

# TOWN OF FORT FRANCES

## Operations and Facilities Executive Committee

### AGENDA - January 23, 2019, 8:30 AM

#### MEETING - Civic Centre

Session #002

	Page
1. <b><u>Call to Order</u></b>	
2. <b><u>Disclosure of pecuniary interest and the general nature thereof</u></b>	
3. <b><u>Approval of Previous Committee Minutes</u></b>	
3.1 Minutes from the previous meeting of this Committee on January 9, 2019.	2 - 3
4. <b><u>Non-agenda Items</u></b>	
5. <b><u>New Business</u></b>	
5.1 Plugged Sewer Bill - 279 Scott Street	4 - 8
5.2 Capital Purchase of Sidewalk Implements	9 - 18
5.3 December 2018 Drinking Water Systems Monthly Summary Report	19 - 26
5.4 Report No. 1 Establishing 2019 Water and Sewer Rates	27 - 38
6. <b><u>Information</u></b>	
6.1 Sewer and Water Data for 2018 - updated January 19, 2019	39
6.2 Fort Frances Wastewater Treatment Facility - December 2018 Monthly Report	40 - 48
7. <b><u>Adjourn / Next Meeting Date</u></b>	

## TOWN OF FORT FRANCES

### MINUTES

SESSION NO. #001

January 9, 2019

The meeting of Operations & Facilities Executive Committee of the Town of Fort Frances was held in the Civic Centre on January 9, 2019 from 8:30 a.m. to 12:03 p.m.

PRESENT: Chairperson R. Wiedenhoeft - Councillor, M. Behan - Councillor, J. McTaggart, Doug Brown, CAO and Travis Rob

ALSO PRESENT: Mayor June Caul

#### **1. Call to Order**

1.1. The meeting was called to order at 8:30 a.m.

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

2.1. None

#### **3. Approval of Previous Committee Minutes**

3.1. Minutes from the previous meeting on December 5, 2018 - the minutes were approved as circulated

#### **4. Non-agenda Items**

4.1. None

#### **5. New Business**

5.1. 2019 Capital Purchase of Sidewalk Sanding Attachment - Approve the tendering of the attachments.

5.2. Letter Dated November 26, 2018 - re: Columbarium Construction at Riverview Cemetery - the administration report was approved as amended.

5.3. November 2018 Drinking Water Systems Monthly Summary Report - the water Summary Report for November 2018 was approved as distributed.

5.4. Proposed Operating and Capital Budget Including Sewer and Water funds for 2019 - Draft budget will be forwarded to the first budget meeting.

- 5.5. Capital Budget Request - Additional Street Lighting - Capital Item will be forwarded to the first budget meeting

**6. Information**

- 6.1. Fort Frances Wastewater Treatment Facility November 2018 Monthly Report - the administration report was reviewed and will be forwarded to Council as information only. No action required.
- 6.2. Sewer and Water Data for 2018 - updated December 24, 2018 - the data was reviewed and will be forwarded to Council as information only. No action required.
- 6.3. Landfill Statistics as of December 24, 2018 - the Landfill statistics were reviewed and will be forwarded to Council as information only. No action required.
- 6.4. Airport Statistics as of January 4, 2019 - the Airport statistics were reviewed and will be forwarded to Council as information only. No action required.

**7. Adjourn / Next Meeting Date**

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Executive Committee Chair

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T. Rob, Manager of Operations & Facilities

January 23, 2019

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

**RE: Plugged Sewer bill – 279 Scott Street**

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This report should be read with the attached reports from the Operations and Facilities Division staff who responded to the plugged sewer at 279 Scott Street on Saturday December 1, 2018.

For the understanding of those who are new to Council; the Town of Fort Frances, when called for plugged sewers, will bill the property owners for the costs at the current User Fee By-Law rate when the obstruction is between the building and the property line, or when the obstruction is found to be in violation of the Town's Sanitary Sewer By-law. When the obstruction is within the Town Right of Way, the property owner receives a minimum bill of less than \$100.00 depending on the time and day that we respond. In addition, the Town is required to call Ontario One Call for gas line clearance, which can take up to two hours to complete, for **all** sanitary sewer blockages.

On January 4, 2019 I received a call from Mr. Ken Rogoza, the owner of 279 Scott Street wishing to discuss the bill he had received for a plugged sewer at his building which he called in on Saturday December 1, 2018. I spoke with Mr. Rogoza and reviewed the information contained in the property file, however I had no other knowledge about what had occurred at the property. I asked Mr. Rogoza if I could call him early the following week once I had an opportunity to speak to the staff who had responded and familiarize myself with the situation surrounding the works, he agreed. That afternoon I spoke with Greg Wiedenhoeft about what had occurred at that plugged sewer. Greg recalled that there were some bubbles in the toilet drain when they arrived and that there was a tap running and Ken was dumping pails of water down the toilet drain and the line was not backing up. From this Greg determined that the line was no longer blocked, however the call out had been placed so they ran the roto roter out to the main anyway. Greg felt a slight resistance shortly after entering the drain at about 16 feet out, well within the property line, otherwise the knife ran out to the main smoothly. There was only some hair that came back on the knife. From this, and the observation of no backup when they arrived the call out was billed at the by-law rate. These observations were presented with a further discussion with Mr. Rogoza on Monday January 7 by myself and Craig Miller, Environmental Superintendent. This was not satisfactory to Mr. Rogoza at which time he was informed he could write a letter to council.

Mr. Rogoza called on a weekend for a plugged sewer, whether or not the line was actually plugged at the time that the crew arrived, they ran the roto-roter down the line feeling only a slight resistance within the property which would result in a bill being generated to the property owner.

It is the recommendation of the Operations and Facilities Executive Committee that there be no change to the invoice for the cost associated with the call out for a plugged sewer at 279 Scott Street on December 1, 2018.

Respectfully Submitted



Travis Rob, P.Eng

<p><b>Council approval of this report will agree to the recommendation of the Operations and Facilities Executive Committee that there be no change to the invoice for the cost associated with the call out for a plugged sewer at 279 Scott Street on December 1, 2018</b></p>
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Manager of Operations and Facilities



January 18, 2019

Report To: Travis Rob, Manager of Operations and Facilities

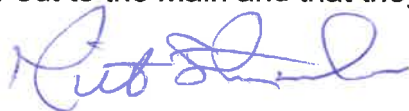
From: Milt Strachan, Transportation Superintendent

Subject: Plugged Sewer Service at 279 Scott Street

During the period of November 30, 2018 to December 6, 2018, I was the person on call (standby), for the Operations and Facilities Division. On Saturday December 1, 2018 at 9:45 am., I received a call from Ken Rogoza to inform me that the sewer was backed up at his property at 279 Scott Street. I informed Ken that there could be charges for the call out depending on where the blockage was and asked if it could wait until Monday during regular hours. He said that there was water under the floor boards and that he was concerned that the tenants in the upstairs apartments may have troubles before Monday and that the business in the building was shut down because of it. He informed me that he had been working with a sewer tape to try and unplug the sewer service himself and that he was sure that the blockage was out on the street. I informed him that the workers determined where they hit blockage with the Rotor Rooter and he repeated that where he was hitting blockage was out on the roadway. I said that I would call workers out to unplug the sewer service and that first I had to call for Gas locates and that that could take up to two hours. He said that he would be at the property to get the paper work from the Union Gas person on call.

While waiting to get clearance from Union Gas, I made some calls to arrange for two workers to go to 279 Scott Street. I received a call from Union Gas at approximately 11:00 am., giving clearance to go ahead with the work. I let the two workers who confirmed that they would go on the callout know that we had clearance and they proceeded to go and unplug the sewer at 279 Scott Street. The workers were Greg Wiedenhoeft and Eric Onichuk.

Greg Wiedenhoeft called me at 12:26 pm to inform me that they were done and that they were heading home. He informed me that they had ran the rotor rooter out to the main and that they didn't seem to be any blockage.



Milt Strachan,  
Transportation Superintendent

I was called out on December 1 2018 for a plugged Sewer at 279 Scott St by M. Strachan. E. Onichuk and I first checked the service out in the basement with Ken. Ken let us know he had been cleaning it already with a small sewer snake through a Toilet Flange in the basement bathroom. E. Onichuk and I tried to backup the service line with water but it would not backup, only noticed soap bubbles in the toilet flange no water with the sink running the whole time. With out the line backing up, it then becomes a cleaning and since we were already called out we ran the Rotorooter out to the main and back with the water running the whole time. I did not hit any blockage as I did this. Line was clear & flowing.



January 21, 2019

Issue:

Plugged Sewer @ 279 Scott Street

Owner – Ken Rogoza.

Date: Saturday, December 1, 2018

On-Call Supervisor: Milt Strachan

On arriving to work on Monday, December 3, during the morning debrief with the water distribution team, I discussed the weekend call out to 279 Scott Street with Greg Wiedenhoeft.

Greg advised that the property owner had already cleared the blockage when Greg and Eric Onichuk had arrived at the property. As they were already on a call-out, they still rooted out the drain as preventative.

The paperwork was processed on December 4, 2018 and my notes from discussion with Greg were added to the cover page. Property owner was billed the standard call out rate of \$372.00.

A handwritten signature in black ink, appearing to read 'Craig Miller', with a long horizontal flourish extending to the right.

Craig Miller, P.Eng.

Environmental Superintendent



January 23, 2019

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

**RE: Capital Purchase of sidewalk implements**

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During the preparation of the 2019 Capital Budget cost estimates were received for a pull behind sanding trailer and power broom for the Trackless sidewalk machine from Joe Johnson Equipment, the vendor who we purchased the machine from.

The attached report from Milt Strachan, Transportation Superintendent outlines additional information we have received since that time. The original quotation was mistakenly for a larger sidewalk sander than could be pulled with our machine putting the actual purchase price under the \$35,000 tender limit in the Procurement Policy. Further the purchase of equipment not made by Trackless for this machine will void the remaining power train warranty left on this machine.

Given that Joe Johnson Equipment is the 'local' dealer for Trackless equipment it is the recommendation of the Operations and Facilities Executive Committee that a pull behind sidewalk sanding trailer and sweeper attachment for the Trackless Sidewalk Machine be purchased from Joe Johnson Equipment for \$23,400.00 plus applicable taxes without trying to obtain 3 quotations per the procurement policy.

Respectfully Submitted



Travis Rob, P.Eng

**Council approval of this report will agree to the recommendation of the Operations and Facilities Executive Committee that a pull behind sidewalk sanding trailer and sweeper attachment for the Trackless Sidewalk Machine be purchased from Joe Johnson Equipment for \$23,400.00 plus applicable taxes without trying to obtain 3 quotations per the procurement policy**

Manager of Operations and Facilities

January 18, 2019

Report To: Travis Rob, Manager of Operations and Facilities

From: Milt Strachan, Transportation Superintendent

Subject: Sanding Trailer and Broom Attachments for Trackless Sidewalk Machine

Before getting started on a Tender Package, I spoke with Josh Hart, the Regional Sales Manager from Joe Johnson Equipment to verify the price range of the attachments and see if we would be under \$35,000., that would in turn allow us to go out for three written quotes and not have to go through the Tender process as per the Town of Fort Frances Procurement Policy.

While discussing our intentions to purchase the two (2) new attachments with the sales manager it was brought to my attention that if we are going to use any attachments that are not designed specifically for this machine and if we alter the machine in any way to use any attachments that run off of the hydraulic system that we would be voiding our five (5) year extended Power Train Warranty. I have read through the warranty documents and this is indeed the case. The five (5) year extended Power Train Warranty is something that we ask for specifically in all of our Tenders for Vehicles and Equipment and is the most important item in our warranties. Voiding this warranty item could lead to some very expensive repairs if there are any power train failures. We still have over two (2) years left on this warranty.

Further to this, Joe Johnson Equipment has the rights to all regional sales for Trackless Vehicles Limited in this area and is the only option available to acquire quotes on these attachments. Josh emailed me the quotes the next day and I have attached them with the report. The purchase prices for the quotations are \$15,800.00 for the Tow Behind Sander attachment and \$7,600.00 for the Power Angle Sweeper. These are very good prices! For an example of that I have also attached the price that we were given in the tender document for this Sidewalk Machine back in October of 2015. The price at that time was \$9585.00 for the identical Power Angle Sweeper with the exact same specifications.

There was \$40,000.00 budgeted for the two attachments and with the quotes coming in at \$23,400.00 plus taxes we will be paying significantly less than expected. It is my recommendation that we proceed with the purchase of the two attachments from Joe Johnson Equipment.



Milt Strachan,  
Transportation Superintendent



**Joe Johnson  
Equipment**

*Subsidiary Of Federal Signal Corporation*

Wednesday, January 16, 2019

Town of Fort Frances  
320 Portage Avenue  
Fort Frances, ON  
P9A 3M5

**Re: Trackless Attachment Quotations**

We would like to take this opportunity to thank you for your continued interest in Joe Johnson Equipment (JJE), Canada's largest supplier of environmental equipment.

JJE is pleased to present the following quotation to provide one (1) Trackless Tow Behind Sander attachment and one (1) Trackless Power Angle Sweeper.

We appreciate the opportunity to assist with this equipment requirement and ask that you not hesitate to contact us should you require additional information.

Respectfully Submitted,

Joshua Hart  
Regional Sales Manager  
Joe Johnson Equipment  
Cell: (204) 226-3868  
[jhart@jjei.com](mailto:jhart@jjei.com)



705.733.7700

705.733.8800

2621 Bowman St. Innisfil, ON L9B 3V6



[jjei.com](http://jjei.com)



[info@jjei.com](mailto:info@jjei.com)

**Clean Air. Clean Water. Clean Streets.**



**Joe Johnson  
Equipment**

*Subsidiary Of Federal Signal Corporation*

### Quotation

To provide one (1) new Trackless Tow Behind Sander attachment, standard-equipped as detailed below

### Specifications

- Spread width: 40"
- 1 ¼ cubic yard capacity
- Spread distance: 12 to 14 miles (19 to 22km)
- Drive: Hydraulic
- Brakes: Electric
- Agitators: 1
- Spread pattern: Diamond
- Length: 84" (2133mm)
- Width: 50.5" (1282mm)
- Height: 57" (1447mm)
- Weight: 1,615 lbs. (732kg)

**Purchase Price ..... \$15,800.00**

#### *Terms & Conditions*

*Pricing: Canadian dollars, taxes extra*

*Valid for 30 days*

*F.O.B.: Fort Frances, ON*

*Payment Terms: Net 30 Days*

*Delivery: To be confirmed at time of order*

*You will need to have these options installed on the Trackless MT to be able to use this attachment. Modified Rear Bumper, Pintle Hitch, 7 Prong Trailer Plug & Brake Controller*



**705.733.7700**



**jjei.com**



**705.733.8800**



**info@jjei.com**



**2621 Bowman St. Innisfil, ON L9B 3V8**

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**Joe Johnson  
Equipment**

*Subsidiary Of Federal Signal Corporation*



**705.733.7700**

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**2521 Bowman St. Innisfil, ON L9B 3V8**



**jjei.com**



**info@jjei.com**

**Clean Air. Clean Water. Clean Streets.**



**Joe Johnson  
Equipment**

Subsidiary Of Federal Signal Corporation

### Quotation

To provide one (1) new Trackless Power Angle Sweeper attachment, standard-equipped as detailed below

### Specifications

- Sweeping width: 60" (5'/1,524mm)
- Broom Diameter: 32" (812mm)
- Angling Mechanism: Self-centering scissor frame, 30° left or right
- Power/Drive: Direct hydraulic drive with relief valve
- Length: 78" (1981mm)
- Width: 70" (1778mm)
- Height: 39" (990mm)
- Weight: 1,069 lbs. (484kg)

**Purchase Price ..... \$7,600.00**

#### *Terms & Conditions*

*Pricing: Canadian dollars, taxes extra*

*Valid for 30 days*

*F.O.B.: Fort Frances, ON*

*Payment Terms: Net 30 Days*

*Delivery: To be confirmed at time of order*

*You will need to have these options installed on the Trackless MT to be able to use this attachment. Hydraulic Pump & Valve Kit if a Rear-Mount Sidewalk Spreader is to be run simultaneously*



**705.733.7700**



**jjei.com**



**705.733.8800**



**info@jjei.com**



**2621 Bowman St. Innisfil, ON L9B 3V6**

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**Joe Johnson  
Equipment**

*Subsidiary Of Federal Signal Corporation*



705.733.7700

705.733.8800

2621 Bowman St. Inlet, ON L9B 3V8



[jjei.com](http://jjei.com)

[info@jjei.com](mailto:info@jjei.com)

**Clean Air. Clean Water. Clean Streets.**

**The Town of Fort Frances would like the costs for the following two (2) attachments, separate from the tendered equipment with the option to purchase:**

**1) Power Angling Sweeper (60" x 32" dia angle sweeper)**

Price \$ 9,585.00

HST \$ 1,246.05

**Total** \$ 10,831.05

**2) Cold Planer with Ranjo Drum**

Price \$ 38,664.00

HST \$ 5,026.32

**Total** \$ 43,690.32

**The Town of Fort Frances reserves the right to add or exclude the Power angling Sweeper and/or the Cold Planer with Ranjo Drum with the Tender based on prices given above. Specifications are attached on the following pages.**



**SPECIFICATIONS FOR A POWER ANGLING SWEEPER**

Shall have a broom diameter of not less than 32".

