

TOWN OF FORT FRANCES

Operations and Facilities Executive Committee

AGENDA - June 17, 2020, 8:30 AM

MEETING - Civic Centre

Session #010

Join Microsoft Teams Meeting

+1 807 701 5975 Canada, Thunder Bay (Toll)

Conference ID: 471 324 186#

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1. <u>Call to Order</u>	
2. <u>Disclosure of pecuniary interest and the general nature thereof</u>	
3. <u>Approval of Previous Committee Minutes</u>	
3.1 Minutes from the previous meeting on June 3, 2020.	3 - 4
4. <u>Non-agenda Items</u>	
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8. Adjourn / Next Meeting Date

TOWN OF FORT FRANCES

MINUTES

SESSION NO. #009

June 3, 2020

The meeting of Operations & Facilities Executive Committee of the Town of Fort Frances was held in the Civic Centre on June 3, 2020 from 8:30 a.m. to 9:44 a.m.

PRESENT: Chairperson R. Wiedenhoeft - Councillor, M. Behan - Councillor, J. McTaggart - Councillor, Mayor J. Caul (ex-officio)

ALSO PRESENT: T. Rob, Manager of Operations & Facilities

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 May 6, 2020 - the minutes from the previous meeting were approved as circulated.

4 Non-agenda Items

4.1 None

5 New Business

5.1 Sewer Rooting - Requests for Reimbursement - the administration report was approved as amended.

5.2 Award of RFP 20-OF-04 - Preparation of a Long Range Waste Management Plan - the administration report was approved as presented.

5.3 815 Williams Avenue - Request for Consideration on water account - the administration report was approved as presented.

5.4 Airport Facility Lease Renewal - CBRE Maintenance Garage Bay November 1, 2020 to March 31, 2021 - the lease renewal was approved as presented.

- 5.5 Request from Cornerstone Hangers for a hanger lot lease at the Fort Frances Airport - the administration report for a hanger lot lease was approved as presented.

6 Information

- 6.1 Fort Frances Wastewater Treatment Facility April 2020 Monthly Report - the report was reviewed and will be forwarded to Council as information only. No action required.
- 6.2 Sewer and Water Data for 2020 - updated May 27, 2020 - the statistics were reviewed and will be forwarded to Council as information only. No action required.
- 6.3 2020 Tonnage at the Landfill site - updated March 26, 2020 - the landfill statistics were reviewed and will be forwarded to Council as information only. No action required.

7 Adjourn / Next Meeting Date

- 7.1 Adjourned at 9:44 a.m.

Next meeting June 17, 2020

Executive Committee Chair

T. Rob, Manager of Operations & Facilities

June 15, 2020

Report To: Community Services Executive Committee

From: Travis Rob, Manager of Operations and Facilities

RE: Request to Move the Owandem

Back when the Owandem was brought to the Town the boat was temporarily stored in the Public Works yard until it was moved to be refurbished. Armstrong Crane and CJ Contracting donated the equipment to move it at that time.

The boat now needs to be moved back into Town care, however funding is not available to construct a proper berth for it at the River at this time. Until a berth can be developed, the O&F Division is offering to place the boat in the Public Works Yard on timbers. Armstrong Crane and CJ Contracting have both offered their services at no cost to lift the boat off of the trailer, onto the ground and to transport the boat to the town yard. There would be a small cost associated with purchasing some timbers to place the boat on which should be covered by the Friends of the Museum.

Respectfully Submitted

Rick Wiedenhoeft

Chair Operations and Facilities Executive Committee

2020June17 Moving Owandem Request.docx

Stormwater System			
Core Value	Level of Service Statement	Community Level of Service	Technical Level of Service
Accessible & Reliable	Stormwater system is reliable and provided with minimal service disruptions; service requests are responded to promptly within the municipal stormwater network	Description, which may include map, of the user groups or areas of the municipality that are protected from flooding, including the extent of protection provided by the municipal stormwater management system	# of customer complaints of surface flooding due to storm events
			% of storm sewer mains inspected
			% of catch basins cleaned
Safe & Regulatory	Stormwater system protects property and people from the impacts of flooding and minimizes exposure to risk	What level of storm intensity is the municipal stormwater network designed to handle (e.g. 1 in 5-year)?	% of properties in municipality resilient to a 100-year storm
			% of the municipal stormwater management system resilient to a 5-year storm
Affordable	Stormwater system is affordable and managed cost-effectively for the expected level of service	What is the O&M cost to maintain the stormwater network / household?	O&M Cost / km of storm sewer and urban ditches
Sustainable	Stormwater assets are managed efficiently, and long-term plans are in place for the sustainability of stormwater infrastructure	When was the last time that the AMP was reviewed?	% of the stormwater system that is in good or very good condition
			% of the stormwater system that is in poor or very poor condition
			AMP reviewed annually

June 17, 2020

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Approval of the updated Town Energy Conservation and Demand Management Plan

In 2014 the Town created an Energy Conservation and Demand Management Plan (ECDM) in accordance with O. Reg 397/11 and has been giving Council annual reports on the Town's energy consumption. With the expiry of our ECDM plan in 2018 and some changes in staffing, the Town has been working on completing an updated plan for 2019-2023. With the plan not being passed until July 2020 the plan window will start July 1, 2020.

Attached to this report you will find an updated ECDM Plan and report from Adam Mitchell, Asset Management Coordinator outlining the new plan.

It is the recommendation of the Operations and Facilities Executive Committee to approve the Town's Energy Conservation and Demand Management Plan from July 1, 2020 to July 1, 2023.

Respectfully Submitted



Travis Rob, P.Eng

Council approval of this report will agree with the recommendation of the Operations and Facilities Executive Committee to approve the Town's Energy Conservation and Demand Management Plan from July 1, 2020 to July 1, 2023

Manager of Operations and Facilities

2020June17 ECDM Plan Update.docx

June 11, 2020

Report To: Travis Rob

From: Adam Mitchell, Asset Management Coordinator

RE: 2020-2023 Energy Conservation and Demand Management Plan Update

Background:

On June 11, 2014, the Town of Fort Frances (Municipality) adopted an Energy Conservation and Demand Management Plan in compliance with Ontario Regulation 397/11 – Energy Conservation and Demand Management Plans (O. Reg. 397/11). The regulation also required municipalities and other public sector groups to report annually on energy use and greenhouse gas (GHG) emissions for buildings and facilities in which the agency conducts its operations, that are heated or cooled or are related to the treatment or pumping of water or sewage. The Town began this reporting in 2013 for the year 2011 and has continued to do so annually.

O. Reg. 397/11 was replaced with Ontario Regulation 507/18 – Broader Public Sector: Energy Reporting and Conservation and Demand Management Plans (O. Reg. 507/18) on January 1, 2019. The new regulation requires the Town to develop and publish a five-year update to the Municipality's Energy Plan by July 1, 2019.

The Town of Fort Frances is committed to energy management as a key component of its operations. It understands the social, environmental, and financial implications of energy management and is striving to deliver improvements in a responsible way. Through proactive monitoring of energy usage and forward-thinking facility renovations and building service equipment upgrades, the Town is committed to managing and reducing energy consumption across its facilities and operations.

Since 2014, the Town has completed many energy conservation measures, both large and small. Small actions have included adding intelligent parking lot controllers on outdoor outlets, replacing light fixtures with LED alternatives throughout our facilities and increased awareness of energy conservation through operational staff. Large projects included replacing all streetlight fixtures to LED, the implementation of a fine bubble aerator at the Sewage Treatment Plant, installation of a new Dry-O-Tron for the MSC pool and HVAC upgrades at several facilities. The Town has also adopted several operational strategies to conserve energy. This includes a work order system to better maintain a service schedule for all HVAC systems, the addition of a Facilities Superintendent to the Operations and Facilities department with an emphasis on better managing our systems, and monitoring grant and funding opportunities for energy conservation projects such as the Honeywell energy retrofit project which was partially funded by Community Infrastructure Improvement Fund, the Ontario Power Authority and Union Gas.

Energy Conservation and Demand Management Plan – 2020 Update: Town of Fort Frances

Going forward, the Town will utilize the following six strategies to continue to progress towards its energy conservation and GHG emissions reduction objectives:

1. Undertake Energy Audits on all Town owned buildings by end of 2022
2. Implement energy saving retrofits discovered in the energy audits over the next five years
3. Fully integrate the preventative maintenance program with all facility assets to ensure proper preventative and ongoing maintenance occurs
4. Increase awareness about the ECDM plan and the role the Town has
5. Implement best practices in all buildings and sites, wherever possible

6. Incorporate energy efficient equipment whenever possible

Overall, the Town has made large strides in reducing the energy consumed throughout the community. The Town will continue to incorporate energy conscious decision making in its daily operations and continue to bring more awareness to this topic.

It is the recommendation of Administration that:

1. The updated 2020-2023 Energy Conservation and Demand Management Plan be approved and made available to the public.

Respectfully Submitted



Adam Mitchell, P.Eng
Asset Management Coordinator



TOWN OF FORT FRANCES

JULY 1, 2020 TO JULY 1, 2023

Energy Conservation and Demand Management Plan Update

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Our Commitment to Energy Conservation

Message from the Mayor and CAO

The Town of Fort Frances Council and staff understand the importance of reducing energy consumption and green house gases within our community.

The Corporation will continue to reduce energy consumption and mitigate costs through the wise and efficient use of energy and resources. This will involve a collaborative effort to increase the education, awareness, and understanding of energy management within the Corporation. The Town of Fort Frances will investigate the use of new technologies to increase the efficiency of our facilities while maintaining or improving the level of service already provided.

The 2020 Energy Conservation and Demand Management Plan update has been jointly developed and approved by the Town of Fort Frances Mayor and Council and completed in accordance with Ontario Regulation 507/18 of the Electricity Act.

Sincerely,

June Caul
Mayor
Town of Fort Frances

Doug Brown
CAO
Town of Fort Frances

Introduction

In 2011 the Ontario Government passed O. Reg. 397/11 Energy Conservation and Demand Management Plans requiring annual energy consumption reporting for Municipalities, municipal Service Boards, Universities and Colleges, Schools and Hospitals. This regulation outlined what facilities are to be reported on and the data that is to be reported. The first reporting year for energy consumption and greenhouse gas emission data was 2013 with data from 2011. The Town of Fort Frances has been submitting energy reports in accordance with the regulation since the initial submission deadline of July 1st, 2013. Further, in accordance with the regulation The Town of Fort Frances implemented a 5 year Energy Conservation and Demand Management Plan in 2014 that expired on July 1st, 2019. In 2018 O.Reg 397/11 was revoked due to the repeal of The Green Energy Act, 2009. The Electricity Act, 1998 was amended by adding Part II.3 Conservation and Energy Efficiency and a new regulation, O.Reg. 507/18: Broader Public Sector: Energy Reporting and Conservation of Demand Management Plans was created in order to supersede O.Reg. 397/11.

The purpose of this document is to

- Report on the results of the 2014 ECDM Plan
- Update the Energy Conservation and Demand Management Plan for 2020-2023
- Provide new goals and objectives for conserving and otherwise reducing energy consumption and managing its demand for energy
- Outline proposed measures to achieve these objectives
- Provide cost and saving estimates for proposed measures including proposed timeline

Energy Consumption Overview

The Town of Fort Frances retained all energy related accounts since the 2014 ECDM plan was implemented. The following tables are broken into three amount centers: facilities, sewer and water, and street lights.

