TOWN OF FORT FRANCES

Operations and Facilities Executive Committee

AGENDA - June 9, 2021, 8:30 AM

MEETING - Civic Centre

Session #008

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Conference ID: 335 229 738#

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1.	**Call to Order**		
2.	**Disclosure of pecuniary interest and the general nature thereof**		
3.	**Approval of Previous Committee Minutes**		
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4.	**Items Referred from Council**		
	4.1	Request for Water Service to 11 Highway 11	5 - 9
5.	**New Business**		
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	5.2	Award of RFP 21-OF-03 - Feasibility Study for the Consolidation of Ice Plants at the Memorial Sports Centre.	12 - 14
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7. Adjourn / Next Meeting Date

TOWN OF FORT FRANCES

MINUTES SESSION NO. #007 May 19, 2021

A meeting of the Operations & Facilities Executive Committee of the Town of Fort Frances was held in the Committee Room and via Microsoft Teams (virtual meeting resources) on Wednesday May 19, 2021 from 8:31 a.m. to 8:56 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, D. Brown, CAO, Randy Thoms (8:30 a.m. to 8:56 a.m.) and Adam Mitchell (8:30 a.m. to 8:56 a.m.)

1 Call to Order

1.1 The meeting was called to order at 8:31 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 5, 2021 - the minutes from the previous meeting were approved as amended.

4 New Business

4.1 Geospatial Data Share Agreement with Computational Hydraulics International and TBT Engineering - the administration report was approved as recommended.

4.2 Purchase of a new Zamboni - the administration report was approved as recommended.

4.3 Renewal of Enterprise Annual Lease - the lease agreement was approved as amended.

5 Outstanding Items

5.1 Award of Tender 21-OF-06 - Memorial Sports Centre Roof Replacement - the administration report was approved as recommended.

6 Information

6.1 Airport Statistics - the airport statistics were reviewed and will be forwarded on to Council as information only. No action required.

6.2 Tonnage at the Landfill Site - updated May 17, 2021 - the Landfill stats were reviewed and will be forwarded on to Council as information only. No action required.

7 Adjourn / Next Meeting Date

7.1 Meeting adjourned at 8:56 a.m.

Next meeting June 9, 2021

_____
Executive Committee Chair

_____
T. Rob, Manager of Operations & Facilities

June 9, 2021

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Request for water service to 11 Highway 11

A letter dated May 13, 2021 was received from Mr. Marc Laatu of Carrel and Partners LLP on behalf of 501801 Ontario Limited requesting a water supply or service for a commercial property located at 11 Highway 11 on the west side of Oakwood Road within the Township of Alberton. The Town received a similar request back in 2013 from the owners of 121 Oakwood Road and subsequently installed sewer and water services into their property in 2017.

The Town included the installation of the services to 121 Oakwood Road in the 2017 Capital Road reconstruction tender to provide the property owners with the most competitive price and it is suggested that the same process be completed for this installation as well.

Presently the Town has the capacity to supply water to this property without any detrimental effects and/or service delivery issues to our present water customers. Administration is of the opinion that Council should consider obtaining additional water customers where feasible if a binding agreement is developed and executed. The property owner wishes, while going through the process, to obtain two easements across Oakwood Road as he also owns property to the south of his main operation and wants to get setup to feed a potential future building with a future water service, this second service would be requested when needed, however it is advantageous to complete both easements at the same time.

The Operations & Facilities Executive Committee recommends the following:

1) Allow the request in principle with the understanding that a service agreement is developed at the cost of the property owners of 11 Highway 11 which meets all the terms and conditions of the Town. The service agreement will be brought back to Council for approval prior to any installation of infrastructure taking place.
2) That the property owners of 11 Highway 11 will be responsible for all materials, labour & installation costs for both water and sanitary sewer service lines from the Town's water main to their Oakwood Road frontage property line.
3) That the property owners of 11 Highway 11 will be responsible for all materials, labour & installation costs for all required building water meters and backflow preventers. Presently all buildings on the property are fed from one central location.
4) That 11 Highway 11 is considered a non-residential metered water customer and will be charged the appropriate fees as per the Town's user fee schedule as amended from time to time.
5) That the property owners of 11 Highway 11 will be responsible to obtain all necessary approvals for the installation of water lines within the Oakwood Road right-a-way within the Township of Alberton from the Township of Alberton.

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) **Allow the request in principle with the understanding that a service agreement is developed at the cost of the property owners of 11 Highway 11 which meets all the terms and conditions of the Town. The service agreement will be brought back to Council for approval prior to any installation of infrastructure taking place.**
2) **That the property owners of 11 Highway 11 will be responsible for all materials, labour & installation costs for both water and sanitary sewer service lines from the Town's water main to their Oakwood Road frontage property line.**
3) **That the property owners of 11 Highway 11 will be responsible for all materials, labour & installation costs for all required building water meters and backflow preventers. Presently all buildings on the property are fed from one central location.**
4) **That 11 Highway 11 is considered a non-residential metered water customer and will be charged the appropriate fees as per the Town's user fee schedule as amended from time to time.**
5) **That the property owners of 11 Highway 11 will be responsible to obtain all necessary approvals for the installation of water lines within the Oakwood Road right-a-way within the Township of Alberton from the Township of Alberton.**

Manager of Operations and Facilities

2021June9 Request for Water Service to 1735 Kings Highway.docx

May 13, 2021

44697-007 (MWL)

VIA EMAIL to Lisa Slomke (Municipal Clerk): lslomke@fortfrances.ca

The Town of Fort Frances
320 Portage Avenue
Fort Frances, ON P9A 3P9

Attention: Town Council, June Caul (Mayor), & Lisa Slomke (Municipal Clerk)

Dear Sirs and Mesdames,

Re: Application for Water Supply or Service from The Town of Fort Frances (the "Town") to 11 Highway 11/17, Alberton

We are the lawyers for 501801 Ontario Limited ("**Our Client**"). Our Client is the legal or beneficial owner of certain properties located in Alberton, Ontario and fronting on Oakwood Road and/or Highway 11/17, identified as PIN 56021-0439 ("**Property #1**"), PIN 56021-0734 ("**Property #2**"), PIN 56021-0030 ("**Property #3**"), and PIN 56021-0463 ("**Property #4**") (collectively, the "**Alberton Properties**"). Our Client is also the owner of 1735 Kings Highway in Fort Frances, identified as PIN 56020-0086 (the "**Fort Frances Property**"). A copy of the block map outlining the Alberton Properties and Fort Frances Property is attached to this letter.

The Alberton Properties are currently serviced by means of a private well, but Our Client is interested in the prospect of tapping into the Town's municipal water supply, as such a provision would help provide reliable, safe, and sufficient water supply for the years to come.

Accordingly, on behalf of Our Client, we wish to inquire as to the process for requesting an extension of municipal water services from the Fort Frances Property to the Alberton Properties through a water main extending from the Fort Frances Property to Property #1, for the benefit of all the Alberton Properties (the "**Proposed Extension**"). Our Client is willing to pay for the capital costs for installation of the necessary infrastructure and to be charged the same fees as non-resident accounts outside the Town limits.

carrel.com Suite 1, 1100 Roland Street | Thunder Bay, Ontario | P7B 5M4 | TEL (807) 346-3000 | FAX (807) 346-3600

We believe that the Proposed Extension is in the Town's best interests, as it provides additional revenue to the Town, without incurring the capital cost of installation. Furthermore, the Proposed Extension would be in line with existing agreements the Town has to provide services to properties outside of the Town's limits (e.g., to Couching First Nation Reserve, Rusty Myers Flying Service Ltd, Fort Frances Tribal Area Health Unit, and another nearby property on Oakwood Road.

We note that Our Client is currently in the process of seeking the necessary Official Plan amendment and approvals from the Corporation of the Township of Alberton.

Please contact the undersigned to advise whether the town is interested in the Proposed Extension. You may reach the undersigned directly at 807-346-3001, or by email at laatum@carrel.com.

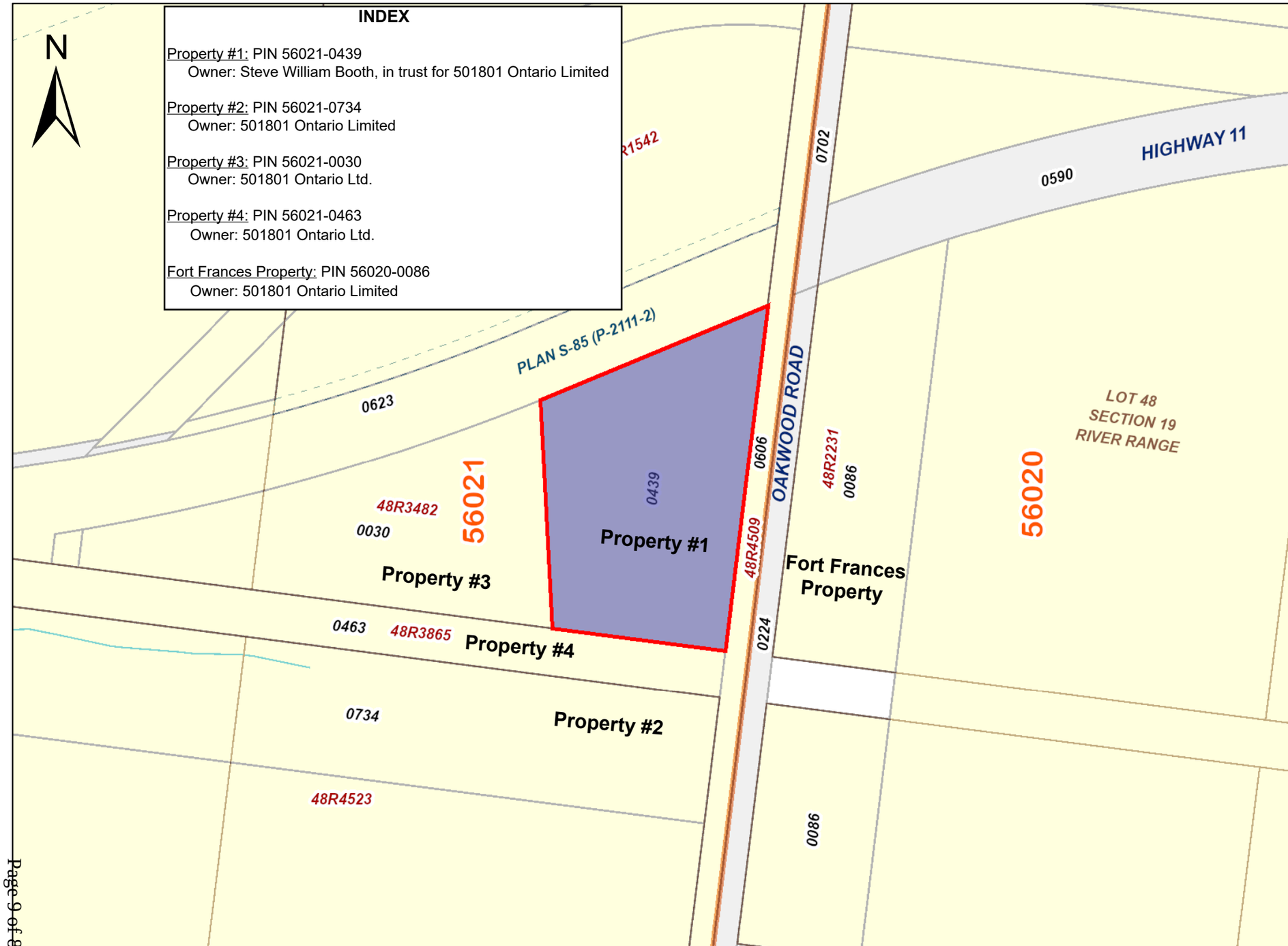
Yours truly,

CARREL+Partners LLP

Marc W. Laatu
laatum@carrel.com
MWL/jk

Encls: Map of Properties

cc. Client



ServiceOntario

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FOR MARCWL01

SCALE

0 30 60 90 meters

PROPERTY INDEX MAP

RAINY RIVER(No. 48)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED

Ontario

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June 9, 2021

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Award of Tender 21-OF-07 – HVAC Upgrades at the Memorial Sports Centre

The Town of Fort Frances recently advertised a tender for the replacement of a number of HVAC systems at the Memorial Sports Centre as part of the Revitalization Project being undertaken at that site.

The work will be extensive in this first phase HVAC work and will have the greatest impacts to not only the operations of that site, but in user experience. The replacements will address not only end of life asset replacement but changing of heating and cooling process as well as much improvement to the controls of these systems. Attached you will find a report from Mr. Adam Mitchell P.Eng., Asset Management Coordinator outlining the results of that tender.

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

1. That Tender 21-OF-07 be awarded to Tom Jones Corporation at a total tender price of $459,200.00 including $30,000.00 of contingency.
2. That an authorizing By-Law be prepared for Mayor and Clerk to execute the agreement on behalf of the Corporation.

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. **That Tender 21-OF-07 be awarded to Tom Jones Corporation at a total tender price of $459,200.00 including $30,000.00 of contingency.**
2. **That an authorizing By-Law be prepared for Mayor and Clerk to execute the agreement on behalf of the Corporation.**

Manager of Operations and Facilities

2021June9 Award of Tender 21-OF-07 MSC HVAC Upgrades.docx

May 31, 2021

Report To: Travis Rob

From: Adam Mitchell, P.Eng, Asset Management Coordinator

RE: Memorial Sports Centre HVAC Upgrades, ICIP Revitalization of the Memorial Sports Centre.

On May 18th, 2021, the Town of Fort Frances received proposals for tender 21-OF-07, Memorial Sports Centre HVAC Upgrades. The scope of this tender involves replacing the following;

- Replacement of Rooftop Air Handling Unit
- Replace Furnace and HRV
- Pool Dry-O-Tron Duct Heater

The existing rooftop AHU is being replaced as it currently only provides air conditioning for this section of the building. Heat is currently provided by a steam boiler. The current system is hard to control by having separate heating and cooling systems. The new unit will be much improved, switching from an existing electric unit to a more efficient natural gas unit and providing both AC and heat. This will benefit the facility by consuming less energy and improving user comfort. The furnace and HRV that currently condition the change rooms in 52 Arena will also be replaced with this project the HRV was robbed of useable parts and subsequently removed when the furnace became unusable. Included in this upgrade, is a complete redesign of the duct work throughout this 52 Canadians Change rooms. This upgrade will have noticeable affect on this space as the stale and often odours air will be eliminated, and the system will operate much more efficiently. Lastly, the pools Dry-O-Tron heater will be replaced, it is currently operating in a dilapidated state with orders from TSSA to replace.