Yes ☒

No ☐

Specify As specified

Shall have broom width of 60".

Yes ☒

No ☐

Specify As specified

Shall have an overall width of not more than 66".

Yes ☐

No ☒

Specify 70"

Shall have a sweeping pattern of not more than 50" when angled at 30 degrees.

Yes ☒

No ☐

Specify As specified

There shall be a self-centering scissor frame, which centers the sweeping pattern in front of the tractor when the broom is angled.

Yes ☒

No ☐

Specify As specified

The broom shall be powered by the tractor hydraulic. An additional PTO pump and oil reservoir is not acceptable.

Yes ☒ No ☐

Specify As specified

Final drive shall be hydraulic motor to broom core without any intermediate power transmission device such as sprockets, chains, pulleys or belts.

Yes ☒ No ☐

Specify As specified

Hydraulic drive to sweeper shall have a relief valve to prevent core twisting from broom overload conditions.

Yes ☒ No ☐

Yes As specified

Shall have colour coded hydraulic quick couplers. Paint or tape not acceptable.

Yes ☒ No ☐

Specify As specified

Shall have 4 stands to support entire brooms when disconnected from tractor.

Yes ☒ No ☐

Specify As specified

January 20, 2019

Report To: Mayor & Council

From: Travis Rob, Manager of Operations & Facilities

**SUBJECT: December 2018 Drinking Water Systems Monthly Summary Report**

Please find attached the December 2018 Summary Report on the drinking water systems, prepared by Randy White, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the December 2018 report as presented.

Respectfully submitted,  
Operations & Facilities Division

Travis Rob, P. Eng.  
Manager of Operations & Facilities

<b>Council approval of this report will</b> accept the December 2018 report prior to it being made available to the general public.
---

c.c. – Craig Miller, Environmental & Facilities Supt.  
Randy White, Senior WTP Operator

03CouncilwaterreportMarch 2015

**December 2018**

**Monthly Summary Report  
Water Systems**

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

**Dated: January 13, 2019**

## 1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of November 2018 at the Water Treatment Plant - Water Works # 220000978 and the Airport Groundwater Well Water Works No. 849N7DGE0 (Precedes Airport Groundwater Well Water Works No. 26002736). This information report has been prepared for Council to better understand how the water systems they own and operate are maintained on a monthly basis. Also, this report will assist Council as Directors of the Corporation in exercising its obligation to meet a reasonable Standard of Care as outlined in Section 19 of the Safe Drinking Water Act. The water treatment plant falls under the requirements of Ontario Regulation 170/03 – Drinking Water Systems.

The Airport Small Drinking Water System, System No. 849N7DGE0, was put into service August 01, 2017. The system falls under the requirements of Ontario Regulation 319/08 – Small Drinking Water Systems.

## 2) **Flow Data:**

Water Treatment Plant: See attached spreadsheet.

Airport Groundwater Well :

Estimated Daily Usage	0.21 m3
Estimated December Usage	6.5 m3

## 3) **Microbiological (Health Related) Water Analysis - Main Water System No. 220000978:**

Water Treatment Plant (treated): 4 samples taken no adverse results

Water Treatment Plant (raw): 4 samples taken no adverse results

Water Distribution System: 16 samples taken where 25% of samples were tested for heterotrophic plate count (HPC) - no adverse results.

We take microbiological samples on a weekly basis, which includes 1 raw sample, 1 treated sample and 4 distribution samples. The 4 distribution samples are taken at different locations throughout the distribution system.

Water distribution samples taken at the following locations:

1. 1111 First St. E.	2. 1104 Church St	3. 901 Wright Ave.	4. W. Tower
5. 740 Scott St.	6. 1036 Victoria Ave.	7. 901 Wright Ave.	8. W. Tower
9. 740 Scott St.	10. 320 Portage Ave.	11. 901 Wright Ave.	12. W. Tower
13. 1111 First St. E.	14. 1104 Church St.	15. 740 Scott St.	16. W. Tower

**4) Microbiological (Health Related) Water Analysis - Airport Groundwater Well No. 849N7DGE0:**

New drinking water system put on line August 01, 2017. No treatment required as the Airport groundwater tested negative for bacteria.

The Airport drinking water system is to be sampled and tested for bacteria once every three (3) months in accordance with Section 25 – Microbiological Sampling and Testing of the Small Drinking Water Systems Regulation, O. Reg. 319/08.

Water distribution sample taken October 11, 2018 – no adverse results.

**5) Free Available Chlorine Residual (FAC) - Main Water System No. 220000978:**

FAC residuals are taken at a minimum daily at both the Water Treatment Plant and within the Water Distribution System.

**6) Free Available Chlorine Residual (FAC) - Airport Groundwater Well System No. 849N7DGE0:**

New drinking water system put on line August 01, 2017. No treatment required as the Airport groundwater well tested negative for bacteria.

**7) Maintenance Activities at the WTP:**

- Dec 5<sup>th</sup>    Installed new filters on dust collector  
            Installed a new switch over on the compressor  
            Changed oil in Highlifts 1 & 4  
            Calibrated Distribution Chlorine Analyzer  
            Calibrated the Flouride Analyzer
- Dec 10<sup>th</sup>    Cleaned lower level of the Plant
- Dec 11<sup>th</sup>    Cleaned the Plant
- Dec 12<sup>th</sup>    Greased Clarifiers Chain, Bearings and Gears
- Dec 13<sup>th</sup>    Repaired valve handle on the Clearwell Valve  
            Cleaned top and bottom tanks on the Poly Unit  
            Cleaned all 4 check valves on the Poly Unit
- Dec 19<sup>th</sup>    Calibrated the Distribution Chlorine Analyzer  
            Took grab samples off the filters
- Dec 20<sup>th</sup>    Ran the Standby Generator for 1 hour
- Dec 27<sup>th</sup>    Cleaned top and bottom tanks on the Poly Unit

Dec 27<sup>th</sup>     Cleaned all 4 check valves on the Poly Unit

8) **Water Complaints:**

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

9) **Other Miscellaneous Information:**

Dec 3<sup>rd</sup>         Routine Micro Sample Collection

Dec 4<sup>th</sup>         Quarterly samples at Plant and Water Tower  
TSS samples taken off the filters

Dec 7<sup>th</sup>         Received a bulk load of Soda Ash

Dec 10<sup>th</sup>        Routine micro sample collection

Dec 12<sup>th</sup>        Received a load of Alum

Dec 17<sup>th</sup>        Routine micro sample collection

Dec 24<sup>th</sup>        Received a shipment of Fluoride

Dec 27<sup>th</sup>        Routine micro samples collection

(Dec 27 routine samples were not received at the Lab within the time limit required –  
We notified M.O.E. to make them aware of this matter).

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: \_\_\_\_\_
- Craig Miller, Environmental Superintendent: \_\_\_\_\_
- Travis Rob, Manager of Operations & Facilities: \_\_\_\_\_
- Doug Brown, CAO: \_\_\_\_\_
- Rick Wiedenhoeft, Chair O & F Exec Committee: \_\_\_\_\_
- June Caul, Mayor: \_\_\_\_\_
- John McTaggart, Councillor: \_\_\_\_\_
- Mike Behan, Councillor: \_\_\_\_\_
- Wendy Brunetta, Councillor: \_\_\_\_\_
- Doug Judson, Councillor: \_\_\_\_\_
- Andrew Hallikas, Councillor: \_\_\_\_\_

Note: Once all signatures have been obtained, the report will be distributed and made available to the public. If you have any questions, please feel free to contact myself or Randy White, Senior WTP Operator at 274-2325.



Flow Data	DECEMBER	Units	2016		2017		2018	
			Day of the Month		Day of the Month		Day of the Month	
Total Raw Water	m^3			170510		160800		159820
Raw Maximum Day	m^3	Monday 05th		5750	Sunday 10th	5830	Dec 2nd and 25th	5480
Raw Minimum Day	m^3	Thursday 22nd		5090	Saturday 02nd	4750	Dec 8th	4790
Raw Avgerage Daily Consumption	m^3			5510		5190		5160
Total Treated Water	m^3			108030		105970		104790
Treated Water Maximim Day Consumption	m^3	Saturday 24th		3840	Thursday 07th	3800	Dec 21st	3760
Treated Water Minimim Day Consumption	m^3	Tuesday 06th		2970	Friday 08th	2850	Dec 22nd	2940
Treated Water Average Day Consumption	m^3			3480		3420		3380
Daily Average Per Household Consumption Rate	m^3			0.92		0.90		0.89
* Daily Average Per Person Consumption Rate	m^3			0.44		0.43		0.42
Monthly Averages - Operating Parameters WTP:								
FAC Residual - Treated Water	mg/L			2.16		2.30		2.21
Total Chlorine Residual - Treated Water	mg/L			2.40		2.45		2.42
Aluminum Sulphate - Raw Water	mg/L			35.0		35.0		35.0
Aluminum Sulphate - Treated Water Residual	mg/L			0.04		0.04		0.02
Fluoride - Treated Water	mg/L			0.55		0.55		0.65
Soda Ash - Raw Water	mg/L			35.0		35.0		35.0
PH - Adjusted	mg/L			7.25		7.28		7.17
Temperature	C			2.7		2.0		2.0
Quantity of Chemical Used:		kg						
Aluminum Sulphate	kg			5973.1		5628.0		5593.7
Polyelectrolyte	kg			87.5		75.0		100.00
Chlorine Gas	kg			574		616		644
Soda Ash - Used for PH Adjustment	kg			5973.1		5628.0		5593.7
Fluoride	kg			574.0		659.0		572

- \* The Canadian Average is 450 Litres (0.45 m<sup>3</sup>) per day.
- \* Population is 7986
- \* Number of Households is 3783

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	5.07	5.48	4.98	5.15	5.08	5.03	5.31	4.79	5.22	5.36	5.19	5.11	5.24	5.15	5.12	5.16	5.11	5.05	5.10	5.27	5.26	4.94	5.16	5.25	5.48	5.04	5.11	5.14	5.18	5.24	5.05	159.82	5.16
Peak Instantaneous - Raw Water	L/s	n/a	60.29	60.26	60.27	60.19	60.21	60.69	60.14	60.10	60.04	60.09	60.11	60.31	60.24	60.26	60.25	60.28	60.36	60.34	60.36	60.31	60.36	60.41	60.36	60.36	60.38	60.37	60.41	60.30	60.28	60.26	60.20	1868.79	60.28
Treated Water	10^3 M^3	17	3.12	3.52	3.46	3.20	3.59	3.17	3.41	3.27	3.45	3.52	3.30	3.70	3.30	3.34	3.68	3.16	3.57	3.32	3.10	3.36	3.76	2.94	3.70	3.32	3.44	3.28	3.41	3.11	3.56	3.52	3.21	104.79	3.38
Peak Instantaneous - Treated Water	L/s	n/a	82.00	79.65	79.22	80.65	81.69	78.34	79.82	80.28	79.76	80.22	81.37	82.67	80.69	80.76	83.06	71.81	62.67	62.61	62.59	64.16	79.97	62.94	63.09	64.64	62.94	61.33	63.66	62.02	62.78	62.82	63.78	2243.99	72.39
BackWash Water	10^3 M^3	n/a	0.283	0.238	0.286	0.272	0.269	0.284	0.269	0.240	0.269	0.285	0.244	0.286	0.268	0.240	0.284	0.000	0.269	0.167	0.285	0.268	0.225	0.286	0.268	0.288	0.302	0.286	0.268	0.183	0.284	0.270	0.238	7.904	0.255
Fluoride Information																																			
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.76	0.77	0.76	0.76	0.76	0.63	0.64	0.63	0.63	0.63	0.63	0.63	0.64	0.64	0.64	0.64	0.64	0.62	0.62	0.64	0.63	0.61	0.61	0.61	0.63	0.61	0.61	0.63	0.60	0.59	0.61	20.05	0.65
Turbidity Information																																			
Raw Water	NTU	n/a	1.26	1.32	1.39	1.36	1.33	1.29	1.35	1.26	1.21	1.31	1.27	1.29	1.34	1.31	1.27	1.40	1.32	1.29	1.33	1.21	1.18	1.22	1.19	1.20	1.25	1.21	1.20	1.26	1.19	1.14	1.11	39.26	1.27
Settled Water	NTU	n/a	0.09	0.10	0.11	0.11	0.12	0.11	0.12	0.11	0.10	0.11	0.09	0.10	0.10	0.10	0.11	0.10	0.10	0.10	0.12	0.12	0.11	0.10	0.11	0.10	0.09	0.09	0.08	0.12	0.11	0.09	0.08	3.20	0.10
Treated Water	NTU	1	0.04	0.05	0.06	0.05	0.07	0.07	0.08	0.06	0.05	0.06	0.05	0.05	0.06	0.05	0.05	0.05	0.06	0.05	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.04	0.08	0.07	0.06	0.06	1.68	0.05
Other Operating Parameters																																			
pH - Treated Water	no units	6.5 to 8.5	7.18	7.22	7.14	7.16	7.16	7.14	7.17	7.19	7.11	7.14	7.15	7.12	7.14	7.18	7.15	7.16	7.17	7.16	7.22	7.26	7.22	7.26	7.19	7.11	7.15	7.12	7.09	7.21	7.17	7.21	7.19	222.24	7.17
pH - Settled water	no units	n/a	6.16	6.06	6.17	6.15	6.12	6.13	6.09	6.10	6.16	6.17	6.14	6.15	6.18	6.17	6.34	6.15	6.25	6.18	6.11	6.09	6.11	6.14	6.17	6.16	6.10	6.15	6.06	6.17	6.01	6.10	6.15	190.39	6.14
pH - Raw Water	no units	n/a	7.04	7.06	7.03	7.07	7.02	7.01	7.07	7.04	7.02	7.03	7.05	7.07	7.03	7.13	7.06	7.03	7.11	7.10	7.06	7.09	7.02	7.07	7.04	7.00	7.01	7.10	7.10	7.15	7.10	7.07	7.11	218.89	7.06
FAC - Treated Water	mg/l	0.2 to 4	2.22	2.19	2.32	2.19	2.17	2.24	2.21	2.18	2.25	2.32	2.26	2.24	2.22	2.19	2.17	2.11	2.19	2.16	2.14	2.16	2.17	2.10	2.21	2.22	2.29	2.31	2.26	2.28	2.24	2.10	2.14	68.45	2.21
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.46	2.38	2.42	2.44	2.46	2.42	2.44	2.36	2.42	2.40	2.60	2.56	2.56	2.38	2.30	2.46	2.44	2.36	2.32	2.36	2.34	2.28	2.46	2.48	2.48	2.48	2.56	2.54	2.44	2.20	2.28	75.08	2.42
Temperature	C	15	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	63.0	2.0	
Fluoride used (Total Daily Consumption)	kg	n/a	20.0	22.0	19.0	20.0	19.0	19.0	20.0	17.0	18.0	19.0	19.0	17.0	19.0	17.0	17.0	18.0	18.0	17.0	16.0	19.0	18.0	17.0	18.0	17.0	18.0	19.0	19.0	20.0	19.0	19.0	18.0	572.0	18.5
Chlorine used (Total Daily Consumption)	kg	n/a	20.0	22.0	20.0	20.0	20.0	21.0	21.0	21.0	20.0	22.0	20.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	20.0	21.0	20.0	20.0	21.0	22.0	22.0	21.0	21.0	22.0	21.0	22.0	21.0	644.0	20.8
Soda ash (Total Daily Consumption)	kg	n/a	177.5	191.8	174.3	180.3	177.8	176.1	185.9	167.7	182.7	187.6	181.7	178.9	183.4	180.3	179.2	180.6	178.9	176.8	178.5	184.5	184.1	172.9	180.6	183.8	191.8	176.4	178.9	179.9	181.3	183.4	176.8	5593.7	180.4
Soda Ash - Dosage	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	35.0	35.0	1085.0	35.0
Alum residual - (Total Daily Consumption)	kg	n/a	177.5	191.8	174.3	180.3	177.8	176.1	185.9	167.7	182.7	187.6	181.7	178.9	183.4	180.3	179.2	180.6	178.9	176.8	178.5	184.5	184.1	172.9	180.6	183.8	191.8	176.4	178.9	179.9	181.3	183.4	176.8	5593.7	180.4
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	0.02	0.01	0.03	0.03	0.03	0.03	0.02	0.01	0.06	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.01	0.04	0.05	0.01	0.01	0.02	0.04	0.73	0.02
Poly bags added (25 kg bags )	kg				0.5			0.5				0.5				0.5				0.5			0.5			0.5			0.5					100.0	

Maximum    Minimum

5.48	4.79
60.69	60.04
3.76	2.94
83.06	61.33
0.302	0.000

0.65 Fluoride - Treated Water

7.17 PH - Adjusted

2.42 Total Chlorine Residual - Treated Water

0.02 Aluminum Sulphate - Treated Water

January 23, 2019

Report To: Mayor & Council

From: Travis Rob, Manager Operations & Facilities

**RE: Report No. 1 Establishing 2019 Water & Sewer Rates**

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As outlined in the Long-Range Financial plan, an additional \$140,291.00 in revenue is forecasted to be collected in 2019 from water and sewer rates which translates to a 2.7% increase over 2018. Please find and review page 14 of the Long-Term Financial Plan prepared by BMA Management Consultants.