Table 1: Township Facilities and Infrastructure Within the Scope of the Plan

Facilities			
Name	Address	Use	Floor Area (sqft)
Museum	259 Scott St.	Museum	9,359.00
Memorial Sports Centre		Recreational Centre	95,554.00
Library	601 Reid Ave.	Library	15,000.00
Hallett			
Sorting Gap		Boat Launch/Park	1,024.00
Public Works	900 wright Ave	Office/Shop	12,017.00
Fort Frances Cemetery	401 Kings Highway	Cemetery	4,225.00
Riverview Cemetery*	1319 Colonization Road W.	Cemetery	2,500.00
Civic Centre*	320 Portage Ave.	Offices	35,000.00
Dog Pound*		Dog Park	200.00
Sister Kennedy Centre	401 Nelson St.	Community Centre	5,896.00
East End Hall	1227 5th St. E.	Community Centre	6,184.00
Point Park Garage		Shop	
Vanjura			
Lions Park			
Daycare		Daycare	6,184.00
St. Frances Sports Fields		Recreational	
Mclrvine Road Rink		Recreational	500.00
North End Rink		Recreational	100.00
Recycle Depot (2016 Baseline)		Operations	
Tourist Info Building (2015 Baseline)		Community Centre	
Airport		Airport	8,984.00
Rainy Lake Square (2018 Baseline)		Community Centre	
Sunny Cove Camp Office	#960 Highway 11	Community Centre	
Russell Hall			
McGregor Hall*			
Portage Avenue Storm Lift Station		Operations	
Water and Sewage			
Name	Address	Use	Floor Area (sqft)
Water Treatment Plant	901 Colonization Road E.	Water Treatment	
Sewage Treatment Plant	2 Mclrvine Road	Sewage Treatment	5526
Central Ave Lift Station		Sewage Treatment	
5th Street Lift Station		Sewage Treatment	
Minnie Avenue Lift Station		Sewage Treatment	
White Pine Lift Station		Sewage Treatment	
Boundary Road Lift Station		Sewage Treatment	
Patcin Avenue Lift Station		Sewage Treatment	
Water Tower		Water Treatment	1000
Water and Sewage			
Name	Address	Use	Floor Area (sqft)
Street Lights		Other	

Table 2: Energy Consumption Overview

Account	Floor Area (sqft)	2011 Baseline ekWh	2016 ekWh	2017 ekWh	2018 ekWh	2019 ekWh	2019GHG Emissions (kg)
Facilities	Column1	Column2	Column4	Column5	Column6	Column62	Column7
Museum	9,359.00	191,778.63	147,508.44	208,758.60	257,677.06	74,177.04	118,453.60
Memorial Sports Centre	95,554.00	4,573,885.84	4,224,146.10	4,231,092.88	3,669,379.80	4,564,139.05	4,141,582.55
Library	15,000.00	61,216.74	321,042.37	304,561.51	291,395.31	132,715.31	119,033.41
Hallett		1,658.65	661.19	365.19	351.10	130.86	2.26
Sorting Gap	1,024.00	46,148.56	35,707.73	38,546.75	47,156.68	42,439.94	733.79
Public Works	12,017.00	439,306.60	265,921.20	296,799.12	340,076.92	326,417.34	435,488.48
Fort Frances Cemetery	4,225.00	83,238.89	52,363.08	70,014.98	89,114.80	111,643.26	1,930.31
Riverview Cemetery	2,500.00	49,686.65	29,219.83	30,258.61	34,019.25	32,141.70	555.73
Civic Centre	35,000.00	1,270,258.49	891,981.52	897,636.23	1,010,784.87	1,031,508.10	1,013,440.15
Dog Pound	200.00	18,384.91	8,099.45	8,838.69	9,348.64	10,518.61	181.87
Sister Kennedy Centre	5,896.00	174,519.31	150,091.08	156,598.03	164,428.37	156,243.97	111,552.55
East End Hall	6,184.00	70,291.27	49,238.17	48,762.19	47,312.96	51,722.38	84,370.64
Point Park Garage		83.33	164.91	306.90	545.92	92.88	1.61
Vanjura		1,165.48	79.99	-	-	-	-
Lions Park		16,569.35	17,608.92	17,960.89	19,009.49	14,833.19	256.47
Daycare	6,184.00	161,392.91	253,006.16	234,513.60	213,661.57	194,740.92	195,890.23
St. Frances Sports Fields		1,285.15	988.92	3,785.87	2,459.84	3,361.91	58.13
McIrvine Road Rink	500.00	49,460.96	42,081.36	39,142.09	47,006.40	47,882.97	87,692.62
North End Rink	100.00	15,840.60	9,196.43	2,322.52	-	-	-
Recycle Depot (2016 Baseline)		-	13,860.25	16,735.10	17,245.02	17,780.32	307.42
Tourist Info Building (2015 Baseline)		-	31,473.53	32,779.28	32,779.28	34,514.75	596.76
Airport	8,984.00	137,086.60	117,119.25	183,677.63	197,327.17	173,759.40	3,004.30
Rainy Lake Square (2018 Baseline)		-	-	1,199.98	4,399.82	4,079.81	70.54
Sunny Cove Camp Office		11,477.88	3,923.32	1,214.91	1,235.86	2,256.36	39.01
Russell Hall		7,413.00	10,037.23	8,456.06	7,340.75	768,832.00	13,293.11
McGregor Hall		2,620.00	2,131.71	2,298.43	2,267.87	2,068.08	35.76
Portage Avenue Storm Lift Station		8,081.03	3,142.53	4,346.30	6,062.07	8,539.78	147.65
Water and Sewage							
Water Treatment Plant		1,643,954.56	1,392,451.89	1,672,856.72	1,650,459.11	1,457,725.69	1,429,257.07
Sewage Treatment Plant	5,526.00	1,970,286.36	1,973,587.80	2,009,661.97	1,835,716.03	1,714,044.93	976,162.75
Central Ave Lift Station		147,238.84	149,926.39	141,333.37	130,254.44	140,720.68	2,433.06
5th Street Lift Station		44,623.63	41,636.49	42,929.82	28,741.92	44,620.46	771.49
Minnie Avenue Lift Station		1,698.56	1,485.80	1,590.48	1,465.61	1,756.00	30.36
White Pine Lift Station		29,526.54	33,525.90	33,300.07	33,821.15	36,802.98	636.32
Boundary Road Lift Station		5,679.41	7,125.24	7,082.93	6,983.40	7,391.49	127.80
Patcin Avenue Lift Station		2,406.48	2,399.88	2,399.07	1,370.58	1,987.70	34.37
Water Tower	1,000.00	265,348.87	71,542.09	307,657.22	421,009.70	365,215.66	602,572.61
Water and Sewage							
Street Lights		1,231,535.63	414,303.24	452,483.96	452,483.96	452,483.96	7,823.45
Total		12,735,149.70	10,768,779.39	11,512,267.95	11,074,692.72	12,029,289.47	9,348,568.22

2014 Energy Conservation and demand Management Plan

2014 Goals and Objectives

The 2014 short-medium term objectives were as follows.

1. Undertake energy audits on all Town owned Buildings by the end of 2012.
2. Implement energy saving retrofits discovered in the energy audits over the next five (5) years.
3. Implement a preventative maintenance program to track maintenance work on Town facilities and fleet to ensure proper preventative and ongoing maintenance occurs.
4. Engage staff at all levels to conserve energy and provide training by way of seminars, newsletters, and/or other means as available.

In 2012, Honeywell completed an energy audit identifying the following measures to be addressed.

Table 3: Planned Actions 2014-2019

Measure List	Airport	Civic Centre	Daycare	East End Hall	Memorial Sports Centre	Museum	Public Works Garage	RV Cemetery	Sister Kennedy Centre	Sorting Gap Marina	WWTP	WTP	City Wide	Criteria
Lighting Systems Upgrade & Controls	x	x	x	x	x	x	x	x	x	x	x	x		A,C
Install Fine Bubble Aeration System (No Blow-er Replacement)											x			A,E
Control System Upgrades & Scheduling		x			x	x								A,C
Heating Plant Upgrades		x										x		B,E
Ice Refrigeration Plant Upgrades					x									A
Install New High Lift Pumps and VFDs												x		E
Pool Dry-O-Tron Upgrade					x									B
HVAC Upgrade			x											B
Car Plug Controls		x					x							A
Building Envelope	x	x	x	x	x	x	x	x	x	x	x	x		A,C
Im prove Building Insulation				x										A,C
Street-Lighting Upgrade													x	A,C
A - Financial, B-Required Renew al, C-Working Environment, D-Environmental Stew ards hip, E-Strategic / Funded														

2014 Results

Over the previous 5 years, the Town successfully completed all recommendations as outlined in the table below.

Table 4: Results from 2014-2019

Actions	Completion Date	Results
All Sites		
Lighting Systems Upgrade & Controls	Feb-13	T12 to T8 with electronic ballasts installed. Occupancy sensors installed where beneficial.
Building Envelope	Oct-12	Doors and Window seals inspected and upgraded as required. Spray foam used to seal gaps in building structure.
Civic Centre		
Control System Upgrades & Scheduling	Dec-13	New programable thermostats installed.
Car Plug Controls	May-13	Intelligent parking lot controllers installed on parking lot outlets.
Heating Plant Upgrades	Jan-13	New boilers installed which operate more efficiently.
Daycare		
HVAC Upgrade	Sep-13	New Furnace and duct work modifications
East End Hall		
Improve Building Insulation	Oct-12	Insulation added to increase thermal efficiency.
Memorial Sports Centre		
Control System Upgrades & Scheduling	Mar-14	New programable thermostats installed.
Ice Refrigeration Plant Upgrades	Mar-14	New controls installed and brine headers insulated.
Pool Dry-O-Tron Upgrade	Jun-13	New Dry-O-Tron installed and related duct work upgraded improving operating efficiency.
Museum		
Control System Upgrades & Scheduling	Mar-14	Intelligent parking lot controllers installed on parking lot outlets.
Public Works Garage		
Car Plug Controls	Feb-13	Intelligent parking lot controllers installed on parking lot outlets.
Waste Water Treatment Plant		
Install Fine Bubble Aeration System	Aug-19	Process used for treating wastewater which decreases energy consumption.
Water Treatment Plant		
Heating Plant Upgrades	Jan-13	New boiler installed improving operating efficiency.
Install VFD Drive and HE Motors (HLPs)	Dec-13	New motors and controlled installed on 2 high lift pumps.
Town Wide		
Streetlighting Upgrade (LED)	Dec-13	All streetlamps converted to LED

The results from the Town's efforts can be shown in the following figures.

Figure 1 shows the comparison in energy consumption of all major facilities between 2011 and 2019. The Library shows a slight increase in energy used. This can be attributed to an increase in demand at the facilities which is a positive for the Town. The Civic Center and Museum showed a slight reduction in consumed energy. This can be attributed to small upgrades at each facility and better operational practices. The installation of a Fine Bubble Aeration system at the Sewage Treatment Plant in 2019 is already showing significant signs of reduction in electricity consumed. Big changes occurred at the Memorial

Sports Centre between 2017-2019. Poor ventilation and harsh climate caused damage to the roof structure over top of the swimming pool which meant immediate repairs were required. It was decided this was a good opportunity to install much needed insulation. This was completed in 2018 and a decrease in energy consumption was noticed immediately. Unfortunately, above average gas consumption at the Memorial Sports Centre in 2019 caused a spike in GHG emissions erasing the reduction we saw in 2018. This is being treated as an anomaly and we expect to see the reduction of GHG emissions to trend back towards the 2018 results. Figure 2 shows the comparison between 2011 & 2018 GHG emissions.