As a result of this tender, the Town of Fort Frances received two proposals from Tom Jones Corporation and M Builds Ltd. A cost comparison of tender submissions is shown in the table below.

			Total Price	
Item	Roof	Units	Tom Jones	M Builds
1	Replacement of Roof Top AHU	L.S.	$ 187,200.00	$ 250,000.00
2	Furnace and HRV Installation	L.S.	$ 199,000.00	$ 250,400.00
3	Pool Dry-O-Tron Duct heater Replacement	L.S.	$ 43,000.00	$ 60,000.00
	Contingency Allowance		$ 30,000.00	$ 30,000.00
	Subtotal		$ 459,200.00	$ 590,400.00

Tom Jones Corporation submitted the lowest bid. An internal review of submissions was completed to ensure compliance and no issues were found for either party.

It is my recommendation that Tom Jones Corporation be contracted to complete the HVAC upgrades outlined in this tender for the Memorial Sports Centre for a total of $459,200.00.

Respectfully Submitted

Adam Mitchell, P.Eng
Asset Management Coordinator
RTC 21-OF-07 HVAC Upgrades MSC Recommendations.docx

June 9, 2021

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Award of RFP 21-OF-03 – Feasibility Study for the Consolidation of Ice plants at the Memorial Sports Centre

Recently the Town released a Request for Proposals looking for a firm to review the ice systems currently at the Memorial Sports Centre looking for opportunities for efficiencies to be utilized reducing the operating costs, easing maintenance, reducing future asset replacement liabilities, and reducing overall compressor horsepower such that operator certification requirements could be better met.

Attached is a report from Mr. Adam Mitchell P.Eng, Asset Management Coordinator outlining the received proposals. Given the work planned for the MSC in the coming years with the ICIP Funding received, this review is very timely and there is an urgency to complete the review such that additional design considerations can be made moving forward.

It is the recommendation of the Operations and Facilities Executive Committee that RFP 21-OF-03 be awarded to Stantec and further that an authorizing by-law be prepared allowing Mayor and Clerk to execute the agreement on behalf of the corporation.

Respectfully Submitted

Travis Rob, P.Eng

Council approval of this report will agree with the recommendation of the Operations and Facilities Executive Committee that RFP 21-OF-03 be awarded to Stantec and further that an authorizing by-law be prepared allowing Mayor and Clerk to execute the agreement on behalf of the corporation.

Manager of Operations and Facilities

2021June9 Award of RFP 21-OF-03 Ice Plant Consolodation.docx

May 31, 2021

Report To: Travis Rob

From: Adam Mitchell, P.Eng, Asset Management Coordinator

RE: Ice Plant Consolidation Study at the Memorial Sports Centre

On May 18th, 2021, the Town of Fort Frances received proposals for RFP 21-OF-03, Feasibility Study to Consolidate Ice Plants at the Memorial Sports Centre. The Ice Plants are the refrigeration systems used to cool the ice surfaces which allow the arena the ability to make ice. This process consumes a large amount of energy, and currently this facility has two plants, one to operate each ice surface.

The objective of this project is as follows:

- Consolidate the two ice plants into a single ice plant, or the reduction of the plants overall power rating.
- Eliminate the need for a full-time refrigerant license holder as required by the Province of Ontario Technical Standards and Safety Act, 2000 O.Reg. 219/01.
- Review and comment on the feasibility of waste heat capture from the new configuration.

As a result of this request for proposals, the Town of Fort Frances received two proposals from Stantec Consulting and JBB Consultants and Engineers Inc. A thorough review of both submittals was completed, and a scoring matrix was used to evaluate the proposals. The evaluation considered project understanding, past experience, key personnel, project cost and schedule. Upon review it was determined that Stantec Consulting displayed a comprehensive understanding of the project detailing similar past experience.

Stantec demonstrated a thorough understanding of the scope of work which is listed as the following:

- Advantages and disadvantages of a consolidated ice plant.
- Advantages and disadvantages of separate ice plants.
- Power ratings for a combined ice plant.
- Study into the ability to reduce the current power rating of the existing system.
- Recommended method of reducing the overall power rating of the plant to eliminate the operator requirement as outlined in O.Reg. 219/01.
- Proposed energy savings technologies and procedures.
- Estimated kilowatt hour and financial energy savings per utility based on the present unit rate costs.
- Class D cost estimate for implementation of the proposed reduction methods.

Stantec can begin this project immediately upon award. This is beneficial as this study can be completed in a timely manner allowing us to use this study to make future decisions on our 5-year Revitalization of the Memorial Sports Centre project.

Stantec's fees for completing this scope of work is $24,425.00 + HST. This cost is well within budget and lower than JBB Consultants bid of $31,785.00. JBB Consultants failed to show a thorough understanding of the project objectives and could not commence work until late Q3 of 2021.

It is my recommendation that Stantec Consultants be contracted to complete the Feasibility Study to Consolidate Ice Plants at the Memorial Sports Centre for a total of $24,425.00.

Respectfully Submitted

Adam Mitchell, P.Eng
Asset Management Coordinator

RTC 21-OF-03 Ice Plant Feasibility Study Recommendations.docx

June 9, 2021

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Sewer Rooting – Requests for Reimbursement

In March of 2020 as a result of the COVID-19 Pandemic the Town of Fort Frances, in an attempt to protect the health and safety of its staff and limit risk of exposure stopped all in house sewer and water works including sewer rooting activities. As a result, we had been directing any calls received at the Town of Fort Frances to local contractors to complete the works. Sewer rooting services were continued through the summer, however in December 2020 this service was again suspended as the cases of COVID-19 in the area spiked. In June 2020 two requests for reimbursement were received by Council allowed for the reimbursement of private sewer rooting services for the difference between the costs for the Town to complete the works ($117.40) and the actual invoice. In September two additional requests were considered where the same reimbursement was awarded to the property owners. In October 2020 two more requests were received with one property owner receiving reimbursement and the other being denied. In February 2021 one request was received and denied, in April 2021 there was another request denied and in May 2021 the last request which was granted where the Town paid the difference between $118.00 and the actual invoice.

Attached you will find a report from Mr. Craig Miller, P.Eng, Environmental Superintendent outlining an additional request for reimbursement for recent sewer rooting works completed by a local contractor. In this instance, the property owner has previously requested the Town reimburse for the costs and was awarded compensation. It continues to be Administration's recommendation that these costs should not be reimbursed.

The Operations and Facilities Executive Committee recommends the following:

1. That the private invoice for 713 Webster Avenue is not reimbursed as there is a long record of issues on the private side of the service and we can not confirm where the blockage was located.
2. That each case continues to be considered individually going forward.
3. And that only works completed during the service reduction period related specifically to COVID-19.

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. **That the private invoice for 713 Webster Avenue is not reimbursed as there is a long record of issues on the private side of the service and we can not confirm where the blockage was located.**
2. **That each case continues to be considered individually going forward.**
3. **And that only works completed during the service reduction period related specifically to COVID-19.**

Manager of Operations and Facilities

2021June9 Private Sewer Reimbursement7.docx

June 4, 2021

Report To: Travis Rob, P.Eng., Manager of Operations & Facilities

From: Craig Miller, P.Eng., Environmental Superintendent

SUBJECT: Sewer Rooting – Request for Reimbursement

On May 20th, the Town received a request from Ms. Lee-Anne Hines (713 Webster Avenue) for reimbursement of sewer rooting that they had done by Do-Rite Plumbing. The invoice is for $250 + $32.50 HST for a total bill of $282.50.

Do-Rite Plumbing (o/o by John Markus) indicated that the blockage was on the town side of the property line (60-70 feet) and that roots were the cause of the blockage.

The Town has previously processed a request from Ms. Hines for work completed by Do-Rite Plumbing on August 25, 2020. At that time, the blockage was noted to be 60-70 feet and that roots were the cause of the blockage. The invoice for this work was $226.00, including HST.

Due to Covid-19 work restrictions, Town employees are not entering private buildings for work, including sewer rooting. Because of the Covid-19 work restrictions, we have been referring work out to local plumbers.

Town Bylaw 06/16 speaks to sewer blockages caused by tree roots, as follows:

2.6 Blockage - tree roots - liability
Where a sewer service blockage is caused by tree roots and the tree is located on Town property, the Town may assume liability for costs involved in clearing such blockage. Where the tree is located on private property and causes the blockage of a sewer service then the Owner of the property shall be liable for all of the cost involved in clearing the blockage. The Engineer shall be the sole judge of the location of the problem and as to whether or not the Owner is to be charged with any of the cost.

2.19 Maintenance responsibility - service lateral - building sewer - charges When authorized by the property Owner the Town will perform maintenance work with respect to cleaning of the service lateral and/or building sewer only. The Owner or Authorized representative of the Owner shall give the Town written authorization to perform such work by executing the appropriate Work Requisition form. The charge for maintenance services shall be determined as follows:

a) A minimum service charge as outlined in the current Town's User Fee By-law will be charged to the Owner for maintenance services.

b) Where it is determined by the Town that the location of the obstruction is on the Owner's property all charges incurred, less the minimum service charge shall be paid by the Owner.

c) Where it is determined by the Town that the location of the obstruction is on the Town's property. This only applies to normal service laterals, property line to main (normally approximately ten (10) metres or thirty-three (33) feet) and not those made under special agreement with the Town. The Town may assume all costs for maintenance services to clear the blockage, except for the minimum service charge.

d) Where it is discovered that the service obstruction is the direct result of a person(s) discharging or depositing items, i.e. female hygiene products, paper towels, etc. other than those deemed normal every day usage, regardless of the location of the obstruction (Owner's or Town's property), the Owner shall be responsible for the costs of the work done to clear the obstruction.

When the Town's employees perform sewer rooting services, the following charges may be incurred (all based on work being done during normal working hours):

Minimum Charges (regardless of where the blockage is): $26.65

Minimum Charge if blockage is on owner's property or owner is at fault: $118.00 per hour. (A typical sewer rooting is a one-hour charge).

The town does not charge HST on sewer rooting work.

It is acknowledged that had the town performed the sewer rooting, based on the information on the invoice from Do-Rite Plumbing, the property owner would have been invoiced for the minimum amount of $26.65. Instead, the property owner was invoiced $282.50.

The Town adapted to the Covid-19 pandemic in March 2020 and imposed work restrictions to ensure the safety of Town employees. Not entering private buildings for sewer work was one of the restrictions implemented. Unfortunately, this restriction has meant that the Town has not been able to offer sewer rooting services unless the property has an outdoor cleanout.

Because the work was completed by private contractors, we cannot validate the location of the blockage, if any foreign materials were found or if roots were also encountered on the property owner's side of the property line.

713 Webster has a long history of plugged sewers. The property file has a record of 15 plugged sewers dating back to 1984. Six of the 15 plugged sewers were deemed to be on town's side of the property line with 9 on the private side of the property line.

A Google Street View picture of the property is attached.

It is my recommendation that the Town does not reimburse the property owner for their expenses incurred as a result of having their sewer service lines privately rooted by Do-Rite Plumbing.

Respectfully submitted,

Craig Miller, P.Eng.
Environmental Superintendent

Attached:

- Email correspondence between Town and Ms. Hines
- Invoice from Do-Rite Plumbing
- Imaging of 713 Webster Avenue
- Property File information of 713 Webster Avenue

Craig Miller

From: Lee-Anne Hines <sonshinesthroughme@hotmail.com>
Sent: Thursday, May 20, 2021 11:47 AM
To: Craig Miller
Subject: [External] Sewer line

[EXTERNAL] Don't click links or attachments unless you recognize the sender and know the content is safe. You can forward suspicious messages to support@fortfrances.ca.

Hello,

John Markus just unplugged our sewer line. The blockage was 60-70 feet out - tree roots. It was so far out that he had to go and get a larger auger; the first one he brought couldn't get the job done!

Lee-Anne Hines
713 Webster Avenue
Fort Frances, Ontario

JMARKUS@XPLORNET.CA
? WHAT IS THIS FOR
1 PLUMBING

OUR NUMBER 806393
DATE MAY 20 2021
CUSTOMER'S ORDER

SOLD TO LEE ANN HINES
ADDRESS 713 WEBSTER AVE
FORT FRANCES ONT

SHIP TO JOHN MARKUS
ADDRESS PO BOX 565
FORT FRANCES ONT
P9A 3M9

TAX REG. NO 899731410 | SALESPERSON | FOB | TERMS 14 DAYS | VIA

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	CLEAN-OUT MAIN SEWER LINE BLOCKAGE		250 00
	BLOCKAGE WAS OUT APPROX 60-70 FT MOSTLY ROOTS		
		HST	32 50
		TOTAL	282 50

Blueline DC172 INVOICE ©Blueline® 2010

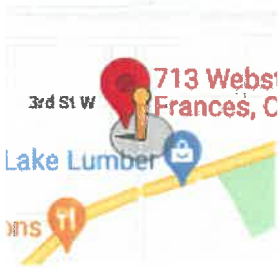
Google Maps 713 Webster Ave

Image capture: Jun 2012 © 2021 Google

Fort Frances, Ontario

Google

Street View



MAINTENANCE RECORD

ADDRESS: 713 WEBSTER AVENUE

DATE	REMARKS
June 25/84	Unplug sewer - blockage at 33' with roots
MAY 26/97	CLEAN PLUGGED SEWER - ROOTS 45'-50' - N/C
MAY 15/00	" " " - " 45' - N/C
AUG 9/00	CALLED FOR PLUGGED SEWER - SEWER OK. - RAIN WATER IN BASEMENT.
JUNE 2/06	cleaned plugged sewer - blockage @ main (tree roots) - N/C.
AUG 9/12	CLEANED PLUGGED SEWER - ROOTS 20-40' FROM c/o UNDER DRYER
APR 22/13	CLEANED PLUGGED SEWER FROM c/o IN BASEMENT → ROOTS 70-100 FT
JULY 25/14	CLEANED PLUGGED SEWER - ROOTS/WIPES
JULY 25/14	TRACED SEWER SERVICE
MAY 4/15	CLEANED PLUGGED SEWER - ROOTS @ 35' FROM c/o

DATE	REMARKS
May 24/16	Blockage at 65 ft. Roots back on site
OCT 2/17	PLUGGED SEWER - ROOTS @ 42FT
May 22/18	Plugged Sewer - Blockage @ 44-48 Ft.
APRIL 10/19	PLUGGED SEWER - ROOTS @ 46FT
Nov 18/19	PLUGGED SEWER - ROOTS @ 35FT

June 9, 2021

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Request from Belluz Concrete for waste fill

The Town of Fort Frances has a policy relating to the sale of waste fill to the private sector, however, has not been in a position to do so in many years. The policy has been attached to this report for Council's review.