In 2018 \$ 5,295,320.35 in revenue was forecasted to be collected from water and sanitary sewer user fees where the actual amount collected as of December 31, 2018 was \$5,122,294.26 thus a shortfall in actual revenue of \$173,026.09 from the sale of drinking water.

There are some significant items that should be considered prior to establishing the 2019 water and sewer rates;

The following rate adjustments were adopted in 2018;

- 2.6% rate increase for flat rate residential customers - from \$931.93 per year in 2017 to \$956.16 in 2018 or an increase of \$24.23 per year or \$2.02 per month.
- Non-residential customer's volumetric rate increased by 2.6 % or from \$5.34 per cu. meter in 2017 to \$5.48 per cu. meter in 2018.
- Volumetric rate set at \$3.11 per cu. meter or 2.6 % increase for the I/C class and \$3.58 per cu. meter or 2.6% increase for the institutional customers.
- 2.6% increase to ICI minimum monthly rate from \$1,263.99 per year in 2017 to \$1296.86 per year in 2018 for an increase of \$32.87 per year or \$2.74 per month.
- 2.6% increase to fire hydrants & sprinklers
- An additional **\$109,604.21** in revenue is to be collected compared to the 2017 forecasted revenue which results in a surplus of \$1478.80 from the forecasted revenue of \$5,262,808 given the forecasted 2018 consumption.
- See Spreadsheet No. 1

2) The Inflow & Infiltration (I&I) Investigation study indicates that 5.703 kilometres of sanitary sewer lines need to be addressed within the sanitary sewer system in the next five (5) years based on the substandard condition of the existing piping. The cost to complete this work is estimated at \$32 million dollars where affordability for the community will be a major obstacle.

4) Spreadsheet No. 2 shows the 2018 ICI water meter consumption and revenue data.

5) Spreadsheet No. 3 shows both the forecasted and actual revenue based on usage and forecasted revenue based approved rates. Also, the residential usage per account per year was 229.2 cu. meters or 19.10 cu. meters per month on average in 2018.

6) Sewage Treatment Plant – the Ministry of the Environment is pushing the Town towards having in place an emergency standby generator to operate the plant during power outages and pushing us away from being able to chlorinate effluent during by-pass events. The costs for this, at this time, is unknown.

7) Are any rate adjustments between the ICI and residential rate classes going to be considered in 2019 to address the built-in inequities?

To facilitate the discussion of the rates three rate scenarios have been completed and can be seen on spreadsheet number 1. These scenarios can be summarized as follows:

1. Scenario No. 1 - Using 2.7% rate increase to all 2018 rates - See Scenario No 1 in spreadsheet No. 1 highlighted in “red” – columns 10 to 13;
  - 2.7% rate increase for flat rate residential customers - from \$956.16 per year in 2018 to \$981.98 in 2019 or an increase of \$25.82 per year or \$2.15 per month.
  - Non-residential customer’s volumetric rate increased by 2.7% or from \$5.48 per cu. meter in 2018 to \$5.63 per cu. meter in 2019.
  - Volumetric rate set at \$3.19 per cu. meter or 2.7% increase for the I/C class and \$3.67 per cu. meter or 2.7% increase for the institutional customers.
  - 2.7% increase to ICI minimum monthly rate from \$1,296.86 per year in 2018 to \$1,331.87 per year in 2019 for an increase of \$35.01 per year or \$2.92 per month.
  - 2.7% increase to fire hydrants & sprinklers
  - An additional **\$14,215.21** in revenue is to be collected compared to the 2018 forecasted revenue which results in a shortfall of \$124,589.00 from the forecasted revenue of \$5,403,100 given the forecasted 2018 consumption.
2. Scenario No. 2 - Using a rate increase to all 2018 rates to meet the required revenue as outlined in the financial report - See Scenario No 2 in spreadsheet No. 1 highlighted in “green” – columns 15 to 18;
  - 5.12% rate increase for flat rate residential customers - from \$956.16 per year in 2018 to \$1,005.16 in 2019 or an increase of \$49.00 per year or \$4.08 per month.
  - Non-residential customer’s volumetric rate increased by 5.12% or from \$5.48 per cu. meter in 2018 to \$5.76 per cu. meter in 2019.
  - Volumetric rate set at \$3.27 per cu. meter or 5.12% increase for the I/C class and \$3.76 per cu. meter or 5.12% increase for the institutional customers.

- 5.12% increase to ICI minimum monthly rate from \$1,296.86 per year in 2018 to \$1,363.31 per year in 2019 for an increase of \$66.45 per year or \$5.54 per month.
  - 5.12% increase to fire hydrants & sprinklers
  - An additional **\$138,804.20** in revenue is to be collected compared to the 2018 forecasted revenue which equals the targeted revenue of 5,403,100 given the forecasted 2019 consumption.
3. Scenario No. 3 – 2.7% for residential and non-residential with all ICI rates increased to match the revenue of Scenario 2. Scenario No 3 in spreadsheet No. 1 highlighted in “blue” – columns 20 to 23;
- 2.7% rate increase for flat rate residential customers - from \$956.16 per year in 2018 to \$981.98 in 2019 or an increase of \$25.82 per year or \$2.15 per month.
  - Non-residential customer’s volumetric rate increased by 2.7% or from \$5.48 per cu. meter in 2018 to \$5.63 per cu. meter in 2019.
  - Volumetric rate set at \$3.57 per cu. meter or 14.69% increase for the I/C class and \$4.10 per cu. meter or 14.69% increase for the institutional customers.
  - 14.69% increase to ICI minimum monthly rate from \$1,296.86 per year in 2018 to \$1,487.41 per year in 2019 for an increase of \$190.55 per year or \$15.88 per month.
  - 14.69% increase to fire hydrants & sprinklers
  - An additional **\$138,804.20** in revenue is to be collected compared to the 2018 forecasted revenue which equals the targeted revenue of 5,403,100 given the forecasted 2019 consumption.

At this time some direction is required whether the presented scenarios are sufficient for setting the 2019 water rates, or if there are other rate scenarios that would like to be discussed. It is suggested that the information contained in report be discussed in detail at the next Operations & Facilities Executive Committee meeting scheduled for Wednesday, January 23, 2019.

Respectfully submitted,  
Operations & Facilities Division



Travis Rob, P.Eng.  
Operations & Facilities Manager

<b>This report is provided to Council as information only. No action required at this time.</b>
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### Summary of Rate Revenue Requirements

The Town's objective in establishing the Water and Wastewater rates is to avoid large fluctuations from year to year and to ensure rates are set at a level to adequately cover current operating costs, maintain and repair the Town's existing asset base and replace assets where appropriate.

Efforts are being made in this plan to gradually grow/maintain the reserves to provide a source of funding for the ongoing replacement/refurbishment of capital assets. The following tables reflect the forecast rate revenue requirements.

	2015	2016	2017	2018	2019	2020	2021
Water Rate Revenue Requirements	\$2,522,892	\$2,573,350	\$2,624,817	\$2,677,313	\$2,730,859	\$2,785,477	\$2,841,186
Wastewater Rate Revenue Requirements	\$2,359,937	\$2,431,736	\$2,506,307	\$2,585,495	\$2,672,240	\$2,762,472	\$2,856,347
Total Rate Revenue Requirements	\$4,882,829	\$5,005,086	\$5,131,124	\$5,262,808	\$5,403,100	\$5,547,948	\$5,697,534
\$ change		\$ 122,257	\$ 126,038	\$ 131,684	\$ 140,291	\$ 144,849	\$ 149,585
% change		2.5%	2.5%	2.6%	2.7%	2.7%	2.7%

As shown above the annual increases in consolidated water and wastewater rate revenue requirements is 2.5% to 2.7% from 2015 to 2021.

**Spreadsheet No. 1 - 2019 Water and Sewer Rates Scenarios**  
Updated January 16, 2019

				Scenario No. 2 - residential and non-residential 2.60% , Flat ICI , I/C volumetric & I volumetric at 2.60% above 2016 rates. Volumetric minimum remaining at 10 cu. meters/month				Scenario No. 1 - Residential and non-residential 2.70% , Flat ICI , I/C volumetric & I volumetric at 2.70% above 2018 rates. Volumetric minimum remaining at 10 cu. meters/month				Scenario No. 2 - Residential and non-residential, Flat ICI , I/C volumetric & I volumetric increased to achieve reveene from financial plan. Volumetric minimum remaining at 10 cu. meters/month				Scenario No. 3 - Residential and non-residential 2.70% , Flat ICI , I/C volumetric & I volumetric increased to meet reveene in financial plan. Volumetric minimum remaining at 10 cu. meters/month			
Forecasted		Actual	Forecasted	2018 Proposal Rates	2017 to 2018 % increase	2018 Annual Rate	2018 Forecasted Revenue	2019 Proposal Rates	2018 to 2019 % increase	2019 Annual Rate	2019 Forecasted Revenue	2019 Proposal Rates	2018 to 2019 % increase	2019 Annual Rate	2019 Forecasted Revenue	2019 Proposal Rates	2018 to 2019 % increase	2019 Annual Rate	2019 Forecasted Revenue
# of units		# of units	2019																
Water				\$41.23	2.60%	\$494.72	\$1,775,051.33	\$42.34	2.70%	\$508.08	\$1,836,695.77	\$43.34	5.12%	\$520.07	\$1,880,047.41	\$42.34	2.70%	\$508.08	\$1,836,695.77
Flat Residential (un-metered)				\$41.23	2.60%	\$494.72	\$6,926.06	\$42.34	2.70%	\$508.08	\$7,113.07	\$43.34	5.12%	\$520.07	\$7,280.96	\$42.34	2.70%	\$508.08	\$7,113.07
Churches- September 1st, 2010				\$55.88	2.60%	\$670.55	\$1,341.11	\$57.39	2.70%	\$688.66	\$1,377.32	\$58.74	5.12%	\$704.91	\$1,409.83	\$64.09	14.69%	\$769.08	\$1,538.16
Flat Commercial General (un-metered)				\$2				\$2.91	2.70%		\$338,302.95	\$2.98	5.12%		\$346,287.93	\$2.91	2.70%		\$338,302.95
Metered - Couchiching First Nation				\$1.56	2.60%		\$332,276.59	\$1.60	2.70%		\$319,234.99	\$1.64	5.12%		\$326,769.92	\$1.79	14.69%		\$356,514.61
Metered - Commercial -245				\$1.80	2.60%		\$238,640.30	\$1.85	2.70%		\$209,802.01	\$1.89	5.12%		\$214,753.98	\$2.06	14.69%		\$234,302.27
Metered - Institutional -59				\$54.77	2.60%	\$657.20	\$11,172.40	\$56.25	2.70%	\$674.94	\$10,799.11	\$57.57	5.12%	\$690.88	\$11,054.00	\$62.81	14.69%	\$753.76	\$12,060.21
Private Hydrants				\$17.17	2.60%	\$206.06	\$5,151.56	\$17.64	2.70%	\$211.63	\$5,079.02	\$18.05	5.12%	\$216.62	\$5,198.90	\$19.69	14.69%	\$236.34	\$5,672.14
Private Sprinklers				\$2.84	2.60%		\$5,772.46	\$2.91	2.70%		\$8,023.92	\$2.98	5.12%		\$8,213.31	\$3.25	2.70%		\$8,960.93
Metered Non-Resident (6 accounts)																			
2-Nanicost, 1-FF Tribal Area Health, 1-Treaty 3 Police																			
1-Myer's Hanger 1-Friesen Apartments Alberton						Subtotal	\$2,729,615.23			Subtotal	\$2,736,428.16			Subtotal	\$2,801,016.23			Subtotal	\$2,801,160.10
Flat Residential (un-metered)				\$38.45	2.60%	\$461.44	\$1,641,352.70	\$39.49	2.70%	\$473.90	\$1,701,781.89	\$40.42	5.12%	\$485.09	\$1,741,949.15	\$39.49	2.70%	\$473.90	\$1,701,781.89
Churches- September 1st, 2010				\$38.45	2.60%	\$461.44	\$6,460.20	\$39.49	2.70%	\$473.90	\$6,634.63	\$40.42	5.12%	\$485.09	\$6,791.22	\$39.49	2.70%	\$473.90	\$6,634.63
Flat Commercial General (un-metered)				\$52.19	2.60%	\$626.30	\$1,252.61	\$53.60	2.70%	\$643.21	\$1,286.43	\$54.87	5.12%	\$658.40	\$1,316.79	\$59.86	14.69%	\$718.33	\$1,436.65
Metered -Couchiching First Nation				\$2.64	2.60%		\$329,012.06	\$2.71	2.70%		\$315,060.76	\$2.78	5.12%		\$322,497.16	\$2.71	2.70%		\$315,060.76
Metered - Commercial -244				\$1.55	2.60%		\$323,618.77	\$1.59	2.70%		\$310,916.99	\$1.63	5.12%		\$318,255.58	\$1.78	14.69%		\$347,225.24
Metered - Institutional -59				\$1.78	2.60%		\$227,909.65	\$1.83	2.70%		\$200,368.10	\$1.87	5.12%		\$205,097.40	\$2.04	14.69%		\$223,766.68
Metered Non-Resident (5 accounts)				\$2.64	2.60%		\$5,074.57	\$2.71	2.70%		\$6,034.04	\$2.78	5.12%		\$6,176.46	\$2.71	2.70%		\$6,034.04
				Subtotal		\$2,534,680.56		Subtotal		\$2,542,082.84		Subtotal		\$2,602,083.77		Subtotal		\$2,601,939.90	



