

TOWN OF FORT FRANCES

Operations and Facilities Executive Committee

AGENDA - September 9, 2015, 8:30 AM

MEETING - Civic Centre

Session #015

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<u>Call to Order</u>	
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<u>Disclosure of pecuniary interest and the general nature thereof</u>	
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TOWN OF FORT FRANCES

MINUTES

SESSION NO. #014

July 8, 2015

The meeting of Operations & Facilities Executive Committee of the Town of Fort Frances was held in the Civic Centre on July 8, 2015 from 8:30 a.m. to 8:50 a.m.

PRESENT: Paul Ryan, Chairperson, Doug Kitowski, June Caul, Mark McCaig, CAO and Doug Brown.

ALSO PRESENT: Travis Rob (8:50 a.m. to 9:10 a.m.), Doug Herr (8:30 a.m. to 8:50 a.m.) and Milt Strachan (8:30 a.m. to 8:50 a.m.)

1. Call to Order

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

2. Disclosure of pecuniary interest and the general nature thereof

- 2.1. None.

3. Approval of Previous Committee Minutes

- 3.1. Minutes from meeting of this Committee on June 17, 2015 - the minutes were approved as circulated.

4. Non-agenda Items

- 4.1. The letter dated June 23, 2015 to Mayor Roy Avis from the Ministry of Transportation in regards to designing the Connecting Link Highway Funding Program was received. The Operations & Facilities Executive committee provided additional information in regards to answering the 4 required questions. The Operations & Facilities Manager will prepare the answers and forward to the CAO in order that a letter can be sent to the Ministry of Transportation prior to the August 7, 2015 deadline.

5. New Business

- 5.1. DWQMS Management Review - the administration report was reviewed and will be forwarded to Council for approval.
- 5.2. May 2015 Drinking Water Systems Monthly Summary Report - the May 2015 Monthly Drinking Water report was reviewed and will be forwarded to Council for approval.
- 5.3. Sweeper Tender - this item was done prior to item 5.2 for employee attendance purposes - the administration report was reviewed and will be forwarded to Council for approval. Both Doug Herr and Milt Strachan left the meeting at 8:50 a.m.
- 5.4. Semi Annual Division Report - the semi annual report was reviewed where Chairperson, Councillor Paul Ryan will be providing a verbal update at the July 13, 2015 Council meeting.

6. Outstanding Items

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

7. Information

- 7.1. Annual Energy Consumption Submission and Corporate Energy Consumption Review - this agenda item was moved up prior to agenda item 5.4 under New Business to accommodate staff attendance - the administration report prepared by Travis Rob was reviewed where the Operations & Facilities Executive committee were given the opportunity to obtain clarification from Travis Rob. Travis Robe left the meeting at 9:10 a.m. The administration report will be forwarded to Council as information only. No action required.
- 7.2. Operations and Facilities Division - Environmental Area - Operations Statistics - April 2015 - the Operational Statistics for April 2015 for the Environmental Area were reviewed and will be forwarded to Council as information only. No action required.
- 7.3. Operations and Facilities Division - Environmental Area - Operations Statistics - May 2015 - the Operational Statistics for May 2015 for the Environmental Area were reviewed and will be forwarded to Council as information only. No action required.

8. Adjourn / Next Meeting Date

9:50 a.m.

- 8.1. Next meeting date is Wednesday September 9, 2015

There being no further matters before this Committee at this time this meeting was closed.

Executive Committee Chair

D. Brown, Manager of Operations & Facilities

September 3rd, 2015

Report To: Mayor & Council

From: Operations & Facilities Executive Committee


SUBJECT: Request from Kellie & Bob Whalen – 1316 - 6th Street East – Not to be Responsible for the Costs to Upgrade the water service line from ½ inch diameter to ¾ inch diameter from the watermain to the Curb Stop Valve.

Kellie & Bob Whalen, property owners of 1316 – 6th Street East wrote a letter dated August 12, 2015 to Mayor & Council requesting not to be responsible for the costs to upgrade the water service line from existing ½ inch diameter to ¾ inch diameter from the watermain to the curb stop valve based on the fact that the Town did not know the actual size of the service line and that they claim that incorrect information was obtained from Town employees. See attached copy of the letter from Kellie & Bob Whalen.

Also please find attached a chain of events report, prepared by Doug Herr, Environmental & Facilities Superintendent for your review which outlines the communication that took place prior to up-sizing the water service line on August 12, 2015 where the total cost including the asphalt patch was \$4,503.75 (No HST water work).

Based on the chain of events report, subsections 6.8 & 2.1 of existing Water System Management By-law No. 16/06 and clause 7.6.3.4 of the Ontario Building Code (See attached information), it is difficult to understand how the Town would be responsible for the cost to up-size the water service line for the property at 1316 – 6th Street East.

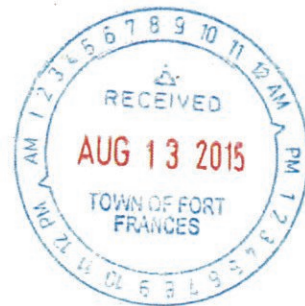
Respectfully submitted,



Doug Brown, P. Eng.
Operations & Facilities Manager

f/n: 2015Septwhalenwater

1316 - 6TH STREET EAST



The Town of Fort Frances
320 Portage Ave.
Fort Frances, ON

August 12, 2015

Dear Mayor and Council;

We recently purchased a home with intentions to renovate.

While we debated the extent of our reno's, we had the sewer inspected (which was in great shape) and we were told that the water lines on our street were upgraded to $\frac{3}{4}$ inch at the curb stop. Due to this information we decided to proceed with a more extensive renovation and so we were aware that we would have to upgrade the $\frac{1}{2}$ inch water line on our property.

