMENT PLANT	12.00	44.00	248.13	434.75
WATER DISTRIBUTION	54.00	21.00	2749.25	376.75
WATER TOWER	0.00	0.00	0.75	8.00
<b>TOTAL</b>	<b>141.75</b>	<b>158.75</b>	<b>5703.00</b>	<b>2076.00</b>



# **TRANSPORTATION REPORT**

## **SEPTEMBER 2015**

### **ROADS:**

#### **Storm Water Management – Urban:**

- Continued flushing storm sewer laterals and cleaning catch basin sumps with the high pressure/vacuum truck.
- Clean debris from catch basins during rain events.

#### **Storm Water Management - Rural:**

- Removed beaver dams as required.
- Started brush cutting with Boom Mower along ditches in the North End area
- Cleaned up some of the large branches and debris behind brush cutter.

#### **Hard Top Maintenance:**

- Levelled utility cuts – twice weekly
- Pothole patching as required
- Street sweeping daily – Downtown area and Front Street done once weekly.
- Repaired curb and gutter in areas identified for repairs.

#### **Loose Top Maintenance:**

- Graded all loose top roads twice.
- Continued grading lanes as required.

#### **Roadside Maintenance:**

- Turned over black dirt pile at Mrlrvine Road Snow Dump

#### **Winter Control:**

#### **Traffic Operations:**

- Repaired and replaced signs as required.
- Continued painting crosswalks, stop bars, and no parking areas.
- Continued replacing signs that failed reflectivity testing.

**Regular Maintenance:**

- Garbage pickup - Tuesday and Friday - Downtown and Public Works Shop
- Assisted Engineering with locates and CCTV inspections.
- Assisted with tasks at Civic Centre as required.
- Maintenance checks at the Civic Centre as required
- Repaired deficiencies found in Routine Road Patrols

**Buildings and Grounds:**

- Cleaned Shop as required
- Cleaned vehicles and equipment as required.
- Installed bollards at entrance to sand/salt shed
- Landscaped and planted grass in area around salt/sand building

**Private Work:**

- Installed three (3) private crossings at 311 Minnie Avenue, 724 Second Street West and 103 Sixth Street East.

**Sidewalks – Winter:****Sidewalks – Summer:**

- Swept sidewalk and bike path along waterfront three times
- Repaired sidewalk in areas identified for repairs.

**Vehicles and Equipment:**

- Preventive Maintenance - pre-trip inspections 5:30 -7:30 a.m. Monday to Friday
- Regular scheduled maintenance of all vehicles and equipment
- Maintenance and repairs, Fire Department, Water Treatment Plant, Memorial Sportsplex, Day Care, Handi-Van and Civic Centre vehicles as required.

**Public Relations:****Sewer and Water:**

- Provided labour and equipment for Water Distribution and Sewer Collection repairs and maintenance.
- Handed out “Water Turn Off Advisories”, “Drinking Water Advisories” and “Lifting of Drinking Water Advisories” when required
- Issued “Delinquent Account Notices” and turned off water for non-compliance as

## **Sewer and Water (cont'd)**

required.

- Flushed deadend sanitary sewer mains.

## **Interdepartmental:**

- Removed benches and flower pots in front of the Rainy Lake Hotel before demolition started.
- Hauled one load of recycled asphalt to the airport on September 22<sup>nd</sup>.
- Removed fencing at Animal Shelter to begin demotion.

## **Recycling:**

- Emptied glass recycling bin as required
- Pushed up piles in recycling building as required
- Emptied bins from “drop off” centre as required

## **Training:**

## **Health & Safety:**

- A workplace Health and Safety Inspection was held at the Public Works building on September 23<sup>rd</sup>.

Milt Strachan,  
Superintendent of Transportation



**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

October 13, 2015

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  
September 2015 Monthly Report**

As per the operating agreement, the attached document is the September 2015 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 blue ink, appearing to read "Kelly C." followed by a stylized flourish.