SPREADSHEET NO. 2 - TOWN OF FORT FRANCES - WATER METERS 2018 CONSUMPTION HISTORY

		Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	2018 Meter Replacement Charge	2018 Environmental Fee	2018 Sprinklers/ Hydrants Revenue	2018 Water/Sewer Revenue	2018 Total Revenue	2018 \$/M3	Scenario 1		Scenario 2		Scenario 3	
Name		Nov/Dec M3	Sep/Oct M3	Jul/Aug M3	May/Jun M3	Mar/Apr M3	Jan/Feb M3	Total M3							2018 to 2019 % Increase	2019 Annual Rate	2018 to 2019 % Increase	2019 Annual Rate	2018 to 2019 % Increase	2019 Annual Rate
Commercial Meters																				
1	Hammond Landscaping Ltd	0	16	139	283	106	3	547	\$36.00	\$60.00		\$1,400.88	\$1,400.88	\$2.56	-2%	\$ 1,372.80	0%	\$ 1,405.20	9%	\$ 1,533.11
2	2032072 Ontario Limited	2,118	2,473	2,546	2,143	1,884	2,577	13,741	\$204.00	\$60.00		\$43,658.51	\$43,658.51	\$3.18	3%	\$ 44,826.62	5%	\$ 45,884.67	15%	\$ 50,061.38
3	799768 Ontario Ltd.	1,714	1,079	1,295	1,511	2,081	1,379	9,059	\$60.00	\$60.00		\$29,097.49	\$29,097.49	\$3.21	3%	\$ 29,876.00	5%	\$ 30,581.17	15%	\$ 33,364.86
4	Crombie Properties Holdings Limited	553	513	3,362	1,561	682	750	7,421	\$60.00	\$60.00	\$862.80	\$24,003.31	\$24,866.11	\$3.23	-1%	\$ 24,645.52	1%	\$ 25,227.23	11%	\$ 27,523.57
5	1417409 Ontario Inc.	1,295	1,104	1,317	1,099	993	906	6,714	\$204.00	\$60.00	\$862.80	\$21,804.54	\$22,667.34	\$3.25	-1%	\$ 22,387.92	1%	\$ 22,916.34	10%	\$ 25,002.33
6	2032072 Ontario Inc.	1,089	1,250	590	1,274	889	841	5,933	\$180.00	\$60.00		\$19,375.63	\$19,375.63	\$3.27	3%	\$ 19,894.02	5%	\$ 20,363.58	15%	\$ 22,217.20
7	Rendezvous Restaurants of FF Ltd.	-	-	-	810	1,140	905	2,855	\$78.50	\$26.17		\$9,341.05	\$9,341.05	\$3.27	8%	\$ 10,065.31	10%	\$ 10,302.88	20%	\$ 11,240.72
8	Rendezvous Restaurants of FF Ltd.	1,045	1,320	1,763	755	89	78	5,050	\$180.00	\$60.00		\$16,629.50	\$16,629.50	\$3.29	3%	\$ 17,074.41	5%	\$ 17,477.42	15%	\$ 19,068.33
9	E Roy Jorundson Co. Ltd.	266	1,212	1,572	903	495	490	4,938	\$33.40	\$55.67		\$16,281.18	\$16,281.18	\$3.30	3%	\$ 16,716.77	5%	\$ 17,111.34	15%	\$ 18,668.92
10	2466304 Ontario Inc.	493	655	784	748	615	625	3,920	\$39.00	\$60.00		\$13,115.20	\$13,115.20	\$3.35	3%	\$ 13,466.08	5%	\$ 13,783.92	15%	\$ 15,038.62
11	Murray Snider Repair	486	281	318	432	767	621	2,905	\$60.00	\$60.00		\$9,958.55	\$9,958.55	\$3.43	3%	\$ 10,224.97	5%	\$ 10,466.31	15%	\$ 11,419.02
12	Mohawk Property Corporation	353	650	857	261	284	260	2,665	\$39.00	\$60.00		\$9,212.15	\$9,212.15	\$3.46	3%	\$ 9,458.60	5%	\$ 9,681.85	15%	\$ 10,563.15
13	McDonald's Restaurants Of Canada Ltd.	369	407	569	535	371	334	2,585	\$60.00	\$60.00	\$205.80	\$8,963.35	\$9,169.15	\$3.47	0%	\$ 9,203.14	3%	\$ 9,420.36	12%	\$ 10,277.87
14	Sherri Franko	277	495	969	515	45	38	2,339	\$36.00	\$60.00		\$8,198.29	\$8,198.29	\$3.51	3%	\$ 8,417.61	5%	\$ 8,616.29	15%	\$ 9,400.60
15	Wal-Mart Canada Corporation	325	321	341	362	239	184	1,772	\$180.00	\$60.00	\$862.80	\$6,434.92	\$7,297.72	\$3.63	-9%	\$ 6,607.06	-7%	\$ 6,763.01	1%	\$ 7,378.62
16	Goodday Wholesalers (Crozier) Ltd.	164	238	282	422	470	132	1,708	\$54.67	\$54.67		\$6,235.88	\$6,235.88	\$3.65	3%	\$ 6,402.69	5%	\$ 6,553.82	15%	\$ 7,150.39
17	Diane Leek	175	240	290	356	304	280	1,645	\$36.00	\$60.00		\$6,039.95	\$6,039.95	\$3.67	3%	\$ 6,201.52	5%	\$ 6,347.90	15%	\$ 6,925.72
18	R. E. Thomson Inc.	226	299	361	309	216	210	1,621	\$36.00	\$60.00		\$5,965.31	\$5,965.31	\$3.68	3%	\$ 6,124.88	5%	\$ 6,269.45	15%	\$ 6,840.14
19	422743 Ontario Ltd	376	348	244	188	182	174	1,512	\$36.00	\$60.00		\$5,626.32	\$5,626.32	\$3.72	3%	\$ 5,776.82	5%	\$ 5,913.17	15%	\$ 6,451.43
20	George Armstrong Co. Limited	74	516	237	75	-	-	902	\$108.50	\$36.17		\$3,421.22	\$3,421.22	\$3.79	12%	\$ 3,828.96	15%	\$ 3,919.34	25%	\$ 4,276.10
21	TDL Groupt ltd	200	226	232	224	228	211	1,321	\$60.00	\$60.00		\$5,032.31	\$5,032.31	\$3.81	3%	\$ 5,166.92	5%	\$ 5,288.88	15%	\$ 5,770.30
22	1578289 Ont. Ltd.	196	168	205	191	314	239	1,313	\$180.00	\$60.00		\$5,007.43	\$5,007.43	\$3.81	3%	\$ 5,141.37	5%	\$ 5,262.73	15%	\$ 5,741.77
23	OK Kim Byeong	206	231	177	245	224	214	1,297	\$60.00	\$60.00		\$4,957.67	\$4,957.67	\$3.82	3%	\$ 5,090.28	5%	\$ 5,210.43	15%	\$ 5,684.72
24	G.Armstrong Co.	52	15	21	21	60	43	212	\$60.00	\$60.00		\$822.12	\$822.12	\$3.88	2%	\$ 836.06	4%	\$ 855.80	14%	\$ 933.70
25	Goodday Wholesalers (Crozier) Ltd.	-	-	-	-	-	197	197	\$5.33	\$5.33		\$766.67	\$766.67	\$3.89	106%	\$ 1,577.75	111%	\$ 1,614.99	130%	\$ 1,762.00
26	Sherry L. Franko	185	174	32	299	-	-	690	\$24.00	\$40.00		\$2,761.90	\$2,761.90	\$4.00	14%	\$ 3,152.00	17%	\$ 3,226.40	27%	\$ 3,520.09
27	M. Wu Dentistry	124	149	126	176	223	205	1,003	\$36.00	\$60.00		\$4,043.33	\$4,043.33	\$4.03	3%	\$ 4,151.48	5%	\$ 4,249.47	15%	\$ 4,636.28
28	Royal Canadian Legion	162	198	146	123	166	189	984	\$180.00	\$60.00		\$3,984.24	\$3,984.24	\$4.05	3%	\$ 4,090.81	5%	\$ 4,187.36	15%	\$ 4,568.52
29	1413986 Ontario Limited	131	147	166	199	162	112	917	\$36.00	\$60.00		\$3,775.87	\$3,775.87	\$4.12	3%	\$ 3,876.86	5%	\$ 3,968.37	15%	\$ 4,329.59
30	Fort Frances Curling Club	196	192	98	76	130	188	880	\$39.00	\$60.00	\$862.80	\$3,660.80	\$4,523.60	\$4.16	-17%	\$ 3,758.71	-15%	\$ 3,847.43	-7%	\$ 4,197.65
31	1341653 Ontario Ltd.	45	122	239	252	140	67	865	\$36.00	\$60.00		\$3,614.15	\$3,614.15	\$4.18	3%	\$ 3,710.82	5%	\$ 3,798.40	15%	\$ 4,144.16
32	#1566841 Ont Ltd.	35	168	173	158	158	162	854	\$36.00	\$60.00		\$3,579.94	\$3,579.94	\$4.19	3%	\$ 3,675.69	5%	\$ 3,762.45	15%	\$ 4,104.93
33	Canadian Tire Corporation	80	191	157	143	121	109	801	\$180.00	\$60.00	\$862.80	\$3,415.11	\$4,277.91	\$4.26	-18%	\$ 3,506.45	-16%	\$ 3,589.21	-8%	\$ 3,915.93
34	897542 Ontario Inc.	102	157	213	145	103	71	791	\$36.00	\$60.00		\$3,384.01	\$3,384.01	\$4.28	3%	\$ 3,474.52	5%	\$ 3,556.53	15%	\$ 3,880.27
35	Stan's Carpet & Drapery Ltd.	142	142	139	132	121	111	787	\$36.00	\$60.00		\$3,371.57	\$3,371.57	\$4.28	3%	\$ 3,461.75	5%	\$ 3,543.45	15%	\$ 3,866.00
36	Trident Holdings	57	126	266	113	91	81	734	\$36.00	\$60.00		\$3,206.74	\$3,206.74	\$4.37	3%	\$ 3,292.50	5%	\$ 3,370.22	15%	\$ 3,677.00
37	The New Home Appliances	285	115	109	65	61	59	694	\$39.00	\$60.00		\$3,082.34	\$3,082.34	\$4.44	3%	\$ 3,164.78	5%	\$ 3,239.47	15%	\$ 35



69	Christopher/Barb Stainke	56	50	44	53	43	52	298	\$36.00	\$60.00		\$1,850.78	\$1,850.78	\$6.21	3%	\$	1,900.26	5%	\$	1,945.12	15%	\$	2,122.17
70	1578289 Ont. Ltd.	33	30	25	82	101	26	297	\$180.00	\$60.00		\$1,847.67	\$1,847.67	\$6.22	3%	\$	1,897.07	5%	\$	1,941.85	15%	\$	2,118.61
71	F-Flecs Restaurant Mgmt, Inc	48	36	39	57	73	43	296	\$180.00	\$60.00		\$1,844.56	\$1,844.56	\$6.23	3%	\$	1,893.88	5%	\$	1,938.58	15%	\$	2,115.04
72	422743 Ontario Limited	62	62	43	42	44	41	294	\$36.00	\$60.00		\$1,838.34	\$1,838.34	\$6.25	3%	\$	1,887.49	5%	\$	1,932.04	15%	\$	2,107.91
73	Alan/Melanie Kozik	44	41	44	53	56	54	292	\$36.00	\$60.00		\$1,832.12	\$1,832.12	\$6.27	3%	\$	1,881.10	5%	\$	1,925.50	15%	\$	2,100.78
74	Alicia Anderson	46	56	39	77	47	23	288	\$32.80	\$54.67		\$1,819.68	\$1,819.68	\$6.32	3%	\$	1,868.33	5%	\$	1,912.43	15%	\$	2,086.51
75	Angela Galusha	47	44	47	55	48	43	284	\$36.00	\$60.00		\$1,807.24	\$1,807.24	\$6.36	3%	\$	1,855.56	5%	\$	1,899.36	15%	\$	2,072.25
76	Maurice Fillion	71	40	31	34	60	47	283	\$36.00	\$60.00		\$1,804.13	\$1,804.13	\$6.38	3%	\$	1,852.37	5%	\$	1,896.09	15%	\$	2,068.68
77	Walleye Trailer Park Ltd.	40	46	59	50	43	39	277	\$36.00	\$60.00		\$1,785.47	\$1,785.47	\$6.45	3%	\$	1,833.21	5%	\$	1,876.48	15%	\$	2,047.28
78	Einers Foods Limited	48	46	47	44	41	50	276	\$36.00	\$60.00		\$1,782.36	\$1,782.36	\$6.46	3%	\$	1,830.01	5%	\$	1,873.21	15%	\$	2,043.72
79	Linda & Francesco Morelli	24	26	49	59	33	69	260	\$36.00	\$60.00		\$1,732.60	\$1,732.60	\$6.66	3%	\$	1,778.92	5%	\$	1,820.91	15%	\$	1,986.66
80	Joshua Leatherdale	70	55	45	39	28	23	260	\$36.00	\$60.00		\$1,732.60	\$1,732.60	\$6.66	3%	\$	1,778.92	5%	\$	1,820.91	15%	\$	1,986.66
	1796702 Ontario Limited	34	48	33	48	42	41	246	\$36.00	\$60.00		\$1,689.06	\$1,689.06	\$6.87	3%	\$	1,734.22	5%	\$	1,775.15	15%	\$	1,936.74
81	CN Rail	37	47	41	36	40	44	245	\$36.00	\$60.00		\$1,685.95	\$1,685.95	\$6.88	3%	\$	1,731.02	5%	\$	1,771.88	15%	\$	1,933.17
	Raymons Wesley Calder Jr.	24	30	37	84	38	14	227	\$32.90	\$54.83		\$1,583.77	\$1,583.77	\$6.98	6%	\$	1,673.55	8%	\$	1,713.05	18%	\$	1,868.98
82	1391266 Ontario Limited	52	13	11	27	68	79	250	\$36.00	\$60.00		\$1,751.26	\$1,751.26	\$7.01	0%	\$	1,746.99	2%	\$	1,788.22	11%	\$	1,951.00
83	Betty's of Fort Frances	36	39	43	40	41	36	235	\$36.00	\$60.00		\$1,654.85	\$1,654.85	\$7.04	3%	\$	1,699.09	5%	\$	1,739.20	15%	\$	1,897.51
84	Rainy Lake Plaza	6	8	260	6	4	6	290	\$36.00	\$60.00		\$2,043.60	\$2,043.60	\$7.05	-8%	\$	1,874.72	-6%	\$	1,918.97	2%	\$	2,093.64
85	Jennifer Horton	45	32	30	37	36	52	232	\$36.00	\$60.00		\$1,645.52	\$1,645.52	\$7.09	3%	\$	1,689.51	5%	\$	1,729.39	15%	\$	1,886.81
86	Garnet Paull	33	31	37	38	47	39	225	\$39.00	\$60.00		\$1,623.75	\$1,623.75	\$7.22	3%	\$	1,667.16	5%	\$	1,706.51	15%	\$	1,861.85
87	Resolute FP Canada Inc	20	34	29	42	62	34	221	\$180.00	\$60.00		\$1,611.31	\$1,611.31	\$7.29	3%	\$	1,654.39	5%	\$	1,693.44	15%	\$	1,847.58
	Bruce Parker Enterprises Ltd.	36	35	38	40	37	33	219	\$36.00	\$60.00		\$1,605.09	\$1,605.09	\$7.33	3%	\$	1,648.00	5%	\$	1,686.90	15%	\$	1,840.45
88	Larry Armstrong	45	41	40	35	24	26	211	\$36.00	\$60.00		\$1,580.21	\$1,580.21	\$7.49	3%	\$	1,622.45	5%	\$	1,660.75	15%	\$	1,811.92
89	Thunder Bay Truck Centre Holdings Inc.	30	50	43	28	34	25	210	\$39.00	\$60.00		\$1,577.10	\$1,577.10	\$7.51	3%	\$	1,619.26	5%	\$	1,657.48	15%	\$	1,808.36
	Angela Dokuchie	36	37	45	18	-	-	136	\$20.60	\$34.33		\$1,023.56	\$1,023.56	\$7.53	35%	\$	1,382.96	38%	\$	1,415.61	51%	\$	1,544.46
90	Jeffrey Wright	17	57	69	22	20	20	205	\$36.00	\$60.00		\$1,570.88	\$1,570.88	\$7.66	2%	\$	1,603.30	4%	\$	1,641.14	14%	\$	1,790.52
	Town of Fort Frances	-	8	58	27	-	-	93	\$14.70	\$24.50		\$712.88	\$712.88	\$7.67	75%	\$	1,245.66	79%	\$	1,275.06	95%	\$	1,391.12
91	D. McCool Transport Ltd.	32	23	37	30	40	39	201	\$36.00	\$60.00		\$1,549.11	\$1,549.11	\$7.71	3%	\$	1,590.52	5%	\$	1,628.06	15%	\$	1,776.26
92	McLaine Holdings	38	34	30	32	32	31	197	\$1,536.67	\$1,536.67		\$1,536.67	\$1,536.67	\$7.80	3%	\$	1,577.75	5%	\$	1,614.99	15%	\$	1,762.00
93	Fort Frances Times Ltd.	32	29	32	32	32	38	195	\$36.00	\$60.00		\$1,530.45	\$1,530.45	\$7.85	3%	\$	1,571.36	5%	\$	1,608.45	15%	\$	1,754.86
94	2025973 Ontario Ltd.	32	24	27	36	34	41	194	\$36.00	\$60.00		\$1,527.34	\$1,527.34	\$7.87	3%	\$	1,568.17	5%	\$	1,605.18	15%	\$	1,751.30
95	Luke Henry	29	33	34	36	37	21	190	\$36.00	\$60.00		\$1,514.90	\$1,514.90	\$7.97	3%	\$	1,555.40	5%	\$	1,592.11	15%	\$	1,737.03
96	Kenneth Rogoza	29	25	34	34	38	27	187	\$36.00	\$60.00		\$1,505.57	\$1,505.57	\$8.05	3%	\$	1,545.82	5%	\$	1,582.30	15%	\$	1,726.33
97	560102 Ontario Ltd.	39	44	27	33	20	20	183	\$39.00	\$60.00		\$1,493.13	\$1,493.13	\$8.16	3%	\$	1,533.04	5%	\$	1,569.23	15%	\$	1,712.07
98	Rendezvous Restaurants of FF Ltd.	16	34	44	46	30	14	184	\$36.00	\$60.00		\$1,527.34	\$1,527.34	\$8.30	1%	\$	1,536.24	3%	\$	1,572.50	12%	\$	1,715.64
99	Catherine Emes	11	15	11	12	17	131	197	\$36.00	\$60.00		\$1,642.41	\$1,642.41	\$8.34	-4%	\$	1,577.75	-2%	\$	1,614.99	7%	\$	1,762.00
100	Town of Fort Frances	3	26	78	39	19	21	186	\$36.00	\$60.00		\$1,558.44	\$1,558.44	\$8.38	-1%	\$	1,542.62	1%	\$	1,579.03	11%	\$	1,722.77
	CIBC C/O BLJC	27	22	17	27	28	56	177	\$39.00	\$60.00		\$1,483.80	\$1,483.80	\$8.38	2%	\$	1,513.89	4%	\$	1,549.62	14%	\$	1,690.67
101	Chad Jackson	16	13	10	10	11	20	80	\$36.00	\$60.00		\$670.80	\$670.80	\$8.39	-7%	\$	624.57	-5%	\$	639.31	4%	\$	697.51
102	Silver and Kircher Ltd.	32	35	28	30	22	27	174	\$36.00	\$60.00		\$1,465.14	\$1,465.14	\$8.42	3%	\$	1,504.31	5%	\$	1,539.81	15%	\$	1,679.98
103	F.F. & District Assoc Comm	29	27	25	30	30	30	171	\$36.00	\$60.00		\$1,455.81	\$1,455.81	\$8.51	3%	\$	1,494.73	5%	\$	1,530.01	15%	\$	1,669.28
104	D. McCool Transport Ltd.	1	47	47	77	18	2	192	\$36.00	\$60.00		\$1,642.41	\$1,642.41	\$8.55	-5%	\$	1,561.78	-3%	\$	1,598.65	6%	\$	1,744.17
105	Mylaeco Investments Ltd.	-	-	-	-	-	28	28	\$3.10	\$5.17		\$241.08	\$241.08	\$8.61	331%	\$	1,038.10	341%	\$	1,062.60	381%	\$	1,159.32
106	Teresita DelRosario-Coish & Robert Coish	25	28	44	24	22	24	167	\$36.00	\$60.00		\$1,443.37	\$1,443.37	\$8.64	3%	\$	1,481.95	5%	\$	1,516.93	15%	\$	1,655.01
107	Banta Enterprises Ltd.	17	50	24	26	23	25	165	\$36.00	\$60.00		\$1,446.48	\$1,446.48	\$8.77	2%	\$	1,475.57	4%	\$	1,510.39	14%	\$	1,647.88
108	Peters, Andrew	32	11	18	30	38	40	169	\$36.00	\$60.00		\$1,483.80	\$1,483.80	\$8.78	0%	\$	1,488.34	3%	\$	1,523.47	12%	\$	1,662.14
109	Lakewood Tire Ltd.	23	27	33	24	25	30	162	\$36.00	\$60.00		\$1,427.82	\$1,427.82	\$8.81	3%	\$	1,465.99	5%	\$	1,500.59	15%	\$	1,637.18
110	Renee Rousseau-Winik & Garry Winik	27	27	24	30	26	25	159	\$36.00	\$60.00		\$1,418.49	\$1,418.49	\$8.92	3%	\$	1,456.41	5%	\$	1,490.78	15%	\$	1,626.48
111	William Krag	35	17	24	18	25	41	160	\$36.00	\$60.00		\$1,437.15	\$1,437.15	\$8.98	2%	\$	1,459.60	4%	\$	1,494.05	13%	\$	1,630.05
112	1103538 Ontario Inc.	12	11	10	94	20	19	166	\$39.00	\$60.00		\$1,527.34	\$1,527.34	\$9.20	-3%	\$	1,478.76	-1%	\$	1,513.66	8%	\$	1,651.45
113	1413986 Ontario Ltd.	18	30	27	41	23	14	153	\$36.00	\$60.00		\$1,424.71	\$1,424.71	\$9.31	1%	\$	1,437.25	3%	\$	1,471.17	13%	\$	1,605.09
114	Daryl's Custom Landscaping	37	23	17	28	21	21	147	\$36.00	\$60.00		\$1,390.50	\$1,390.50	\$9.46	2%	\$	1,418.09	4%	\$	1,451.56	14%	\$	1,583.69
115	Larry Armstrong	25	28	18	25	20	24	140	\$36.00	\$60.00		\$1,365.62	\$1,365.62	\$9.75	2%	\$	1,395.74	5%	\$	1,428.68	14%	\$	1,558.73
116	432174 Ontario Ltd.	19	22	22	28	52	0	143	\$180.00	\$60.00		\$1,434.04	\$1,434.04	\$10.03	-2%	\$	1,405.32	0%	\$	1,438.49	9%	\$	1,569.43
117	Resolute Forest Products Inc.	0	0	0	0	71	0	71	\$0.00	\$60.00		\$750.36	\$750.36	\$10.57	57%	\$	1,175.40	60%	\$	1,203.15	75%	\$	1,312.67
118	Celeste's Beauty Salon Ltd.	-	-	-	-	-	19	19	\$3.20	\$5.33		\$205.39	\$205.39	\$10.81	391%	\$	1,009.36	403%	\$	1,033.18	449%	\$	1,127.23
119	North American Lumber	-	-	-	20	20	20	60	\$15.50	\$25.83		\$648.60	\$648.60	\$10.81	76%	\$	1,140.28	80%	\$	1,167.19	96%	\$	1,273.44
120	West End Motors	11	14	21	20	41	18	125	\$36.00	\$60.00		\$1,365.62	\$1,365.62	\$10.92	-1%	\$	1,347.84	1%	\$	1,379.65	10%	\$	1,505.24
121	1308900 Ontario Limited	22	25	13	12	28	22	122	\$36.00	\$60.00		\$1,350.07	\$1,350.07	\$11.07	-1%	\$	1,338.26	1%	\$	1,369.85	11%	\$	1,494.54
122	Senic River Mall Inc.	17	19	40	17	15	14	122	\$36.00	\$60.00		\$1,359.40	\$1,359.40	\$11.14	-2%	\$	1,338.26	1%	\$	1,369.85	10%	\$	1,494.54
123	Robert/Daniel Cousineau	24	23	20	12	27	13	119	\$36.00	\$60.00		\$1,340.74	\$1,340.74	\$11.27	-1%	\$							