Belluz Concrete and Rental has submitted a request for waste fill from the Kings Highway Road Reconstruction to facilitate the construction of a new shop on their site along that road segment, see request attached.

All divisions have been asked about their fill needs as we all use the material we pull off roadworks for various capital projects. Below are some noteworthy projects that we have on the go or planned for the near future:

- Erin Crescent Lot Grading
- MSC 52 Canadians Arena under bleacher storage
- Nurses station demolition
- Point Park Redevelopment
- Shevlin Yard Redevelopment
- Landfill Cover (ongoing)

The Town has a fair amount of material stockpiled as of right now due to the high amount of roadworks completed in 2020, however annual material stockpiling is hard to determine. In addition, a new waste fill regulation will drastically change how and what we can stockpile, but more specifically our ability to sell the fill to other parties starting in 2022 and an amended policy will be brought forward to Council prior to the end of 2021. The Point Park will require a great deal of fill to bring up the grades such that there is positive drainage across that entire property and the site can begin to be redeveloped. Until we have completed the Record of Site Condition process, we are not sure exactly how much soil remediation will be needed at Shevlin Yard, further once we have a grading plan completed we will know how much of that area will be filled and how much will be cut.

Until more is known about some of the projects upcoming such as Shevlin yard and the Point, it is the recommendation of the Operations and Facilities Executive Committee that no fill be sold to the private sector.

Respectfully Submitted

Travis Rob, P.Eng

Council approval of this report will agree with the recommendation of the Operations and Facilities Executive Committee that no fill be sold to the private sector.

Manager of Operations and Facilities

2020June9 Belluz Fill Request.docx

The Town of Fort Frances	**SECTION** OPERATIONS AND FACILITIES
DEVELOPMENT FILL **POLICY**	**REVISED** February 2003
Resolution No.	Supercedes Resolution No.
Policy Number 4.12	**PAGE 1 of 2**

1. POLICY STATEMENT

The Town of Fort Frances may make fill available to developers in order to facilitate a deal.

2. EFFECTIVE DATE

This policy comes into effect on February 18, 2003 and cancels and supercedes all previous Development Fill policies.

3. GUIDELINES

A. The developer has a bona fide plan, via letter of intent.

B. The developer has a definite construction start date. For example, the spring of the current year.

C. The project will directly impact the economic base of Fort Frances, such as significant taxes or employment creation.

D. The developer agrees to move fill on site, at his / her own expense, and to agree with Public Works delivery time and will only be moved according to Public Works time frames.

E. The fill is made available on an 'as is' basis and the developer will accept the environment liability for the fill.

F. The developer commits to maintaining an orderly and neat site following construction.

G. If few jobs are to be created and / or the tax assessment is low, then the project must be significant effect on the local economy as a whole i.e. numerous businesses must benefit from the project being provided the fill.

H. The fill will be sold at a rate of $35.00 plus taxes per load to commercial / industrial developers who are developing land purchased from the Town, or a private sector developer, if they are committed to building within one year. The amount of fill should generally be limited to a maximum of 20 truckloads. This price is to be reviewed annually.

I. As with all industrial / commercial lost now being sold by the Town of Fort Frances, the surplus fill is to be used to bring lots to within 6” of grade, grade being the height of the centre of the road.

J. The fill available in any given year will be determined using a consultative process between Parks and Cemeteries, Public Works, and the Rainy River Future Development Corporation.

K. Should the development not take place or the land sold, the developer will pay for the fill at a predetermined fair market value, which will be mutually agreed upon prior to the delivery of any fill. The developer will sign a contract with the Town outlining this rate and the time period for development to occur prior to being charged.

Letter of Intent for Construction Project

Belluz Concrete and Rentals LTD
1530 Kings Hwy
Fort Frances, On

May 1, 2021

It is our intention to start construction of a building in the spring of 2022.

Due to the current shortage of inventory and rising material prices we are pausing construction until prices stabilize and it is economically feasible for us to continue with the project.

We believe the construction of this new building will greatly impact the economic development of our town, as we will be able to offer a broader range of precast products which requires a larger workforce.

Robert Belluz

President
Belluz Concrete and Rentals LTD.

June 9, 2021

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Request from the Fort Frances Sportsman's Club for waste fill

A letter dated May 5, 2021 was received at the May 17, 2021 meeting of Council and was subsequently referred to the Operations and Facilities Executive Committee. The Town of Fort Frances has a policy relating to the sale of waste fill to the private business sector, however, no policy on sale to a non-profit entity.

The Fort Frances Sportsmen's Club has submitted a request for waste fill from the 2021 Road Reconstruction projects to facilitate the enhanced safety of their pistol range. The Fort Frances Sportsmen's Club pistol range is used for training and safe practice of shooting buy not only local members but the OPP and Customs officers.

All divisions have been asked about their fill needs as we all use the material, we pull off roadworks for various capital projects. Below are some noteworthy projects that we have on the go or planned for the near future:

- Erin Crescent Lot Grading
- MSC 52 Canadians Arena under bleacher storage
- Nurses station demolition
- Point Park Redevelopment
- Shevlin Yard Redevelopment
- Landfill Cover (ongoing)

The Town has a fair amount of material stockpiled as of right now due to the high amount of roadworks completed in 2020, however annual material stockpiling is hard to determine. In addition, a new waste fill regulation will drastically change how and what we can stockpile, but more specifically our ability to sell the fill to other parties starting in 2022 and an amended policy will be brought forward to Council prior to the end of 2021. The Point Park will require a great deal of fill to bring up the grades such that there is positive drainage across that entire property and the site can begin to be redeveloped. Until we have completed the Record of Site Condition process, we are not sure exactly how much soil remediation will be needed at Shevlin Yard, further once we have a grading plan completed, we will know how much of that area will be filled and how much will be cut.

Until more is known about some of the projects upcoming such as Shevlin yard and the Point, it is the recommendation of the Operations and Facilities Executive Committee that no fill be sold to the private sector.

Respectfully Submitted

Travis Rob, P.Eng

Council approval of this report will agree with the recommendation of the Operations and Facilities Executive Committee that no fill be sold to the private sector.

Manager of Operations and Facilities

2021June9 Sportsmens club Fill Request.docx

Mayor and Council 05/05/2021

Town of Fort Frances

Your Worship,

My name is Chris Bonner-Vickers, I am the Vice President of the Fort Frances Sportsmen's Club. Our membership is made up of men, women and children from our district who have an active interest in conservation and outdoor sports.

In recognition of the increased popularity of competition shooting, our local club has decided that we would like to enhance our pistol range to allow us to host competitive handgun shooting events. Several other communities in Northwestern Ontario hold matches, bringing in qualified shooters from other communities across the north and beyond. Not only would the required fill qualify our club to hold these competitive matches, but the economic spinoffs would benefit the town. Those attending would be staying, shopping and dining at our local businesses.

Our current hurdle is the requirement of fill to enlarge our safety berms. As the town has a few capital projects underway, we are requesting that the aggregate/fill being removed and taken to the town dump be diverted to the Fort Frances Sportsmen's Club property at the corner of McIrvine Road and Frog Creek Road so that it can be used as safety berm material. We appreciate that the town has a "fill policy" but we do have a budget for our project.

I am available to answer any questions and look forward to hearing from you regarding this project.

Thank you for consideration in this request.

Respectfully,

C. Bonner-Vickers

VP FFSC

(807)274-0472

June 9, 2021

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Purchase of Standby Generator for the Wastewater Treatment Plant

The Town of Fort Frances engaged TBT Engineering back in 2020 to undertake the design of a standby power system for the Town Wastewater Treatment Plant. In early 2021 a design was completed and after a review a request for quotations was sent out to three venders under the LAS Group Capital Purchasing Program. The quotations were to include a new 1000 kW diesel standby power unit complete with walkways for access, base mounted fuel tank, and on-site load bank.

With this unit there are a number of regulatory requirements to meet for the unit to be certified as a stand-by power system. One key parameter is noise emissions where the unit can not exceed 75dBA at 7m. The three quotations received are summarized below.

Vendor	Price	Noise Rating at 7m	Delivery
Cummins	$400,733	75.3 dBA	20 – 21 Weeks
Prichard Power (Kohler)	$402,400	76 dBA	28 – 29 Weeks
Toromont CAT	$492,624	75 dBA	29 – 31 Weeks

None of the vendors were fully compliant with the Request for Quotation and attached to this report is a detailed quotation review by TBT Engineering for the three venders. None of the non compliances are insurmountable in nature other than the requirement on sound transmission. This is a Ministry of the Environment Conservation and Parks requirement and the process to request a special Environmental Compliance Certificate to facilitate a unit with higher sound is lengthy, costly and the success given the implications of neighboring residential and institutional properties as well as international properties is unsure. This means that CAT is the only unit meeting this important requirement and compliant. In addition the CAT unit comes with the best warranty of the three.

Being that the standby power unit is over the $35,000 limit for tendering per our procurement policy, but because the tendering has already been completed by LAS, a full tender did not have to be prepared for this purchase. Given that appropriate wording has not yet been included in our procurement policy as this policy is currently under review by Administration, in accordance with the Administration report dated April 8, 2020, a report is being brought forward to document the purchase.

The Town budgeted a total of $625,800 for the entire project and given the total cost for the standby power unit, it is felt that there will be suitable funds left for the remainder of the installation. Once a unit has been selected TBT Engineering will be able to finalize the structural slab design and electrical design. The Town will be tendering separately for the remainder of the installation works in the near future.

It is the recommendation of the Operations and Facilities Executive Committee that the standby power unit for the Town of Fort Frances Wastewater Treatment Plant be purchased from Toromont CAT for a total price of $492,624.

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 standby power unit for the Town of Fort Frances Wastewater Treatment Plant be purchased from Toromont CAT for a total price of $492,624.

Manager of Operations and Facilities

2021June9 Purchase of Standby Power Unit for WWTP.docx

June 7, 2021 Project#:20-559

TO: Travis Rob – Manager of Operations & Facilities

Project: Fort Frances Sewage Plant Generator

The following is a review of the Cummins submittal for the RFQ issued on April 26, 2021 for the supply, delivery, testing and commissioning of a standby power system for the Fort Frances Wastewater Treatment Plant.

General

1. Specification 26 32 14 (3.11.1). Cummins enclosure is provided with sound level of 75.3 dBA at 7 meters. This is not acceptable. The unit must comply with 75dBA at 7 meter requirement to meet MOE.

2. Warranty Offered: Two year - 1000 hour basic limited warranty. Specification 26 32 14 requests 2 year – 1500 hour basic limited warranty.

3. Load bank offered is ASCO 4800 which is not compliant to Specification 26 32 14 (3.12).

4. Specification 26 32 14 (2.9.3). Battery charger must be 20 amps. 10 amp battery charger not accepted.

5. Site-Off Loading: The 2nd paragraph of the RFQ states "*The supplier is to supply and install the generator unit onto the concrete slab including all related equipment"*. Cummins bid states on-site off loading by others. Cummins to adjust their bid to include the installation of equipment (generator, fuel tank and load bank).

6. Price Quoted: $400,733.00 + Taxes

CUMMINS REVIEW OF SUBMITTAL

The following is a review with comments for the Cummins submittal received May 25, 2021.

Item 1 - ATS

1. If Cummins equipment is chosen provide Engineering Submittals for ATS as described in Specification Section 26 36 23 (2.4).

Item 2 - Generator

1. Confirm the generator unit is, at a minimum, Tier 1 compliant in terms of air emissions as set out in Table 1 of 40 CFR 89.112.

2. Confirm the generator meets the following requirement;

   "Each exhaust stack that is part of the standby power system and that may discharge a product of combustion from the system into the air is orientated vertically"

3. If Cummins equipment is chosen provide Engineering Submittals for generator as described in Specification Section 26 32 23 14 (1.4).

4. Quote states the battery charger will be 12 amps regulated. Provide a 20 amp battery charger as stated in Specification Section 26 32 14 (2.9.3).

Item 3 – Fuel Tank

1. If Cummins equipment is chosen provide a detailed dimensional drawing of the fuel tank.

2. Confirm the fuel tank complies with all TSSA and CSA requirements.

3. Confirm all requirements for the fuel tank listed in Specification Section 26 32 14 (3.10) are.

4. Provide details on the Fuel Fill Alarm system.

Items 4,5,6,7,8,9

1. No Comment

Item 10

1. Provide detailed drawing of platforms.

Item 11

1. ASCO 4800 proposed by Cummins.

2. Non-compliances include;

   a. ASCO 4800 constructed of heavy gauge aluminum in lieu of heavy gauge coated steel as per Specification 26 32 14 (3.12.10).

b. ASCO 4800 is not mounted on stand as per information provided. Specification 26 32 14 (3.12.9) states load bank shall have mounting legs of a length that is higher than the average snow height experienced in Fort Frances.

c. Specification 26 32 14 3.12.12 and 3.12.12 state unit is to have horizontal airflow and exhaust hood to be angles downward. ASCO 4800 does not comply.