Imagine our disappointment when we dug it up and discovered it was still $\frac{1}{2}$ inch at the curb stop. Had we been given this information prior, we would not have done such an extensive reno, and we would not have had to upgrade the $\frac{1}{2}$ inch water line.

The Public Works manager said it didn't matter what we were told, only that we would now have to pay \$3-5000 to upgrade to the main on town property. This was never in our budget, and would have changed the course of events significantly had we known.

We do not believe this is fair to us at all, and in fact, we are very upset with this situation. The information given to us was incorrect. We should not be made responsible to pay for the upgrade from the curb stop to the main.

We are requesting the opportunity to attend the next Operations and Facilities meeting to discuss our situation. We can be reached at 274-6552 or 276-2581.

Thank you.

Sincerely,

Kellie Whalen

Bob Whalen

Chain of Events
1316 SIXTH STREET EAST
(Bob and Kellie Whalen)
Water Service (Undersized)

- July 09, 2015 – Travis George and Kyle Turgeon completed an inspection of the sanitary sewer service using a closed circuit television camera. The inspection showed the service to be in good structural and serviceable condition. Owner advised of this. The water to the premises was also turned off at this time as per the Owner's request.

While at the site inspecting the sewer service the Owner, Bob Whalen asked Travis George about the condition of the water service line. Travis indicated to him that the water services into 1308 and 1324 Sixth St. E. had been upgraded in the past to $\frac{3}{4}$ " (19 mm) diameter copper and thought the same would be for this property as well. Water service line was not excavated and exposed at the property line to verify this.

- August 04, 2015 – I received a telephone call from Travis Rob, Chief Building Official informing me that he had been made aware that the existing water service, Town side was only $\frac{1}{2}$ " (12 mm) copper. Travis told me that he had discussed with the Owner what was to take place regarding the under sizing of the water service.

Approximately 20 minutes after talking with Travis Rob, Mr. Whalen came into the Public Works building to see me. Mr. Whalen claimed that he was told that the Town portion of the water service had been upgraded to $\frac{3}{4}$ " diameter copper. It was only when they excavated down to the curb stop at the property line to make the connection did they discover the water service was $\frac{1}{2}$ " diameter on the Town's side. I explained to Mr. Whalen that the service would have to be upgraded to $\frac{3}{4}$ " diameter copper line at his expense. Mr. Whalen questioned why he would have to pay for the upgrade when the line is on the Town's property. I informed him that this is in respect to the Town's water by-law. Mr. Whalen then asked what the cost would be for the installation. I gave him a price of \$3,000 - \$5,000. Mr. Whalen was not impressed and walked out of the office implying that he was going to see his lawyer.

An hour or so later I received a telephone call from Mr. Whalen's lawyer. He informed me that he was calling in respect to Mr. Whalen's request. He asked me what had taken place and I informed him that all was being done in accordance with the Town's water by-law. He told me he would explain this to his client.

Shortly after my conversation with Mr. Whalen's lawyer I received a telephone call from Mr. Whalen telling me that his wife would be in later that day to fill an application for the installation of the new water service.

Shortly thereafter Mrs. Whalen came into the Public Works building. She made it quite clear that she wasn't happy with the situation. She did though complete the necessary application and paid the deposit. I informed her that the work could not be done this week

as the Town had to arrange for utility locates, which could take up to seven days to receive. Once they are obtained the Town would proceed with the work.

- August 12, 2015 – The Town replaced the existing ½” copper water service with new ¾” copper line from the water main to the property line at a cost of \$4, 503.75.

- a) Where the water service pipe is to be permanently terminated the service pipe, at the discretion of the Engineer is to be disconnected at the water main, the water main plugged, and the curb box and rod removed at the owner's expense.
- b) Where the water service pipe is to be temporarily terminated, the Town shall turn off the shut-off valve (curb stop), at the owner's expense.

6.8 Terminated of service – reconnection – inspection

Where a water service connection is required to be reconnected to a premises, such service shall be dug by the Owner/Applicant at the property line, water service expose and inspected by the Town to ensure that such service meets present standards.

If existing service is acceptable the Owner may proceed with its installation. Connections to existing services are to be inspected by the Town prior to backfilling at the inspection rate as set within this by-law.

If existing service does not meet present standards or by-law requirements the Owner shall make application for new service as described in Section 2.1 of this by-law.

The Owner/Applicant shall be liable for the cost of locating water service connections upon application for reconnection.

6.9 Maintenance of service stub – Town

The Town of Fort Frances at its expense shall maintain the water service stub.

6.10 Maintenance of service extension and private main – Owner

Any and all defects to the water service extension and private main shall be repaired by the owner of the property being serviced. Should the Town become aware of any such defect, and upon written notification to the owner, the said defect is not repaired, within seven (7) days of the date of the notification or within such time as the Engineer may deem necessary, then the Town may turn off the water supply to the property. Once the owner has repaired the water service extension the Town will restore the water supply to the premises. The owner shall be charged for the turn "off"/"on" of the water supply in accordance with the Town's User Fee By-law.

6.11 Access to shut-off valves

All shut-off valves must be left clear and accessible at all times so that the water in the water service pipe and private mains may be turned off or on as may be found necessary by the Engineer.

6.12 Responsibility for protection, water loss, damage

All water service extensions to and including the meter shall be properly protected from frost and any other damage at the expense and risk of the owner of the property being serviced. The owner shall be responsible for the water loss occasioned by a leak in the water service extension and/or private main and the charge for such water loss shall be determined by the Engineer, shall be paid by the owner upon demand by the Town, and the Town shall not be held responsible for any damages arising from such leakage.

6.13 Responsibility - vacant and unheated premises

When any premises is left vacant or without heat, it is the owner's responsibility to shut off the water supply from within the premises and to drain the piping therein. The owner may apply in writing to the Town to have the shut-off valve turned off to stop water supply. The valve will be turned on only at the owner's request and in the owner's presence. The owner shall pay for this service at the rate shown in accordance with the Town's User Fee By-law.