146	RR Dist. Office Services Ltd	13	12	11	13	17	13	79	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$16.42	-7%	\$	1,200.95	-5%	\$	1,229.30	3%	\$	1,341.20
147	Tom Veert	13	9	9	11	16	20	78	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$16.63	-8%	\$	1,197.76	-5%	\$	1,226.03	3%	\$	1,337.63
148	Lakewood Tire Ltd.	5	17	10	11	12	23	78	\$36.00	\$60.00		\$1,306.53	\$1,306.53	\$16.75	-8%	\$	1,197.76	-6%	\$	1,226.03	2%	\$	1,337.63
149	Town of Fort Frances	18	13	13	36	0	0	80	\$36.00	\$60.00		\$1,346.96	\$1,346.96	\$16.84	-11%	\$	1,204.14	-8%	\$	1,232.57	0%	\$	1,344.76
150	Paula Plichta Jensen	7	5	5	42	12	7	78	\$36.00	\$60.00		\$1,365.62	\$1,365.62	\$17.51	-12%	\$	1,197.76	-10%	\$	1,226.03	-2%	\$	1,337.63
151	Douglas Cuthbertson Trustee	18	9	7	16	10	13	73	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$17.77	-9%	\$	1,181.79	-7%	\$	1,209.69	2%	\$	1,319.80
152	Donald Taylor	7	5	6	9	9	40	76	\$36.00	\$60.00		\$1,359.40	\$1,359.40	\$17.89	-12%	\$	1,191.37	-10%	\$	1,219.49	-2%	\$	1,330.50
153	Brewers Retail Inc.	8	9	19	12	9	10	67	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$19.36	-10%	\$	1,162.63	-8%	\$	1,190.07	0%	\$	1,298.40
154	Rainy Lake Plaza	11	7	12	14	9	14	67	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$19.36	-10%	\$	1,162.63	-8%	\$	1,190.07	0%	\$	1,298.40
155	Senic River Mall Inc.	29	6	4	7	12	10	68	\$36.00	\$60.00		\$1,325.19	\$1,325.19	\$19.49	-12%	\$	1,165.83	-10%	\$	1,193.34	-2%	\$	1,301.97
156	Rainy Lake Plaza	11	8	9	9	15	12	64	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$20.27	-11%	\$	1,153.05	-9%	\$	1,180.27	-1%	\$	1,287.70
	Fred Brown Equipment (1987) Ltd.	2	1	1	1	49	14	68	\$36.00	\$60.00		\$1,387.39	\$1,387.39	\$20.40	-16%	\$	1,165.83	-14%	\$	1,193.34	-6%	\$	1,301.97
157	407695 Ontario Ltd	26	16	8	6	2	4	62	\$36.00	\$60.00		\$1,315.86	\$1,315.86	\$21.22	-13%	\$	1,146.67	-11%	\$	1,173.73	-3%	\$	1,280.57
158	736916 Ontario Limited	11	13	7	8	7	14	60	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$21.62	-12%	\$	1,140.28	-10%	\$	1,167.19	-2%	\$	1,273.44
159	Warehouse One Clothing Ltd.	3	2	3	19	15	15	57	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$22.76	-13%	\$	1,130.70	-11%	\$	1,157.39	-3%	\$	1,262.74
160	Knapp Investments	6	17	8	8	8	10	57	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$22.76	-13%	\$	1,130.70	-11%	\$	1,157.39	-3%	\$	1,262.74
161	Dalton Taylor	4	5	5	14	19	9	56	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$23.16	-13%	\$	1,127.51	-11%	\$	1,154.12	-3%	\$	1,259.17
162	Peter C. Jensen Ltd.	8	8	9	10	8	12	55	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$23.59	-13%	\$	1,124.31	-11%	\$	1,150.85	-3%	\$	1,255.61
163	Silver and Kircher Ltd.	9	10	7	10	9	10	55	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$23.59	-13%	\$	1,124.31	-11%	\$	1,150.85	-3%	\$	1,255.61
164	Edward Brockie	-	-	1	1	31	4	37	\$24.00	\$40.00		\$899.01	\$899.01	\$24.30	19%	\$	1,066.84	21%	\$	1,092.02	33%	\$	1,191.42
165	1796702 Ontario Limited	7	8	12	8	8	8	51	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$25.44	-14%	\$	1,111.54	-12%	\$	1,137.78	-4%	\$	1,241.34
166	Northern Cartage Limited	8	6	8	9	11	7	49	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$26.47	-15%	\$	1,105.15	-13%	\$	1,131.24	-5%	\$	1,234.21
167	Ontario Realty Corp	-	3	9	8	-	-	20	\$15.93	\$24.50		\$529.69	\$529.69	\$26.48	91%	\$	1,012.55	96%	\$	1,036.45	113%	\$	1,130.79
168	1468189 Ontario Ltd.	8	6	7	9	8	10	48	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$27.03	-15%	\$	1,101.96	-13%	\$	1,127.97	-5%	\$	1,230.65
169	70798 Manitoba Ltd.	4	4	16	-	-	-	24	\$18.00	\$30.00		\$648.60	\$648.60	\$27.03	58%	\$	1,025.32	62%	\$	1,049.52	77%	\$	1,145.06
170	CERS Investments Inc.	7	8	7	9	8	9	48	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$27.03	-15%	\$	1,101.96	-13%	\$	1,127.97	-5%	\$	1,230.65
171	Gushulak Services Ltd	10	7	6	9	9	7	48	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$27.03	-15%	\$	1,101.96	-13%	\$	1,127.97	-5%	\$	1,230.65
172	Canadian Tire Corporation	9	7	8	8	8	8	48	\$39.00	\$60.00		\$1,297.20	\$1,297.20	\$27.03	-15%	\$	1,101.96	-13%	\$	1,127.97	-5%	\$	1,230.65
173	Midtown Motel	8	13	9	10	4	2	46	\$34.90	\$58.17		\$1,257.56	\$1,257.56	\$27.34	-13%	\$	1,095.57	-11%	\$	1,121.43	-3%	\$	1,223.51
174	Senic River Mall Inc.	9	6	5	7	10	10	47	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$27.60	-15%	\$	1,098.77	-13%	\$	1,124.70	-5%	\$	1,227.08
175	777714 Ontario Limited	-	-	-	-	5	5	5	\$4.00	\$6.67		\$144.13	\$144.13	\$28.83	569%	\$	964.65	585%	\$	987.42	647%	\$	1,077.30
176	Salvation Army Of Canada	6	9	7	9	6	5	42	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$30.89	-17%	\$	1,082.80	-15%	\$	1,108.36	-7%	\$	1,209.25
177	Jack Thomson	9	12	9	5	3	4	42	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$30.89	-17%	\$	1,082.80	-15%	\$	1,108.36	-7%	\$	1,209.25
178	Bus Stop Holdings Limited	5	5	5	8	9	8	40	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$32.43	-17%	\$	1,076.42	-15%	\$	1,101.82	-7%	\$	1,202.12
179	Melanie Kozik	6	6	6	6	8	8	40	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$32.43	-17%	\$	1,076.42	-15%	\$	1,101.82	-7%	\$	1,202.12
180	Revco Carpet Centre Limited	5	5	8	8	5	7	38	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$34.14	-18%	\$	1,070.03	-16%	\$	1,095.28	-8%	\$	1,194.98
181	Liquor Control Board	7	6	6	6	6	7	38	\$39.00	\$60.00		\$1,297.20	\$1,297.20	\$34.14	-18%	\$	1,070.03	-16%	\$	1,095.28	-8%	\$	1,194.98
182	Rick Johnson	4	18	2	3	3	0	30	\$30.10	\$50.17		\$1,084.60	\$1,084.60	\$36.15	-4%	\$	1,044.48	-1%	\$	1,069.14	8%	\$	1,166.46
183	Gooodday Wholesalers (Crozier) Ltd.	-	-	-	3	6	2	11	\$11.90	\$19.83		\$428.80	\$428.80	\$38.98	129%	\$	983.81	135%	\$	1,007.03	156%	\$	1,098.70
184	Beverly Brunetta	5	5	5	5	5	8	33	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$39.31	-19%	\$	1,054.06	-17%	\$	1,078.94	-9%	\$	1,177.15
185	Martian Properties Inc.	3	14	5	6	2	2	32	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$40.54	-19%	\$	1,050.87	-17%	\$	1,075.67	-10%	\$	1,173.59
186	Robert & Blondina Ditmars	4	2	4	4	7	11	32	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$40.54	-19%	\$	1,050.87	-17%	\$	1,075.67	-10%	\$	1,173.59
187	407695 Ontario Ltd	5	5	3	5	6	8	32	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$40.54	-19%	\$	1,050.87	-17%	\$	1,075.67	-10%	\$	1,173.59
188	1188710 Ontario Ltd.	4	4	2	6	6	10	32	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$40.54	-19%	\$	1,050.87	-17%	\$	1,075.67	-10%	\$	1,173.59
189	Barbara Godbout	5	4	5	5	4	4	27	\$34.70	\$57.83		\$1,250.36	\$1,250.36	\$46.31	-17%	\$	1,034.90	-15%	\$	1,059.33	-8%	\$	1,155.76
190	M. L. Caron Electric Ltd.	4	4	4	4	5	6	28	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$46.33	-20%	\$	1,038.10	-18%	\$	1,062.60	-11%	\$	1,159.32
191	J.N. Webb & Sons	4	4	5	6	4	3	26	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$49.89	-20%	\$	1,031.71	-19%	\$	1,056.06	-11%	\$	1,152.19
192	Jonathan Neurinski	1	-	-	-	-	-	1	\$1.50	\$2.50		\$54.05	\$54.05	\$54.05	1661%	\$	951.88	1703%	\$	974.35	1867%	\$	1,063.04
193	West End Motors	4	4	3	2	3	4	20	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$64.86	-22%	\$	1,012.55	-20%	\$	1,036.45	-13%	\$	1,130.79
194	G.Armstrong Co.	1	2	1	2	2	2	10	\$36.00	\$60.00		\$670.80	\$670.80	\$67.08	-24%	\$	512.42	-22%	\$	524.51	-15%	\$	572.25
195	Bettys of Fort Frances	3	3	4	3	3	3	19	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$68.27	-22%	\$	1,009.36	-20%	\$	1,033.18	-13%	\$	1,127.23
196	J.N. Webb & Sons	1	1	2	1	14	0	19	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$68.27	-22%	\$	1,009.36	-20%	\$	1,033.18	-13%	\$	1,127.23
197	Senic River Mall Inc.	3	3	2	3	3	3	17	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$76.31	-23%	\$	1,002.97	-21%	\$	1,026.64	-14%	\$	1,120.10
198	Derek Jackson	2	2	3	3	2	2	14	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$92.66	-23%	\$	993.39	-22%	\$	1,016.84	-14%	\$	1,109.40
199	Clare Brubacher	3	2	2	2	2	3	14	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$92.66	-23%	\$	993.39	-22%	\$	1,016.84	-14%	\$	1,109.40
200	Tookenay, Brent	0	2	2	4	3	3	14	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$92.66	-23%	\$	993.39	-22%	\$	1,016.84	-14%	\$	1,109.40
	Rainy Lake Plaza	3	2	3	2	2	2	14	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$92.66	-23%	\$	993.39	-22%	\$	1,016.84	-14%	\$	1,109.40
201	George Armstrong Co. Limited	3	0	1	2	5	-	11	\$30.00	\$50.00		\$1,081.00	\$1,081.00	\$98.27	-9%	\$	983.81	-7%	\$	1,007.03	2%	\$	1,098.70
202	1862235 Ontario Ltd.	2	2	2	2	3	2	13	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$99.78	-24%	\$	990.20	-22%	\$	1,013.57	-15%	\$	1,105.83
203	Senic River Mall Inc.	2	3	2	2	2	1	13	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$99.78	-24%	\$	990.20	-22%	\$	1,013.57	-15%	\$	1,105.83
204	1752515 Ontario Ltd.	1	1	2	2	5	1	12	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$108.10	-24%	\$	987.01	-22%	\$	1,010.30	-15%	\$	1,102.27
205	Shaw Cable Systems	2	2	2	2	2	2	12	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$108.10	-24%	\$	987.0						