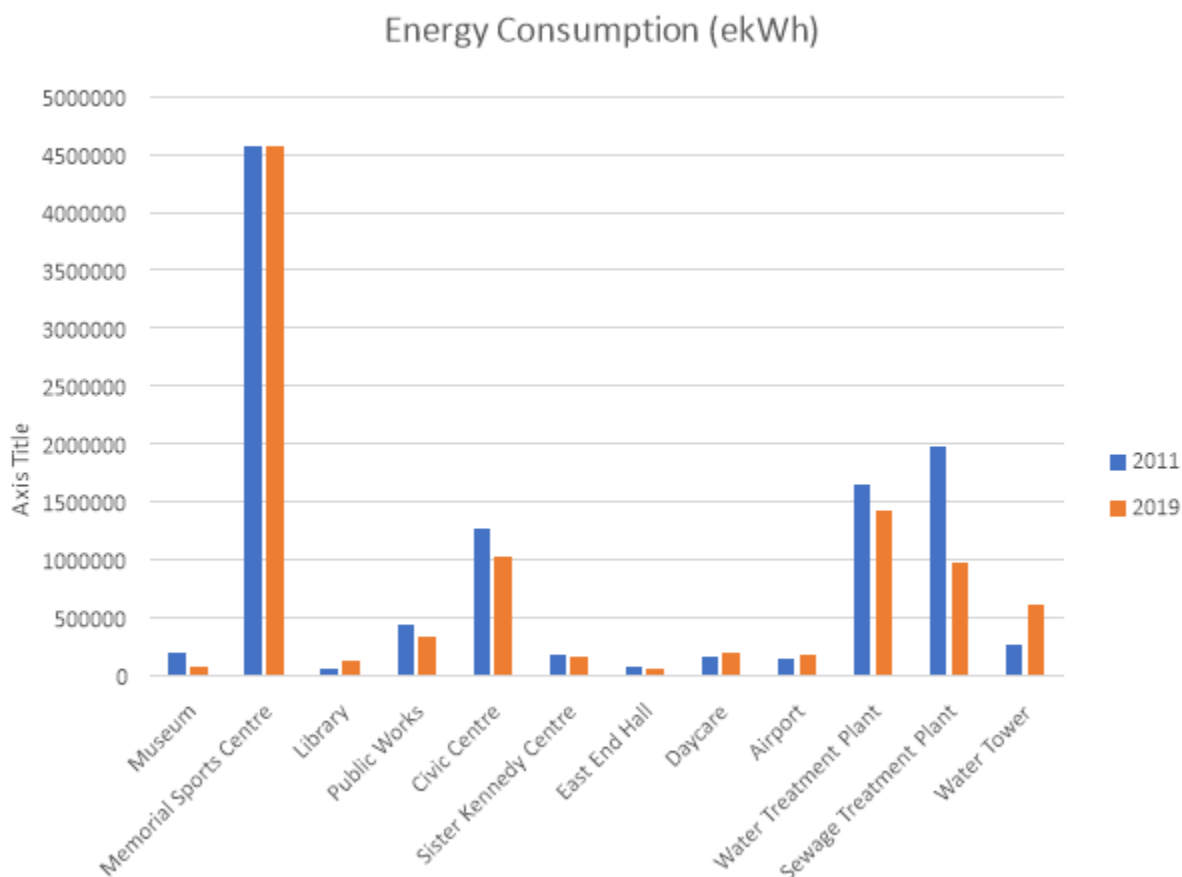


Figure 1: Change in Energy Consumption

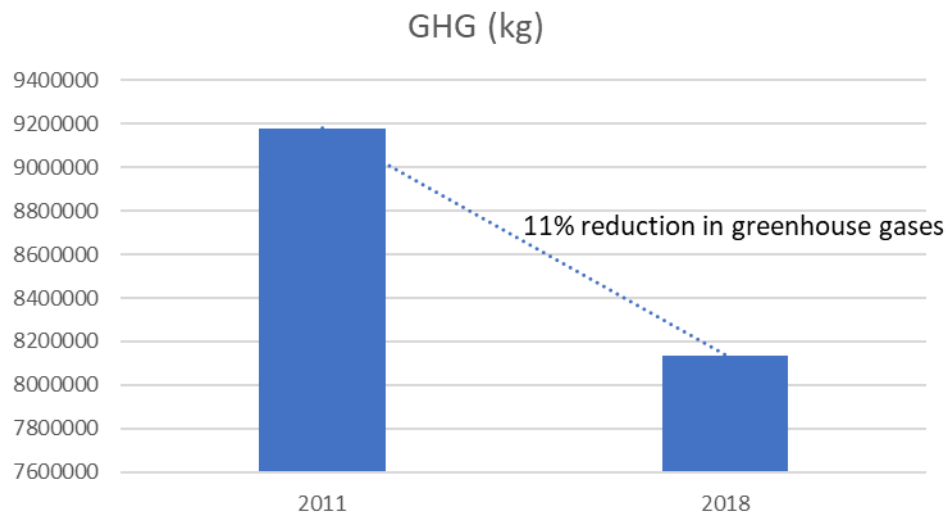


Figure 2: Green House Gas Emissions

Figure 3 shows the breakdown of large energy using accounts. It is evident that converting the streetlights in the Town to LED had a significant impact on energy usage. This can be seen in further detail in Figure 4 and Figure 5. In 2011, the Town's 4 largest energy consumers accounted for 88% of the Town's total energy. By 2019, the usage associated with these accounts had decreased to 82%.

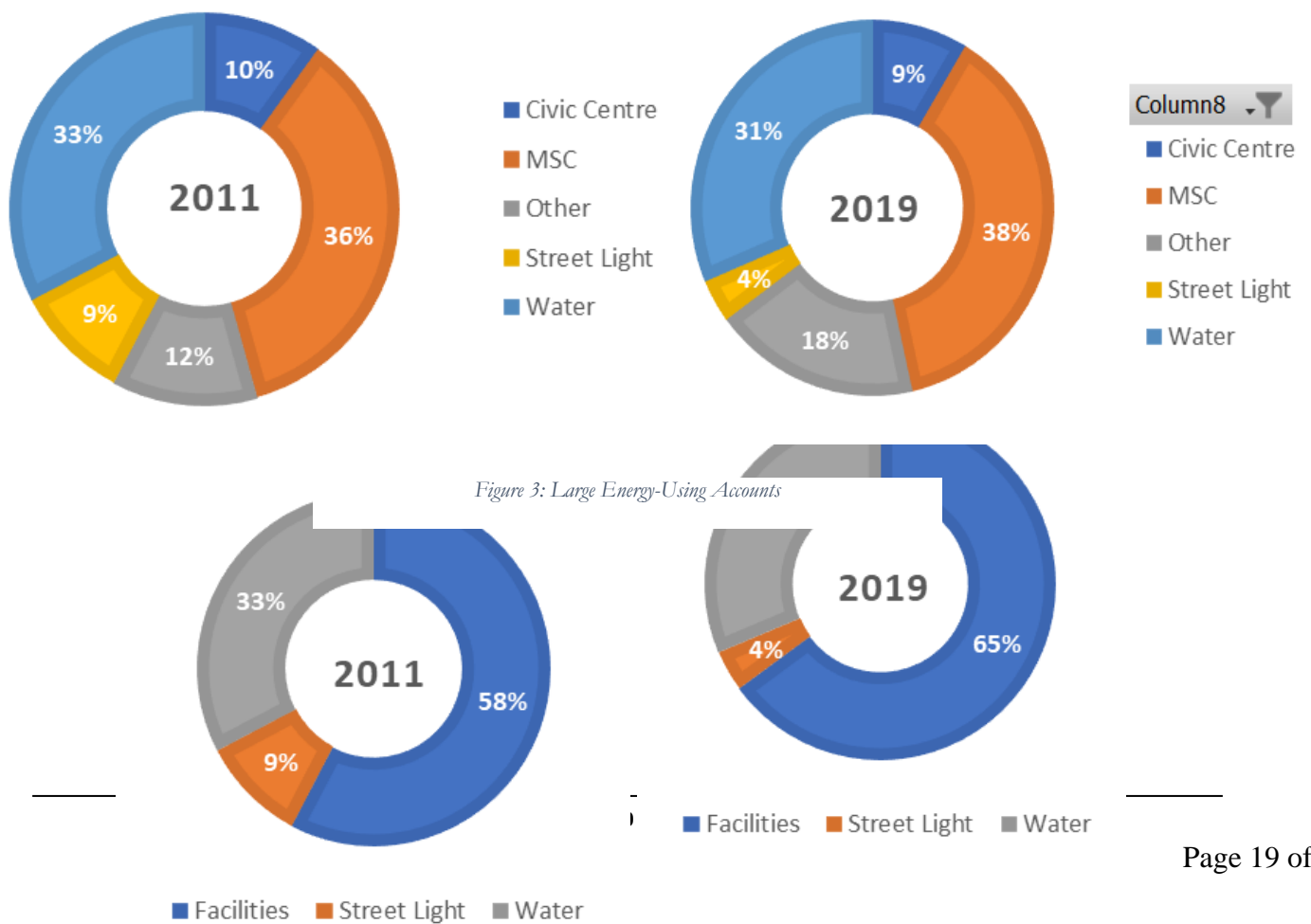


Figure 3: Large Energy-Using Accounts

Figure 4: Energy Use by Account Centre

The streetlight retrofit was one of the most significant sources of energy reduction. Figure 4 shows a 63% reduction in energy. This was accomplished by converting all streetlights in Fort Frances to LED lights.

Street Light Energy Consumption (kWh)

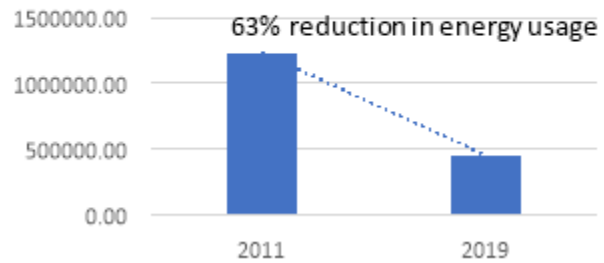


Figure 5: Streetlight Energy Consumption

Other Initiatives between 2014-2019

Though not planned, the Town of Fort Frances implemented several other energy conservation measures. The Town focused on replacing and purchasing equipment that was more energy efficient. Operational practices were also improved over the 5 year span. The biggest operational improvement is the implementation of a new Facilities Superintendent. This position should drastically improve the day-to-day operations of all the Town owned facilities. One of the main objectives will be better managing our facility systems which will have an impact on overall energy consumption. This will partly be achieved by implementing better preventative maintenance practices.

2014 Areas of Improvement

An area of improvement that would be beneficial to the Town's goals and objectives would be to increase the awareness of this report. Moving forward, one of the new objectives will be to ensure that the information of this plan is more widespread, and staff and council have a better understanding of what is expected of them. The 2014 plan was largely successful because it targeted easily obtainable goals and it benefited from having an energy audit conducted in 2011 which provided recommendations for reducing energy consumptions. As we continue to advance our energy conservation efforts year over year it will only become more difficult to find areas of savings. Conducting energy audits in conjunction with the update of this plan would greatly assist in targeting new areas of improvement. This is addressed in the new goals and objectives set in 2020.

New Energy Consumption Goals and Objectives

The Town of Fort Frances strives to ensure energy conservation is a calculated factor in the daily decision making processes within the Town. The Town has set updated objectives to ensure that the plan remains as relevant as possible.

Target

The Town of Fort Frances will strive to continuously reduce its energy consumption and greenhouse gas emissions while realizing operational and maintenance expense reductions and replacing aging systems.

Goals – Long Term

To continuously improve the energy efficiency within the Town of Fort Frances facilities and operations, with an overarching goal to improve user comfort and reduce operational costs.

Objectives – Short to Medium Term

1. Undertake Energy Audits on all Town owned buildings by end of 2021
2. Implement energy saving retrofits discovered in the energy audits over the next five years
3. Fully integrate the preventative maintenance program with all facility assets to ensure proper preventative and ongoing maintenance occurs
4. Increase awareness about the ECDM plan and the role the Town has
5. Implement best practices in all buildings and sites, wherever possible
6. Incorporate energy efficient equipment whenever possible

Planned Actions 2020-2023

Actions	Estimated Completion Date	Anticipated Results
All Sites		
Energy Audit	2022	<p>Identify energy consumption and energy costs of the facility and develop measures to eliminate waste, maximize efficiency and optimize supply energy.</p> <p>The energy audit affects three key factors:</p> <ul style="list-style-type: none">• profitability through optimization of energy expenditure• productivity through optimization of equipment and processes• performance, thanks to the rationalization of energy use.