Kelly Cunningham  
Senior Operator

For Larry Wachter  
Operations Manager

**The Corporation of the Town of Fort Frances  
Wastewater Treatment Plant  
(Sewage Plant)  
September 2015 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 September 2015; 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 <sup>3</sup> /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.

## SEPTEMBER 2015 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 <sub>5</sub>	4.1 mg/L	25 mg/L	15 mg/L	22.2 kg/d	225 kg/d	135 kg/d
Suspended Solids	10.5 mg/L	25 mg/L	15 mg/L	56.6 kg/d	225 kg/d	135 kg/d
Total Phosphorus	0.25 mg/L	1.0 mg/L	1.0 mg/L	1.3 kg/d	9 kg/d	9 kg/d
Ammonia as N	0.17 mg/L					
Nitrite as N	0.08 mg/L					
Nitrate as N	5.87 mg/L					
Total Cl <sub>2</sub> Residual		<0.01 mg/L (when in use)				
E-Coli		76.4 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 7.4 to 7.8; average pH was 7.6			
Temperature degrees C			Temperatures ranged from 17.0 – 18.0 average temperature of effluent at 17.4			

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 September was 5437.1 m<sup>3</sup>/day. This represents 60% of the design average flow. Total treated flow for the month was 163113 m<sup>3</sup>.

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.



## INVENTORY

Chemical	End of Month Status	Units
Hypochlorite	890 +/- @ 7.0% + 205 @ 12%	Litres
Alum	6.0 +/- @ 60 %	Cubic meters
Polymer	32 Bags (800 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
- Installed and set up new effluent automatic sampler
- Regular cleaning of seal water strainer TFP 9-5
- Replaced tubing and calibrated influent automatic sampler
- Removed debris from Headcell inlet, Teacup and grit pump 2 impeller
- Greased all blowers
- Replaced the packing TFP 9-5 stuffing box
- Set the impeller gap RAS pump 1
- Installed new ignition switch on John Deere tractor
- Removed debris from aeration cells outlet channel
- Replaced the UPS units for CP-1 and lift station Delta V cabinets

### Pump Stations:

- Ran gensets
- Changed seal water strainers
- Cleaned bar screens
- Asselin Transportation removed debris from wet wells at Central Avenue and Fifth Street lift stations

## **OPERATIONAL ISSUES**

All of the chain and some damaged flights were replaced in clarifier1, as were some worn bearings and sprockets. Clarifier 1 was placed in service and clarifier 2 was drained and cleaned in order that similar repairs can be completed there as well. Following the 9 hour power failure on September 20<sup>th</sup> there were 4 days in the month where effluent suspended solids exceeded 25 mg/L but the monthly average met the C of A compliance criteria.

## **SLUDGE SUMMARY**

The volume directed to the gravity belt thickener totaled 853.7 m<sup>3</sup> for the month. Asselin Transportation and Storage Limited hauled a total of 239.6 m<sup>3</sup> of thickened digested sludge (average 12.0m<sup>3</sup>/load) 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 655 (x 180 multiplier) kWh.

A new effluent automatic sampler was installed and set up.

The scheduled 6 hour power outage on September 20<sup>th</sup>, which ended up being 9 hours duration, was very stressful for the activated sludge process and recovery will be gradual.

September 27<sup>th</sup> the RAS 1 flow meter failed and a replacement has been ordered.

The additional effluent testing necessary to meet the requirements of the Wastewater Systems Effluent Regulations is now a part of our regular sampling regimen.

## **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)



Month	Avg. Day Flow m3	Max Day Flow m3	Sewage Flows Year 2015				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	5205.2	5615	161362		161362	58%	133.6			
February	5008.5	5247	140237		140237	56%	163.2			
March	5608.6	6833	173865		173865	62%	244.8			
April	5628.8	5970	168865		168865	63%	239.8			
May	7834.5	15983	242869		242869	87%	240.3			
June	7292.4	10570	218773		218773	81%	217.4			
July	5805.5	6247	179969		179969	65%	242.8			
August	5920.3	6606	183529		183529	66%	217.3			
September	5437.1	5822	163113		163113	60%	239.6			
October						0%				
November						0%				
December						0%				
Sum				0	1632582		1938.8			
Average	5971		181398		181398	66%	215.4			
Max		15983	242869		242869					
C of A	9000	18000								