227	William Krag	-	-	-	-	-	-	0	-	-	-	-	-	-
228	Midtown Motel	-	-	-	-	-	-	0	-	-	-	-	-	-
229	Sun Gro Horticulture	-	-	-	-	-	-	0	-	-	-	-	-	-
230	Resolute FP Canada Inc	-	-	-	-	-	-	0	-	-	-	-	-	-
231	Town of Fort Frances	-	-	-	-	-	-	0	-	-	-	-	-	-
232	1251597 ONT LTD	-	-	-	-	-	-	0	-	-	-	-	-	-
233	Resolute FP Canada Inc	-	-	-	-	-	-	0	-	-	-	-	-	-
234	Resolute FP Canada Inc	-	-	-	-	-	-	0	-	-	-	-	-	-
235	Resolute FP Canada Inc	-	-	-	-	-	-	0	-	-	-	-	-	-
236	1140624 Ontario Limited	-	-	-	-	-	-	0	\$0.00	\$0.00	-	\$0.00	\$0.00	#DIV/0!
237	R. E. Gushulak Distributors Limited	0	0	0	0	0	0	0	\$36.00	\$60.00	-	\$1,297.20	\$1,297.20	#DIV/0!
238	432174 Ontario Ltd.	-	-	-	-	-	-	0	\$5.20	\$8.67	-	\$187.37	\$187.37	#DIV/0!
239	Sunset Country Snowmobile Club (Fort Frances) Inc.	0	0	0	0	0	0	0	\$36.00	\$60.00	-	\$1,297.20	\$1,297.20	#DIV/0!
240	Ryan Mason	-	-	-	-	-	-	0	\$0.90	\$1.50	-	\$32.43	\$32.43	#DIV/0!
241	Causeway Insurance Brokers	0	0	0	0	0	0	0	\$36.00	\$60.00	-	\$1,297.20	\$1,297.20	#DIV/0!
242	MWRW Real Estate Holdings Ltd.	0	-	-	-	-	-	0	\$1.41	\$2.17	-	\$46.84	\$46.84	#DIV/0!
243	Resolute FP Canada Inc	0	0	0	0	0	0	0	\$504.00	\$60.00	-	\$1,297.20	\$1,297.20	#DIV/0!
244	Fort Frances Community Clinic Inc.	0	0	0	0	-	-	0	\$21.60	\$36.00	-	\$778.32	\$778.32	#DIV/0!
245	Midtown Motel	0	-	-	-	-	-	0	\$1.30	\$2.17	-	\$46.84	\$46.84	#DIV/0!
Total		18,948	20,984	26,596	23,009	19,731	18,057	127,325	\$10,976.15	\$13,334.99	\$5,382.60	\$622,091.76	\$627,474.36	

-27%	\$	948.69	-25%	\$	971.08	-18%	\$	1,059.47
406%	\$	948.69	418%	\$	971.08	465%	\$	1,059.47
-27%	\$	948.69	-25%	\$	971.08	-18%	\$	1,059.47
2825%	\$	948.69	2894%	\$	971.08	3167%	\$	1,059.47
-27%	\$	948.69	-25%	\$	971.08	-18%	\$	1,059.47
925%	\$	948.69	1973%	\$	971.08	2162%	\$	1,059.47
-27%	\$	948.69	-25%	\$	971.08	-18%	\$	1,059.47
22%	\$	948.69	25%	\$	971.08	36%	\$	1,059.47
925%	\$	948.69	1973%	\$	971.08	2162%	\$	1,059.47
\$ 630,151.98			\$ 645,025.50			\$ 703,739.85		

INSTITUTIONAL METERS

2	Riverside Health Care		6,974	7,923	6,037	4,742	4,998	30,674	\$270.00	\$60.00		\$126,976.68	\$126,976.68	\$4.14
3	Riverside Health Care		5,666	5,783	5,214	4,903	4,880	26,446	\$270.00	\$60.00		\$114,922.82	\$114,922.82	\$4.35
3	N.W. Catholic School Brd		396	923	284	197	227	2,027	\$180.00	\$60.00		\$8,987.04	\$8,987.04	\$4.43
4	Ontario Realty Corp		625	530	690	880	985	3,710	\$180.00	\$60.00		\$16,565.90	\$16,565.90	\$4.47
5	Town of Fort Frances		425	395	515	430	500	2,265	\$180.00	\$60.00		\$10,157.70	\$10,157.70	\$4.48
6	Town of Fort Frances		205	184	87	-	-	476	\$15.30	\$25.50		\$2,137.88	\$2,137.88	\$4.49
7	FF RR Board Of Education		572	1,252	1,412	1,169	1,112	5,517	\$204.00	\$60.00		\$24,996.80	\$24,996.80	\$4.53
8	Town of Fort Frances		202	181	468	251	89	1,191	\$60.00	\$60.00		\$5,421.36	\$5,421.36	\$4.55
9	Town of Fort Frances		1,127	624	1,195	1,097	1,803	5,846	\$270.00	\$60.00		\$26,797.54	\$26,797.54	\$4.58
10	Resolute FP Canada Inc.		1,021	975	665	435	384	3,480	\$60.00	\$60.00		\$15,985.94	\$15,985.94	\$4.59
11	Ontario Realty Corp		464	526	382	441	405	2,218	\$180.00	\$60.00	\$205.80	\$10,250.78	\$10,456.58	\$4.62
12	Riverside Health Care		150	166	689	207	132	1,344	\$36.00	\$60.00		\$6,438.08	\$6,438.08	\$4.79
13	Parks Board		90	40	216	-	-	346	\$17.44	\$26.83		\$1,672.48	\$1,672.48	\$4.83
14	FF RR Board Of Education		339	184	339	334	307	1,503	\$180.00	\$60.00	\$205.80	\$7,390.36	\$7,596.16	\$4.92
15	FFRR BD of Education		265	147	201	201	208	1,022	\$204.00	\$60.00		\$5,181.50	\$5,181.50	\$5.07
16	Fort Frances Day Care		165	163	213	173	165	879	\$180.00	\$60.00		\$4,504.88	\$4,504.88	\$5.13
17	The NW Catholic Dist		217	141	182	145	144	829	\$39.00	\$60.00		\$4,451.18	\$4,451.18	\$5.37
18	Ontario Realty Corp		224	187	155	48	201	815	\$180.00	\$60.00	\$205.80	\$4,551.42	\$4,757.22	\$5.58
19	RRDSSAB		44	48	126	38	164	420	\$36.00	\$60.00		\$2,517.98	\$2,517.98	\$6.00
20	FF Clinic Holdings Ltd		143	127	84	67	72	493	\$60.00	\$60.00		\$2,994.12	\$2,994.12	\$6.07
21	F.F. Town Arena		224	8	11	178	59	480	\$204.00	\$60.00	\$862.80	\$2,940.42	\$3,803.22	\$6.13
22	Northwest Catholic Distric School Board		83	8	89	91	174	445	\$39.00	\$60.00	\$205.80	\$2,797.22	\$3,003.02	\$6.29
23	Armstrong, Larry George		65	45	43	73	105	331	\$39.00	\$60.00		\$2,124.18	\$2,124.18	\$6.42
24	RRDSSAB		98	127	110	137	95	567	\$36.00	\$60.00		\$3,692.22	\$3,692.22	\$6.51
25	United Native Friendship		109	34	58	43	77	321	\$36.00	\$60.00		\$2,228.00	\$2,228.00	\$6.94
26	Cole, Candace		60	77	57	58	50	302	\$36.00	\$60.00		\$2,170.72	\$2,170.72	\$7.19
27	Town of Fort Frances		84	62	61	55	29	291	\$39.00	\$60.00		\$2,106.28	\$2,106.28	\$7.24
28	United Native Friendship		80	61	108	61	55	365	\$36.00	\$60.00		\$2,743.52	\$2,743.52	\$7.52
29	Fort Frances Museum		28	39	80	25	28	200	\$36.00	\$60.00		\$1,680.26	\$1,680.26	\$8.40
30	Ontario Realty Corp		29	75	61	23	10	198	\$39.00	\$60.00		\$1,683.84	\$1,683.84	\$8.50
31	United Native Friendship Ctr		36	42	50	38	37	203	\$36.00	\$60.00		\$1,730.38	\$1,730.38	\$8.52
32	Volunteer Bureau		22	21	41	79	19	182	\$36.00	\$60.00		\$1,594.34	\$1,594.34	\$8.76
33	Public Library		32	32	41	41	25	171	\$180.00	\$60.00		\$1,562.12	\$1,562.12	\$9.14
34	Parks Board		7	29	26	-	-	62	\$15.50	\$25.83		\$633.84	\$633.84	\$10.22
35	Rainy River District School Board Office		30	23	32	27	32	144	\$60.00	\$60.00		\$1,479.78	\$1,479.78	\$10.28
36	Riverside Health Care		25	45	42	14	19	145	\$36.00	\$60.00		\$1,490.52	\$1,490.52	\$10.28
37	Public Works Canada		60	51	45	54	34	244	\$39.00	\$60.00		\$2,525.14	\$2,525.14	\$10.35
38	Armstrong, Jim		28	28	28	25	24	133	\$36.00	\$60.00		\$1,451.14	\$1,451.14	\$10.91
39	1358862 Ontario Ltd.		24	24	27	29	26	130	\$36.00	\$60.00		\$1,429.66	\$1,429.66	\$11.00
40	Town of Fort Frances		26	17	15	-	-	58	\$26.83	\$26.83		\$670.08	\$670.08	\$11.55
41	Ontario Realty Corp		24	30	32	24	26	136	\$180.00	\$60.00		\$1,673.10	\$1,673.10	\$12.30
42	F.F. & District Assoc Comm		21	20	24	20	21	106	\$36.00	\$60.00		\$1,318.68	\$1,318.68	\$12.44
43	The NW Catholic Dist		26	15	24	20	22	107	\$39.00	\$60.00		\$1,354.48	\$1,354.48	\$12.66
44	Ontario Realty Corp		23	13	34	22	13	105	\$180.00	\$60.00	\$205.80	\$1,404.60	\$1,610.40	\$13.38
45	Parks Board		0	0	46	-	-	46	\$15.50	\$25.83		\$673.22	\$673.22	\$14.64
46	Riverside Health Care		18	11	24	24	12	89	\$36.00	\$60.00		\$1,325.84	\$1,325.84	\$14.90
47	Metis Ventures Inc.		9	15	48	8	4	84	\$36.00	\$60.00		\$1,397.44	\$1,397.44	\$16.64
48	Civic Administration		15	20	19	15	7	76	\$204.00	\$60.00		\$1,297.20	\$1,297.20	\$17.07
49	Fort Frances Power Corporation		15	15	16	15	12	73	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$17.77
50	Town of Fort Frances		1	0	37	-	-	38	\$28.67	\$28.67		\$680.63	\$680.63	\$17.91
51	Town of Fort Frances		1	21	9	-	-	31	\$15.50	\$25.83		\$562.10	\$562.10	\$18.13
52	Hydro One Networks Inc.		13	12	13	13	13	64	\$39.00	\$60.00		\$1,297.20	\$1,297.20	\$20.27
53	Town of Fort Frances		0	0	0	0	41	41	\$60.00	\$60.00		\$2,281.70	\$2,281.70	\$55.65
54	Town of Fort Frances		2	1	2	4	28	37	\$39.00	\$60.00		\$2,109.86	\$2,109.86	\$57.02
55	Senic River Mall Inc.		4	5	4	6	3	22	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$58.96
56	Ontario Realty Corp		3	2	2	3	3	13	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$99.78
57	Metis Venures Inc.		0	1	1	3	4	9	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$144.13
58	Town of Fort Frances		0	0	1	0	0	1	\$36.00	\$60.00		\$1,297.20	\$1,297.20	\$1,297.20
59	Town of Fort Frances		-	-	-	-	-	0	-	-		-	-	-
Total		0	20,639	21,528	20,515	16,986	17,883	97,551	\$4,931.74	\$3,245.32	\$1,891.80	\$465,498.15	\$467,389.95	
Grandtotal								224,876	\$15,907.89	\$16,580.31	\$7,274.40	\$1,087,589.91	\$1,094,864.31	

-11%	\$	113,617.69	-8%	\$	116,299.41	0%	\$	126,885.73
-15%	\$	98,079.81	-13%	\$	100,394.79	-5%	\$	109,533.37
-7%	\$	8,340.09	-5%	\$	8,536.94	4%	\$	9,314.03
-12%	\$	14,525.11	-10%	\$	14,867.94	-2%	\$	16,221.32
-9%	\$	9,214.74	-7%	\$	9,432.23	1%	\$	10,290.82
23%	\$	2,640.17	26%	\$	2,702.49	38%	\$	2,948.48
-15%	\$	21,165.82	-13%	\$	21,665.40	-5%	\$	23,637.53
-3%	\$	5,267.79	-1%	\$	5,392.13	9%	\$	5,882.95
-17%	\$	22,374.90	-15%	\$	22,903.01	-7%	\$	24,987.79
-14%	\$	13,679.86	-12%	\$	14,002.74	-4%	\$	15,277.36
-14%	\$	9,042.01	-11%	\$	9,255.43	-3%	\$	10,097.92
-9%	\$	5,830.07	-7%	\$	5,967.67	1%	\$	6,510.89
29%	\$	2,213.46	32%	\$	2,414.94	44%	\$	2,610.89
-16%	\$	6,414.39	-14%	\$	6,565.79	-6%	\$	7,163.45
-10%	\$	4,646.72	-8%	\$	4,756.40	0%	\$	5,189.35
-9%	\$	4,121.19	-6%	\$	4,218.47	2%	\$	4,602.46
-12%	\$	3,937.44	-9%	\$	4,030.38	-1%	\$	4,397.25
-18%	\$	3,885.99	-16%	\$	3,977.72	-9%	\$	4,339.79
-3%	\$	2,434.37	-1%	\$	2,491.83	8%	\$	2,718.65
-10%	\$	2,702.65	-8%	\$	2,766.44	1%	\$	3,018.26
-30%	\$	2,654.87	-29%	\$	2,717.53	-22%	\$	2,

FLAT RATE COMMERCIAL														
1	Town Of Fort Frances	-	-	-	-	-	-	-	-	-	-	-	-	N/A
2	Town Of Fort Frances	-	-	-	-	-	-	-	-	\$60.00	\$0.00	\$1,297.20	\$1,297.20	N/A
3	Resolute Forest Products Inc.	-	-	-	-	-	-	-	-	-	-	-	-	N/A
4	Town Of Fort Frances	-	-	-	-	-	-	-	-	\$46.83	\$0.00	\$1,012.54	\$1,012.54	N/A
5	Town Of Fort Frances	-	-	-	-	-	-	-	-	\$26.83	\$0.00	\$580.14	\$580.14	N/A
Total										\$0.00	\$133.66	\$0.00	\$2,889.88	\$2,889.88
Grandtotal										\$15,907.89	\$16,713.97	\$7,274.40	\$1,090,479.79	\$1,097,754.19

COUCHICHING														
1	Couchiching Band Office	1858	2,134	605	1,558	1,656	1,548	9,359	\$504.00	\$0.00	\$0.00	\$51,390.57	\$51,390.57	\$5.49
2	Couchiching Band Office	14990	15,720	20,700	17,120	14,820	14,950	98,300	\$840.00	\$0.00	\$0.00	\$539,676.66	\$539,676.66	\$5.49
Total										16,848	17,854	21,305	18,678	16,476
Grandtotal										332,535	\$17,251.89	\$16,713.97	\$7,274.40	\$1,681,547.02