Programable Thermostats	2021	By implementing programable thermostats you can expect to take advantage of additional energy savings that may be reflected in a lower utility bill. Beyond the money savings, programmable thermostats can help you maintain an ideal atmosphere throughout your interior spaces.
Implementation of best practices	Immediately	The Town will focus on implementing best practices including turning off equipment when not in use/needed, purchasing energy efficient products whenever possible and planning to use equipment at the most beneficial times
Airport		
Propane Furnace	2021	Currently fuel with heating oil which is less efficient and more costly than propane.
Civic Centre		
Upgrade Windows and Doors	Ongoing	New windows and doors will decrease the thermal loss of the building ultimately increasing the buildings efficiency.
East End Hall		
Upgrade building insulation	Ongoing	Increased insulation will reduce the heating load on the facility resulting in reduced energy consumption.
Replace aging HVAC system	Ongoing	By upgrading to a new more efficient HVAC system, less energy will be used to control the buildings atmosphere resulting in cost savings. The existing equipment has reached the end of its useful life.
Memorial Sports Centre		
ICIP Funding Paired	2020-2025	<p>The Town is waiting to see if they are successful recipients of the ICIP funding opportunity. If so, several major upgrades will be completed at the Memorial Sports Center with dramatically improve the energy efficiency of this facility. Upgrades include and are not limited to;</p> <ul style="list-style-type: none"> • Insulating the roof of the 52 Canadians Ice Surface • Upgrading much of the aging HVAC system • Upgrades to 52 Canadians refrigeration system
Museum		
Upgrade building insulation	Ongoing	Increased insulation will reduce the heating load on the facility resulting in reduced energy consumption.
Replace aging HVAC system	Ongoing	By upgrading to a new more efficient HVAC system, less energy will be used to control the buildings atmosphere resulting in cost savings. The existing equipment has reached the end of its

		useful life. Design works for replacement have been completed.
Public Works Garage		
Upgrade building insulation	Ongoing	Increased insulation will reduce the heating load on the facility resulting in reduced energy consumption.
Upgrade Windows	Ongoing	New windows will decrease the thermal loss of the building ultimately increasing the buildings efficiency.
Riverview Cemetery		
LED Lighting	Ongoing	LED lighting offers increased energy efficiency, increased life expectancy and low radiated heat which all combine to offer much less energy consumption and overall increased cost effectiveness.
FF Cemetery		
Upgrade building insulation	Ongoing	Increased insulation will reduce the heating load on the facility resulting in reduced energy consumption.
Sister Kennedy Centre		
LED Lighting	Ongoing	Complete conversion to LED lights
Replace aging HVAC system	Ongoing	By upgrading to a new more efficient HVAC system, less energy will be used to control the buildings atmosphere resulting in cost savings. The existing equipment has reached the end of its useful life.
Library		
Recommission the building	2023	Ensure building equipment and systems are operating optimally.
Building automation revamp	2024	Ensure controls properly align with operational demand and make necessary changes aimed at increasing efficiencies.
McIrvine Rink		
Upgrades to building envelope	2024	Update man door to ensure proper seal between inside and outside will increase energy efficiency increase building insulation and upgrade furnace will result in a reduction in energy consumption.

Renewable Energy Sources within Fort Frances

The Town has 4-10kW solar installations that have been generating power since 2011 as part of the Ontario Power Authority MicroFIT program. The Town will continue to benefit from this 20 year contract through to 2032 where it produces a return of \$0.80 per Kwh generated. The 4 solar units were installed in 2012 for \$369,950.52. After 7 years of operation the program has generated \$294,653.37 averaging an annual return of \$42,093.34. Using this average, the breakeven point of this investment will be the end of Q3 2020. Once surpassed all monies generated from these units will be revenue for the Town. Please note that operational costs are not accounted for in this analysis as maintenance and insurance costs are covered under each facilities operating budget. A rough calculation estimates that the Town will generate \$471,916.85 in profit from this investment over the remaining term of this contract.

Currently the Town of Fort Frances does not have any plans to add additional renewable energy sources but remains open to future possibilities.

Conclusion

The Town of Fort Frances has made large strides in advancing their energy efficiency and did an exceptional job at completing all objectives from the 2014 plan. The next revision of this plan is to be completed in 2023. Annual progress updates are to be conducted to ensure that the goals and objectives are being achieved. Overall, the addition of a Facilities Superintendent in 2019 should have a dramatic impact on reducing energy consumption throughout our facilities and major improvements to the Towns preventative maintenance program will be made.

June 17, 2020

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Annual Energy Conservation and Demand Management Report

Since 2013, the Town has been tracking its energy consumption in accordance with our Energy Conservation and Demand Management Plan. In 2019 the role of energy tracking and reporting was transitioned to the Asset Management Coordinator.

Attached you will find the 2020 report prepared by Adam Mitchell, Asset Management Coordinator.

It is the recommendation of the Operations and Facilities Executive Committee that the 2020 Energy Conservation and Demand Management report be accepted by Council and made available to the public per the Town's Energy Conservation and Demand Management Plan.

Respectfully Submitted



Travis Rob, P.Eng

Council approval of this report will agree with the recommendation of the Operations and Facilities Executive Committee that the 2020 Energy Conservation and Demand Management report be accepted by Council and made available to the public per the Town's Energy Conservation and Demand Management Plan.

Manager of Operations and Facilities

2020June17 2020 Annual Energy Report .docx

June 11, 2020

Report To: Travis Rob

From: Adam Mitchell, Asset Management Coordinator

RE: Annual Energy Consumption Report

Background:

In 2011 the Ontario Government passed O. Reg. 397/11 Energy Conservation and Demand Management Plans requiring annual energy consumption reporting for Municipalities, municipal Service Boards, Universities and Colleges, Schools and Hospitals. This regulation outlined what facilities are to be reported on and the data that is to be reported. The first reporting year for energy consumption and greenhouse gas emission data was 2013 with data from 2011. The Town of Fort Frances has been submitting energy reports in accordance with the regulation since the initial submission deadline of July 1st, 2013. Further, in accordance with the regulation The Town of Fort Frances implemented a 5 year Energy Conservation and Demand Management Plan in 2014 that expired on July 1st 2019. In 2018 O.Reg 397/11 was revoked due to the repeal of The Green Energy Act, 2009. The Electricity Act, 1998 was amended by adding Part II.3 Conservation and Energy Efficiency and a new regulation, O.Reg. 507/18: Broader Public Sector: Energy Reporting and Conservation of Demand Management Plans was created in order to supersede O.Reg. 397/11.

Upcoming Regulation Milestones:

For 2020 the Town has completed the updated Energy Conservation and Demand Management Plan that is inclusive of the next 4 years. The plan includes;

1. A report of the actual results achieved from the 2014 plan
2. A description of current and proposed measures for conserving and otherwise reducing energy consumption and managing its demand management
3. A revised forecast of the expected results of the current and proposed measures
4. A description of any proposed changes to be made to assist the public agency in reaching any targets it has established or forecast it has made.

Analysis:

The following report utilizes data collected to the end of 2019.

Electrical:

Spreadsheet #1 attached to this report outlines the electrical consumption over the last 5 years plus the baseline year of 2011. The facilities marked with an asterisk are all the facilities that are heated solely or partially with electrical energy. There is a column added to show the difference between current year and base year consumption.

Natural Gas:

Spreadsheet #2 attached to this report outlines the consumption of natural gas over the last 4 years plus the baseline year of 2011. A column is added showing the heating degree days (HDD) which is a method to quantify the demand for energy to heat a building. HDD measures the average number of days that a temperature falls below the point that heating is required.

Solar:

Spreadsheet #3 attached to this report outline the solar power generated by the Town of Fort Frances. The Town has 4-10kW solar installations that have been generating power since 2011 as part of the Ontario Power Authority MicroFIT program. The Town will continue to benefit from this 20 year contract

through to 2032 where it produces a return of \$0.80 per Kwh generated. The Ministry of Energy does not require an annual report on solar generation, however traditionally the annual report to Council has included the data.

Summary of Additional Energy Initiatives:

The Town is constantly trying to improve its energy efficiency within our facilities either through capital projects or operating procedures. For 2019, the following upgrades were made:

- Pool lights upgraded to decrease energy consumption and improved performance
- Fine bubble aeration installed at the Waste Water Treatment Plant

Conclusion and Recommendations:

A decrease in electrical energy consumption occurred in 2019 resulting in a four year low. Reductions were noticed at multiple facilities however the biggest reduction occurred at the sewage treatment plant. Overall a reduction of 186,387 kWh's was noticed. This reduction is a direct correlation to the installation of the Fine Bubble Aeration system that was completed in 2019. The main goal of this project was to reduce energy consumption for this facility and this report suggests that the investment is quickly paying off. Natural gas consumption trended upwards in 2019. The rise was largely due to increased consumption at the Memorial Sports Centre. This can be attributed to the degradation of the aging roof system. The good news is that O&F have begun addressing this issue and design work for a new roof system was completed in early 2020. We are eagerly awaiting ICIP funding and if successful we will see a complete overhaul of the MSC roof which should drastically improve the energy efficiency of the facility.

A review of the Town's solar power systems we see that 2019 was the worst year on record for kWh's generated from the system. The decrease in power generate is because we experienced 4 inverter failures which saw above average down time for a portion of the system. Once resolved, we now expect power generated to remain consistent. The 4 solar units were installed in 2012 for \$369,950.52. After 8 years of operation the program has generated \$323,785.67 averaging an annual return of \$40,473.21.

It is the recommendation of Administration that:

1. The annual energy consumption report be made available to the public per the Town's Energy Conservation and Demand Management Plan