3. Provide details of the control units functionality.

4. <u>The load bank offered by Cummins is non-compliant to Specification.</u>

<u>Item 12</u>

1. Provide details and or schematic indicating function of the 50kVA isolation transformer.

<u>Item 14</u>

1. Commissioning must include building load as detailed in Specification 26 32 14 (4.4.2 and 4.4.3).

2. As part of the test the functionality of the load bank shall be demonstrated (Specification 3.12.6 and 3.13.7).

<u>List of Clarification/Deviation/Exception</u>

1. Specification 26 32 14 (2.9.3). Battery charger must be 20 amps. 10 amp battery charger not accepted.

2. Specification 26 32 14 (3.7.2). One emergency shutdown pushbutton not provided. This is acceptable. Please provide part number of recommended emergency shutdown pushbutton.

3. Specification 26 32 14 (3.11.1). Cummins enclosure is provided with sound level of 75.3 dBA at 7 meters. This is not acceptable. The unit must comply with 75dBA at 7 meter requirement to meet MOE.

4. Specification 26 32 14 (3.11.11). Provide details and or schematic indicating function of the 50kVA isolation transformer.

5. Specification 26 32 14 (3.12). Refer to Item 11 above.

5. Specification 26 32 14 (4.3). Warranty Offered: Two year - 1000 hour basic limited warranty. Specification 26 32 14 requests 2 year – 1500 hour basic limited warranty.

Notes

1. Site-Off Loading: The 2nd paragraph of the RFQ states "*The supplier is to supply and install the generator unit onto the concrete slab including all related equipment"*. Cummins bid states on-site off loading by others. Cummins to adjust their bid to include the installation of equipment (generator, fuel tank and load bank).

2. Quote states 150A/208v 3 phase load-center is required to accommodate all heaters, lights, receptacles and battery charger. The power requirement for the load-center seem exorbitant. Please provide power requirement details on all loads to be connected to the load-center.

END OF CUMMINS REVIEW

June 7, 2021 Project#:20-559

TO: Travis Rob – Manager of Operations & Facilities

Project: Fort Frances Sewage Plant Generator

The following is a review of the Pritchard submittal for the RFQ issued on April 26, 2021 for the supply, delivery, testing and commissioning of a standby power system for the Fort Frances Wastewater Treatment Plant.

General

1. Specification 26 32 14 (3.11.1). Pritchard enclosure is provided with sound level of 76 dBA at 7 meters. This is not acceptable. The unit must comply with 75dBA at 7 meter requirement to meet MOE.

2. Warranty Offered: Three year - 1000 hour basic limited warranty. Specification 26 32 14 requests 2 year – 1500 hour basic limited warranty.

3. Load bank offered is ASCO 4600 which is not compliant to Specification 26 32 14 (3.12).

4. Site-Off Loading: The 2nd paragraph of the RFQ states "*The supplier is to supply and install the generator unit onto the concrete slab including all related equipment"*. Pritchard bid states offloading at site is not included. Pritchard to adjust their bid to include the installation of equipment (generator, fuel tank and load bank).

5. Price Quoted: $402,400.00 + Taxes

PRITCHARD REVIEW OF SUBMITTAL

Engine

1. Confirm the generator unit is, at a minimum, Tier 1 compliant in terms of air emissions as set out in Table 1 of 40 CFR 89.112.

2. Confirm the generator meets the following requirement;

   "Each exhaust stack that is part of the standby power system and that may discharge a product of combustion from the system into the air is orientated vertically".

Alternator

1. No Comment.

Digital Genset Controller

1. No Comment.

Winterized Sound Enclosure

1. Specification 26 32 14 (3.11.1). Pritchard enclosure is provided with sound level of 76 dBA at 7 meters. This is not acceptable. The unit must comply with 75dBA at 7 meter requirement to meet MOE.

2. Quote states 200A/208v 3 phase load-center is required to accommodate all heaters, lights, receptacles and battery charger. The power requirement for the load-center seem exorbitant. Please provide power requirement details on all loads to be connected to the load-center.

Fuel Tank

1. If Pritchard equipment is chosen provide a detailed dimensional drawing of the fuel tank.

2. Confirm the fuel tank complies with all TSSA and CSA requirements.

3. Confirm all requirements for the fuel tank listed in Specification Section 26 32 14 (3.10) are.

4. Provide details on the Fuel Fill Alarm system.

Features

1. 600A 100% rated load to be complete with shunt trip Specification 26 32 14 (3.3.1).

Additional Features

1. Provide detailed drawing of platforms.

Load Bank

1. ASCO 4600 proposed by Pritchard.

2. Non-compliances include;

    a. ASCO 4600 constructed of heavy gauge aluminum in lieu of heavy gauge coated steel as per Specification 26 32 14 (3.12.10).

b. ASCO 4600 is not mounted on stand as per information provided. Specification 26 32 14 (3.12.9) states load bank shall have mounting legs of a length that is higher than the average snow height experienced in Fort Frances.

c. Specification 26 32 14 3.12.12 and 3.12.12 state unit is to have horizontal airflow and exhaust hood to be angles downward. ASCO 4600 does not comply.

3. Provide details of the control units functionality.

4. <u>The load bank offered by Pritchard is non-compliant to Specification.</u>

<u>Transfer Switch</u>

1. No Comment.

<u>Factory Testing</u>

1. No Comment

<u>Onsite Testing</u>

1. Commissioning must include building load as detailed in Specification 26 32 14 (4.4.2 and 4.4.3).

2. As part of the test the functionality of the load bank shall be demonstrated (Specification 3.12.6 and 3.13.7)

<u>General Notes</u>

1. <u>Site-Off Loading</u>: The 2nd paragraph of the RFQ states "*The supplier is to supply and install the generator unit onto the concrete slab including all related equipment"*. Pritchard bid states offloading at site is not included. Pritchard to adjust their bid to include the installation of equipment (generator, fuel tank and load bank).

2. Provide specific details of external piping, wiring, and mechanical connections to be done by others.

END OF PRITCHARD REVIEW

June 7, 2021 Project#:20-559

TO: Travis Rob – Manager of Operations & Facilities

Project: Fort Frances Sewage Plant Generator

The following is a review of the Toromont submittal for the RFQ issued on April 26, 2021 for the supply, delivery, testing and commissioning of a standby power system for the Fort Frances Wastewater Treatment Plant.

General

1. Toromont is stating that the unit complies with sound level requirement of 75dBA at 7 meters.

2. Warranty Offered: Five year - 2500 hour basic limited warranty. Specification 26 32 14 requests 2 year – 1500 hour basic limited warranty.

3. No details on load bank provided. Until details provided, non-compliant.

4. Specification 26 32 14 (2.9.3). Battery charger must be 20 amps. 10 amp battery charger not accepted.

5. Site-Off Loading: The 2nd paragraph of the RFQ states "*The supplier is to supply and install the generator unit onto the concrete slab including all related equipment"*. Toromont bid states site off-loading, positioning and installation by others. Toromont to adjust their bid to include the installation of equipment (generator, fuel tank and load bank).

6. Price Quoted: $492,624.00 + Taxes

TOROMONT REVIEW OF SUBMITTAL

Cooling System

1. No comment.

Air System

1. No Comment.

Fuel System

1. If Toromont equipment is chosen provide a detailed dimensional drawing of the fuel tank.

2. Confirm the fuel tank complies with all TSSA and CSA requirements.

3. Confirm all requirements for the fuel tank listed in Specification Section 26 32 14 (3.10) are.

4. Provide details on the Fuel Fill Alarm system.

Mounting System

1. No Comment.

Enclosure

1. The compliance to noise level of 75dBA at 7 meters is noted. The unit must comply with this requirement to meet MOE.

Finish

1. No Comment.

Starting System

1. Specification 26 32 14 (2.9.3). Battery charger must be 20 amps. 10 amp battery charger not accepted.

Generator

1. Confirm the generator unit is, at a minimum, Tier 1 compliant in terms of air emissions as set out in Table 1 of 40 CFR 89.112.

2. Confirm the generator meets the following requirement;

   "Each exhaust stack that is part of the standby power system and that may discharge a product of combustion from the system into the air is orientated vertically".

Circuit Breaker(s) (Unit Mounted)

1. Breaker #2 must be complete with shunt trip.

Controls

1. No Comment.

Relay Outputs

1. Three relay outputs minimum are required as per Specification 26 32 14 (3.15.1).

Shop Test

1. No Comment.

Site Test and Site Work

1. Commissioning must include building load as detailed in Specification 26 32 14 (4.4.2 and 4.4.3).

2. As part of the test the functionality of the load bank shall be demonstrated. Specification 26 32 14 (3.12.6 and 3.13.7)

Clarifications and Exceptions to this bid

1. Site-Off Loading: The 2nd paragraph of the RFQ states "*The supplier is to supply and install the generator unit onto the concrete slab including all related equipment"*. Toromont bid states site off-loading, positioning and installation by others. Toromont to adjust their bid to include the installation of equipment (generator, fuel tank and load bank).

2. Load Tests: Load tests to be completed using building load and provided load bank. Specification 26 32 14 (3.12.6 and 3.13.7)

3. Battery Charger: Specification 26 32 14 (2.9.3). Battery charger must be 20 amps. 10 amp battery charger not accepted.

4. Load Bank Circuit Breaker: To be complete with shunt trip.

5. Specification 26 32 14 (3.11): Provide receptacle.

6. Specification 26 32 14 (3.12) Load Bank: Without specification sheet and general arrangement drawing the load bank cannot be approved.

END OF TOROMONT REVIEW

June 4, 2021

Report To: Mayor & Council

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

SUBJECT: March 2021 Drinking Water Systems Monthly Summary Report

Please find attached the March 2021 Summary Report on the drinking water systems, prepared by Greg Wiedenhoeft, WTP Operator-in-Charge.

Your Administration recommends that Operations & Facilities Executive Committee accept the March 2021 report as presented.

Respectfully submitted,
Operations & Facilities Division

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

Council approval of this report will accept the March 2021 report prior to it being made available to the general public.

cc – Craig Miller, P.Eng., Environmental Superintendent
Greg Wiedenhoeft, WTP Operator-in-Charge

March 2021

Monthly Summary Report
Water Systems

Prepared By: Greg Wiedenhoeft, ORO
Senior Water Treatment Plant Operator

Dated: April 5, 2021

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of March 2021 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 March Usage 6.5 m3

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

Water Treatment Plant (treated): 5 samples taken no adverse results
Water Treatment Plant (raw): 5 samples taken no adverse results
Water Distribution System: 20 samples taken where 25% of samples were tested for heterotrophic plate count (HPC) – with one adverse water quality incident.

One Adverse Sample from 1330 Woodward St. Re-sampled one upstream and one at 1330 Woodward St. per MECP requirements, with 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. 835 Mckenzie Ave.	2. 401 Kings Hwy.	3. 900 Wright Ave.	4. W. Tower
5. 1227 Fifth St. E.	6. 740 Sixth St. W.	7. 617 Mowat Ave.	8. W. Tower
9. 218 Third St. E.	10. 900 Wright Ave.	11. 943 Third St. E.	12. W. Tower
13. 1330 Woodward St.	14. 1309 Kings Hwy.	15. 900 Wright Ave.	16. W. Tower
17. 218 Third St. E.	18. 401 Kings Hwy.	19. 900 Wright Ave.	20. W. Tower

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

New drinking water system put online 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 March 16, 2021 – 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 online August 01, 2017. No treatment required as the Airport groundwater well tested negative for bacteria.

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

Mar 03rd -Cleaned troughs on clarifier # 1.
-Cleaned flumes on filters.

Mar 04th - Cleaned top and bottom tanks on the poly unit.
-Cleaned all 4 check valves on the poly unit.

Mar 09th -Cleaned and inspected clarifier # 1.

Mar 11th - Cleaned top and bottom tanks on the poly unit.
-Cleaned all 4 check valves on the poly unit.

Mar 12th -Calibrated distribution Chlorine analyzer.

Mar 15th -Cannect Electric here working on the boiler.
-Calibrated distribution Chlorine analyzer.

Mar 17th -Greased Clarifier # 2 chains.

Mar 19th - Cleaned top and bottom tanks on the poly unit.
-Cleaned all 4 check valves on the poly unit.

Mar 23rd -Flushed settled sample pump line.

Mar 25th - Cleaned top and bottom tanks on the poly unit.
-Cleaned all 4 check valves on the poly unit.

8) **Water Complaints:**

- Poor Pressure – 0 complaints.
- Water quality – 1 complaint.
- 1018 Colonization Rd. W. **High chlorine** - took two samples and both numbers were normal.

9) **Other Miscellaneous Information:**

Mar 1st -Routine micro sample collection.

Mar 08th -Routine micro sample collection.

Mar 09th -Water main repair sample on 200 block of Crowe 1st set.
-Received a load of Alum

Mar 10th -Water main repair sample on 200 block of Crowe 2st set.

Mar 15th -Routine micro sample collection.

Mar 16th -Took annual samples at the Plant and Tower
-Took T.S.S. Samples off Filter #1.
-Took quarterly samples at the Plant and Tower

Mar 22nd -Routine micro sample collection.

Mar 23rd -Water service repair sample 1003 Colonization Rd. W.

Mar 25th. -Re-sample for adverse at 1330 Woodward St.

Mar 26th -Ran standby generator for 1 hour.
-Took grab samples off the filters.
-Calibrated Fluoride analyzer.

Mar 29th -Routine micro sample collection.

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:

- Greg Wiedenhoeft, ORO, Senior WTP Operator: Greg Wiedenhoeft
  Greg Wiedenhoeft (Jun 4, 2021 11:00 CDT)
- Craig Miller, P.Eng. Environmental Superintendent: _____
- Travis Rob, P.Eng. Manager of Operations & Facilities: _____
- Acting CAO: Dawn Galusha
  Dawn Galusha (Jun 4, 2021 13:24 CDT)
- 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 Greg Wiedenhoeft, Overall Responsible Operator at 274-2325.