6.14 Responsibility - water damage

When any premises left vacant, unattended or without heat, where the water supply has not been shut off, suffers damage to it and its contents from a leaking or burst water pipe, the owner or the occupant shall have no claim against the Town. Should the Engineer become aware of such leaking or burst pipes, the Engineer shall turn off the shut-off valve, and the water supply shall not be turned on until the Engineer, in his/her discretion, shall consider it advisable.

6.15 Responsibility for frozen pipes - Town - Owner

Thawing out frozen water service stubs shall be the Town's responsibility. Thawing out frozen service extensions and private mains shall be the owner's responsibility. Where any employee of the Town assists the owner in the thawing of frozen pipes on the owner's property, all such work will be the owner's expense as outlined in this by-law. The owner shall have no claim against the Town by reason of such work.

6.16 Responsibility for Hydrant Maintenance – Town – Private

Any hydrant situated within the road allowance is the property of the Town and shall be maintained by it. Hydrants privately owned and paid for by any persons, other than the Town shall be maintained by qualified persons or the Town through a written agreement. All hydrants are to be maintained as per the *Ontario Fire Code*.

1.31 Service Stub - defined

"service stub" shall mean the portion of a water service pipe from a main to the property line, which will always include shut-off valve.

1.32 Shut-Off Valve - defined

"shut-off valve" shall mean the valve on the water service or private main owned and used by the Town to shut off or turn on the water supply from the Town's waterworks distribution system to any premises. Where the context so requires, "shut-off valve" means a "curb stop".

1.33 Single Detached Residence - defined

"single detached residence" shall mean a single dwelling, which is freestanding, separate and detached from other main buildings or main structures, including a split-level dwelling, but does not include a mobile home.

1.34 Subdivider - defined

"subdivider" shall mean the owner or party specifically named in a Subdivision Agreement.

1.35 Termination of service – defined

"termination of service" shall mean the discontinuation of use of a water service to supply water to a premises, either on a permanent or temporary basis.

Permanent termination – where the existing water service will not or cannot be used or where no building requiring a water service is planned.

Temporary termination – where the existing water service will or can be used, or where a building requiring a water service is planned for construction within a specified period of time.

1.36 Town - defined

"Town" shall mean The Corporation of the Town of Fort Frances.

1.37 Water - defined

"water" shall mean potable water supplied by the Town.

1.38 Water Distribution System - defined

"water distribution system" shall mean mains with connections to feeder mains, feeder mains within subdivision lands, private mains, services, fire hydrants, and shut-off valves and all other appurtenances thereto.

1.39 Water Related Services - defined

"water related services" shall include but not be limited to those items set out under the heading "Miscellaneous Charges" in accordance with the Town's User Fee By-law.

1.40 Water Service Pipe - defined

"water service pipe" shall mean the pipe and fittings that convey potable water from a connection on a main or private main to the meter location, or, for a fire service, to the inside of the exterior wall of a structure.

1.41 Waterworks - defined

"waterworks" shall mean any works for the collection, production, treatment, storage, supply and distribution of water, or any part of any such works, but does not include plumbing to which the *Building Code Act, 1997*, or any amendments thereto apply.

**Part 2
ADMINISTRATION**

2.1 Application - payment prior to installation

An application for water service from the Town shall be completed on the standard forms and any required deposit payments shall be made by the owner or their authorized agent before any work is commenced on the installation of the water service and before the water service is turned on.

2.2 Application – termination of service – building demolition – permanent/temporary

In the event of the demolition of any building or buildings on a premise serviced with water and the appropriate application is to be made with the Town for termination of such water service:

- a) Where the existing water service will not or cannot be used or where no building requiring a water service is planned is to be permanently terminated.
- b) Where the existing water service will or can be used, or where a building requiring a water service is planned for construction within a specified period of time is to be temporarily terminated.

Table 7.6.3.2.C.
Sizing of Water Distribution Systems for Water Closets with Direct Flush Valves
 Forming Part of Sentences 7.6.3.2.(4) and 7.6.3.4.(5)

Number of Valves	Individual <i>Fixture Units</i> Assigned in Decreasing Values	<i>Fixture Units</i> in Accumulative Values ⁽¹⁾
1	40	40
2	30	70
3	20	90
4	15	105
5 or more	10 for each <i>public use</i> , and 6 for each <i>private use</i>	115, plus 10 for each <i>public use</i> additional <i>fixture</i> in excess of 5, and 111, plus 6 for each <i>private use</i> additional <i>fixture</i> in excess of 5
Column 1	2	3

Notes to Table 7.6.3.2.C.:

- (1) The accumulative *fixture unit* values are the total values to be used in conjunction with Table 7.6.3.2.A.

Table 7.6.3.2.D.
Hydraulic Loads of Fixtures Not Listed in Table 7.6.3.2.A.
 Forming Part of Sentences 7.6.3.2.(2) and (3) and 7.6.3.4.(5)

Size of Supply Pipe, in.	Hydraulic Load, <i>fixture units</i>	
	<i>Private Use</i>	<i>Public Use</i>
$\frac{3}{8}$	1	2
$\frac{1}{2}$	2	4
$\frac{3}{4}$	3	6
1	6	10
Column 1	2	3

7.6.3.3. Static Pressure

- (1) Where the static pressure at any *fixture* may exceed 550 kPa, a pressure reducing valve conforming to Article 7.2.10.12. shall be installed to limit the maximum static pressure at the *fixture* to 550 kPa.