Respectfully Submitted



Adam Mitchell, P.Eng
Asset Management Coordinator

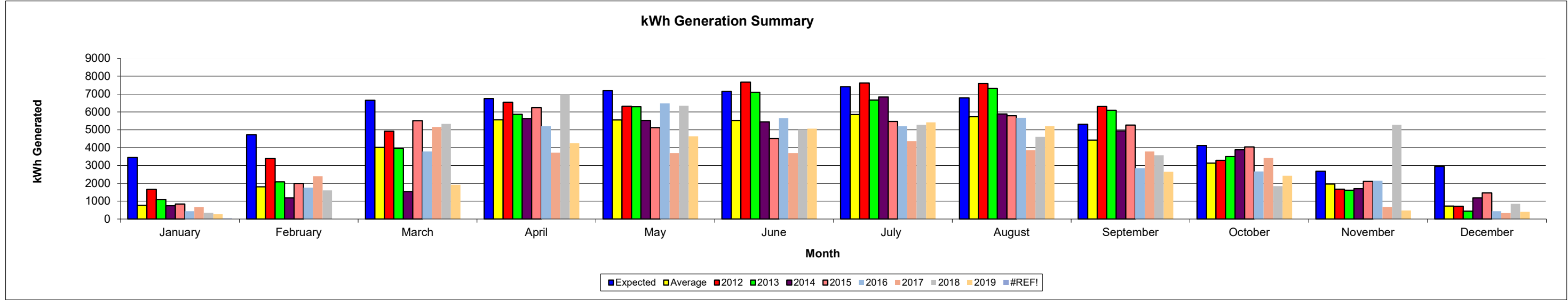
Spreadsheet #1 - Electrical Summary

	2011 - Baseline		2015			2016			2017			2018			2019		
	Total Consumption (kWh)	Total Cost (\$)	Total Consumption	Total Cost (\$)	Difference From Baseline (kWh)	Total Consumption (kWh)	Total Cost (\$)	Difference From Baseline (kWh)	Total Consumption	Total Cost (\$)	Difference From Baseline (kWh)	Total Consumption	Total Cost (\$)	Difference From Baseline (kWh)	Total Consumption	Total Cost (\$)	Difference From Baseline (kWh)
Museum	124518.26	\$ 12,934.16	97,875.29	\$ 9,297.76	-26,642.97	84,730.17	\$ 12,758.59	-39,788.09	109,111.48	\$ 13,446.16	-15,406.78	134,520.64	\$ 13,398.18	10,002.38	112,189.78	\$ 11,630.32	-12328.48
Memorial Sports Centre*	540324.47	\$ 57,434.30	496,898.10	\$ 40,005.61	-43,426.37	518,975.55	\$ 76,069.23	-21,348.92	510,890.85	\$ 71,967.60	-29,433.62	518,042.70	\$ 70,654.30	-22,281.77	526,438.35	\$ 78,109.99	-13886.12
Memorial Sports Centre A*	2060205.95	\$ 190,560.19	1,739,669.42	\$ 178,384.29	-320,536.53	1,898,169.12	\$ 256,727.88	-162,036.83	1,829,318.40	\$ 247,069.22	-230,887.55	1,847,913.12	\$ 236,124.91	-212,292.83	1,869,020.64	\$ 256,111.95	-191185.31
Hallett	1658.65	\$ 526.18	1,076.30	\$ 686.39	-582.35	661.19	\$ 706.80	-997.46	365.19	\$ 618.57	-1,293.46	351.10	\$ 615.81	-1,307.55	130.86	\$ 581.03	-1527.79
Sorting Gap*	46148.56	\$ 4,760.16	30,387.48	\$ 3,233.66	-15,761.08	35,707.73	\$ 5,400.32	-10,440.83	38,546.75	\$ 4,753.80	-7,601.81	47,156.68	\$ 4,896.40	1,008.12	42,439.94	\$ 4,589.84	-3708.62
Public Works	158900.90	\$ 14,990.98	141,748.20	\$ 11,069.69	-17,152.70	84,786.69	\$ 13,693.01	-74,114.21	85,649.04	\$ 11,190.60	-73,251.86	92,318.22	\$ 10,054.16	-66,582.68	96,963.31	\$ 10,708.62	-61937.59
Fort Frances Cemetery*	83238.89	\$ 7,928.96	50,595.11	\$ 3,215.20	-32,643.78	52,363.08	\$ 8,183.98	-30,875.81	70,014.98	\$ 8,667.78	-13,223.91	89,114.80	\$ 9,051.56	5,875.91	111,643.26	\$ 11,750.72	28404.37
Riverview Cemetery*	49686.65	\$ 4,825.18	27,702.62	\$ 2,420.52	-21,984.03	29,219.83	\$ 4,776.28	-20,466.82	30,258.61	\$ 4,216.43	-19,428.04	34,019.25	\$ 3,856.21	-15,667.40	32,141.70	\$ 3,771.45	-17544.95
Civic Centre*	646061.57	\$ 65,147.27	486,478.08	\$ 47,322.68	-159,583.49	480,698.64	\$ 68,841.26	-165,362.93	479,442.24	\$ 66,853.91	-166,619.33	507,459.96	\$ 69,217.00	-138,601.61	500,047.20	\$ 72,304.27	-146014.37
Dog Pound*	18384.91	\$ 1,996.22	13,230.96	\$ 1,061.61	-5,153.95	8,099.45	\$ 1,737.34	-10,285.46	8,838.69	\$ 1,621.46	-9,546.22	9,348.64	\$ 1,465.54	-9,036.27	10,518.61	\$ 1,596.92	-7866.30
Sister Kennedy Centre 1	63938.02	\$ 6,242.01	55,623.61	\$ 6,508.83	-8,314.41	56,464.66	\$ 8973.98	-7,473.36	66,048.65	\$ 8,419.24	2,110.63	73,308.08	\$ 7,870.96	9,370.06	95,121.83	\$ 10,384.54	31183.81
Sister Kennedy Centre 2	1163.53	\$ 525.61	7,480.28	\$ 1,294.80	6,316.75	5,359.47	\$ 1377.37	4,195.94	3,356.90	\$ 995.94	2,193.37	2,958.81	\$ 874.93	1,795.28	3,016.69	\$ 871.51	1853.16
East End Hall	10057.67	\$ 1,234.80	6,448.06	\$ 1,092.92	-3,609.61	14,451.31	\$ 2,701.26	4,393.64	9,059.50	\$ 1,594.76	-998.17	10,791.10	\$ 1,613.03	733.43	7,162.13	\$ 1,269.72	-2895.54
Point Park Garage*	83.33	\$ 272.61	77.90	\$ 609.95	-5.43	164.91	\$ 645.01	81.58	306.90	\$ 619.47	223.57	545.92	\$ 642.44	462.59	92.88	\$ 577.89	9.55
Vanjura	1165.48	\$ 362.29	160.00	\$ 615.17	-1,005.48	79.99	\$ 623.22	-1,085.49	0.00	\$ 617.46	-1,165.48	0.00	\$ 488.01	-1,165.48	-	\$ 419.15	-1165.48
Lions Park	16569.35	\$ 1,781.77	17,468.91	\$ 2,592.13	899.56	17,608.92	\$ 3,335.51	1,039.57	17,960.89	\$ 2,547.51	1,391.54	19,009.49	\$ 2,454.99	2,440.14	14,833.19	\$ 2,050.48	-1736.16
Daycare	113506.77	\$ 11,745.12	91,691.80	\$ 11,142.51	-21,814.97	95,033.95	\$ 14,639.44	-18,472.82	88,050.28	\$ 11,423.11	-25,456.49	97,445.17	\$ 10,475.58	-16,061.60	91,970.75	\$ 10,017.22	-21536.02
St. Frances Sports Fields	1285.15	\$ 499.34	1,407.92	\$ 729.56	122.77	988.92	\$ 751.75	-296.23	3,785.87	\$ 932.56	2,500.72	2,459.84	\$ 803.24	1,174.69	3,361.91	\$ 855.50	2076.76
Mclrvine Road Rink	5209.86	\$ 834.06	3,615.78	\$ 784.76	-1,594.08	3,958.89	\$ 1,136.88	-1,250.97	988.92	\$ 751.75	-4,220.94	1,537.76	\$ 729.21	-3,672.10	1,513.99	\$ 715.12	-3695.87
North End Rink*	15840.60	\$ 1,779.04	14,505.89	\$ 1,747.44	-1,334.71	9,196.43	\$ 1,871.57	-6,644.17	2,322.52	\$ 875.74	-13,518.08	0.00	\$ -	-15,840.60	-	\$ -	-15840.60
Water Tower	41851.34	\$ 4,109.87	39,497.07	\$ 4,144.92	-2,354.27	38,461.32	\$ 6,017.40	-3,390.02	38,066.40	\$ 4,876.07	-3,784.94	40,841.22	\$ 4,412.93	-1,010.12	46,929.08	\$ 5,114.09	5077.74
Street Lights	1231535.63	\$ 126,968.35	413,000.36	\$ 66,502.27	-818,535.27	414,303.24	\$ 80,315.27	-817,232.39	452,483.96	\$ 86,125.55	-779,051.67	452,483.96	\$ 84,379.92	-779,051.67	452,483.96	\$ 88,895.37	-779051.67
Recycle Depot (2016 Baseline)			2,345.61	\$ 854.09	2,345.61	13,860.25	\$ 2,669.87	11,514.64	16,735.10	\$ 2,571.94	14,389.49	17,245.02	\$ 2,285.51	14,899.41	17,780.32	\$ 2,382.76	15434.71
Tourist Info Building (2015 Baseline)			37,483.13	\$ 4,769.37	24,858.71	31,473.53	\$ 5,048.11	18,849.11	32,779.28	\$ 4,336.65	20,154.86	32,779.28	\$ 4,336.65	20,154.86	34,514.75	\$ 3,938.47	21890.33
Airport	137086.6	\$ 18,967.77	98,279.59	\$ 20,040.81	-38,807.01	117,119.25	\$ 24,223.18	-19,967.35	183,677.63	\$ 25,579.32	46,591.03	197,327.17	\$ 23,241.71	60,240.57	173,759.40	\$ 20,850.02	36672.80
Rainy Lake Square (2018 Baseline)									1,199.98	\$ 281.34	1,199.98	4,399.82	\$ 949.28	3,199.84	4,079.81	\$ 913.39	2879.83
Sunny Cove Camp Office*	11477.88	\$ 2,183.56	3,580.21	\$ 1,136.42	-7,897.67	3,923.32	\$ 1,318.07	-7,554.56	1,214.91	\$ 595.47	-10,262.98	1,235.86	\$ 576.31	-10,242.02	2,256.36	\$ 776.27	-9221.52
Russell Hall*	7413	\$ 1,466.37	8,546.34	\$ 2,096.43	1,133.34	10,037.23	\$ 2,718.40	2,624.23	8,456.06	\$ 1,949.36	1,043.06	7,340.75	\$ 1,609.22	-72.25	7,688.31	\$ 1,746.39	275.31
McGregor Hall*	2620	\$ 839.08	2,596.21	\$ 955.87	-23.79	2,131.71	\$ 910.10	-488.29	2,298.43	\$ 795.49	-321.57	2,267.87	\$ 752.83	-352.13	2,068.08	\$ 747.75	-551.92
Water Treatment Plant	813205.32	\$ 78,577.11	719,917.20	\$ 73,505.82	-93,288.12	715,771.08	\$ 103,838.30	-97,434.24	726,324.84	\$ 103,097.46	-86,880.48	720,294.12	\$ 98,195.47	-92,911.20	708,232.68	\$ 103,452.02	-104972.64
Sewage Treatment Plant	1511377.58	\$ 143,636.77	1,476,584.10	\$ 140,587.52	-34,793.48	1,518,987.60	\$ 203,610.27	7,610.02	1,448,503.56	\$ 192,660.01	-62,874.02	1,395,169.38	\$ 180,235.23	-116,208.20	1,208,782.44	\$ 165,535.89	-302595.14
Portage Avenue Storm Lift Station	8081.03	\$ 1,070.22	2,941.08	\$ 769.26	-5,139.95	3,142.53	\$ 1,031.29	-4,938.50	4,346.30	\$ 1,054.82	-3,734.73	6,062.07	\$ 1,151.27	-2,018.96	8,539.78	\$ 1,385.38	458.75
Central Ave Lift Station	147238.84	\$ 13,833.05	128,033.39	\$ 12,289.68	-19,205.45	149,926.39	\$ 21,955.50	2,687.55	141,333.37	\$ 16,825.34	-5,905.47	130,254.44	\$ 12,941.19	-16,984.40	140,720.68	\$ 14,297.05	-6518.16
5th Street Lift Station	44623.63	\$ 4,444.77	40,725.64	\$ 4,161.47	-3,897.99	41,636.49	\$ 6,504.55	-2,987.14	42,929.82	\$ 5,512.63	-1,693.81	28,741.92	\$ 3,304.15	-15,881.71	44,620.46	\$ 4,901.33	-3.17
Minnie Avenue Lift Station	1698.56	\$ 564.47	1,627.52	\$ 751.13	-71.04	1,485.80	\$ 823.53	-212.76	1,590.48	\$ 761.57	-108.08	1,465.61	\$ 720.51	-232.95	1,756.00	\$ 736.03	57.44
White Pine Lift Station	29526.54	\$ 2,994.21	31,360.61	\$ 3,272.09	1,834.07	33,525.90	\$ 5,323.67	3,999.36	33,300.07	\$ 4,455.94	3,773.53	33,821.15	\$ 3,738.29	4,294.61	36,802.98	\$ 4,120.39	7276.44
Boundary Road Lift Station	5679.41	\$ 826.30	6,871.12	\$ 1,256.49	1,191.71	7,125.24	\$ 1,620.67	1,445.83	7,082.93	\$ 1,379.93	1,403.52	6,983.40	\$ 1,238.94	1,303.99	7,391.49	\$ 1,282.03	1712.08
Patcin Avenue Lift Station	2406.48	\$ 586.89	2,159.44	\$ 798.38	-247.04	2,399.88	\$ 949.33	-6.60	2,399.07	\$ 854.35	-7.41	1,370.58	\$ 712.22	-1,035.90	1,987.70	\$ 760.89	-418.78
TOTAL:	7953770.41	\$ 787,449.04	6,299,690.34	\$ 661,707.50	-1,666,704.49	6,502,029.67	\$ 953,828.19	-1,466,710.77	6,499,038.84	\$ 912,896.31	-1,469,701.60	6,568,384.89	\$ 870,068.09	-1,401,555.53	6,419,001.30	\$ 900,151.76	-1,550,939.12