NON-RESIDENT														
1	Friesen Five	139	172	122	486	16	11	946	\$180.00	\$0.00	\$0.00	\$2,577.84	\$2,577.84	\$2.72
2	Nanicost	129	172	127	223	215	123	989	\$180.00	\$0.00	\$0.00	\$5,439.27	\$5,439.27	\$5.50
3	Nanicost	115	129	61	138	115	99	657	\$180.00	\$0.00	\$862.80	\$3,616.59	\$4,479.39	\$5.50
4	Gizhewaadiziwin Health Access Centre	42	66	95	92	44	52	391	\$39.00	\$0.00	\$0.00	\$2,156.25	\$2,156.25	\$5.51
5	Myers Hanger	11	18	43	47	113	58	290	\$36.00	\$0.00	\$0.00	\$1,837.83	\$1,837.83	\$6.34
6	Southern Police Detachment Building Committee	30	64	25	25	25	30	199	\$180.00	\$0.00	\$0.00	\$1,349.22	\$1,349.22	\$6.78
Total										466	621	473	1011	528
Grandtotal										336007	\$18,046.89	\$16,713.97	\$8,137.20	\$1,698,524.02
										16,806	17,788	21,210	18,586	16,432
										16,446	107,268			

HYDRANTS AND SPRINKLERS ONLY														
1	RRDSSAB (A1)	-	-	-	-	-	-	-	\$0.00	\$0.00	\$205.80	\$956.40	\$1,162.20	N/A
2	RRDSSAB (A1)	-	-	-	-	-	-	-	\$0.00	\$0.00	\$205.80	\$956.40	\$1,162.20	N/A
3	RRDSSAB (A1)	-	-	-	-	-	-	-	\$0.00	\$0.00	\$205.80	\$956.40	\$1,162.20	N/A
4	Columbus Place For Seniors Of Fort Frances Inc. (A1)	-	-	-	-	-	-	-	\$0.00	\$0.00	\$862.80	\$956.40	\$1,819.20	N/A
5	Flinder's Place Inc. (A1)	-	-	-	-	-	-	-	\$0.00	\$0.00	\$862.80	\$956.40	\$1,819.20	N/A
	Resolute FP Canada Inc. (A3)	-	-	-	-	-	-	-	\$0.00	\$0.00	\$1,752.00	\$0.00	\$1,752.00	N/A
6	Town Of Fort Frances (A3)	-	-	-	-	-	-	-	\$0.00	\$0.00	\$438.00	\$0.00	\$438.00	N/A
7	Rainy River Standard Condominium Corporation (A3)	-	-	-	-	-	-	-	\$0.00	\$0.00	\$862.80	\$0.00	\$862.80	N/A
8	LaVerendrye Non-Profit Supportive Housing (A1)	-	-	-	-	-	-	-	\$0.00	\$0.00	\$862.80	\$956.40	\$1,819.20	N/A
9	Fort Frances Board Of Education (A7)	-	-	-	-	-	-	-	\$0.00	\$0.00	\$1,725.60	\$0.00	\$1,725.60	N/A
10	Riverside Healthcare Facilities Inc. (A7)	-	-	-	-	-	-	-	\$0.00	\$0.00	\$2,172.00	\$0.00	\$2,172.00	N/A
11	Resolute FP Canada Inc. (A3)	-	-	-	-	-	-	-	\$0.00	\$0.00	\$617.40	\$0.00	\$617.40	N/A
Total											\$10,773.60	\$5,738.40	\$16,512.00	

	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018
	Forecasted	Forecasted	Forecasted revenue	Forecasted revenue	Forecasted revenue	Actual	Actual	Forecasted revenue	Actual	Actual	Actual - Projected	Actual - Projected
	Cubic Meters	% of Usage	based on Usage	based on Budgeted Revenue	% based Budgeted Revenue	Cubic Meters	% of Usage	based on Actual Usage	Revenue	Revenue %	\$ Difference on Actual Usage	\$ Difference on Actual Revenue
Total Actual treated water distributed into the distribution System	1026050					1372840						
Estimated 15% System loss (leaks, Hydrants and flushing)	-153908					-205926						
Total Billed Out treated water	872143		\$5,279,859.65	\$5,285,625.00		1166914		\$5,154,691.59	\$5,122,294.26			
Actual Usage ICI Accounts - 289 accounts based on 2015	257907	29.57%	\$1,561,342.05	\$1,122,444.96	21.24%	224876	19.27%	\$993,360.63	\$1,087,589.94	21.29%	\$94,229.31	-\$34,855.02
Actual CFN metered - 2 accounts	124484	14.27%	\$753,613.14	\$682,295.49	12.91%	107659	9.23%	\$475,569.70	\$591,067.23	11.54%	\$115,497.53	-\$91,228.26
Non-residential Accounts -6 accounts	2034	0.23%	\$12,313.62	\$13,688.37	0.26%	3472	0.30%	\$15,337.11	\$16,977.00	0.33%	\$1,639.89	\$3,288.63
Estimated Usage												
Estimated Calculated Non-metered Accounts - 2 accounts using 200 cubic meters per account	400	0.05%	\$2,421.56	\$2,593.71	0.05%	400	0.03%	\$1,766.95	\$2,889.88		\$1,122.93	\$296.17
Estimated remaining amount is Residential Usage - 3609 accounts plus 14 church accounts	487318	55.88%	\$2,950,169.27	\$3,464,602.47	65.55%	830507	71.17%	\$3,668,657.20	\$3,423,770.21	66.84%	-\$244,886.99	-\$40,832.26
		100.00%	\$5,279,859.65	\$5,285,625.00	100.00%		100.00%	\$5,154,691.59	\$5,122,294.26	100.00%	-\$32,397.33	-\$163,330.74
Estimated Residential usage per account per year- (Canadian average is 270 cu. per year)	135.3					229.2						
Estimated Residential usage per account per month	11.27					19.10						
Estimated residential cost per cubic meter of water (\$41.23 per month 2018)	\$3.66					\$2.16						
Calculated Water non-residential customers (1.25 times residential rate) per cubic meter	\$4.57					\$2.70						
Estimated residential cost per cubic meter of wastewater (38.45 per month 2018)	\$3.41					\$2.01						
Calculated Sewer non-residential customers (1.25 times residential rate) per cubic meter	\$4.26					\$2.52						



Water System

	2016 Budget	2016 Actuals 31-Dec-16	2017 Budget	2017 Actuals 31-Dec-17	2018 Budget	2018 Actuals 31-Dec-18	2019 Budget	2018 Actuals - 2018 Budgeted Difference	2019 Budgeted-2018 Budgeted Difference
Revenues - includes Contribution from Reserves	(\$2,670,685)	(\$2,734,311)	(\$2,738,279)	(\$2,772,364)	(\$2,797,219)	(\$1,847,430)	(\$2,876,464)	\$949,789	(\$79,245)
Capital Local Improvement Revenue									
Total Revenue	(\$2,670,685)	(\$2,734,310.64)	(\$2,738,279)	(\$2,772,364.09)	(\$2,797,219)	(\$1,847,429.86)	(\$2,876,464)	\$949,789.14	(\$79,245)
Administration - includes Contribution to Reserve Funds	\$1,619,311	\$1,712,015	\$1,647,707	\$1,525,346	\$1,666,791	\$349,791	\$1,741,389	(\$1,317,000)	\$74,598
Water Service Connections	\$149,306	\$121,968	\$155,186	\$138,512	\$124,223	\$86,471	\$122,572	(\$37,752)	(\$1,651)
Water Meter Maintenance	\$12,990	\$17,944	\$20,762	\$31,570	\$22,195	\$24,397	\$27,005	\$2,202	\$4,810
Water Distribution System Maintenance	\$219,608	\$234,413	\$234,197	\$249,639	\$240,389	\$245,095	\$242,964	\$4,706	\$2,574
Water Treatment Plant	\$539,113	\$538,611	\$556,441	\$698,147	\$617,957	\$407,962	\$624,178	(\$209,995)	\$6,221
Water Storage Facility (Tower)	\$130,357	\$109,443	\$124,104	\$119,215	\$125,664	\$103,626	\$118,356	(\$22,038)	(\$7,308)
S/T - all operating expenditures	\$2,670,685	\$2,734,394	\$2,738,397	\$2,762,429	\$2,797,220	\$1,217,343	\$2,876,464	(\$1,579,877)	\$79,244
Total Capital Budget	\$2,436,031	\$5,860,362	\$593,506	\$505,454	\$883,341	\$637,441	\$2,564,380		
Reserves Used for Financing Capital	\$959,432	\$0	(\$623,458)	(\$711,509)	(\$81,000)	\$0	\$1,294,054		
Treated Water Billed Out	1201840	1162579		872143		1166914		\$1,166,914	\$80,731
Cost per cu. meter	\$2.22	\$2.35		\$3.17		\$1.04			

Sanitary Sewer System

Revenues- includes Contribution from Reserves	(\$2,430,115)	(\$2,868,435)	(\$2,515,426)	(\$2,526,179)	(\$2,579,930)	(\$1,715,557)	(\$2,648,657)	\$864,373	(\$68,727)
Total revenue	(\$2,430,114.84)	(\$2,868,434.57)	(\$2,515,425.96)	(\$2,526,178.81)	(\$2,579,930.00)	(\$1,715,557.15)	(\$2,648,656.61)	\$864,373	(\$68,727)
Administration Plus Contribution to Reserve Funds	\$1,330,475	\$1,346,763	\$675,895	\$919,584	\$686,437	\$265,159	\$1,589,146	(\$421,278)	\$902,709
Adminstration - Capital Debenture payments-Capital Program	\$122,327	\$10,549	\$88,636	\$3,565	\$0	\$0	\$0	\$0	\$0
Total Adminstration - expenditures	\$1,452,803	\$1,357,312	\$764,530	\$923,149	\$686,437	\$265,159	\$1,589,146	(\$421,278)	\$902,709
Sewer mains	\$239,243	\$156,557	\$240,371	\$160,615	\$239,495	\$134,888	\$238,091	(\$104,607)	(\$1,404)
Service Connections	\$112,150	\$87,838	\$105,893	\$68,064	\$92,652	\$58,376	\$93,960	(\$34,276)	\$1,308
Sewage Treatment Plant	\$748,247	\$771,743	\$756,650	\$748,304	\$762,101	\$521,794	\$727,459	(\$240,307)	(\$34,642)
S/T - all operating expenditures	\$2,552,442	\$2,373,450	\$1,867,444	\$1,900,131	\$1,780,685	\$980,217	\$2,648,657	(\$800,468)	\$867,972
Total Capital Budget	\$2,835,728	\$2,080,843	\$724,555	\$577,772	\$795,554	\$557,273	\$2,586,959	(\$238,281)	\$1,791,405
Reserves Used for Financing Capital	\$1,946,783								
Treated water billed out	1201840	1162579		872143		1166914			
Cost per cu. meter	\$2.12	\$2.04		\$2.18		\$0.84			

Summary - Water & Sewer

Total revenue	(\$5,100,800)	(\$5,602,745)	(\$5,253,705)	(\$5,298,543)	(\$5,377,149)	(\$3,562,987)	(\$5,525,121)	\$1,814,162	(\$147,972)
Operating Budget	\$5,223,127	\$5,107,844	\$4,605,842	\$4,662,560	\$4,577,905	\$2,197,560	\$5,525,121	(\$2,380,345)	\$947,216
Capital Budget	\$5,271,759.03	\$7,941,204.89	\$1,318,060.51	\$1,083,226.01	\$1,678,894.57	\$1,194,713.23	\$5,151,339.41	(\$484,181)	\$3,472,445
Total cost for water & sewer per cu. meter	\$4.35	\$4.39		\$5.35		\$1.88			
Reserves Used for Financing Capital	\$2,906,215	\$0	(\$623,458)	(\$711,509)	(\$81,000)		\$1,294,054	\$81,000	\$1,375,054
Projected Reserves as of December 31				\$4,788,338	\$5,472,978	\$5,465,809			(\$5,472,978)

Total Revenue		(\$5,572,939.21)		(\$5,268,736.90)		(\$3,533,181.01)		(\$3,533,181)	
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Sewer & Water Data for 2018

up-dated January 19, 2019

Month	Days per month	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018-2017	2018-2017	2018	2018	Monthly
		Total	daily	Couch.	Couch.	Couch.	Total	daily	Couch.	Couch.	Couch.	Diff	Diff	Difference	Infiltration	Infiltration
		Sewage	Sewage	Sewage	Sewage	Sewage	Treated	Treated	2 Water	2 Water	Water	Treated	Wastewater	STP-WTP	daily average	US Gallons
		STP	STP	Meters	Meters	%	WTP	WTP	Meters	Meters	%	WTP	STP			
		cu. meters	cu. meters	cu. meters	cu. meters		cu. meters	cu. meters	cu. meters	cu. meters						
		monthly	daily	monthly	daily		monthly	daily	monthly	daily						
January	31	169201	5458.10	10220	329.68	6.04%	119180	3844.5	8275	266.9	6.94%	4630.0	-5544.0	50021.0	1613.6	13,214,148
February	28	147497	5267.75	8365	298.75	5.67%	107410	3836.1	8275	295.5	7.70%	3730.0	-27459.0	40087.0	1431.7	10,589,863
March	31	167707	5409.90	10261	331.00	6.12%	124800	4025.8	8260	266.5	6.62%	11240.0	-55476.0	42907.0	1384.1	11,334,828
April	30	166292	5543.07	11686	389.53	7.03%	115850	3861.7	8260	275.3	7.13%	7520.0	-90467.0	50442.0	1681.4	13,325,364
May	31	210932	6804.26	12612	406.84	5.98%	112970	3644.2	9385	302.7	8.31%	-4020.0	-17619.0	97962.0	3160.1	25,878,817
June	30	205818	6860.60	13578	452.60	6.60%	119760	3992.0	9385	312.8	7.84%	5550.0	3904.0	86058.0	2868.6	22,734,114
July	31	183465	5918.23	13310	429.35	7.25%	125810	4058.4	10700	345.2	8.50%	-490.0	-28799.0	57655.0	1859.8	15,230,837
August	31	157126	5068.58	11054	356.58	7.04%	132730	4281.6	10700	345.2	8.06%	9310.0	-24830.0	24396.0	787.0	6,444,740
September	30	169565	5652.17	9149	304.97	5.40%	104130	3471.0	8927	297.6	8.57%	-3490.0	-5231.0	65435.0	2181.2	17,286,095
October	31	239494	7725.61	14833	478.48	6.19%	103780	3347.7	8927	288.0	8.60%	-5700.0	56044.0	135714.0	4377.9	35,851,839
November	30	200745	6691.50	11818	393.93	5.89%	101430	3381.0	8495	283.2	8.38%	-1420.0	22746.0	99315.0	3310.5	26,236,242
December	31	2187105	70551.77	10711	345.52	0.49%	104790	3380.3	8495	274.0	8.11%	-1180.0	2015507.0	2082315.0	67171.5	550,089,318
Total	365	4204947		137597			1372640.0		108084.0			4900.0	1740369.0	2832307.0	7759.7	748,216,205
Monthly Average		350412.3	11412.63	11466.42	376.44		114386.7	3760.4	9007.0	296.1		2140.0	153564.7	236025.6	7652.3	62,351,350

January 11, 2019,

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

Attention: Mr. Craig Miller  
Environmental and Facilities Superintendent

Dear Craig:

**Re: Fort Frances Wastewater Treatment Facility  
December 2018 Monthly Report**

As per the operating agreement, the attached document is the December 2018 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 – Sr. Operations Manager.

Yours truly,



Kelly Cunningham  
Team Lead

For Larry Wachter  
Sr. Operations Manager



**The Corporation of the Town of Fort Frances  
Wastewater Treatment Plant  
(Sewage Plant)  
December 2018 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 December 2018; 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 operates under *Environmental Compliance Approval Number 6786-A44PWG*. The ECA 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.

## DECEMBER 2018 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	11.6 kg/d	225 kg/d	135 kg/d
Total Suspended Solids	3.1 mg/L	25 mg/L	15 mg/L	16.6 kg/d	225 kg/d	135 kg/d
Total Phosphorus	0.11 mg/L	1.0 mg/L	0.9 mg/L	0.60 kg/d	9 kg/d	8.1 kg/d
Total Nitrogen Nitrate Nitrogen	9.93 mg/L 8.33 mg/L					
Total Cl <sub>2</sub> Residual		<0.01 mg/L (when in use)				
E-Coli		10.0 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 6.9 to 7.3; average pH was 7.1			
Temperature degrees C			Temperatures ranged from 9.5 to 11.5 C; average temperature of effluent was 10.7 C			

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

## WASTEWATER LIQUID PROCESS

The average daily flow for December was 5460.1 m<sup>3</sup>/day. This represents 61% of the design average flow. Total treated flow for the month was 169263 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 Environmental Compliance Approval.

\*\*The Town of Fort Frances accepted an additional 177.3 m<sup>3</sup> of sewage from the New Gold mine site into the collection system in December. Lab analyses have not been provided.