7.6.3.4. Size

- (1) Every *water service pipe* shall be sized according to the peak demand flow but shall not be less than $\frac{3}{4}$ in. in size.
- (2) Except as permitted in Sentence (3), the *size* of a supply pipe that serves a *fixture* or device shall conform to Table 7.6.3.2.A.
- (3) For *fixtures* listed in Table 7.6.3.2.A that have a permitted supply pipe *size* of $\frac{3}{8}$ in., a connector not more than 750 mm long and not less than 6.3 mm inside diameter may be used to supply water to the *fixture* or device.
- (4) No *water system* between the point of connection with the *water service pipe* or the water meter and the first branch that supplies a water heater that serves more than one *fixture* shall be less than $\frac{3}{4}$ in. in *size*.
- (5) Where both hot and cold water is supplied to *fixtures* in residential *buildings* containing one or two *dwelling units* or row houses with separate *water service pipes*, the *water system* may be sized in accordance with Table 7.6.3.4. where,

August 28, 2015

Report To: Mayor & Council

From: Operations & Facilities Executive Committee

**SUBJECT: Request from Police Services Board for Funding to Purchase
Permanent Radar Speed Signs**

Mr. Rick Wiedenhoeft, Chair of the Police Services Board wrote a letter to Mayor & Council requesting funds to Purchase Permanent Radar Speed Signs to be installed along some sections of roadways in the community where there are "Chronic Speeders" such as King's Hwy. 11-71 between Central Avenue to Keating Avenue. See attached copy of the letter.

I have taken the liberty to obtain a quote from a traffic sign supplier for one solar powered Speed Reader c/w Universal Bracket, one additional pole plate and a data collector. The Speeder reader sign has the capability of attaching a data collection record where additional data can be collected such as vehicle count. See attached information.

There is no funding set aside in the Town's 2015 budget for a purchase of this equipment. The Town could consider this equipment as a capital item in 2016 and go through the normal capital budget approval process.

Respectfully submitted,

A handwritten signature in cursive script that reads "Doug Brown".

Doug Brown, P. Eng.
Operations & Facilities Manager

f/n: 2015AugustPoliceServiceBoardrequest

POLICE SERVICES BOARD

July 22, 2015

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

Attention: Mayor and Council

Dear Sirs and Madams:

At the recent meeting of the Police Services Board held July 10, 2015, the issue of "permanent speed signs" was discussed.

The Board would like to suggest that funds be set aside in the Police Services Board Budget annually to purchase "permanent speed signs" for areas in town that have chronic speeders, such as Colonization West and the 4 lanes from Central Avenue to Keating Avenue.

This topic has been an ongoing issue with the Board and the OPP.

Yours truly

A handwritten signature in black ink, appearing to read 'R. Wiedenhoeft', with a large, stylized flourish at the end.

Rick Wiedenhoeft
Chair

/elh



QUOTATION

Company: Fort Frances
Contact: Gerry
Phone: 807 274 2036
Fax:
Email: gfawley@fort-frances.com

August 26, 2015

Thank you for the opportunity to quote on your signage requirements.

As per your request for pricing:

QTY	SIZE	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1		SP450 Solar Powered Speed Reader	\$3,999.99	\$3,999.99
1		Universal Bracket (C/W one pole plate)	\$175.00	\$175.00
1		Additional Pole Plate	\$79.00	\$79.00
1		Data Collection	\$450.00	\$450.00
			TOTAL	\$4,703.99

Specifications:

Substrate: 5052 H38 Sign Grade Aluminum (2mm Thickness)

NOTES:

Delivery time approx 10-15 working days

Taxes Extra

Prices in effect for 45 days.

If you have any questions please call me.

Ryan Montgomery
Airmaster Sales Ltd.
Phone (204) 944-SIGN (7446) Cell (204) 781 2966
Toll Free 1 800 788 6805

400 Keewatin Street
Winnipeg, MB R2X 2R9
Fax (204) 632 9747
Toll Free 1 877 632 9747
ryanm@airmastersales.com

Traffic Logix® SafePace® 450 Radar Speed Sign

Product Specifications



Dimensions

- Digit: 15.0"(h) x 8.0"(w), 112 LEDs per digit
- Text:
 - Full Size: Letters 6.0"(h) spell "YOUR SPEED" fixed message, 2 lines
 - Compact Size: Letters 4.0" (h) spell "YOUR SPEED" fixed message, 1 line
- Unit alone: 21.5"(h) x 26.0"(w) x 3.0"(d)
- Unit with "YOUR SPEED" sign mounted:
 - Full Size: 40.0"(h) x 30.0"(w) x 3.0"(d)
 - Compact Size: 28.0"(h) x 28.0"(w) x 3.0"(d)
- Sign Weight (unit alone without "YOUR SPEED" sign)
 - AC Powered Model: 18 lbs
 - 4 Cell Battery Powered Model: 22 lbs
 - Solar Powered Model: 20 lbs (does not include solar panel or solar panel bracket)
- Accessories
 - 4 Cell Lithium Ion Battery: 4 lbs
 - Universal Mounting Bracket System
 - Sign Bracket: 2 lbs
 - Pole Bracket: 5 lbs

*ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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Technical Specifications:

- Miles Per Hour (mph) or Kilometers Per Hour (km/h)
- Aluminum protective cover: 0.1875" (d)
- Yellow or white High-Intensity prismatic reflective sheeting on the sign face with black colored text
- MUTCD approved colors and format
- Operating Temperatures F (C): -40° (-40°) to 185° (85°)
- Conformal coating on all circuit boards
- Power
 - Power input:
 - AC 100~240 VAC
 - 12 VDC
 - Built in ambient light sensing and automatic brightness control
 - Wireless battery charge monitor
 - Power Options
 - AC power input: 100~240 VAC
 - DC power input: 12 VDC
 - Solar power: 20 W solar panel
- Radar
 - Internal Radar: Doppler (FCC approved)
 - Radar RF out: 5 mW maximum
 - Radar f-center: 24.125 GHz center +/-25 MHz
 - Pickup distance: Up to 1,200 feet (366 m)
 - Beam angle: 11° x 11°
 - Beam polarization: Linear
 - FCC ID (Radar): TIADR1500
- Display
 - LEDs 245:
 - Digits: 224 Amber, 23°, 5 mm, luminous Intensity (5680 – 8200 mcd/LED)
 - Speed Violator Strobe: 21 White, 15°, 5 mm , luminous intensity (28,150 mcd/LED)
 - Optical lenses: 245 lenses
 - Ambient light sensor and automatic brightness adjustment