Month	CBOD5				Suspended Solids				Total Phosphorus				E. Coli		pH	
	Avg Raw CBOD (mg/L)	Avg. Eff. CBOD (mg/L)	Avg. Load CBOD (kg/day)	Avg Raw S.S (mg/L)	Avg. Eff. S.S (mg/L)	Avg. Load S.S (kg/day)	Avg Raw T.P (mg/L)	Avg. Eff. T.P (mg/L)	Avg. Load T.P (kg/day)	Geo Mean Counts /100ml	Monthly Minimum	Monthly Maximum				
January	84.5	2.6	13.6	151.9	6.0	31.0	2.5	0.23	1.18	17.8	6.8	7.6				
February	87.0	3.1	15.3	136.4	6.4	32.1	2.2	0.22	1.12	8.3	6.9	7.5				
March	62.8	3.5	19.6	127.6	8.0	45.1	1.9	0.23	1.29	14.8	6.8	7.5				
April	66.3	4.4	24.7	135.3	7.8	44.2	1.9	0.28	1.57	56.6	6.8	7.2				
May	48.5	3.6	34.9	109.6	5.4	43.4	1.4	0.18	1.40	20.1	6.8	7.3				
June	51.2	2.7	19.8	115.8	4.2	31.7	1.3	0.17	1.30	8.3	7.0	7.5				
July	74.8	2.1	12.4	133.1	3.5	20.6	2.1	0.22	1.30	5.8	7.1	7.7				
August	82.8	2.2	13.1	147.3	6.8	40.6	2.7	0.22	1.30	13.3	7.3	7.9				
September	76.0	4.1	22.2	157.6	10.5	56.6	2.3	0.25	1.34	76.4	7.4	7.8				
October																
November																
December																
Average	70.4	3.1	19.5	135.0	6.5	38.4	2.0	0.22	1.31	24.6	7.0	7.6				
Max	87	4.4	34.9	157.6	10.5	56.6	2.7	0.28	1.57	76.4	7.4	7.9				
C of A		25	225		25	225		1	9	200	6.0	9.5				



**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

November 12, 2015

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  
October 2015 Monthly Report**

As per the operating agreement, the attached document is the October 2015 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 Cunningham".

Kelly Cunningham  
Senior Operator

For Larry Wachter  
Operations Manager

**The Corporation of the Town of Fort Frances  
Wastewater Treatment Plant  
(Sewage Plant)  
October 2015 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 October 2015; 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 <sup>3</sup> /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.



## OCTOBER 2015 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 <sub>5</sub>	2.2 mg/L	25 mg/L	15 mg/L	10.8 kg/d	225 kg/d	135 kg/d
Suspended Solids	6.0 mg/L	25 mg/L	15 mg/L	34.5 kg/d	225 kg/d	135 kg/d
Total Phosphorus	0.21 mg/L	1.0 mg/L	1.0 mg/L	1.1 kg/d	9 kg/d	9 kg/d
Ammonia as N	0.09 mg/L					
Nitrite as N	0.05 mg/L					
Nitrate as N	5.47 mg/L					
Total Cl <sub>2</sub> Residual		<0.01 mg/L (when in use)				
E-Coli		9.9 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 7.5 to 7.8; average pH was 7.7		
Temperature degrees C				Temperatures ranged from 14.5 – 17.0 average temperature of effluent at 15.9		

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 October was 5155.1 m<sup>3</sup>/day. This represents 57% of the design average flow. Total treated flow for the month was 159808 m<sup>3</sup>.

The Fort Frances WWTP met all effluent compliance criteria for the parameters listed above. As expected, process took some time to recover from the nine hour power outage in September.