Spreadsheet #2 - Gas Summary

Facility	Base Year		2015 Consumption	Billing HDD	Difference From Base Year		2016 Consumption	Billing HDD	Difference From Base Year		2017 Consumption	Billing HDD	Difference From Base Year		2018 Consumption	Billing HDD	Difference From Base Year		2019 Consumption	Billing HDD	Difference From Base Year	
	Consumption	HDD			Consumption	HDD			Consumption	HDD			Consumption	HDD			Consumption	HDD			Consumption	HDD
Museum	6470.454	6916.8	1830.421	1851.4	-4640.033	-5065.4	6039.276	4905.7	-431.178	-2011.1	9586.063	5308	3115.609	-1608.8	11847.7	5940.5	5377.205	-976.3	6017	5029.2	-453.454	-1887.6
Sister Kennedy	7505.28	6179.8	1685.767	1857.2	-5819.513	-4322.6	7268.827	4882.8	-236.453	-1297	6164.457	5378.9	-1340.823	-800.9	5752.7	5923	-1752.531	-256.8	2639.9	5762.7	-4865.38	-417.1
Sister Kennedy Shop	3020.719	5337.5	287.406	1314.4	-2733.313	-4023.1	1222.462	5425.6	-1798.257	88.1	2223.468	5410.6	-797.251	73.1	2728.4	5913	-292.325	575.5	2949.85	3281.5	-70.869	-2096
McIrvine Rink	4256.96	6351.4	1654.557	1914.8	-2602.403	-4436.6	3667.385	4871.5	-589.575	-1479.9	3670.339	5338.6	-586.621	-1012.8	4374.1	5927.5	117.128	-423.9	4460.7	5719.5	203.74	-631.9
Library	5889.056	6129.9	706.575	1841.5	-5182.481	-4288.4	2570.377	4928.7	-3318.679	-1201.2	3051.63	5380.4	-2837.426	-749.5	2461.9	5913	-3427.1672	-216.9	5994.8	5578.5	105.744	-551.4
East End Hall	5794.478	6102.4	1218.426	1855.5	-4576.052	-4246.9	3346.499	5064.8	-2447.979	-1037.6	3819.403	5241.1	-1975.075	-861.3	3513.4	5920.7	-2281.072	-181.7	4286.7	5761	-1507.778	-341.4
Water Treatment Plant	79918.157	6102.4	13986.86	1855.5	-65931.297	-4246.9	65096.759	5064.8	-14821.398	-1037.6	91056.458	5274.3	11138.301	-828.1	89482.0	5887.5	9563.805	-214.9	72101.3	5761	-7816.857	-341.4
Sewage Treatment Plant 2	7432.953	6229.1	1018.136	1840.2	-6414.817	-4388.9	4342.381	4872	-3090.572	-1357.1	4826.413	4732	-2606.54	-1497.1	3324.2	5929	-4108.709	-300.1	7113.1	6941.4	-319.853	712.3
Water Tower	21500.484	6953.4	6484.361	6656.7	-15016.123	-296.7	3182.373	4872	-18318.111	-2081.4	25934.663	5268.3	4434.179	-1685.1	36572.2	6006.2	15071.76	-947.2	30619.2	5717.5	9118.716	-1235.9
Sewage Treatment Plant 1	36714.116	6229.1	15352.72	1840.2	-21361.396	-4388.9	39390.202	4872	2676.086	-1357.1	49157.08	5346.1	12442.964	-883	39056.4	5319.2	2342.27	-909.9	41493.2	5717.5	4779.084	-511.6
Public Works	26975.055	6145.1	4734.614	1901.7	-22240.441	-4243.4	17425.157	5057.4	-9549.898	-1087.7	20312.658	5273.3	-6662.397	-871.8	23834.4	5879.2	-3140.644	-265.9	22073.5	5840.2	-4901.555	-304.9
Daycare	4606.651	6992.3	6539.997	1869.3	1933.346	-5123	15196.942	5057.4	10590.291	-1934.9	14089.785	4548.5	9483.134	-2443.8	11180.0	6564.6	6573.378	-427.7	9886.5	5879.6	5279.849	-1112.7
Civic Centre	60047.804	6916.8	12228.766	1851.4	-47819.038	-5065.4	39565.453	4930.9	-20482.351	-1985.9	40230.302	5282.8	-19817.502	-1634	48419.9	5940.5	-11627.899	-976.3	51126.59	5764.4	-8921.214	-1152.4
Memorial Sports Centre1	132342.865	6962.5	60954.535	1841.5	-71388.33	-5121	128760.303	4928.7	-3582.562	-2033.8	131786.389	4665.2	-556.476	-2297.3	88107.9	6628.2	-44234.952	-334.3	160349.2	8227.8	28006.335	1265.3
Memorial Sports Centre2	57494.116	6129.9	16849.326	1841.5	-40644.79	-4288.4	45073.408	4928.7	-12420.708	-1201.2	50116.798	5380.4	-7377.318	-749.5	37281.6	4334	-20212.517	-1795.9	48278.03	7320	-9216.086	1190.1
TOTAL	459969.148	95678.4	145532.467	32132.8	-314436.681	-63545.6	382147.804	74663	-77821.344	-21015.4	456025.906	77828.5	-3943.242	-17849.9	407936.8778	88026.1	-52032.2702	-7652.3	469389.57	88301.8	9420.422	-7376.6

	Expected	2012		2013		2014		2015		2016		2017		2018		2019		Average	kWh Total To Date	Revenue To Date
		kWh	Revenue	kWh	Revenue	kWh	Revenue	kWh	Revenue	kWh	Revenue	kWh	Revenue	kWh	Revenue	kWh	Revenue			
January	3444	1667	\$ 1,336.54	1101	\$ 974.08	743	\$ 648.88	846	\$ 742.30	438	\$ 593.43	671	\$ 585.42	343	\$ 288.16	264	\$ 216.57	759.1	6073	\$ 5,385.38
February	4720	3400	\$ 2,726.68	2082	\$ 1,863.09	1185	\$ 1,049.52	2001	\$ 1,789.02	1756	\$ 1,562.70	2400	\$ 2,146.68	1606	\$ 1,432.77	0	-\$ 22.68	1803.8	14430	\$ 12,547.78
March	6658	4916	\$ 4,431.46	3950	\$ 3,511.58	1535	\$ 1,742.81	5513	\$ 4,971.80	3787	\$ 3,407.62	5158	\$ 4,651.81	5335	\$ 4,806.46	1920	\$ 1,717.25	4014.3	32114	\$ 29,240.79
April	6740	6550	\$ 5,912.29	5865	\$ 5,291.50	5625	\$ 5,073.32	6237	\$ 5,627.94	5196	\$ 4,688.81	3715	\$ 3,445.41	7003	\$ 6,115.43	4248	\$ 3,827.12	5554.9	44439	\$ 39,981.82
May	7192	6319	\$ 5,702.94	6302	\$ 5,686.86	5527	\$ 4,984.49	5116	\$ 4,612.02	6482	\$ 5,849.98	3694	\$ 3,342.05	6342	\$ 5,724.83	4638	\$ 4,190.56	5552.5	44420	\$ 40,093.73
June	7143	7667	\$ 6,924.57	7099	\$ 6,409.14	5444	\$ 4,909.28	4506	\$ 4,113.21	5650	\$ 5,095.98	3701	\$ 3,331.39	5000	\$ 4,508.64	5060	\$ 4,563.00	5515.9	44127	\$ 39,855.21
July	7417	7620	\$ 6,881.98	6663	\$ 6,014.02	6844	\$ 6,178.04	5463	\$ 4,980.87	5201	\$ 4,689.05	4356	\$ 3,924.98	5281	\$ 4,763.28	5418	\$ 4,887.43	5855.8	46846	\$ 42,319.65
August	6794	7585	\$ 6,850.25	7323	\$ 6,612.14	5883	\$ 5,307.13	5790	\$ 5,222.83	5673	\$ 5,116.80	3846	\$ 3,465.07	4608	\$ 4,153.36	5194	\$ 4,684.44	5737.8	45902	\$ 41,412.02
September	5312	6306	\$ 5,691.15	6088	\$ 5,492.92	4941	\$ 4,453.44	5261	\$ 4,743.42	2849	\$ 2,557.54	3789	\$ 3,292.30	3574	\$ 3,216.29	2646	\$ 2,122.09	4431.8	35454	\$ 31,569.15
October	4116	3281	\$ 2,965.12	3497	\$ 3,144.79	3877	\$ 3,489.18	4042	\$ 3,641.43	2662	\$ 2,388.06	3430	\$ 3,062.58	1842	\$ 1,682.90	2429	\$ 2,178.62	3132.5	25060	\$ 22,552.68
November	2675	1677	\$ 1,496.08	1610	\$ 1,434.68	1707	\$ 1,522.58	2114	\$ 1,891.42	2144	\$ 1,900.87	676	\$ 589.95	5281	\$ 4,763.28	483	\$ 420.21	1961.5	15692	\$ 14,019.07
December	2942	724	\$ 632.41	446	\$ 379.79	1185	\$ 742.30	1465	\$ 1,303.27	439	\$ 373.45	332	\$ 278.21	854	\$ 751.27	403	\$ 347.69	731.0	5848	\$ 4,808.39
TOTAL:	65153	57712	\$51,551.47	52026	\$46,814.59	44496	\$40,100.97	48354	\$43,639.53	42277	\$38,224.29	35768	\$32,115.85	47069	\$42,206.67	32703	\$29,132.30	45050.62	360405	\$ 323,785.67



June 17, 2020

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Request from Makkinga Contractors to complete additional works

With the early tendering of the reconstruction of Scott Street from Reid Avenue to Colonization Road East coupled with an early spring and favourable spring weather, Makkinga Contracting has been able to get a jump on their work along that block. As a result, and to improve the usability of this road segment this fall, Makkinga is requesting to complete some of the 2021 works in 2020, see attached letter.

The job was originally tendered to have most sidewalks and driveway aprons replaced in 2021 as well as surface coarse asphalt, landscaping, and line painting. This was done to try and split the works over the short grant period while resulting in a top-quality finished product for the Town. The costs associated with these works have not been budgeted in 2020 and would have been brought forward in the 2021 budget process.

The costs associated with the 2021 works, as confirmed with Makkinga Site Staff, are as follows:

Item	Units		Unit Price	Total Cost
Removal of Existing Concrete Sidewalk	1060	m ²	\$25.00	\$26,500.00
Concrete Sidewalk	1260	m ²	\$140.00	\$176,400.00
Subtotal				\$202,900.00
Engineering (10%)				\$20,290.00
Town's Portion HST				\$3928.14
TOTAL ADDITIONAL COSTS				\$227,118.14

The costs will be eligible under the Connecting Link funding program; however, payments and cash flow are set already so a receivable at year end will have to be setup.

It is the recommendation of the Operations and Facilities Executive Committee that:

1. Makkinga be allowed to complete works scheduled in 2021 in 2020
2. The unbudgeted works be funded out of the Corporate Projects Reserve fund or the year end surplus.

Respectfully Submitted



Travis Rob, P.Eng

Council approval of this report will agree with the recommendation of the Operations and Facilities Executive Committee that

- 1. Makkinga be allowed to complete works scheduled in 2021 in 2020**
- 2. The unbudgeted works be funded out of the Corporate Projects Reserve fund or the year end surplus.**

Manager of Operations and Facilities

2020June17 Makkinga Extra Works Request.docx

Request for Combing Work

June 05, 2020

Travis Rob P.Eng.
Manager of Operations & Facilities
Town of Fort Frances
P: (807)274-9893 ext 1316
C: (807)275-9757

Attn: Travis Rob P.Eng.. Municipal Engineer

RE: Request for Rolling in Work from 2021 to 2020 Scott Street, Fort Frances,

Makkinga Contractors is requesting to include some work from 2021 to 2020 year,
Work would include.

All concrete - curbs & gutters and sidewalks etc..

All granular courses

Paving – base course

Remaining work for 2021.

Paving surface course

Pavement marking

Finishing touch landscape

Please call with any questions or concerns you may have.

Sincerely,



Stephan Lychowyd
Estimator / Project Manager

June 17, 2020

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Information on Ontario's Transition to Full Producer Responsibility of Blue Box Recycling

Back in February of 2020 Council received an update report outlining updates to the process of transition of the current Blue Box Recycling program to full producer responsibility and the Town's requested transition date. At that time there had not been much information released about the proposed new blue box regulation development and consultations were ongoing. At this point, more information on the proposed draft regulation is starting to filter out where municipalities are able to ask questions and make comments on the proposed new blue box program plan and the planned transition.

Recently there was a change to the proposed regulation brought forward whereby municipalities of population less than 5000, schools and open spaces would not be eligible to partake in the new program. This is concerning to most municipalities regardless of size as many programs service schools or they have neighboring communities that fall under the 5000 threshold and would therefore lose their programs. Currently the Rainy River District School Board does utilize our program at some facilities and currently there are several neighboring communities that have current blue box or depot recycling programs which they would lose under this current draft plan.