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- Enclosure
 - 12 gauge aluminum, flat black powder coated front for reduced glare and maximum contrast; light gray powder coated body to minimize heat absorption
 - Weatherproof, NEMA 4X-12, IP65 level compliant
 - Non-sealed and ventilated
- Mounting Options
 - Banding brackets (standard)
 - Universal Mounting Bracket System
 - Universal mounting options: circular, square and telspar poles
 - Theft resistant
 - Promotes sign portability: sign locks into mounting bracket with a turn of a key

Communication

- Bluetooth 3.0
- Wi-Fi

Programming

- SafePace® Pro management software
- 24/7 365 day unlimited programming and scheduling
- Display Settings:
 - Display On/Stealth Modes (In Stealth Mode, speed is not displayed but data is collected)
 - Display Minimum Speed, Display Maximum Speed
 - Digit Flashing Speed Threshold (digits flash above selected speed)
 - Speed Violator Strobe (pulsing strobe flashes with digits or alone above Display Maximum Speed)

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Ver. 1.0

Data Collection and Statistical Analysis & Reporting (optional feature)

- Traffic data collected and stored by location
- Stealth Mode (capture baseline traffic data with speed display off)
- Download through wireless connection
- Statistical Reporting & Charts
 - Summary Reports
 - Weekly Reports
 - Period Comparison Reports
 - Full custom reports and charts
 - Reporting Parameters:
 - Average Vehicle Count
 - Total Vehicle Count
 - Average Speed
 - Average Number of Speed Violations
 - Total Number of Speed Violations
 - Other Features:
 - Minimum and Maximum Speed
 - 85% Speed
 - Counters by Speed Bins
 - 5 MPH Bin Resolution
 - Reports print directly or can be exported into CSV format, MS Excel, Adobe Acrobat PDF and HTML
 - Charts may be printed directly or converted into Adobe Acrobat PDF and picture formats

***ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**



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Warranty

Subject to the following conditions, Traffic Logix® Corporation ("Traffic Logix®") warrants that the SafePace® 400/450/500/600 Speed sign sold by it (the "Product") is free from defects in materials and workmanship with normal use and service. This limited warranty extends for TWO (2) calendar year beginning on the invoice date of the Product on the radar sign and TEN (10) years on the LEDs.

This limited warranty extends only to the original purchaser of the Product when purchased either directly through Traffic Logix® or through an authorized Traffic Logix® distributor and is not assignable or transferable to any subsequent purchaser or end-user. Traffic Logix's® obligation and liability under this warranty are expressly limited to repairing or replacing, at Traffic Logix's® option, defective products. In no circumstances shall Traffic Logix's® liability, whether in contract or tort, under any warranty, in negligence, or otherwise, exceed the amount of the purchase price of the product. Traffic Logix® shall not be liable for special, indirect, or consequential damages of any kind. This warranty does not cover damages resulting from normal wear and tear, incorrect installation or operation, use other than for the product's intended purposes, vandalism, and extraordinary environmental circumstances. Traffic Logix® reserves the right to charge for these damages to the product at rates normally charged for repairing such products not covered under this warranty. Damages resulting from any physical changes or alterations made to the product other than Traffic Logix® will render this warranty **VOID**. Using any parts or accessories not supplied or approved by Traffic Logix®, such as battery chargers, will further render the warranty **VOID**.

Traffic Logix® neither assumes, nor authorizes any person to assume for it, any other liability in connection with the sale of the Product, and there are no agreements or warranties collateral to or affecting this limited warranty. **THE LIMITED WARRANTY SET FORTH IN THIS AGREEMENT IS THE EXCLUSIVE AND SOLE WARRANTY APPLICABLE TO THIS PURCHASE. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED.**

Traffic Logix® does not warrant that any of its products will meet or comply with the requirements of any applicable federal, state or local safety code, law, regulation or ordinance ("Applicable Safety Laws"). Buyer acknowledges that Traffic Logix's® products are to be used only in accordance with the attached Conditional Terms of Use and any Applicable Safety Laws. Buyer agrees that there shall be no coverage or benefits of any kind under this limited warranty if it is determined by Traffic Logix® that the Product was not installed or used in accordance with the Conditional Terms of Use or Applicable Safety Laws, or if the Product has been altered in any way by anyone other than Traffic Logix®, or if the Product has been subject to any misuse or accident. In addition, Buyer assumes and agrees to

***ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**



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indemnify Traffic Logix® for all risk, liability or expense that results from any installation or use of the Product that is not in accordance with the Conditional Terms of Use or any Applicable Safety Laws.

Warranty Replacement Procedure

In order to submit a claim for the repair or replacement of the Product under this limited warranty, you must do the following:

- 1) Obtain a Return Materials Authorization number by contacting Customer Support. Do not ship your defective product to Traffic Logix® prior to contacting Customer Support.
- 2) A Customer Support agent will evaluate the Product to determine if it is defective. If the product is defective, then you will need to submit your contact information, and proof of purchase (including the date of purchase), in order to obtain repair or replacement parts.
- 3) The Customer Service Agent will provide you with instructions on how to have defective parts repaired or replaced.