## INVENTORY

Chemical	End of Month Status	Units
Hypochlorite	950 +/- @ 7.0% + 615 @ 12%	Litres
Alum	4.5 +/- @ 60 %	Cubic meters
Polymer	24 Bags (800 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
- Installed a new set of brushes in the polymer mixer motor
- Regular cleaning of seal water strainer TFP 9-5
- Hot water flushed alum lines
- Cleaned polymer lines
- Greased all blowers
- Acid washed sleeves UV banks 1 and 2
- New longitudinal drive installed for clarifier 2
- Repaired alum line at aeration cells
- Replaced the belt and filters ASU 101 and greased bearings

### Pump Stations:

- Ran gensets
- Changed seal water strainers
- Cleaned bar screens

## **OPERATIONAL ISSUES**

There was 1 day in the month where effluent TSS exceeded 25 mg/L but the monthly average met the C of A compliance criteria.

## **SLUDGE SUMMARY**

The volume directed to the gravity belt thickener totaled 500.6 m<sup>3</sup> for the month. Asselin Transportation and Storage Limited hauled a total of 119.6 m<sup>3</sup> of thickened digested sludge (average 12.0m<sup>3</sup>/load) 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 699 (x 180 multiplier) kWh.  
One effluent TSS result for the Wastewater Systems Effluent Regulations was missed in October and this omission has been reported.

## **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)

Month	Sewage Flows Year 2015					Usage % Plant Capacity	Sludge Volume Hauled	Removal Efficiency	
	Avg. Day Flow m3	Max Day Flow m3	Total Treated Volume ML	Total ByPass Volume ML	Total Volume ML			CBOD5	0.958429876
								Suspended Solids	0.952460809
January	5205.2	5615	161362		161362	58%	133.6	Total Phosphorus	0.89375
February	5008.5	5247	140237		140237	56%	163.2		
March	5608.6	6833	173865		173865	62%	244.8		
April	5628.8	5970	168865		168865	63%	239.8		
May	7834.5	15983	242869		242869	87%	240.3		
June	7292.4	10570	218773		218773	81%	217.4		
July	5805.5	6247	179969		179969	65%	242.8		
August	5920.3	6606	183529		183529	66%	217.3		
September	5437.1	5822	163113		163113	60%	239.6		
October	5155.1	6109	159808		159808	57%	119.6		
November						0%			
December						0%			
Sum				0	1792390		2058.4		
Average	5890		179239		179239	65%	205.8		
Max		15983	242869		242869				
C of A	9000	18000							

Month	CBOD5				Suspended Solids				Total Phosphorus				E. Coli		pH	
	Avg Raw CBOD (mg/L)	Avg. Eff. CBOD (mg/L)	Avg Load CBOD (kg/day)	Avg Raw S.S (mg/L)	Avg. Eff. S.S (mg/L)	Avg Load S.S (kg/day)	Avg Raw T.P (mg/L)	Avg. Eff. T.P (mg/L)	Avg Load T.P (kg/day)	Avg. Eff. T.P (mg/L)	Avg Load T.P (kg/day)	Geo Mean Counts /100ml	Monthly Minimum	Monthly Maximum		
January	84.5	2.6	13.6	151.9	6.0	31.0	2.5	0.23	1.18	0.23	1.18	17.8	6.8	7.6		
February	87.0	3.1	15.3	136.4	6.4	32.1	2.2	0.22	1.12	0.22	1.12	8.3	6.9	7.5		
March	62.8	3.5	19.6	127.6	8.0	45.1	1.9	0.23	1.29	0.23	1.29	14.8	6.8	7.5		
April	66.3	4.4	24.7	135.3	7.8	44.2	1.9	0.28	1.57	0.28	1.57	56.6	6.8	7.2		
May	48.5	3.6	34.9	109.6	5.4	43.4	1.4	0.18	1.40	0.18	1.40	20.1	6.8	7.3		
June	51.2	2.7	19.8	115.8	4.2	31.7	1.3	0.17	1.30	0.17	1.30	8.3	7.0	7.5		
July	74.8	2.1	12.4	133.1	3.5	20.6	2.1	0.22	1.30	0.22	1.30	5.8	7.1	7.7		
August	82.8	2.2	13.1	147.3	6.8	40.6	2.7	0.22	1.30	0.22	1.30	13.3	7.3	7.9		
September	76.0	4.1	22.2	157.6	10.5	56.6	2.3	0.25	1.34	0.25	1.34	76.4	7.4	7.8		
October	99.8	2.2	10.8	156.9	6.6	34.5	2.5	0.21	1.08	0.21	1.08	9.9	7.5	7.8		
November																
December																
Average	73.4	3.1	18.6	137.2	6.5	38.0	2.1	0.22	1.29	0.22	1.29	23.1	7.0	7.6		
Max	99.8	4.4	34.9	157.6	10.5	56.6	2.7	0.28	1.57	0.28	1.57	76.4	7.5	7.9		
C of A		25	225		25	225		1	9	1	9	200	6.0	9.5		