AMO is asking those municipalities that have not yet passed a resolution to transition to consider including wording surrounding the service reduction implications relating to population size and the impact of cutting out schools and open spaces. Given that the Town of Fort Frances has already passed a resolution surrounding their transition date, attached to this report you will find a draft resolution to update the resolution passed by Council in February calling on the government to remove the wording surrounding population caps and include servicing of schools and open spaces in the new Blue Box Program.

The Operations and Facilities Executive Committee recommends that the update resolution on Transition to Full Producer Responsibility be passed by Council.

Respectfully Submitted



Travis Rob, P.Eng

Council approval of this report will agree with the recommendation of the Operations and Facilities Executive Committee that the update resolution on Transition to Full Producer Responsibility be passed by Council

Manager of Operations and Facilities

Update Resolution on Transition to Full Producer Responsibility

WHEREAS the Town of Fort Frances is supportive of a timely, seamless, and successful transition of Blue Box programs to full financial and operational responsibility by producers of packaging, paper and paper products;

AND WHEREAS the Town of Fort Frances is concerned about a recent proposal by the Ministry of Environment, Conservation and Parks that could jeopardize over 135 small rural, remote, and Northern community Blue Box programs across the Province as well as servicing to schools and public spaces;

THEREFORE BE IT RESOLVED:

THAT the Town of Fort Frances strongly advocates for language to be included in the regulation that ensures municipalities under 5,000 continue to receive Blue Box servicing as was agreed as part of the Provincial government's Blue Box mediation as well as schools and public spaces.

AND THAT any questions regarding this resolution can be directed to Travis Rob, Manager of Operations and Facilities trob@fortfrances.ca, (807)274-9893.

AND FURTHER THAT the resolution be forwarded to the Association of Municipalities of Ontario and the Ontario Ministry of the Environment, Conservation and Parks.



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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

June 15, 2020

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

Attention: Mr. Craig Miller
Environmental Superintendent

Dear Craig:

**Re: Fort Frances Wastewater Treatment Facility
May 2020 Monthly Report**

As per the operating agreement, the attached document is the May 2020 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. Brad McMahon, Senior Operations Manager.

Yours truly,

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

Kelly Cunningham
Team Lead

For Brad J. McMahon
Senior Operations Manager

**The Corporation of the Town of Fort Frances
Wastewater Treatment Plant
(Sewage Plant)
May 2020 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 May 2020; the facility performance report summarizes important information regarding the quality of the effluent, wastewater, analytical test results, maintenance operations, and relevant activities of the WWTP.

DESCRIPTION OF WORKS

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

The Fort Frances Sewage Treatment Plant 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.

MAY 2020 EFFLUENT QUALITY

<i>Parameters</i>	<i>Monthly Actual Concentration mg/L</i>	<i>Compliance Criteria Concentration mg/L</i>	<i>Performance Objective Concentration mg/L</i>	<i>Monthly Actual Loading, kg/d</i>	<i>Compliance Criteria Loading kg/d</i>	<i>Performance Objective Loading kg/d</i>
CBOD ₅	2.2 mg/L	25 mg/L	15 mg/L	14.2 kg/d	225 kg/d	135 kg/d
Total Suspended Solids	3.9 mg/L	25 mg/L	15 mg/L	25.2 kg/d	225 kg/d	135 kg/d
Total Phosphorus	0.10 mg/L	1.0 mg/L	0.9 mg/L	0.63 kg/d	9 kg/d	8.1 kg/d
Total Nitrogen Nitrate Nitrogen	12.28 mg/L 5.00 mg/L					
Total Cl ₂ Residual		<0.01 mg/L (when in use)				
E-Coli		14.1 count/100 ml (geometric mean)		200 count/100ml (geometric mean)		E-coli not to exceed 150 organisms/100ml (monthly geometric mean density)
pH				pH range 7.0 to 7.3; average pH was 7.1		
Temperature degrees C				Temperatures ranged from 7.5 to 10.5 C; average temperature of effluent was 8.7 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 May was 6468.6 m³/day. This represents 72% of the design average flow. Total treated flow for the month was 200528 m³.

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

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 and restrictor cleaning on the Fournier press
- Drained and inspected teacup, hosed snail
- Flushed digester level sensor
- Cleaned DO probes
- Broom swept and hosed UV channel and UV banks

Pump Stations:

- Ran gensets
- Changed seal water strainers
- Reset pumps and PLC at Boundary Road lift station

PROCESS AND OPTIMIZATION ISSUES

SLUDGE SUMMARY

Dennis Robinson Limited hauled a calculated total of 124.4 m³ (12 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 site have not been provided. The Fournier press ran for 134 hours in May.

COMPLAINTS

There were no complaints during the report period.

BYPASS/OVERFLOW REPORT(S)

There were no bypass events in the reporting period.

COMMENTS

Plant power consumption for the month was 453 (x 180 multiplier) kWh.
The Fournier press has been operated 672.8 hours in 2020.
Annual fire extinguisher inspections were completed by SPI.

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)

2020 Fort Frances Wastewater

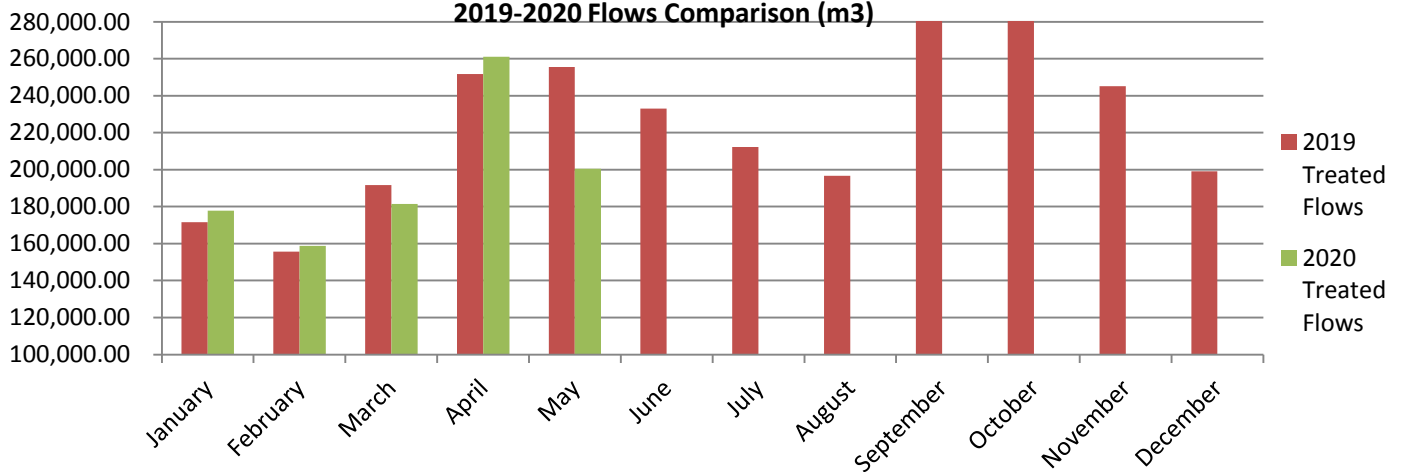
Month	Sewage Flows Year 2020					Usage		Calculated		Sludge		Removal Efficiency	
	Avg. Day Flow m3	Max Day Flow m3	Treated Volume ML	By-Pass Volume ML	Total Volume ML	% Plant Capacity	Volume Hauled M3	Volume Hauled M3	Bins Hauled	CBOD5	Suspended Solids	CBOD5	Suspended Solids
January	5733.8	6060	177747		177747	64%	113.2		12			0.956386293	0.96398223
February	5477.0	5861	158832		158832	61%	108.2		11				
March	5852.1	8845	181415		181415	65%	117.1		12				
April	8705.3	12162	261159		261159	97%	149.3		15				
May	6468.6	7612	200528		200528	72%	124.4		12				
June						0%							
July						0%							
August						0%							
September						0%							
October						0%							
November						0%							
December						0%							
Sum				0	979681		612.2		62				
Average	6447		195936		195936	64%	122.4		12.4				
Max		12162	261159		261159				15				
ECA	9000	18000											

Month	BOD5/CBOD5			Suspended Solids			Total Phosphorus			Nitrogen			E. Coli		pH	
	Avg. Raw BOD (mg/L)	Avg. Eff. CBOD (mg/L)	Avg. Load CBOD (kg/day)	Avg. Raw S.S (mg/L)	Avg. Eff. S.S (mg/L)	Avg. Load S.S (kg/day)	Avg. Raw T.P (mg/L)	Avg. Eff. T.P (mg/L)	Avg. Load T.P (kg/day)	Avg. Raw TKN (mg/L)	Avg. Eff. Total N (mg/L)	Geo Mean Counts /100ml	Minimum	Maximum	Monthly	Monthly
January	92.6	2.9	16.4	167.8	4.9	28.2	2.59	0.14	0.82	16.2	12.5	44.6	6.3	6.6		
February	112.0	9.0	15.9	163.1	5.0	27.2	3.38	0.12	0.67	16.4	13.0	22.1	6.4	7.5		
March	99.2	2.6	16.2	149.8	5.3	31.4	2.68	0.11	0.68	21.9	12.4	33.1	7.0	7.6		
April	69.8	2.9	24.2	106.4	5.1	45.8	1.88	0.11	0.96	14.5	10.1	49.0	7.0	7.4		
May	75.8	2.2	14.2	133.1	3.9	25.2	1.90	0.10	0.63	16.2	12.3	14.1	7.0	7.3		
June																
July																
August																
September																
October																
November																
December																
Average	89.9	3.9	17.4	144.0	4.8	31.6	2.5	0.12	0.75	17.0	12.1	32.6	6.7	7.3		
Max	112	9	24.2	167.8	5.3	45.8	3.4	0.14	0.96	21.9	13	49	7	7.6		
ECA		25	225		25	225		1.0	9.0			200	6.0	9.5		

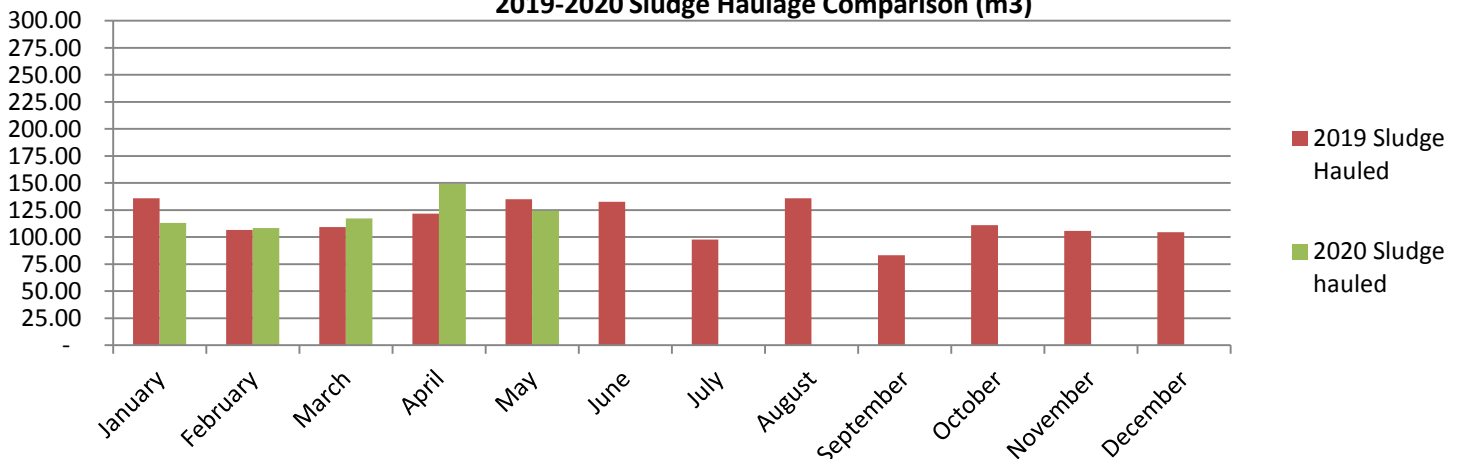
2019-2020 Comparison Chart

Month	2019 Treated Sewage	2020 Treated Sewage	% Variance 2019 to 2020	2019 Hauled Sludge	2020 Hauled Sludge	% Variance 2019 to 2020
	m3	m3	m3	m3 (calculated)	m3 (calculated)	m3
January	171,621.00	177,747.00	3%	136.00	113.20	-17%
February	155,707.00	158,832.00	2%	106.70	108.20	1%
March	191,603.00	181,415.00	-6%	109.20	117.10	7%
April	251,711.00	261,159.00	4%	121.60	149.30	23%
May	255,574.00	200,528.00	-27%	135.00	124.40	-8%
June	233,001.00		#DIV/0!	132.60		-100%
July	212,351.00		#DIV/0!	97.70		-100%
August	196,772.00		#DIV/0!	136.00		-100%
September	315,918.00		#DIV/0!	83.10		-100%
October	441,076.00		#DIV/0!	111.10		-100%
November	245,097.00		#DIV/0!	105.70		-100%
December	199,047.00		#DIV/0!	104.50		-100%
Totals	2,869,478.00	979,681.00	-193%	1,379.20	612.20	-56%