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SafePace 450 Solar Panel

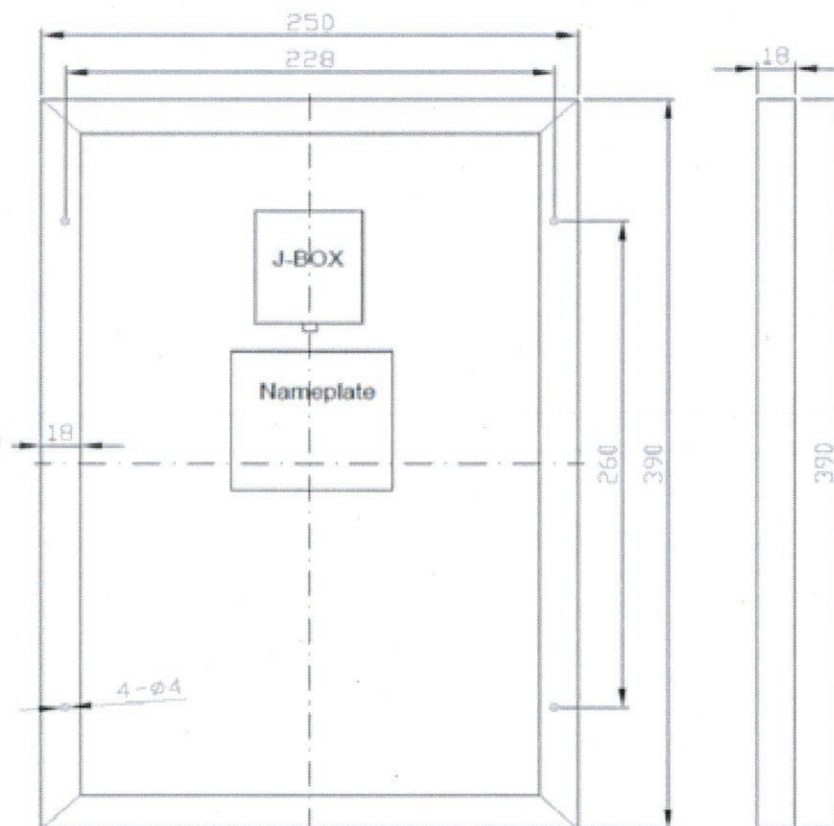
Power Output: 20 W

Operation Temperature Range: - 40°C~85°C

Construction:

- **Laminate:** Glass /EVA / TPT (tedlar/pet/tedlar) or TPE
- **Front Side:** High-transmission 3.2mm tempered glass
- **Back Side:** TPT /TPE
- **Frame:** Clear anodized aluminum frame
- **Output :** Junction box

Dimensional Drawing: (dimensions in mm)



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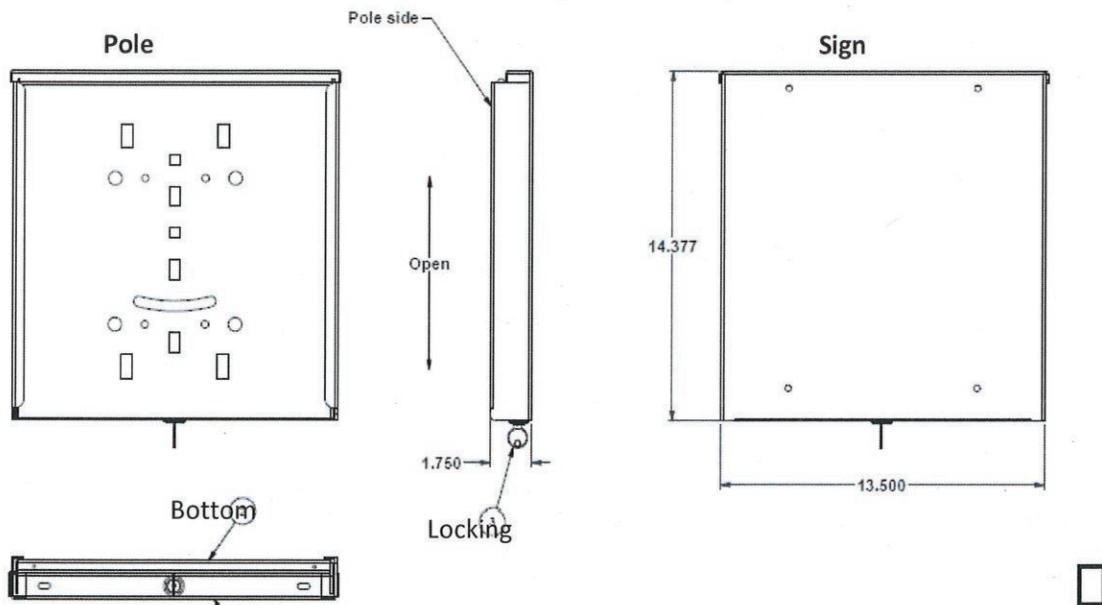


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Universal Mounting Bracket System