Town of Fort Frances - Water treatment Plant - Water Works # 220000978
Monitoring Record
Mar-21

Operating Data	Units	*MAC or Range	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
Flow rates																																			
Raw Water	1000 m^3	17	5.16	5.02	5.00	5.00	5.03	4.97	4.98	5.05	**5.20**	4.96	5.00	5.00	4.91	4.94	4.99	5.05	5.02	5.00	5.01	4.95	5.00	5.06	5.00	5.02	5.03	5.03	**4.90**	5.03	5.13	**4.90**	4.96	155.30	5.01
Peak Instantaneous - Raw Water	l/s	n/a	58.51	58.55	58.53	58.60	58.55	**58.46**	58.54	58.54	58.50	**61.81**	58.53	61.72	58.90	58.78	58.63	58.69	58.67	58.65	58.65	58.66	58.60	58.56	58.64	58.65	58.64	58.68	58.65	58.69	58.68	58.71	58.53		58.82
Treated Water	1000 m^3	17	3.69	3.62	3.66	3.59	3.62	3.70	3.21	3.75	**5.53**	3.73	3.60	3.38	3.37	3.53	3.60	3.19	3.48	3.49	3.07	3.42	3.51	3.28	3.44	3.50	3.17	3.51	**2.90**	3.52	3.33	3.32	3.41	109.12	3.52
Peak Instantaneous - Treated Water	l/s	n/a	63.38	62.77	63.40	63.44	63.39	62.85	63.56	63.27	**66.02**	65.24	63.51	62.40	63.48	62.52	62.46	63.51	63.25	62.96	62.85	63.09	63.07	62.55	63.20	63.31	62.24	62.82	63.00	**61.68**	62.84	64.20	63.28		63.21
BackWash Water	1000 m^3	n/a	0.28	0.27	0.25	0.28	0.27	0.25	0.29	0.27	0.25	0.28	0.27	0.26	0.29	0.27	0.26	0.29	0.27	0.26	0.28	0.27	0.26	0.28	0.27	0.25	0.29	0.27	0.21	0.29	0.27	0.250	0.280	8.332	0.269
Fluoride Information																																			
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.62	0.62	0.62	0.63	0.63	0.63	0.64	0.64	0.64	0.64	0.64	0.64	0.66	0.66	0.65	0.56	0.55	0.61	0.61	0.58	0.62	0.62	0.57	0.69	0.64	0.68	0.70	0.71	0.65	0.66	0.64		0.63
Turbidity Information																																			
Raw Water	NTU	n/a	0.54	0.35	0.48	0.49	0.44	0.52	0.47	0.46	0.41	0.44	0.46	0.55	0.54	0.49	0.56	0.62	0.47	0.51	0.63	0.63	0.68	0.60	0.63	0.61	0.66	0.67	0.70	0.68	0.70	1.15	0.96		0.58
Settled Water	NTU	n/a	0.11	0.09	0.07	0.11	0.09	0.13	0.11	0.14	0.14	0.12	0.14	0.14	0.13	0.14	0.35	0.32	0.42	0.25	0.16	0.16	0.09	0.11	0.08	0.10	0.09	0.11	0.12	0.11	0.07	0.13	0.17		0.15
Treated Water	NTU	1	0.06	0.06	0.07	0.09	0.05	0.01	0.01	0.01	0.07	0.03	0.08	0.07	0.05	0.05	0.06	0.10	0.13	0.10	0.08	0.04	0.03	0.05	0.11	0.09	0.08	0.10	0.08	0.08	0.06	0.10	0.10		0.07
Other Operating Parameters																																			
pH - Treated Water	no units	6.5 to 8.5	7.21	7.17	7.28	7.18	7.22	7.26	7.28	7.17	7.18	7.07	7.15	7.41	7.17	7.14	7.08	7.34	7.32	7.20	7.20	7.25	7.25	7.21	7.24	7.27	7.24	7.22	7.15	7.18	7.37	7.32	7.29		7.23
pH - Settled water	no units	n/a	6.39	6.47	6.60	6.37	6.37	6.43	6.37	6.40	6.44	6.40	6.40	6.49	6.38	6.43	6.45	6.44	6.37	6.41	6.41	6.37	6.33	6.29	6.49	6.53	6.43	6.38	6.33	6.36	6.40	6.43	6.39		6.41
pH - Raw Water	no units	n/a	7.08	7.10	7.16	7.11	7.15	7.08	7.16	7.16	7.10	7.09	7.12	7.00	7.06	7.01	6.99	7.02	6.99	7.01	7.00	7.05	7.06	7.06	7.09	7.14	7.18	7.10	7.13	7.09	7.08	7.16	7.09		7.08
FAC - Treated Water	mg/l	0.2 to 4	2.16	2.11	2.28	2.28	2.12	2.12	2.11	2.11	2.24	2.14	2.23	2.18	2.11	2.10	2.15	2.08	2.07	2.11	2.20	2.12	2.10	2.08	2.09	2.09	2.11	2.17	2.15	2.17	2.15	2.13	2.20		2.14
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.36	2.48	2.38	2.66	2.26	2.50	2.22	2.56	2.74	2.52	2.62	2.48	2.36	2.38	2.68	2.38	2.54	2.36	2.40	2.38	2.42	2.34	2.38	2.40	2.56	2.48	2.38	2.42	2.36	2.36	2.42		2.44
Temperature	°C	15	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		3.3
Fluoride used (Total Daily Consumption)	kg	n/a	18.0	17.0	18.0	17.0	18.0	17.0	17.0	17.0	17.0	16.0	17.0	16.0	16.0	16.0	16.0	17.0	15.0	16.0	16.0	15.0	15.0	15.0	16.0	18.0	18.0	18.0	17.0	18.0	18.0	17.0	17.0	519.00	16.7
Chlorine used (Total Daily Consumption)	kg	n/a	19.0	19.0	18.0	19.0	18.0	18.0	19.0	18.0	20.0	18.0	18.0	18.0	18.0	18.0	20.0	17.0	18.0	19.0	18.0	19.0	18.0	18.0	19.0	18.0	18.0	19.0	18.0	18.0	19.0	17.0	18.0	569.00	18.4
Soda Ash (Total Daily Consumption)	kg	n/a	190.9	185.7	185.0	185.0	186.1	183.9	184.3	186.9	192.4	183.5	185.0	185.0	181.7	182.8	184.6	186.9	185.7	185.0	185.4	183.2	185.0	187.2	185.0	185.7	186.1	186.1	181.3	186.1	189.8	181.3	183.5	5746.10	185.4
Soda Ash - Dosage	mg/l	n/a	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37		37.0
Alum residual - (Total Daily Consumption	kg	n/a	175.4	170.7	170.0	170.0	171.0	169.0	169.3	171.7	176.8	168.6	170.0	170.0	166.9	168.0	169.7	171.7	170.7	170.0	170.3	168.3	170.0	172.0	170.0	170.7	171.0	171.0	166.6	171.0	174.4	166.6	168.6	5280.20	170.3
Alum residual - Dosage	mg/l	n/a	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0		34.0
Alum residual - Treated Water	mg/l	0.1	0.07	0.02	0.05	0.09	0.06	0.02	0.04	0.05	0.08	0.05	0.04	0.04	0.04	0.05	0.02	0.02	0.02	0.05	0.05	0.02	0.04	0.05	0.06	0.02	0.01	0.02	0.02	0.03	0.01	0.01	0.05		0.04
Poly bags added (25 kg bags)	kg	n/a					0.5					0.5		0.5							0.5					0.5								62.5	

Minimum	Maximum
4.90	**5.20**
58.46	**61.81**
2.90	**5.53**
61.68	**66.02**

* MAC - maximum acceptable range

Town of Fort Frances - WTP - 220000978
March 2019 v 2020 v 2021
Flow and Operating Data

Flow Data MARCH	Units	2019		2020		2021	
Total Raw Water	m^3		158980		155940		155300
Raw Maximum Day	m^3		5380		6000		5200
Raw Minimum Day	m^3		4680		4690		4900
Raw Average Daily Consumption	m^3		5130		5030		5010
Total Treated Water	m^3		121380		105300		109120
Treated Water Maximim Day Consumption	m^3		4880		4490		5530
Treated Water Minimim Day Consumption	m^3		3440		2790		2900
Treated Water Average Day Consumption	m^3		3920		3400		3520
Daily Average Per Household Consumption Rate	m^3		1.036		0.899		0.930
* Daily Average Per Person Consumption Rate	m^3		0.491		0.426		0.441
Monthly Averages - Operating Parameters WTP							
FAC Residual - Treated Water	mg/L		2.14		2.08		2.14
Total Chlorine Residual - Treated Water	mg/L		2.33		2.31		2.44
Aluminum Sulphate - Raw Water	mg/L		35.0		35.0		34.0
Aluminum Sulphate - Treated Water Residua	mg/L		0.03		0.06		0.04
Fluoride - Treated Water	mg/L		0.6		0.75		0.63
Soda Ash - Raw Water	mg/L		35.0		35.0		37.0
pH - Adjusted	mg/L		6.83		6.93		7.23
Temperature	°C		2.1		2.2		3.3
Quantity of Chemical Used:							
Aluminum Sulphate	kg		5564.3		5457.9		5280.2
Polyelectrolyte	kg		75		75.0		62.5
Chlorine Gas	kg		590		588		569
Soda Ash - Used for pH Adjustmen	kg		5564.3		5457.9		5746.1
Fluoride	kg		563		707		519

* The Canadian Average is 450 litres (0.45 m^3) per day.
* Population is 7986
* Number of Households is 3783

March 2021 WTP - Please re-sign

Final Audit Report 2021-06-04

Created:	2021-06-04
By:	Craig Miller (cmiller@fortfrances.ca)
Status:	Signed
Transaction ID:	CBJCHBCAABAARzIk6dowHxfXacCFwg92ISJMPDrJhDP6

"March 2021 WTP - Please re-sign" History

Document created by Craig Miller (cmiller@fortfrances.ca)
2021-06-04 - 3:53:19 PM GMT- IP address: 216.211.31.9

Document emailed to Greg Wiedenhoeft (gwiedenhoeft@fortfrances.ca) for signature
2021-06-04 - 3:53:58 PM GMT

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Signature Date: 2021-06-04 - 6:24:10 PM GMT - Time Source: server- IP address: 216.211.31.9

Agreement completed.

2021-06-04 - 6:24:10 PM GMT

June 4, 2021

Report To: Mayor & Council

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

SUBJECT: April 2021 Drinking Water Systems Monthly Summary Report

Please find attached the April 2021 Summary Report on the drinking water systems, prepared by Greg Wiedenhoeft, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the April 2021 report as presented.

Respectfully submitted,
Operations & Facilities Division

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

Council approval of this report will accept the April 2021 report prior to it being made available to the general public.

c.c. – Craig Miller, P.Eng., Environmental Superintendent
Greg Wiedenhoeft, ORO, Senior WTP Operator

April 2021

Monthly Summary Report
Water Systems

Prepared By: Greg Wiedenhoeft, ORO
Senior Water Treatment Plant Operator

Dated: May 5, 2021

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of April 2021 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 April Usage	6.30 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. 1509 School Rd.	2. 218 Third St. E.	3. 740 Sixth St. W.	4. W. Tower
5. 943 Third St. E.	6. 1309 King's Hwy.	7. 401 King's Hwy.	8. W. Tower
9. 401 King's Hwy.	10. 218 Third St. E.	11. 900 Wright Ave.	12. W. Tower
13. 900 Wright Ave.	14. 401 King's Hwy.	15. 218 Third St. E.	16. W. Tower

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

New drinking water system put online 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 March 16, 2021 – 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 online August 01, 2017. No treatment required as the Airport groundwater well tested negative for bacteria.

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

April 01st Cleaned top and bottom tanks on the poly unit.
Cleaned all 4 Check Valves on the poly unit.

April 5th Calibrated Dist. Cl2 Analyzer.

April 8th Cleaned top and bottom tanks on the poly unit.
Cleaned all 4 Check Valves on the poly unit.

April 9th Cleaned and flushed Settled sample pump line.

April 12th Calibrated Dist. Cl2 Analyzer.

April 15th Changed West Cl2 tank.
Cleaned top and bottom tanks on the poly unit.
Cleaned all 4 Check Valves on the poly unit.

April 22nd Cleaned top and bottom tanks on the poly unit.
Cleaned all 4 Check Valves on the poly unit.

April 27th Calibrated Dist. Cl2 Analyzer.
Calibrated Fluoride Analyzer.

April 28th Ran the Standby Generator for 1 hour.
Took grab samples off filters.

April 30th Cleaned top and bottom tanks on the poly unit.
Cleaned all 4 Check Valves on the poly unit.

8) **Water Complaints:**

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

9) **Other Miscellaneous Information:**

April 5th Routine Micro samples.

April 7th Sunset Protection Systems tested fire alarm and checked fire extinguishers.
Alkalinity and PH samples for reduced lead sampling requirements.

April 12th Routine Micro samples.

April 19th Routine Micro samples.

April 21st Inspected all High lift, Low lift and Backwash pumps.

April 22nd Installed reconditioned Soda Ash transfer pump.

April 23rd Greased bucket elevator, auger, feeder, clarifiers and poly unit.

April 26th Cleaned valve positioner on filter #1.
Routine Micro samples.

April 27th Cleaned and flushed Alum line.

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:

- Greg Wiedenhoeft, ORO, Senior WTP Operator: Greg Wiedenhoeft
  Greg Wiedenhoeft (Jun 3, 2021 14:27 CDT)
- Craig Miller, P.Eng. Environmental Superintendent: _____
- Travis Rob, P.Eng. Manager of Operations & Facilities: _____
- Acting CAO: Dawn Galusha
  Dawn Galusha (Jun 3, 2021 16:42 CDT)
- 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 Greg Wiedenhoeft, Senior WTP Operator at 274-2325.