2019-2020 Flows Comparison (m3)



2019-2020 Sludge Haulage Comparison (m3)



Workorder Summary Report

Report Start Date: May 1, 2020 12:00 AM

Report End Date: May 31, 2020 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
1735438			1103, Fort Frances WPCP	OPER	Inspection	1	MONTHS	Grass Cutting at Wastewater Treatment (1y) 1103	COMP	5/1/20 12:00 AM	5/15/20 09:02 AM	5/15/20 09:02 AM	
1743562	0000227376	PANEL ALARM/DIALER	1103, Fort Frances WPCP, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 1103	COMP	5/1/20 12:00 AM	5/31/20 02:04 PM	5/31/20 02:04 PM	Critical Alarm/Dialer Testing (1m) 1103 -The auto dialer is tested daily and is working as it should. Kelly
1743566			1103, Fort Frances WPCP	PM	Refurbish/Replace/Repair	1	MONTHS	Diesel Gensets Inspection/Functional Tests (1m) 1103	COMP	5/1/20 12:00 AM	5/19/20 07:11 AM	5/19/20 07:11 AM	Diesel Gensets Inspection/Functional Tests (1m) 1103 -Exercised generators at lift stations and portable generators at the plant. All good. Kelly
1743582			1103, Fort Frances WPCP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1103	COMP	5/1/20 12:00 AM	5/25/20 08:00 AM	5/25/20 09:00 AM	Monthly H&S -No issues this month.
1743913			1103, Fort Frances WPCP	PM	Inspection	1	MONTHS	Blowers/Motors Inspection/Service (1m/3m) 1103	COMP	5/1/20 12:00 AM	5/23/20 10:45 AM	5/23/20 11:45 AM	Monthly Blower Maint. -I changed oil in blowers 3 & 4 and greased them.
1743921	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	5/1/20 12:00 AM	5/31/20 02:07 PM	5/31/20 02:07 PM	Teacup Centrifuge Inspection/Service (1m/3m/1y) 1103 -I drained and inspected the Teacup- there was no debris. Greased bearings and lubricated drive chain on grit Snail. Kelly
1751414	0000246428	PUMP CENT BOUNDARY P1	1103, Boundary Pumping Station, Process	CALL	Refurbish/Replace/Repair	0		Boundary Lift Station Comm Fault 1103	COMP		5/25/20 11:45 AM	5/25/20 11:51 AM	Boundary Comm Fault -I arrived at the plant and tried to reset comm fault and it wouldn't reset so I then went to the lift station and cycled power. Then returned to plant to find it still unresponsive. I then drove to the lift station and changed the radio with a spare we had and it worked.

2020 - Tonnage at Landfill Site - Updated June 9, 2020

2020 - Tonnage at Landfill Site - Updated June 9, 2020									2019		2020				
MONTH	Residential Waste tonnes	Res %	ICI Waste tonnes	ICI %	Non Community Waste tonnes	Non Com %	Covering Material tonnes	2019	Average last 10 years	2020	Total Fees	Average last 10 years	Total Fees	2020-2019 Tonnes	2020-2019 Fees
								Total Tonne	Total Tonne	Total Tonne		Fees 2010 to 2019			
JAN	155.55	36.11	264.88	61.50	10.30	2.39	0.00	548.19	395.44	430.73	\$27,590.90	\$21,533.59	\$27,424.15	-117.46	-\$166.75
FEB	127.99	32.35	238.46	60.27	29.20	7.38	0.00	360.69	317.98	395.65	\$21,887.90	\$17,034.00	\$23,407.65	34.96	\$1,519.75
MAR	192.66	43.40	243.75	54.90	7.54	1.70	9.30	485.71	426.17	443.95	\$76,269.12	\$23,642.71	\$29,051.15	-41.76	-\$47,217.97
APRIL	284.22	46.49	315.97	51.68	11.15	1.82	36.90	740.62	580.93	611.34	\$49,329.50	\$32,712.97	\$42,244.30	-129.28	-\$7,085.20
MAY	384.70	49.49	386.03	49.66	6.60	0.85	4146.71	854.39	729.67	777.33	\$50,989.10	\$39,340.52	\$50,040.01	-77.06	-\$949.09
JUNE		#DIV/0!		#DIV/0!		#DIV/0!		757.98	827.61	0.00	\$46,821.00	\$39,940.83		-757.98	-\$46,821.00
JULY		#DIV/0!		#DIV/0!		#DIV/0!		769.45	604.11	0.00	\$47,024.80	\$36,877.55		-769.45	-\$47,024.80
AUG		#DIV/0!		#DIV/0!		#DIV/0!		732.28	678.70	0.00	\$49,303.70	\$37,960.82		-732.28	-\$49,303.70
SEPT		#DIV/0!		#DIV/0!		#DIV/0!		662.16	673.32	0.00	\$42,611.05	\$38,481.31		-662.16	-\$42,611.05
OCT		#DIV/0!		#DIV/0!		#DIV/0!		673.40	834.68	0.00	\$44,233.50	\$43,709.40		-673.40	-\$44,233.50
NOV		#DIV/0!		#DIV/0!		#DIV/0!		677.40	576.61	0.00	\$41,877.80	\$30,714.80		-677.40	-\$41,877.80
DEC		#DIV/0!		#DIV/0!		#DIV/0!		433.30	428.15	0.00	\$26,849.40	\$22,463.35		-433.30	-\$26,849.40
Average per monthly	229.02	34.23	289.82	60.88	12.96	4.89	838.58		589.45	221.58	\$43,732.31	\$32,034.32	\$34,433.45	-253.54	-100,720.26
Total	1145.12		1449.09		64.79		4192.91		7073.37	2659.00	\$524,787.77	\$384,411.84	\$172,167.26	-5036.57	-\$352,620.51
Town of Fort Frances Tonnage											\$524,787.77	Actual	\$172,167.26		
	2594.21										\$407,271.00	Budget	\$414,194.00		
Total Tonnage	2659.00										\$524,787.77	Forecasted	\$413,201.42		
Residential Tonnage	1145.12	43.07%													
ICI Tonnage	1449.09	54.50%													
Coverage material	4192.91														

Aircraft Landings 2020
As of May 31, 2020

Month	Bearskin Flights			Bearskin Passengers			Air Bravo Passengers			Government			Private			Med-I-vacs			International			Commercial			Totals			Variance
	2020	2019	2018	2020	2019	2018	2020	2019	2018	2020	2019	2018	2020	2019	2018	2020	2019	2018	2020	2019	2018	2020	2019	2018	2020	2019	2018	2020-2019
January	56	54	68	140	160	198	8	8	0	2	0	0	15	4	3	50	60	55	0	0	2	45	42	73	168	160	201	8
February	64	56	66	149	197	187	12	15	0	3	13	0	6	1	2	36	43	57	1	0	3	38	38	56	148	151	184	-3
March	41	61	73	99	160	249		11	0	1	13	0	10	10	5	39	52	43	6	2	6	0	42	57	97	180	184	-83
1/4 Total	161	171	207	388	517	634	20	34	0	6	26	0	31	15	10	125	155	155	7	2	11	83	122	186	413	491	569	-78
April	1	59	77	0	197	270	0	7	0	2	5	0	10	9	7	30	57	42	1	3	6	0	40	42	44	173	174	-129
May	0	67	77	0	196	276	0	5	2	3	14	4	20	19	19	40	63	35	0	25	28	0	43	54	63	231	229	-168
June		61	68		208	219		9	4		13	4		48	24		57	36		81	70		39	49	0	299	273	-299
1/2 Total	162	358	429	388	1118	1399	20	55	6	11	58	8	61	91	60	195	332	268	8	111	115	83	244	331	520	1194	1211	-674
July		61	74		173	228		10	7		4	10		28	40		54	38		69	79		42	41	0	258	282	-258
August		69	69		236	219		5	5		10	6		33	41		57	41		64	65		40	44	0	273	266	-273
September		62	66		180	197		12	2		8	29		14	33		52	44		46	45		34	37	0	216	254	-216
3/4 Total	162	550	638	388	1707	2043	20	82	20	11	80	53	61	166	174	195	495	391	8	290	304	83	360	453	520	1941	2013	-1421
October		66	68		219	254		13	8		5	5		22	18		57	37		8	8		44	43	0	202	179	-202
November		61	71		180	209		17	1		0	2		6	5		56	41		1	1		37	40	0	161	160	-161
December		47	55		111	197		13	7		0	0		13	7		43	41		3	0		38	34	0	144	137	-144
Total	162	724	832	388	2217	2703	20	125	36	11	85	60	61	207	204	195	651	510	8	302	313	83	479	570	520	2448	2489	-1928

Fort Frances Airport - Page 2/2 - Fuel Sales - May 31, 2020																			
Fuel Sales Recap - 2020									2020	2019	2018	2017	2016	2015	2014	2013	2012	9 year	Variance
Month	100LL		Jet Trk		Jet Cab		Month	Year	per	per	per	per	per	per	per	per	per	Average	2020-2019
	Liters	Total	Liters	Total	Liters	Total	Total	Total	month	month	month	month	month	month	month	month	month	2020 to 2012	month
January	435	435	7,527	7,527		0	7,962	7,962	7,962	8,050	16,597	25,675	7,528	8,692	11,543	7,216	10,252	11,082	-88
February	325	760	4,752	12,279		0	5,077	13,039	5,077	7,991	16,286	12,503	11,904	11,231	12,304	6,197	6,918	9,410	-2,914
March	506	1,266	5,967	18,246		0	6,473	19,512	6,473	13,716	9,798	21,928	13,255	17,795	10,508	12,077	9,329	12,527	-7,243
April	313	1,579	1,146	19,392		0	1,459	20,971	1,459	13,010	10,398	13,102	8,592	13,219	8,377	4,453	8,251	8,616	-11,551
May	1,139	2,718	10,546	29,938		0	11,685	32,656	11,685	18,667	24,839	21,362	24,681	16,161	29,753	18,350	21,891	20,718	-6,982
June		2,718		29,938		0	0	32,656		31,063	27,380	27,380	26,015	45,698	30,789	22,786	23,537	28,930	
July		2,718		29,938		0	0	32,656		17,146	23,461	24,642	29,002	28,150	14,441	19,232	32,650	23,094	
August		2,718		29,938		0	0	32,656		17,024	30,430	23,029	21,119	36,638	20,450	20,075	30,783	24,557	
September		2,718		29,938		0	0	32,656		16,543	25,191	13,489	21,325	24,238	21,837	18,005	19,431	20,286	
October		2,718		29,938		0	0	32,656		9,076	10,769	16,604	30,655	8,216	15,472	13,109	11,325	14,323	
November		2,718		29,938		0	0	32,656		2,202	10,748	9,924	22,349	11,616	7,238	6,398	8,170	9,492	
December		2,718		29,938		0	0	32,656		5,852	13,243	6,560	13,797	7,592	6,849	2,028	8,179	7,394	
Total	2,718		29,938		0		32,656		32,656	160,340	219,140	216,198	230,222	229,246	189,561	149,926	190,716	190,428	-28,778

Lowest month in last 9 years

Highest month in last 9 years

Highest month

lowest month