Sewer & Water Data for 2015  
 up-dated November 1st, 2015

Month	Days per month	2015		2015		2015		2015		2014		2015		2015		2014		2015		2015-2014		2015-2014		2015	
		Total		Couch.		Couch.		Couch.		Total		Total		Couch.		Total		Total		Diff		Diff		Infiltration	
		Sewage		Sewage		Sewage		Sewage		Sewage		Sewage		Sewage		Sewage		Sewage		Wastewater		Wastewater		STP	
		cu. meters		cu. meters		cu. meters		cu. meters		cu. meters		cu. meters		cu. meters		cu. meters		cu. meters		cu. meters		cu. meters		cu. meters	
January	31	161362	5205					0.00%		156785	5058	121570	3922	8879	286	129390	4174	-7820	4577	39792	1284				
February	28	140237	5008					0.00%		157644	5630	107690	3846	8679	317	124530	4448	-16840	-17407	32547	1162				
March	31	173865	5609					0.00%		251682	8119	126450	4079	8217	265	226450	7305	-100000	-77817	47415	1530				
April	30	168865	5629					0.00%		327830	10928	112830	3761	8217	274	173600	5787	-60770	-156965	56035	1868				
May	31	242869	7834					0.00%		336530	10856	120100	3874	8699	281	142970	4612	-22870	-93661	122769	3960				
June	30	218773	7292					0.00%		440501	14683	116430	3881	8699	290	123240	4108	-6810	-221728	102343	3411				
July	31	179969	5805	8679.5	279.98	4.82%				280055	9034	134840	4350	11680	377	129810	4187	5030	-100086	45129	1456				
August	31	183529	5920	8579	276.74	4.61%				189059	6099	129900	4190	11680	377	129750	4185	150	-5530	53629	1730				
September	30	163113	5437	7526.1	250.87	4.61%				170064	5669	121920	4064	13217	441	106940	3565	14980	-6951	41193	1373				
October	31	159808	5195	7023	226.95	4.39%				170767	5509	123450	3982	13217	426	103610	3342	19840	-10959	36356	1173				
November	30		0							153900	5130		0			100380	3346			0	0				
December	31		0							156123	5036		0			110550	3566			0	0				
Total	365	1792390								2790940	7646	1215180	39949	101384		1601220		-175110	-688527	577210					
Monthly Average																									
daily Average																									