Town of Fort Frances - Water treatment Plant - Water Works # 220000978
Monitoring Record
Apr-21

Operating Data	Units	*MAC or Range	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total	Average
Flow rates																																		
Raw Water	1000 m^3	17	5.01	4.93	5.01	5.03	5.11	5.13	5.00	4.99	4.99	5.20	**4.66**	5.21	5.01	5.01	5.03	5.01	4.95	5.01	5.15	4.95	5.03	5.02	5.08	4.82	5.06	**5.26**	5.14	5.04	5.04	5.06	150.94	5.03
Peak Instantaneous - Raw Water	l/s	n/a	58.62	58.60	58.61	58.56	58.58	58.54	58.53	58.63	58.60	58.56	**58.06**	58.70	58.65	58.63	58.66	58.71	58.96	58.97	59.01	59.04	59.06	59.06	59.08	59.02	59.05	58.80	58.79	58.80	58.36	**59.19**		58.75
Treated Water	1000 m^3	17	2.98	3.32	2.88	3.16	3.14	3.59	3.54	3.47	**4.00**	3.71	**2.55**	3.57	3.38	3.86	3.38	3.79	2.74	3.07	3.15	3.22	3.27	3.38	3.31	3.00	2.88	3.55	3.09	3.49	3.49	3.44	99.40	3.31
Peak Instantaneous - Treated Water	l/s	n/a	62.66	62.54	62.23	63.87	63.14	63.40	69.03	67.66	68.27	63.33	62.81	**61.42**	62.22	67.86	65.45	63.34	62.07	62.03	62.50	62.72	62.08	63.41	62.27	62.13	62.33	61.48	62.36	**69.98**	62.53	63.43		63.69
BackWash Water	1000 m^3	n/a	0.27	0.26	0.29	0.27	0.26	0.29	0.27	0.25	0.29	0.27	0.25	0.28	0.27	0.25	0.28	0.27	0.52	0.29	0.27	0.25	0.28	0.27	0.25	0.29	0.27	0.26	0.29	0.27	0.25	0.286	8.327	0.278
Fluoride Information																																		
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.71	0.71	0.71	0.71	0.73	0.62	0.75	0.63	0.76	0.61	0.64	0.62	0.65	0.69	0.61	0.57	0.68	0.68	0.76	0.69	0.66	0.74	0.76	0.78	0.78	0.78	0.70	0.71	0.72	0.71		0.70
Turbidity Information																																		
Raw Water	NTU	n/a	0.80	0.52	0.93	0.98	0.97	1.07	0.92	1.14	1.27	0.96	0.85	0.87	0.93	0.91	0.87	0.91	0.94	0.89	0.94	0.95	0.97	0.94	0.95	0.82	1.04	1.09	1.01	1.00	0.89	0.93		0.94
Settled Water	NTU	n/a	0.08	0.10	0.12	0.11	0.11	0.09	0.05	0.09	0.28	0.12	0.08	0.11	0.11	0.12	0.08	0.09	0.11	0.10	0.05	0.07	0.10	0.08	0.07	0.10	0.09	0.11	0.10	0.08	0.07	0.08		0.10
Treated Water	NTU	1	0.08	0.01	0.06	0.01	0.03	0.06	0.05	0.05	0.04	0.08	0.06	0.06	0.05	0.05	0.07	0.08	0.07	0.07	0.08	0.09	0.09	0.07	0.08	0.01	0.01	0.07	0.08	0.07	0.06	0.05		0.06
Other Operating Parameters																																		
pH - Treated Water	no units	6.5 to 8.5	7.30	7.32	7.27	7.26	7.25	7.39	7.35	7.47	7.57	7.49	7.46	7.34	7.31	7.42	7.46	7.39	7.31	7.28	7.25	7.34	7.32	7.36	7.44	7.32	7.37	7.40	7.39	7.39	7.35	7.38		7.37
pH - Settled water	no units	n/a	6.41	6.50	6.37	6.39	6.36	6.44	6.45	6.40	6.21	6.10	6.15	6.19	6.33	6.04	6.04	6.01	6.16	6.13	6.09	6.09	6.09	6.10	6.01	6.12	6.09	6.11	6.09	6.12	6.12	6.13		6.19
pH - Raw Water	no units	n/a	7.14	7.09	7.10	7.12	7.08	7.08	7.10	7.00	7.08	7.19	6.99	6.96	6.98	6.96	6.97	7.09	7.01	7.06	7.08	7.06	7.03	7.08	7.09	7.09	6.98	7.08	7.06	7.12	7.1	7.13		7.06
FAC - Treated Water	mg/l	0.2 to 4	2.14	2.12	2.04	2.05	2.01	2.21	2.11	2.11	2.07	2.07	2.09	2.12	2.09	2.09	2.10	2.02	2.09	2.13	2.27	2.34	2.14	2.12	2.14	2.04	2.06	2.10	2.05	2.10	2.13	2.04		2.11
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.30	2.46	2.22	2.32	2.28	2.26	2.46	2.42	2.50	2.56	2.24	2.60	2.38	2.44	2.22	2.28	2.38	2.36	2.62	2.72	2.34	2.66	2.40	2.34	2.32	2.34	2.29	2.35	2.31	2.33		2.39
Temperature	°C	15	5.0	5.0	5.0	5.0	5.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.0	7.0	6.0	6.0	7.0	7.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	8.0		6.6
Fluoride used (Total Daily Consumption)	kg	n/a	18.0	17.0	16.0	17.0	17.0	17.0	17.0	16.0	16.0	17.0	14.0	17.0	15.0	15.0	15.0	15.0	17.0	18.0	19.0	18.0	18.0	17.0	18.0	17.0	17.0	18.0	17.0	17.0	17.0	17.0	504.00	16.8
Chlorine used (Total Daily Consumption)	kg	n/a	18.0	18.0	19.0	18.0	19.0	19.0	19.0	18.0	19.0	18.0	17.0	19.0	18.0	18.0	18.0	15.0	20.0	20.0	20.0	19.0	18.0	19.0	19.0	17.0	19.0	19.0	19.0	18.0	19.0	19.0	555.00	18.5
Soda Ash (Total Daily Consumption)	kg	n/a	185.4	182.4	185.4	186.1	189.1	189.8	185.0	184.6	184.6	192.4	172.4	192.8	185.4	185.4	186.1	185.4	183.2	185.4	190.6	183.2	186.1	185.7	188.0	178.3	187.2	194.6	190.2	186.5	186.5	187.2	5584.78	186.2
Soda Ash - Dosage	mg/l	n/a	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0		37.0
Alum residual - (Total Daily Consumption)	kg	n/a	170.3	167.6	170.3	171.0	173.7	174.4	170.0	169.7	169.7	176.8	158.4	177.1	170.3	170.3	171.0	170.3	168.3	170.3	175.1	168.3	171.0	170.7	172.7	163.9	172.0	178.8	174.8	171.4	171.4	172.0	5131.96	171.1
Alum residual - Dosage	mg/l	n/a	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0		34.0
Alum residual - Treated Water	mg/l	0.1	0.04	0.02	0.04	0.02	0.02	0.02	0.01	0.02	0.03	0.04	0.03	0.02	0.02	0.04	0.04	0.02	0.04	0.03	0.03	0.01	0.04	0.02	0.03	0.06	0.04	0.05	0.06	0.02	0.01	0.02		0.03
Poly bags added (25 kg bags)	kg	n/a	0.5						0.5				0.5					0.5			0.5							0.5				0.5	87.5	

Minimum	Maximum
4.66	**5.26**
58.06	**59.19**
2.55	**4.00**
61.42	**69.98**

* MAC - maximum acceptable range

Town of Fort Frances - WTP - 220000978
April 2019 v 2020 v 2021
Flow and Operating Data

Flow Data APRIL	Units	2019		2020		2021	
Total Raw Water	m^3		146840		149220		150940
Raw Maximum Day	m^3		6220		5770		5260
Raw Minimum Day	m^3		4060		3820		4660
Raw Average Daily Consumption	m^3		5060		5150		5030
Total Treated Water	m^3		106270		96350		99400
Treated Water Maximim Day Consumption	m^3		4330		3640		4000
Treated Water Minimim Day Consumption	m^3		2910		2730		2550
Treated Water Average Day Consumption	m^3		3540		3210		3310
Daily Average Per Household Consumption Rate	m^3		0.936		0.849		0.875
* Daily Average Per Person Consumption Rate	m^3		0.443		0.402		0.414
Monthly Averages - Operating Parameters WTP:							
FAC Residual - Treated Water	mg/L		2.13		2.2		2.11
Total Chlorine Residual - Treated Water	mg/L		2.36		2.28		2.39
Aluminum Sulphate - Raw Water	mg/L		35.0		35.0		34.0
Aluminum Sulphate - Treated Water Residual	mg/L		0.03				0.03
Fluoride - Treated Water	mg/L		0.63		0.72		0.70
Soda Ash - Raw Water	mg/L		35.0		35.0		37.0
pH - Adjusted	mg/L		6.99		6.94		7.37
Temperature	°C		4.1		5.4		6.6
Quantity of Chemical Used:							
Aluminum Sulphate	kg		5312.3		5399.8		5131.96
Polyelectrolyte	kg		75.0		62.5		87.5
Chlorine Gas	kg		579		605		555
Soda Ash - Used for pH Adjustment	kg		5312.3		5399.8		5584.78
Fluoride	kg		442		736		504

* The Canadian Average is 450 litres (0.45 m^3) per day.
* Population is 7986
* Number of Households is 3783

April 2021 WTP

Final Audit Report 2021-06-03

Created:	2021-06-03
By:	Craig Miller (cmiller@fortfrances.ca)
Status:	Signed
Transaction ID:	CBJCHBCAABAAnmGDw8rM3Hk2XsU_KKb9fiV3rqpswAS2

"April 2021 WTP" History

Document created by Craig Miller (cmiller@fortfrances.ca)
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Agreement completed.

2021-06-03 - 9:42:00 PM GMT

June 4, 2021

Report To: Mayor & Council

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

SUBJECT: May 2021 Drinking Water Systems Monthly Summary Report

Please find attached the May 2021 Summary Report on the drinking water systems, prepared by Greg Wiedenhoeft, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the May 2021 report as presented.

Respectfully submitted,
Operations & Facilities Division

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

Council approval of this report will accept the May 2021 report prior to it being made available to the general public.

c.c. – Craig Miller, P.Eng., Environmental Superintendent
Greg Wiedenhoeft, ORO, Senior WTP Operator

May 2021

Monthly Summary Report
Water Systems

Prepared by: Greg Wiedenhoeft, ORO
Senior Water Treatment Plant Operator

Dated: June 2, 2021

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of May 2021 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 0.21m3

Estimated May Usage 6.51 m3

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

Water Treatment Plant (treated): 5 samples taken no adverse results
Water Treatment Plant (raw): 5 samples taken no adverse results
Water Distribution System: 20 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:

1.943 Third St. E.	2. 1309 Kings Hwy.	3. 900 Wright Ave.	4. W. Tower
5. 218 Third St. E.	6. 900 Wright Ave.	7. 401 Kings Hwy.	8. W. Tower
9. 218 Third St. E.	10. 900 Wright Ave.	11. 401 Kings Hwy.	12. W. Tower
13.900 Wright Ave.	14. 401 Kings Hwy.	15. 218 Third St. E.	16. W. Tower
17. 218 Third St. E.	18. 900 Wright Ave.	19. 800 Calder Dr.	20. W. Tower

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

New drinking water system put online 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 March 16, 2021 – 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 online August 01, 2017. No treatment required as the Airport groundwater well tested negative for bacteria.

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

May 05th worked on settled water sample pump.

May 6th - cleaned top and bottom tanks on the poly unit.
- cleaned all four (4) check valves on the poly unit.
-cleaned soda ash line.

May 7th - tightened drive belt on poly unit aging mixer.

May 13th - cleaned top and bottom tanks on the poly unit.
- cleaned all four (4) check valves on the poly unit.

May 17th - calibrated the Distribution Chlorine Analyzer.
-calibrated the Fluoride Analyzer.

May 20th -cleaned top and bottom tanks on the poly unit.
- cleaned all four (4) check valves on the poly unit.

May 27th -ran generator for 1 hour.
-took grab samples from filters.

May 28th - cleaned top and bottom tanks on the poly unit.
- cleaned all four (4) check valves on the poly unit.

8) **Water Complaints:**

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

9) **Other Miscellaneous Information:**

May 3rd - took weekly routine micro samples.

May 5th - Received a load of Alum

May10th - took weekly routine micro samples.
-took samples for watermain repair at Fourth and Wright 1st set.
-took seasonal sample at Sorting Gap.
-Sunset Protection Tested Fire alarm.
-cleaned soda ash line from hopper to silo.

May 11th -took samples for watermain repair at Fourth and Wright 2nd set
-took seasonal samples for camp sites and Vandura washroom.
-ordered reagents for testing.

May 17th - took weekly routine micro samples.

May 19th - took monthly TSS and Total Cl2 samples from filter # 3 backwash.

May 20th - Flushed Poly lines to Clarifier # 1 and # 2.

May 25th - took weekly routine micro samples.

May 26th – ordered 40 bags of poly.

May 27th – changed UPS on Cl2 scale.

May 28th - checked media depth on filter # 3.

May 31st - took weekly routine micro samples.

10) In order to acknowledge that all levels of responsibility within the Corporation of the Town of Fort Frances have received and reviewed this monthly report, it is necessary to sign-off in the appropriate location below:

- Greg Wiedenhoeft, Overall Responsible Operator: Greg Wiedenhoeft
  Greg Wiedenhoeft (Jun 3, 2021 14:29 CDT)
- Craig Miller, P.Eng. Environmental Superintendent: _____
- Travis Rob, P.Eng. Manager of Operations & Facilities: _____
- Acting CAO: Dawn Galusha
  Dawn Galusha (Jun 3, 2021 16:43 CDT)
- 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 Greg Wiedenhoeft, Overall Responsible Operator at 274-2325.