## **MAINTENANCE**

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

### **Treatment Plant:**

- Alternated lead/lag pumps
- Adjusted fluidizing water to head cell and grit snail as needed
- Greased all blowers
- Regular cleaning of head works EW basket strainer
- Greased Grit Snail and lubricated drive chain
- Monthly inspection of spiral screen access hatch, removed wrapped debris
- Weekly manifold wash on the Fournier press
- Drained and inspected teacup
- Changed oil blowers 1, 2 and 5
- Cleaned LMI polymer pumps stand and floor
- The snow blower was attached to the John Deere tractor
- Changed oil in both grit pump gear boxes

### **Pump Stations:**

- Ran gensets
- Changed seal water strainers

## **PROCESS AND OPTIMIZATION ISSUES**

A new progressive cavity polymer pump and VFD have been ordered from Fournier. Fournier will be handling the installation and commissioning.

## **SLUDGE SUMMARY**

Dennis Robinson Limited hauled a calculated total of 90.7 m<sup>3</sup> (9 bins) of thickened digested sludge to the Town of Fort Frances landfill site. The hauled sludge averaged 17.4 % TS for the month but slump test results from the landfill have not been provided.

## **COMPLAINTS**

There were no complaints during the report period.

## **BYPASS/OVERFLOW REPORT(S)**

There were no bypass events during the month.

## **COMMENTS**

Plant power consumption for the month was 657 (x 180 multiplier) kWh.

An ESA inspection was conducted at the plant and lift stations. Issues identified by the inspector have been given to Jon Galbraith to correct.

Crane inspections were completed by Century Cranes.

The Town mechanics will be doing a safety inspection of the portable diesel generator trailer.

The weekly samples from December 27<sup>th</sup> arrived at the lab on December 31<sup>st</sup> which exceeded the 48 hour hold time for e-coli testing but the delayed tests were within limits. Operations staff had tried to fly the samples to Thunder Bay but flights were cancelled due to snow storm and then the couriers had difficulty with weather and holiday schedules.

## **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)

2018 Fort Frances Wastewater

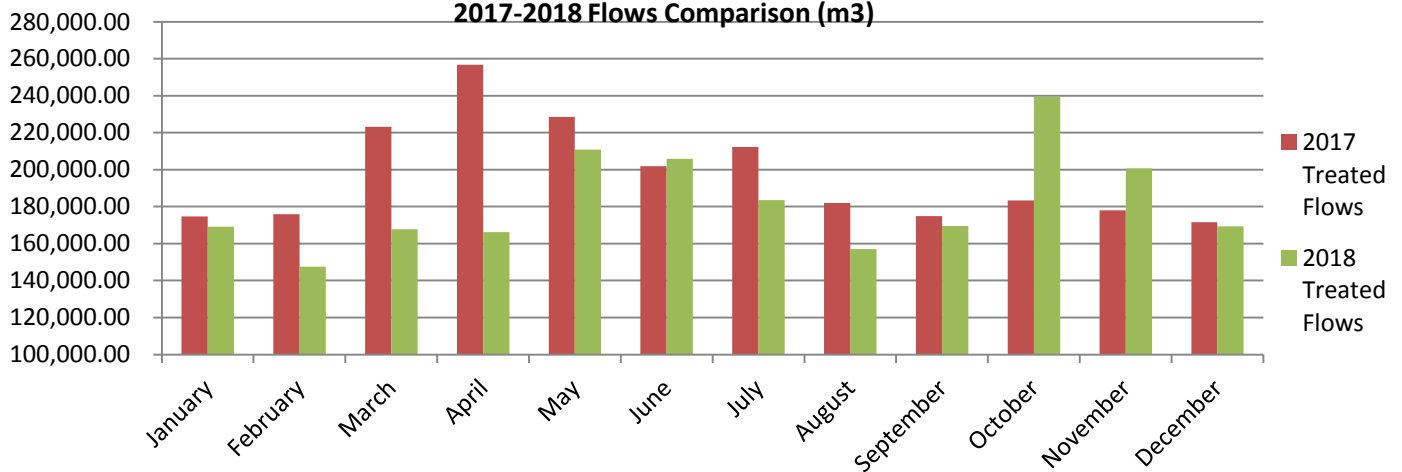
Month	Sewage Flows Year 2018					Usage	Calculated	Sludge	Removal Efficiency	
	Avg. Day	Max Day	Total	Total	Total	% Plant	Volume	Bins	CBOD5 0.971615527	
	Flow	Flow	Treated	ByPass	Volume	Capacity	Hauled	Hauled	Suspended Solids 0.968367732	
	m3	m3	Volume ML	Volume ML	ML		M3		Total Phosphorus 0.943438914	
January	5458.1	5955	169201		169201	61%	128.9	13	The weekly samples from December 27 <sup>th</sup> arrived at the lab on December 31 <sup>st</sup> which exceeded the 48 hour hold time for e-coli testing but the delayed test results were within limits. Operations staff had tried to fly the samples to Thunder Bay but flights were cancelled due to snow storm and then the couriers had difficulty with weather and holiday schedules.	
February	5267.8	5685	147497		147497	59%	108.3	11		
March	5409.9	6024	167707		167707	60%	95.0	9		
April	5543.1	6269	166292		166292	62%	105.7	11		
May	6804.3	13977	210932		210932	76%	129.7	12		
June	6860.6	10382	205818	1410	205818	76%	125.3	13		
July	5918.2	8623	183465		183465	66%	124.7	12		
August	5068.6	6250	157126		157126	56%	118.6	12		
September	5652.2	8044	169565		169565	63%	106.5	10		
October	7725.6	9271	239494		239494	86%	99.6	11		
November	6691.5	7840	200745		200745	74%	110.1	12		
December	5460.1	5935	169263		169263	61%	90.7	9		
Sum				1410	2187105		1343.1	135		
Average	5988		182259		182259	67%	111.9	11.3		
Max		13977	239494		239494			13		
C of A	9000	18000								

Month	BOD5/CBOD5			Suspended Solids			Total Phosphorus			Nitrogen		E. Coli	pH	
	Avg. Raw	Avg. Eff.	Avg. Load	Avg. Raw	Avg. Eff.	Avg. Load	Avg. Raw	Avg. Eff.	Avg. Load	Avg. Raw	Avg. Eff.	Geo Mean	Monthly	Monthly
	BOD	CBOD	CBOD	S.S	S.S	S.S	T.P	T.P	T.P	TKN	Total N	Counts	Minimum	Maximum
	(mg/L)	(mg/L)	(kg/day)	(mg/L)	(mg/L)	(kg/day)	(mg/L)	(mg/L)	(kg/day)	(mg/L)	(mg/L)	/100ml		
January	102.6	3.3	18.1	155.8	6.4	34.8	2.64	0.22	1.19	19.4	8.1	69.5	7.3	7.9
February	112.0	2.5	13.0	157.2	6.2	32.5	2.82	0.17	0.87	21.8	11.1	14.1	7.1	7.8
March	104.5	3.1	16.7	156.5	7.6	41.4	2.73	0.16	0.86	19.1	12.6	14.1	6.9	7.5
April	103.6	5.1	28.1	167.2	5.9	32.7	2.79	0.16	0.86	19.3	13.1	32.8	7.0	7.7
May	79.8	2.6	15.9	154.9	8.2	56.3	2.50	0.20	1.36	17.2	10.9	67.7	7.3	7.8
June	64.3	3.0	22.3	138.8	6.5	46.5	2.02	0.14	0.97	14.6	8.7	21.7	7.3	7.9
July	84.4	2.0	11.1	150.2	2.8	17.1	2.34	0.08	0.46	17.7	8.3	7.3	7.4	7.8
August	113.0	2.0	10.6	181.2	3.0	15.6	2.98	0.16	0.81	22.0	9.06	16.4	7.3	8.0
September	112.8	2.3	13.2	174.0	3.7	20.4	3.27	0.13	0.74	21.5	7.62	6.7	7.6	7.9
October	76.8	2.0	15.3	125.9	2.5	20.3	1.84	0.12	0.90	15.0	6.94	10.0	7.6	8.0
November	81.8	2.0	13.3	141.4	2.8	19.1	2.48	0.10	0.68	18.2	8.9	11.9	7.2	8.0
December	95.3	2.2	11.6	152.6	3.1	16.6	2.53	0.11	0.60	20.3	9.9	10	6.9	7.3
Average	94.2	2.7	15.8	154.6	4.9	29.4	2.6	0.15	0.86	18.8	9.6	23.5	7.2	7.8
Max	113	5.1	28.1	181.2	8.2	56.3	3.3	0.22	1.36	22	13.1	69.5	7.6	8
C of A		25	225		25	225		1.0	9.0	200	6.0	200	6.0	9.5

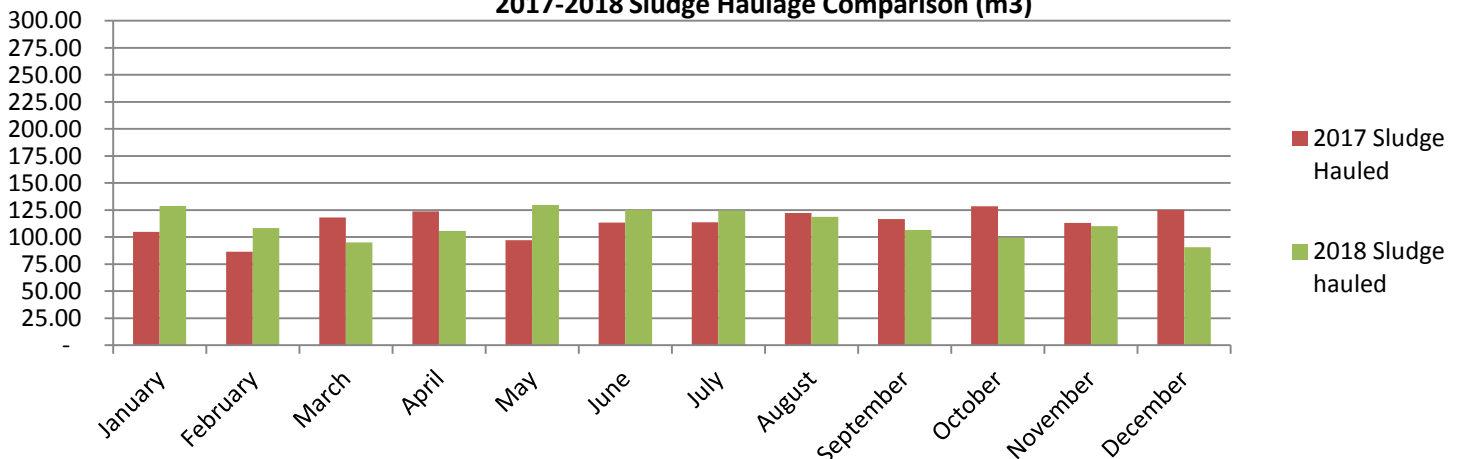
**2017-2018 Comparison Chart**

Month	2017 Treated Sewage	2018 Treated Sewage	% Variance 2017 to 2018	2017 Hauled Sludge	2018 Hauled Sludge	% Variance 2017 to 2018
	m3	m3	m3	m3 (calculated)	m3 (calculated)	m3
January	174,745.00	169,201.00	-3%	104.90	128.90	23%
February	175,956.00	147,497.00	-19%	86.50	108.30	25%
March	223,183.00	167,707.00	-33%	118.10	95.00	-20%
April	256,759.00	166,292.00	-54%	123.70	105.70	-15%
May	228,551.00	210,932.00	-8%	97.20	129.70	33%
June	201,914.00	205,818.00	2%	113.50	125.30	10%
July	212,264.00	183,465.00	-16%	113.80	124.70	10%
August	181,956.00	157,126.00	-16%	122.20	118.60	-3%
September	174,796.00	169,565.00	-3%	116.50	106.50	-9%
October	183,450.00	239,494.00	23%	128.50	99.60	-22%
November	177,999.00	200,745.00	11%	113.10	110.10	-3%
December	171,598.00	169,263.00	-1%	125.10	90.70	-27%
<b>Totals</b>	<b>2,363,171.00</b>	<b>2,187,105.00</b>	<b>-8%</b>	<b>1,363.10</b>	<b>1,343.10</b>	<b>-1%</b>

**2017-2018 Flows Comparison (m3)**



**2017-2018 Sludge Haulage Comparison (m3)**



Workorder Summary Report

Report Start Date: Dec 1, 2018 12:00 AM  
Report End Date: Dec 31, 2018 11:59 PM  
Location: 1103\*  
Work Order Type: ADMIN, CALL, CAP, CORR, EMER, OPER, PM  
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
<a href="#">1053632</a>	0000227421	PUMP CENT VERTICAL NON CLOG SEWAGE P1 FIFTH ST	1103, 5th St. Pumping Station, Process	CALL	Refurbish/ Replace/Repair	0		Fifth Street High Level 1103	COMP		12/14/18 07:19 AM	12/14/18 07:28 AM	Fifth Street High Level -I arrived at the lift station to find it operating normal , So I then entered the drywell and double checked and unairlocked all pumps. I then reset the PLC and it responded well so I then monitored three pump cycles and all seemed great. After reviewing the SCADA system at the plant it did go high level but then one pump unairlocked itself and pumped down the lift station prior to me arriving.
<a href="#">1054521</a>	0000227421	PUMP CENT VERTICAL NON CLOG SEWAGE P1 FIFTH ST	1103, 5th St. Pumping Station, Process	CALL	Refurbish/ Replace/Repair	0		Fifth Street Lift Station Alarm 1103	COMP		12/22/18 12:15 PM	12/22/18 03:34 PM	Fifth Street High Level -I had to come in to assist Kelly in a confined space entry to resolve the high level.
<a href="#">1048754</a>	0000227376	PANEL ALARM/ DIALER	1103, Fort Frances WPCP, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 1103	COMP	12/1/18 12:00 AM	12/17/18 03:09 PM	12/17/18 03:09 PM	Daily Dialer Test -We test daily.
<a href="#">1048758</a>			1103, Fort Frances WPCP	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Gensets Inspection/ Functional Tests (1m) 1103	COMP	12/1/18 12:00 AM	12/18/18 08:24 AM	12/18/18 08:24 AM	Monthly Genset Run -I ran all gensets under load for one hour.
<a href="#">1048774</a>			1103, Fort Frances WPCP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1103	COMP	12/1/18 12:00 AM	12/17/18 03:11 PM	12/17/18 03:11 PM	Monthly H&S -Still construction related issues. Paper copy at plant
<a href="#">1048785</a>			1103, Fort Frances WPCP	PM	Inspection	1	YEARS	Lifting Equipment Assets Inspection (1y) 1103	COMP	12/1/18 12:00 AM	12/19/18 11:15 AM	12/19/18 11:15 AM	Lifting Equipment Assets Inspection (1y) 1103 -Century Cranes completed the inspections on December 11, 2018.
<a href="#">1048789</a>			1103, Fort Frances WPCP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 1103	COMP	12/1/18 12:00 AM	1/5/19 09:24 PM	1/5/19 09:24 PM	
<a href="#">1049151</a>			1103, Fort Frances WPCP	PM	Inspection	1	MONTHS	Blowers/Motors Inspection/Service (1m/3m) 1103	COMP	12/1/18 12:00 AM	12/18/18 06:45 AM	12/18/18 08:45 AM	Blower Maint. -I changed oil in blowers 1,2,5 and greased all and checked air filters. Monthly Maint. -I checked all blower air filters.

Workorder Summary Report

Report Start Date: Dec 1, 2018 12:00 AM

Report End Date: Dec 31, 2018 11:59 PM

Location: 1103\*

Work Order Type: ADMIN,CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
<a href="#">1049161</a>	0000246402	CENTRIFUGE GS2-2-1 TEACUP/ GRIT SNAIL	1103, Fort Frances WPCP, Process, Primary Treatment, Primary Sludge Degritting	PM	Inspection	1	MONTHS	Teacup Centrifuge Inspection/ Service (1m/3m/1y) 1103	COMP	12/1/18 12:00 AM	12/16/18 08:30 AM	12/16/18 10:30 AM	Monthly Inspection -I locked out the unit removed the lid to find no debris, I then replaced the teacup lid and hosed the unit down and returned to service.
<a href="#">1049181</a>			1103, Fort Frances WPCP	PM	Refurbish/ Replace/Repair	3	MONTHS	Clarifiers Inspection/Service (3m) 1103	COMP	12/1/18 12:00 AM	12/20/18 02:16 PM	12/20/18 02:16 PM	Clarifiers Inspection/Service (3m) 1103 -Inspected all clarifier drives and they are running smooth and quiet with no issues.
<a href="#">1049598</a>			1103, Fort Frances WPCP	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Centrifugal Grit Pumps Inspection/Service (1y) 1103	COMP	12/1/18 12:00 AM	12/20/18 02:18 PM	12/20/18 02:18 PM	Changed oil in both grit pump gear boxes, all okay. -Changed oil in both grit pump gear boxes, all okay.