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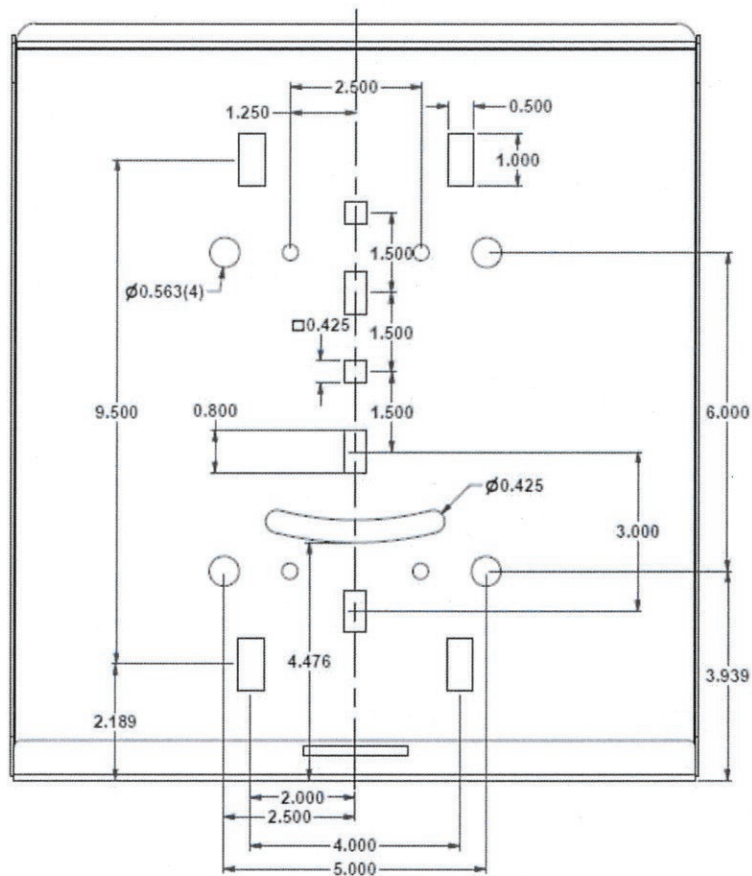


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Inside view



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Installation Guide: SafePace 100 Universal Mounting Bracket System

With the **Universal Mounting Bracket System**, the SafePace 100 Radar Speed Sign can easily be mounted and dismounted from the installation pole with just the turn of a key. This quick mount and dismount feature readily allows the sign to be moved from one location to another with relative ease and convenience. Additional pole brackets can be purchased separately.

Components:

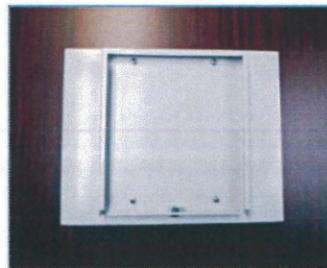
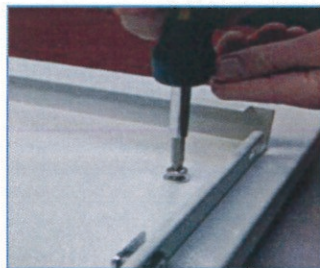
- SafePace 100 Radar Sign – available at SafestParkingProducts.com
- Universal Mounting Bracket System (includes 1 sign bracket & 1 pole bracket)
- Installation Hardware (included)

**** Please refer to our “General Installation Guide: SafePace 100 Radar Sign” document for choosing the proper installation location and further details.**

Installing the Mounting Brackets

Sign Bracket

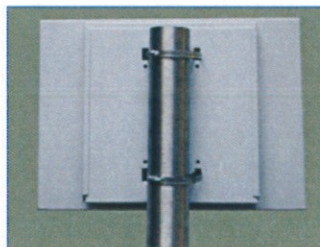
Attach the Sign Bracket to the backside of the SafePace 100 Radar Sign using the included hardware.



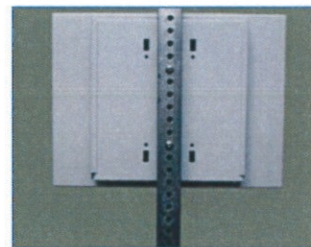
Use supplied hardware to mount the Sign Bracket to the rear of the SafePace 100

Pole Bracket

The Pole Bracket can be secured to any type of standard pole or Telespar type pole by a choice of banding straps, lag screws, or bolts and nuts.



Pole bracket mounted to circular pole



Pole bracket mounted to 2" Telespar pole

Installation of the Pole Bracket using supplied banding straps



Figure 3.1

Pole bracket banded to utility pole.



Figure 3.2

Additional lag bolts should be used for added security.



Figure 3.3

Profile view of pole bracket banded.

NOTE: It is highly recommended that if banding is used to secure the Pole Bracket additional screws and/or bolts should also be used (see Figure 3.2 above) to further prevent theft and vandalism.

Installation of Pole Bracket on Telespar Pole (Note: a 2 inch Telespar pole should be used)

Use the supplied 2.5" stainless steel security bolts and nuts to secure the Pole Bracket to the 2" Telespar pole. **Note:** It is very important that the head of the bolt be placed on the Telespar pole (See Figures 4.1 and 4.2) and that the nuts be placed on the inside part of the bracket (see Figures 4.3 and 4.4).

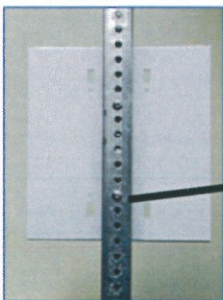


Figure 4.1

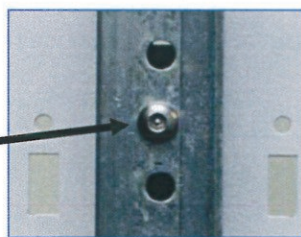


Figure 4.2

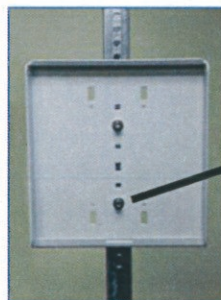


Figure 4.3

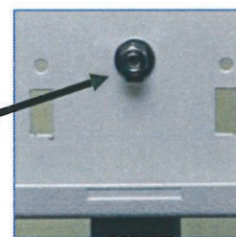


Figure 4.4

Mounting and Dismounting the SafePace 100

The SafePace 100 easily mounts by sliding the sign down onto the Pole Bracket and dismounts by sliding the sign up off of the Pole Bracket. Once mounted, the sign should be locked into place as shown in Figure 5.3.



Figure 5.1

Step 1: Position the sign above the bracket.