Town of Fort Frances - Water treatment Plant - Water Works # 220000978
Monitoring Record
May-21

Operating Data	Units	*MAC or Range	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
Flow rates																																			
Raw Water	1000 m^3	17	4.97	4.91	5.28	5.09	5.09	5.09	5.08	4.99	5.10	5.18	4.96	5.10	5.10	5.11	**4.89**	5.07	**5.35**	5.21	5.12	5.09	5.13	5.10	5.09	5.24	5.25	5.16	5.17	5.14	5.04	5.16	5.26	158.52	5.11
Peak Instantaneous - Raw Water	l/s	n/a	**59.26**	59.28	59.36	59.36	59.40	59.48	59.41	59.45	59.53	59.53	59.56	59.55	59.56	59.61	59.53	59.56	59.69	59.83	59.95	59.83	60.16	60.26	60.51	**60.72**	60.51	60.47	60.26	60.23	60.34	60.24	60.17		59.83
Treated Water	1000 m^3	17	3.29	3.26	3.70	3.35	3.14	3.46	3.56	3.29	3.52	3.42	3.40	4.11	4.20	3.97	3.68	3.61	4.33	**4.95**	4.57	4.09	3.38	3.00	3.23	**2.86**	3.69	3.84	3.41	3.42	4.03	3.54	3.99	113.29	3.65
Peak Instantaneous - Treated Water	l/s	n/a	66.73	62.57	62.57	66.31	62.83	65.61	62.28	62.75	62.51	62.52	63.43	64.35	65.11	64.56	67.47	63.82	65.74	**67.90**	66.20	65.37	**62.09**	64.13	64.64	62.39	64.58	64.99	62.83	63.87	66.56	63.95	64.37		64.36
BackWash Water	1000 m^3	n/a	0.27	0.25	0.29	0.27	0.25	0.30	0.27	0.26	0.29	0.26	0.26	0.29	0.27	0.26	0.29	0.27	0.26	0.28	0.27	0.25	0.28	0.26	0.25	0.28	0.27	0.26	0.29	0.27	0.26	0.284	0.265	8.327	0.269
Fluoride Information																																			
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.61	0.67	0.63	0.63	0.62	0.70	0.68	0.70	0.70	0.70	0.70	0.73	0.73	0.73	0.72	0.72	0.68	0.62	0.61	0.63	0.64	0.66	0.66	0.66	0.67	0.68	0.67	0.66	0.66	0.65	0.66		0.67
Turbidity Information																																			
Raw Water	NTU	n/a	0.92	0.87	1.05	1.07	0.87	0.87	0.94	0.92	1.02	1.00	0.99	0.99	1.14	0.74	0.50	0.52	0.60	0.73	0.59	0.69	0.80	0.89	0.86	1.12	1.03	1.08	1.21	1.18	1.23	1.27	1.04		0.93
Settled Water	NTU	n/a	0.07	0.06	0.07	0.09	0.08	0.08	0.09	0.08	0.08	0.07	0.10	0.09	0.10	0.08	0.05	0.08	0.04	0.07	0.06	0.08	0.09	0.07	0.10	0.11	0.10	0.11	0.10	0.11	0.11	0.12	0.08		0.08
Treated Water	NTU	1	0.06	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.08	0.08	0.05	0.06	0.01	0.01	0.01	0.01	0.04	0.06	0.06	0.08	0.06	0.06	0.04	0.06	0.05	0.07	0.06	0.06	0.06	0.06		0.05
Other Operating Parameters																																			
pH - Treated Water	no units	6.5 to 8.5	7.30	7.32	7.40	7.36	7.33	7.2	7.17	7.22	7.13	7.23	7.22	7.28	7.21	7.17	7.13	7.13	7.14	7.10	7.11	7.13	7.30	7.11	7.14	7.1	7.04	7.08	7.09	7.08	7.04	7.07	7.08		7.17
pH - Settled water	no units	n/a	6.19	6.17	6.14	6.24	6.21	6.21	6.28	6.31	6.32	6.26	6.25	6.23	6.32	6.30	6.29	6.30	6.31	6.19	6.20	6.21	6.24	6.22	6.24	6.25	6.25	6.36	6.30	6.37	6.31	6.28	6.29		6.26
pH - Raw Water	no units	n/a	7.11	7.08	7.23	7.16	7.15	7	7.04	7.04	7.17	7.12	7.04	7.07	7.20	7.15	7.22	7.15	7.32	7.03	6.95	6.95	6.99	6.93	6.93	6.89	6.92	6.84	6.91	6.98	6.96	7.00	6.94		7.05
FAC - Treated Water	mg/l	0.2 to 4	2.00	2.05	2.09	1.99	2.07	2.18	2.09	2.06	2.02	1.89	1.78	1.86	1.67	2.09	2.18	2.07	2.12	2.16	2.20	2.09	2.02	2.03	2.02	2.09	2.01	2.09	2.00	2.06	2.09	2.09	2.11		2.04
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.30	2.34	2.29	2.22	2.22	2.45	2.36	2.38	2.30	2.16	2.13	2.08	1.95	2.42	2.39	2.49	2.49	2.50	2.58	2.49	2.45	2.34	2.39	2.37	2.41	2.36	2.32	2.32	2.40	2.42	2.39		2.35
Temperature	°C	15	8.0	8.0	8.0	9.0	9.0	9.0	8.0	8.0	9.0	9.0	9.0	10.0	10.0	10.0	10.0	10.0	11.0	11.0	11.0	12.0	12.0	12.0	12.0	13.0	14.0	14.0	13.0	13.0	13.0	13.0	14.0		10.7
Fluoride used (Total Daily Consumption)	kg	n/a	16.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0	16.0	16.0	16.0	16.0	19.0	18.0	18.0	18.0	19.0	18.0	18.0	18.0	17.0	17.0	17.0	17.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	517.00	16.7
Chlorine used (Total Daily Consumption)	kg	n/a	19.0	17.0	20.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	17.0	18.0	18.0	21.0	20.0	21.0	22.0	21.0	22.0	20.0	22.0	21.0	21.0	22.0	22.0	21.0	22.0	21.0	21.0	22.0	21.0	625.00	20.2
Soda Ash (Total Daily Consumption)	kg	n/a	183.9	181.7	195.4	188.3	188.3	188.3	188.0	184.6	188.7	191.7	183.5	188.7	188.7	189.1	180.9	187.6	198.0	192.8	189.4	188.3	189.8	188.7	188.3	193.9	194.3	190.9	191.3	190.2	186.5	190.9	194.6	5865.24	189.2
Soda Ash - Dosage	mg/l	n/a	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37		37.0
Alum residual - (Total Daily Consumption)	kg	n/a	169.0	166.9	179.5	173.1	173.1	173.1	172.7	169.7	173.4	176.1	168.6	173.4	173.4	173.7	166.3	172.4	181.9	177.1	174.1	173.1	174.4	173.4	173.1	178.2	178.5	175.4	175.8	174.8	171.4	175.4	178.8	5389.68	173.9
Alum residual - Dosage	mg/l	n/a	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0		34.0
Alum residual - Treated Water	mg/l	0.1	0.03	0.01	0.01	0.03	0.01	0.04	0.04	0.04	0.03	0.05	0.02	0.03	0.06	0.06	0.04	0.02	0.05	0.02	0.03	0.05	0.03	0.03	0.05	0.01	0.01	0.01	0.03	0.03	0.01	0.01	0.06		0.03
Poly bags added (25 kg bags)	kg	n/a							0.5					0.5						0.5			0.5					0.5						62.5	

Minimum	Maximum
4.89	**5.35**
59.26	**60.72**
2.86	**4.95**
62.09	**67.90**

* MAC - maximum acceptable range

Town of Fort Frances - WTP - 220000978
May 2019 v 2020 v 2021
Flow and Operating Data

Flow Data MAY	Units	2019		2020		2021	
Total Raw Water	m^3		160760		155620		158520
Raw Maximum Day	m^3		6200		5280		5350
Raw Minimum Day	m^3		4890		4720		4890
Raw Average Daily Consumption	m^3		5190		5020		5110
Total Treated Water	m^3		115440		108720		113290
Treated Water Maximim Day Consumption	m^3		4850		4240		4950
Treated Water Minimim Day Consumption	m^3		2810		3040		2860
Treated Water Average Day Consumption	m^3		3710		3520		3650
Daily Average Per Household Consumption Rate	m^3		0.981		0.930		0.965
* Daily Average Per Person Consumption Rate	m^3		0.465		0.441		0.457
Monthly Averages - Operating Parameters WTP:							
FAC Residual - Treated Water	mg/L		2.24		2.12		2.04
Total Chlorine Residual - Treated Water	mg/L		2.46		2.35		2.35
Aluminum Sulphate - Raw Water	mg/L		35.0		35.0		34.0
Aluminum Sulphate - Treated Water Residual	mg/L		0.03		0.07		0.03
Fluoride - Treated Water	mg/L		0.62		0.75		0.67
Soda Ash - Raw Water	mg/L		35.0		35.0		37.0
pH - Adjusted	mg/L		7.19		6.98		7.17
Temperature	°C		2.0		2.0		10.7
Quantity of Chemical Used:							
Aluminum Sulphate	kg		5626.6		5446.7		5389.68
Polyelectrolyte	kg		75		62.5		62.5
Chlorine Gas	kg		621		617		625
Soda Ash - Used for pH Adjustment	kg		5626.6		5446.7		5865.24
Fluoride	kg		581		693		517

* The Canadian Average is 450 litres (0.45 m^3) per day.
* Population is 7986
* Number of Households is 3783

May 2021 WTP

Final Audit Report 2021-06-03

Created:	2021-06-03
By:	Craig Miller (cmiller@fortfrances.ca)
Status:	Signed
Transaction ID:	CBJCHBCAABAADPndl21CjzuVI5X5arGd4yJS_hJWnBS2

"May 2021 WTP" History

Document created by Craig Miller (cmiller@fortfrances.ca)
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Agreement completed.

2021-06-03 - 9:43:06 PM GMT

TOWN OF FORT FRANCES

Operations and Facilities Division - Environmental Area - Operations Statistics

March-21

STAFFING:

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

OVERTIME HOURS - Equivalent Straight Time Hours

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

WATER DISTRIBUTION & WASTE WATER COLLECTION:

See Monthly Summary (Attached)
Repaired various curbstops, valve covers and sewer cleanouts
Water turn on/off's as requested by homeowners
Sanitary sewer flushing activities using vac truck
CCTV sewer services as requested by homeowners / plumbers
Unplug sanitary sewers as requested by homeowners
Repaired water main break @ 213 Crowe Avenue

WATER TREATMENT PLANT:

March 2021 - In receipt of the Water Treatment Plant Monthly Report
J. Bruyere cross - training at WTP
G. Wiedenhoeft successfully upgraded water treatment certificate from WT2 to WT3 - congratulations to Greg!
Job posting for ORO posted and successfully bid into by G. Wiedenhoeft - congratulations to Greg!
OCWA informed that ORO services no longer required after March 31, 2021.

WASTE-WATER TREATMENT FACILITY

March 2021 - In receipt of the Wastewater Treatment Facility Monthly Report.
Engineering of standby generator ongoing.
In receipt of 2021 Annual WWTP report by OCWA

WASTE MANAGEMENT:

Garbage Collection:
Garbage not picked up - 13 houses

Sanitary Landfill (Waste Disposal Site):
Landfill Scales functioning during this period.

Amount of residential waste (kg) delivered to the landfill:
242,510

Amount of ICI waste (kg) delivered to the landfill:
660,860

Recycling:
Recycle not picked up - 25 houses

Amount of recycled waste (Metric Tonnes) diverted from the landfill:
48.63 (Emterra)

Prepared By: Craig Miller, P.Eng. Environmental Superintendent

Date: 6/3/2021

TOWN OF FORT FRANCES

Operations and Facilities Division - Environmental Area - Operations Statistics

April-21

STAFFING:

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

OVERTIME HOURS - Equivalent Straight Time Hours

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

WATER DISTRIBUTION & WASTE WATER COLLECTION:

See Monthly Summary (Attached)
Repaired various curbstops, valve covers and sewer cleanouts
Watermain & Hydrant Flushing and valve turning program started
Water turn on/off's as requested by homeowners
Sanitary sewer flushing activities using vac truck
CCTV sewer services as requested by homeowners / plumbers
Unplug sanitary sewers as requested by homeowners
Sewer rooting moratorium resumed with ON Gov't Emergency Brake

WATER TREATMENT PLANT:

April 2021 - In receipt of the Water Treatment Plant Monthly Report
C. Miller off on short term disability for month of April.
G. Wiedenhoeft started as ORO of WTP on April 1, 2021.

WASTE-WATER TREATMENT FACILITY:

April 2021 - In receipt of the Wastewater Treatment Facility Monthly Report.
Engineering of standby generator ongoing.

WASTE MANAGEMENT:

Garbage Collection:
Garbage not picked up - 12 houses

Sanitary Landfill (Waste Disposal Site):
Landfill Scales functioning during this period.

Amount of residential waste (kg) delivered to the landfill:
237,070

Amount of ICI waste (kg) delivered to the landfill:
455,760

Recycling:
Recycle not picked up - 21 houses

Amount of recycled waste (Metric Tonnes) diverted from the landfill:
29.76 (Emterra)

Prepared By: Craig Miller, P.Eng. Environmental Superintendent

Date: 6/3/2021

TOWN OF FORT FRANCES

Operations and Facilities Division - Environmental Area - Operations Statistics

May-21

STAFFING:

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

OVERTIME HOURS - Equivalent Straight Time Hours

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

WATER DISTRIBUTION & WASTE WATER COLLECTION:

See Monthly Summary (Attached)
Turned on water at point park campground
E. Gustafson passed water distribution 1 exam.
Repaired various curbstops, valve covers and sewer cleanouts
Watermain & Hydrant Flushing and valve turning program continuing
Water turn on/off's as requested by homeowners
Sewer rooting moratorium resumed with ON Gov't Emergency Brake continues
2 Summer students started
Repaired hydrant hit by snow machine @ 1000 Armit
Repaired water main break at 4th st w @ wright
Repaired water main break at 5th st w @ wright
Repaired water main break at 6th St. E @ CNR tracks
Repaired water service damaged during construction on King's Hwy.
Repaired sewer main on Crowe Ave @ Scott St.

WATER TREATMENT PLANT:

In receipt of the Water Treatment Plant Monthly Report
regular maintenance activities ongoing

WASTE-WATER TREATMENT FACILITY

Engineering of standby generator ongoing.
Capital improvements (cement, doors, showers) to WWTP

WASTE MANAGEMENT:

Garbage Collection:
Garbage not picked up - 14 houses

Sanitary Landfill (Waste Disposal Site):
Landfill Scales functioning during this period.