	Bearskin Flights			Bearskin- Passengers			Government			Private			Med-I-vacs			International			Commercial			Totals			Variance 2015-2014	
	2015	2014	2013	2015	2014	2013	2015	2014	2013	2015	2014	2013	2015	2014	2013	2015	2014	2013	2015	2014	2013	2015	2014	2013		
Month	76	79	79	256	311	306	6	0	0	6	5	11	43	41	33	4	2	2	42	67	40	177	194	165	-17	
January	67	74	75	241	308	370	2	0	7	7	5	16	36	22	49	3	5	2	40	50	46	155	156	195	-1	
February	78	82	87	341	346	435	5	3	6	30	10	13	36	40	40	5	0	7	38	52	47	182	187	200	5	
March	221	235	241	838	965	1111	13	3	13	43	20	40	115	103	122	12	7	11	120	169	133	524	537	560	-13	
1/4 Total	221	235	241	838	965	1111	13	3	13	43	20	40	115	103	122	12	7	11	120	169	133	524	537	560	-13	
April	81	74	83	330	276	448	1	2	1	23	18	26	41	22	34	2	1	4	53	47	49	201	164	197	37	
May	82	81	89	365	308	408	1	6	7	25	28	24	45	37	23	43	34	30	25	77	76	71	259	240	280	19
June	80	77	86	322	292	400	11	7	4	36	37	66	31	35	27	74	89	75	96	69	49	328	314	307	14	
1/2 Total	464	467	499	1855	1841	2367	26	18	25	130	99	177	224	183	226	122	127	115	346	361	302	1312	1255	1344	57	
July	81	75	87	297	230	378	8	7	6	40	35	52	35	18	37	83	59	79	77	59	55	324	253	316	71	
August	79	71	88	297	241	390	4	3	1	39	37	74	31	26	24	73	65	67	87	57	68	313	259	322	54	
September	76	73	78	328	254	432	0	1	5	17	22	43	36	37	41	44	32	44	76	65	42	249	230	253	19	
3/4 Total	700	686	752	2777	2366	3567	38	29	37	226	193	346	326	264	328	322	283	305	566	542	467	2198	1997	2235	201	
October	83	76	92	309	309	398	4	3	0	20	24	28	47	42	35	9	12	12	51	51	57	214	208	224	6	
November		80	85		286	309		3	3		8	7		28	32		3	6		39	39		0	161	172	-161
December		52	69		203	216		0	0		4	2		25	26		1	0		29	34		0	111	131	-111
Total	783	894	998	3086	3364	4490	42	35	40	246	229	383	373	359	421	331	299	323	637	661	597	2412	2477	2762	-65	

Fort Frances Airport- Page 2/2 - Fuel Sales - As of October 31, 2015

	Fuel Sales Recap - 2015																		Variance 2015-2014
	100LL		Jet Trk		Jet Cab		Month	Year	2014	2013	2012	2011	2010	2009	2008	2007	8 year Average 2014 to 2007	per month	
Month	Liters	Total	Liters	Total	Liters	Total	Total	Total	month per	month per	month per	month per	month per	month per	month per	month per	2014 to 2007		
January	764	764	7,427	7,427	501	501	8,692	8,692	11,543	7,216	10,252	7,308	10,971	15,989	29,926	16,283	13,686	-2,851	
February	1,291	2,055	9,940	17,367	0	501	11,231	19,923	12,304	6,197	6,918	3,687	5,782	13,135	21,134	11,782	10,117	-1,073	
March	760	2,815	17,035	34,402	0	501	17,795	37,718	10,508	12,077	9,329	10,390	15,539	9,612	27,435	19,969	14,357	7,287	
April	1,123	3,938	12,096	46,498	0	501	13,219	50,937	8,377	4,453	8,251	5,294	24,825	10,616	22,466	28,609	14,119	4,842	
May	1,639	5,577	14,222	60,720	300	801	16,161	67,098	29,753	18,350	21,891	19,790	25,375	24,033	30,287	47,258	27,092	-13,592	
June	5,944	11,521	39,183	99,903	571	1,372	45,698	112,796	30,789	22,786	23,537	25,723	27,768	22,395	35,995	40,736	28,716	14,909	
July	3,888	15,409	24,262	124,165	0	1,372	28,150	140,946	14,441	19,232	32,650	19,124	30,455	24,925	33,390	44,875	27,387	13,709	
August	7,793	23,202	28,845	153,010	0	1,372	36,638	177,584	20,450	20,075	30,783	21,467	33,139	28,250	40,177	41,630	29,496	16,188	
September	4,236	27,438	20,002	173,012	0	1,372	24,238	201,822	21,837	18,005	19,431	22,511	23,363	18,937	28,822	30,341	22,906	2,401	
October	604	28,042	7,612	180,624	0	1,372	8,216	210,038	15,472	13,109	11,325	13,677	15,033	21,304	16,631	28,020	16,821	-7,256	
November		28,042		180,624	0	1,372	0	210,038	7,238	6,398	8,170	6,785	17,747	10,754	16,951	16,842	11,361	-7,238	
December		28,042		180,624		1,372	0	210,038	6,849	2,028	8,179	2,446	7,641	7,596	13,083	14,733	7,819	-6,849	
Total	28,042		180,624		1,372		210,038		189,561	149,926	190,716	158,202	237,638	207,606	316,297	341,078	228,780	(5,387)	