Amount of residential waste (kg) delivered to the landfill:
315,730

Amount of ICI waste (kg) delivered to the landfill:
381,340

Recycling:
Recycle not picked up - 19 houses

Amount of recycled waste (Metric Tonnes) diverted from the landfill:
No Data (Emterra)

Prepared By: Craig Miller, P.Eng. Environmental Superintendent

Date: 6/4/2021

Water Works		Years			
DATE	**WORK**	**2018**	**2019**	**2020**	**2021**
Jan	THAW FROZEN WL	1	6	1	1
	TURN WATER OFF	1	6		1
	TURN WATER OFF/ON	4	5		1
	TURN WATER ON	5			2
	TURNED WATER OFF				1
Jan Total		**11**	**17**	**1**	**6**
Feb	THAW FROZEN WL	27	11		11
	TURN WATER OFF	3	3	1	10
	TURN WATER OFF/ON		5	1	5
	TURN WATER ON	3		5	4
Feb Total		**33**	**19**	**7**	**30**
Mar	THAW FROZEN WL	3	27		
	TURN WATER OFF		2		
	TURN WATER OFF/ON	3	3	1	3
	TURN WATER ON	12	7	2	1
Mar Total		**18**	**39**	**3**	**4**
Apr	SET UP HYDRANT		1		
	THAW FROZEN WL		5		
	TRACE SERVICES				1
	TRACE WATER SERVICE				1
	TURN WATER OFF	3	2	2	
	TURN WATER OFF/ON	1	1	1	1
	TURN WATER ON	16	24	4	4
	WATER TURN ON				1
Apr Total		**20**	**33**	**7**	**8**
May	CHECK WATER SERVICE		1		
	CONNECTION INSPECTION	1	1		
	TRACE SERVICES		1		
	TURN WATER OFF	3	3		2
	TURN WATER OFF/ON	1	3	1	4
	TURN WATER ON	15	14	4	3
	TURN WATER ON	1			
	WATER TURN ON				2
	WATER TURN OFF/ON				1
May Total		**21**	**23**	**5**	**12**
Grand Total		**103**	**131**	**23**	**60**

Sewer Works		Years			
DATE	**WORK**	**2018**	**2019**	**2020**	**2021**
Jan	CCTV SEWER SERVICE	1	1	3	2
	UNPLUG SANITARY SEWER	20	21	7	2
	VAC OUT SEWER MAIN				1
Jan Total		**21**	**22**	**10**	**5**
Feb	CCTV SEWER SERVICE	2	2	1	5
	THAW FROZEN SEWER	1			
	TRACE SERVICES				1
	UNPLUG SANITARY SEWER	20	10	6	6
	VAC OUT SEWER MAIN				4
Feb Total		**23**	**12**	**7**	**16**
Mar	CCTV SEWER SERVICE	1	1		4
	CONNECTION INSPECTION		1		
	UNPLUG SANITARY SEWER	12	9	3	6
	VAC OUT SEWER MAIN				1
Mar Total		**13**	**11**	**3**	**11**
Apr	CCTV SEWER SERVICE	3	6		2
	CONNECTION INSPECTION				1
	TRACE SERVICES				1
	UNPLUG SANITARY SEWER	15	7	1	2
	TRACE SEWER SERVICE				1
Apr Total		**18**	**13**	**1**	**7**
May	CCTV SEWER SERVICE	1			1
	CONNECTION INSPECTION	1	1	1	2
	THAW FROZEN SEWER	1			
	UNPLUG SANITARY SEWER	15	10	2	1
May Total		**18**	**11**	**3**	**4**
Grand Total		**93**	**69**	**24**	**43**

System Repairs		Years			
DATE	**TYPE**	**2018**	**2019**	**2020**	**2021**
Jan	CURBSTOP		1		1
	HYDRANT			2	2
	SEWER SERVICE			2	
	WATERMAIN	1	1	1	1
Jan Total		**1**	**2**	**5**	**4**
Feb	CLEANOUT		2		
	CURBSTOP		8		
	HYDRANT				1
	SEWER SERVICE		1		2
	WATER SERVICE		2		1
	SANITARY MANHOLE				1
Feb Total			**13**		**5**
Mar	CLEANOUT		2		
	CURBSTOP		2		13
	HYDRANT			2	
	VALVE				8
	WATER SERVICE	2		1	1
	WATERMAIN			2	1
	SAN MANHOLE			1	
Mar Total		**2**	**4**	**6**	**23**
Apr	CLEANOUT		1		2
	CLEANOUT/CURBSTOP	1			
	CURBSTOP	1	9	15	10
	HYDRANT			3	
	MANHOLE		2		
	SEWER MAIN		1		
	VALVE				2
	WATER SERVICE	1			
	WATERMAIN	1		1	
Apr Total		**4**	**13**	**19**	**14**
May	CLEANOUT	3	4		2
	CLEANOUT/CURBSTOP	1			
	CURBSTOP	4	8		3
	HYDRANT				1
	MANHOLE		1		
	SEWER MAIN				1
	SEWER SERVICE		2		1
	WATER SERVICE		1		1
	WATERMAIN	4	1		3
May Total		**12**	**17**		**12**
Grand Total		**19**	**49**	**30**	**58**

Aircraft Landings 2021

As of May 31, 2021

	Bearskin Flights			Bearskin Passengers			Air Bravo Passengers			Government			Private			Med-I-vacs			International			Commercial			Totals			Variance
Month	**2021**	**2020**	**2019**	**2021**	**2020**	**2019**	**2021**	**2020**	**2019**	**2021**	**2020**	**2019**	**2021**	**2020**	**2019**	**2021**	**2020**	**2019**	**2021**	**2020**	**2019**	**2021**	**2020**	**2019**	**2021**	**2020**	**2019**	2021-2020
January	4	56	54	9	140	160	0	8	8	0	2	0	2	15	4	36	50	60	0	0	0	0	45	42	42	168	160	-126
February	0	64	56	0	149	197	0	12	15	4	3	13	8	6	1	58	36	43	0	1	0	0	38	38	70	148	151	-78
March	0	41	61	0	99	160	0	0	11	20	1	13	8	10	10	57	39	52	0	6	2	0	0	42	85	97	180	-12
1/4 Total	**4**	**161**	**171**	**9**	**388**	**517**	**0**	**20**	**34**	**24**	**6**	**26**	**18**	**31**	**15**	**151**	**125**	**155**	**0**	**7**	**2**	**0**	**83**	**122**	**197**	**413**	**491**	**-216**
April	0	1	59	0	0	197	0	0	7	5	2	5	18	10	9	63	30	57	0	1	3	0	0	40	86	44	173	42
May	0	0	67	0	0	196	0	0	5	2	3	14	43	20	19	74	40	63	0	0	25	0	0	43	119	63	231	56
June		0	61		0	208		0	9		0	13		21	48		53	57		0	81		0	39	0	74	299	-74
1/2 Total	**4**	**162**	**358**	**9**	**388**	**1118**	**0**	**20**	**55**	**31**	**11**	**58**	**79**	**82**	**91**	**288**	**248**	**332**	**0**	**8**	**111**	**0**	**83**	**244**	**402**	**594**	**1194**	**-192**
July		0	61		0	173		0	10		2	4		44	28		35	54		0	69		0	42	0	81	258	-81
August		0	69		0	236		0	5		0	10		31	33		38	57		0	64		0	40	0	69	273	-69
September		11	62		17	180		0	12		1	8		27	14		61	52		2	46		0	34	0	102	216	-102
3/4 Total	**4**	**173**	**550**	**9**	**405**	**1707**	**0**	**20**	**82**	**31**	**14**	**80**	**79**	**184**	**166**	**288**	**382**	**495**	**0**	**10**	**290**	**0**	**83**	**360**	**402**	**846**	**1941**	**-444**
October		16	66		30	219		0	13		5	5		9	22		59	57		0	8		0	44	0	89	202	-89
November		15	61		46	180		0	17		3	0		14	6		45	56		0	1		0	37	0	77	161	-77
December		12	47		15	111		0	13		6	0		4	13		54	43		0	3		0	38	0	76	144	-76
Total	**4**	**216**	**724**	**9**	**496**	**2217**	**0**	**20**	**125**	**31**	**28**	**85**	**79**	**211**	**207**	**288**	**540**	**651**	**0**	**10**	**302**	**0**	**83**	**479**	**402**	**1088**	**2448**	**-686**

Fort Frances Airport - Page 2/2 - Fuel Sales - May 31, 2021

Fuel Sales Recap - 2021									2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	10 year	Variance 2021-2020
	100LL		Jet Trk		Jet Cab		Month	Year	per	per	per	per	per	per	per	per	per	per	Average	per month
Month	Liters	Total	Liters	Total	Liters	Total	Total	Total	month	month	month	month	month	month	month	month	month	month	2021 to 2012	month
January	725	725	4,058	4,058		0	4,783	4,783	4,783	7,962	8,050	16,597	25,675	7,528	8,692	11,543	7,216	10,252	11,502	-3,179
February	1,023	1,748	6,424	10,482		0	7,447	12,230	7,447	5,077	7,991	16,286	12,503	11,904	11,231	12,304	6,197	6,918	10,046	2,370
March	1,107	2,855	15,715	26,197		0	16,822	29,052	16,822	6,473	13,716	9,798	21,928	13,255	17,795	10,508	12,077	9,329	12,764	10,349
April	676	3,531	11,388	37,585		0	12,064	41,116	12,064	1,459	13,010	10,398	13,102	8,592	13,219	8,377	4,453	8,251	8,985	10,605
May	1,940	5,471	14,609	52,194		0	16,549	57,665	16,549	11,685	18,667	24,839	21,362	24,681	16,161	29,753	18,350	21,891	20,821	4,864
June		5,471		52,194		0	0	57,665	0	8,082	31,063	27,380	27,380	26,015	45,698	30,789	22,786	23,537	26,970	-8,082
July		5,471		52,194		0	0	57,665	0	11,116	17,146	23,461	24,642	29,002	28,150	14,441	19,232	32,650	22,204	-11,116
August		5,471		52,194		0	0	57,665	0	7,530	17,024	30,430	23,029	21,119	36,638	20,450	20,075	30,783	23,009	-7,530
September		5,471		52,194		0	0	57,665	0	14,689	16,543	25,191	13,489	21,325	24,238	21,837	18,005	19,431	19,416	-14,689
October		5,471		52,194		0	0	57,665	0	4,307	9,076	10,769	16,604	30,655	8,216	15,472	13,109	11,325	13,281	-4,307
November		5,471		52,194		0	0	57,665	0	13,333	2,202	10,748	9,924	22,349	11,616	7,238	6,398	8,170	10,220	-13,333
December		5,471		52,194		0	0	57,665	0	5,333	5,852	13,243	6,560	13,797	7,592	6,849	2,028	8,179	7,715	-5,333
Total	5,471		52,194		0		57,665		57,665	97,046	160,340	219,140	216,198	230,222	229,246	189,561	149,926	190,716	186,933	-39,381

Lowest month in last 9 years
Highest month in last 9 years
Highest month
lowest month

2021 - Tonnage at Landfill Site - Updated June 4, 2021

MONTH	Residential Waste (tonne)	Res (%)	ICI Waste (tonne)	ICI (%)	Non Community Waste (tonne)	Non Community Waste (%)	Covering Material (tonne)	2020 Total Tonne	Average last 10 years Total Tonne 2011 to 2020	2021 Total Tonne	2020 Total Fees	Average last 10 years Fees 2011 to 2020	2021 Total Fees	2020-2019 Tonnes	2020-2019 Fees
JAN	229.16	49.9%	221.64	48.264%	8.42	1.8%	0.00	430.73	421.97	459.22	$ 27,424.15	$ 22,810.82	$ 25,366.15	28.49	-$ 2,058.00
FEB	139.10	35.7%	242.80	62.338%	7.59	1.9%	163.96	395.65	344.29	389.49	$ 23,407.65	$ 17,034.00	$ 24,123.20	-6.16	$ 715.55
MAR	242.51	24.8%	660.86	67.450%	76.40	7.8%	0.00	443.95	424.03	979.768	$ 29,051.15	$ 23,642.71	$ 37,106.95	535.82	$ 8,055.80
APRIL	237.07	33.7%	455.76	64.845%	10.01	1.4%	1805.60	611.34	573.51	702.84	$ 42,244.30	$ 32,712.97	$ 45,566.13	91.50	$ 3,321.83
MAY	315.73	44.8%	381.34	54.076%	8.12	1.2%	2672.47	777.33	740.72	705.19	$ 50,040.01	$ 39,340.52	$ 45,287.00	-72.14	-$ 4,753.01
JUNE		#DIV/0!		#DIV/0!		#DIV/0!		600.08	818.98	0	$ 50,850.20	$ 39,940.83		-600.08	-$ 50,850.20
JULY		#DIV/0!		#DIV/0!		#DIV/0!		670.42	607.43	0	$ 49,691.30	$ 36,877.55		-670.42	-$ 49,691.30
AUG		#DIV/0!		#DIV/0!		#DIV/0!		770.21	700.85	0	$ 55,399.40	$ 37,960.82		-770.21	-$ 55,399.40
SEPT		#DIV/0!		#DIV/0!		#DIV/0!		862.70	684.18	0	$ 53,936.60	$ 38,481.31		-862.70	-$ 53,936.60
OCT		#DIV/0!		#DIV/0!		#DIV/0!		725.18	842.38	0	$ 49,042.25	$ 43,709.40		-725.18	-$ 49,042.25
NOV		#DIV/0!		#DIV/0!		#DIV/0!		591.91	574.84	0	$ 36,599.30	$ 30,714.80		-591.91	-$ 36,599.30
DEC		#DIV/0!		#DIV/0!		#DIV/0!		553.52	438.58	0	$ 29,234.45	$ 22,463.35		-553.52	-$ 29,234.45
Average per monthly	232.71	43%	392.48	55%	22.11	2%	928.41	619.42	597.65	269.71	$ 41,410.06	$ 32,140.76	$ 35,489.89	649.65	-$ 45,568.03
Total	1163.57		1962.40		110.54		4642.03	7433.01	7171.74	3236.51	$ 496,920.76	$ 385,689.08	$ 177,449.43	-4196.50	-$ 319,471.33

	$ 460,321.46	Actual	$ 177,449.43
	$ 414,194.00	Budget	$ 440,000.00
	$ 496,920.76	Forecasted	$ 425,878.63

Town of Fort Frances Tonnage	3125.97	
Total Tonnage	3236.51	
Residential Tonnage	1163.57	35.95%
ICI Tonnage	1962.40	60.63%
Coverage material	4642.03	