210,038

Lowest month in last 7 years  
Highest month in last 7 years  
lowest month

2015- tonnage at landfill site- up-dated November 1st, 2015

MONTH	Residential Waste tonnes	Res %	ICI Waste tonnes	ICI %	Non Community Waste tonnes	Non Com %	Covering Material tonnes	2014 Total Tonne	Average last 8 years Total Tonne	2015 Total Tonne	2014 Total Fees	Average last 8 years Fees 2007 to 2014	2015 Fees	2015-2014 Tonnes	2015-2014 Fees
JAN	147.69	39.65	214.43	57.57	10.33	2.77	83.64	376.54	358.23	372.45	\$18,990.70	\$19,078.66	\$22,076.55	-4.09	\$2,997.89
FEB	110.32	34.07	205.79	63.55	7.71	2.38	10.29	331.57	303.57	323.82	\$17,730.70	\$16,650.51	\$17,311.55	-7.75	\$661.04
MAR	171.11	38.30	267.42	59.85	8.28	1.85	0.00	347.04	409.34	446.81	\$18,869.70	\$23,107.28	\$25,940.55	99.77	\$2,833.27
APRIL	248.22	40.76	346.16	56.84	14.64	2.40	3.24	500.42	569.78	609.02	\$28,891.30	\$32,908.43	\$36,933.10	108.60	\$4,024.67
MAY	306.17	39.10	466.65	59.59	10.22	1.31	81.19	756.65	721.08	783.04	\$42,047.80	\$41,342.77	\$40,474.95	26.39	-\$867.82
JUNE	291.38	42.19	389.21	56.35	10.10	1.46	1875.39	725.30	816.36	690.69	\$44,815.30	\$42,253.75	\$43,913.10	-34.61	\$1,659.35
JULY	305.88	46.72	336.03	51.32	12.81	1.96	1764.87	661.29	683.08	654.72	\$37,863.20	\$40,976.57	\$43,552.25	-6.57	\$2,575.68
AUG	273.25	42.51	357.18	55.57	12.38	1.93	943.69	547.91	628.81	642.81	\$32,880.80	\$37,269.88	\$39,041.90	94.90	\$1,772.02
SEPT	288.85	40.17	418.17	58.15	12.06	1.68	3,074.48	697.87	637.62	719.08	\$38,838.70	\$36,887.25	\$43,223.58	21.21	\$6,336.33
OCT	239.38	10.81	1,963.40	88.66	11.83	0.53	1,753.73	648.58	641.16	2,214.61	\$38,154.80	\$37,889.98	\$95,565.65	1,566.03	\$57,675.67
NOV		#DIV/0!		#DIV/0!		#DIV/0!		558.35	558.58	0.00	\$29,302.30	\$31,434.38			
DEC		#DIV/0!		#DIV/0!		#DIV/0!		449.26	386.07	0.00	\$24,963.10	\$23,643.32			
Average per monthly	238.22	37.34	496.44	60.32	11.04	#DIV/0!	959.05	550.07	559.47	621.42	\$31,112.37	\$31,953.56	\$40,803.32		
Total	2382.25		4964.44		110.36		9590.52			7457.05	\$373,348.40	\$383,442.77	\$408,033.18	1863.88	\$79,668.12
												Actual	\$408,033.18		
Town of Fort Frances Tonnage	7346.69												Budget	\$370,684.00	
Total Tonnage	7457.05												Forecasted	\$489,639.82	
Residential Tonnage	2382.25	31.95%													
ICI Tonnage	4964.44	66.57%											Difference	\$118,955.82	
Coverage material	9590.52														