Figure 5.2

Step 2: Slide the sign down the bracket.

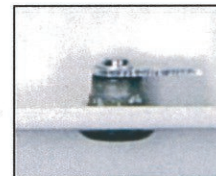


Figure 5.3

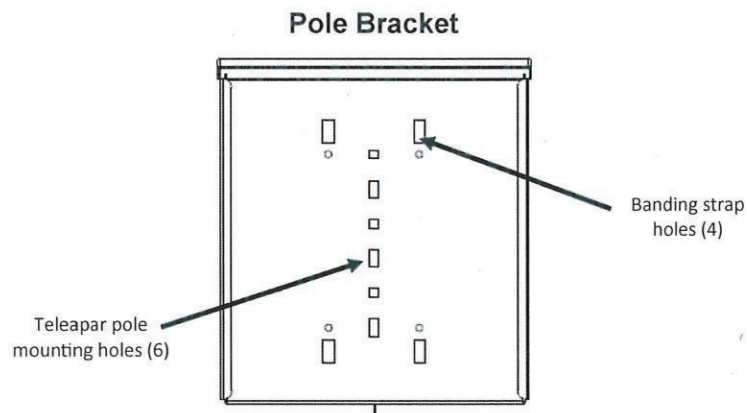
Step 3: Lock the sign in place.



WARNING: To prevent damage to the locking mechanism of the Universal Mounting Bracket System, the key must be removed from the lock and the locking mechanism must be set in the "unlocked" position (see picture on right) **BEFORE** sliding the sign ON or OFF of the Pole Bracket.



Locking Mechanism in "unlocked" position



** Detailed installation instructions (i.e. how to connect the proper power source and optional Solar Panel) are shipped with every SafePace 100 Radar Sign.

Statistics Summary Report

Technician Name: John Smith



Location: Traffic Logix Corp
 Address: 3 Harriett Lane, Spring Valley, NY, 10977
 Speed Limit: 30
 Data Session: Demo Statistics
 Report Period: 4/11/2011 to 4/17/2011
 Total Vehicle Count: 26,370

Hour	Total Vehicles	Average Vehicles	Total Violations	% Violations	Min. Speed	Max. Speed	Avg. Speed	85% Speed
00-01	176	25	56	44 %	8	43	27	32
01-02	156	22	27	32 %	8	38	24	32
02-03	39	6	13	23 %	8	38	27	32
03-04	107	15	21	58 %	8	38	28	37
04-05	79	11	11	43 %	8	38	25	32
05-06	165	24	31	29 %	8	38	25	27
06-07	394	56	143	41 %	13	43	28	32
07-08	1,034	148	467	49 %	8	48	30	32
08-09	1,628	233	756	49 %	8	43	30	32
09-10	1,563	223	628	42 %	8	48	29	32
10-11	1,494	213	569	40 %	8	43	29	32
11-12	1,609	230	670	41 %	8	48	28	32
12-13	1,678	240	710	43 %	8	43	29	32
13-14	1,775	254	767	44 %	8	48	29	32
14-15	1,963	280	832	44 %	8	43	29	32
15-16	2,033	290	907	46 %	8	43	29	32
16-17	2,280	326	955	42 %	8	48	27	32
17-18	2,239	320	979	43 %	8	48	27	32
18-19	1,837	262	778	46 %	8	43	27	32
19-20	1,533	219	607	43 %	8	43	27	32
20-21	1,027	147	362	40 %	8	43	27	32
21-22	679	97	273	46 %	8	48	28	32
22-23	495	71	182	45 %	8	43	28	32
23-24	387	55	118	53 %	8	43	27	32
	26,370	3,767	10,862	43 %	8	43	28	32

Speed	Count
0...5	1,734
5...10	873
10...15	916
15...20	2,965
20...25	9,020
25...30	8,991
30...35	1,720
35...40	143
40...45	8
Total:	26,370

Average Vehicle Count

Technician Name: John Smith



Location: Traffic Logix Corp

Data Session: Demo Statistics

Address: 3 Harriett Lane, Spring Valley, NY, 10977

Report Period: 4/11/2011 to 4/17/2011

Speed Limit: 30

Total Vehicle Count: 26,370

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Average Weekday	Average Weekend	Average Week	Average Speed	85% Speed
00-01	16	10	52	14	12	29	43	21	36	25	27	32
01-02	3	8	60	3	10	17	55	17	36	22	24	32
02-03	4	2	6	5	1	16	5	4	10	6	27	32
03-04	5	3	76	3	6	7	7	19	7	15	28	37
04-05	3	5	57	7	3	1	3	15	2	11	25	32
05-06	31	27	53	26	13	10	5	30	8	24	25	27
06-07	98	68	62	62	66	25	13	71	19	56	28	32
07-08	207	205	171	230	142	58	21	191	40	148	30	32
08-09	283	305	254	316	295	113	62	291	88	233	30	32
09-10	290	259	191	253	285	195	90	256	142	223	29	32
10-11	268	229	168	233	293	203	100	238	152	213	29	32
11-12	258	200	178	233	330	251	159	240	205	230	28	32
12-13	265	219	200	284	328	204	178	259	191	240	29	32
13-14	323	228	245	287	302	199	H 191	277	195	254	29	32
14-15	356	298	288	353	328	180	160	325	170	280	29	32
15-16	364	328	302	353	358	147	181	341	164	290	29	32
16-17	369	H 357	H 382	383	376	237	176	373	206	326	27	32
17-18	H 426	317	354	H 402	H 395	193	152	379	172	320	27	32
18-19	304	203	262	344	256	H 353	115	274	234	262	27	32
19-20	232	185	218	264	218	320	96	223	208	219	27	32
20-21	152	108	146	141	130	275	75	135	175	147	27	32
21-22	80	80	76	103	99	178	63	88	120	97	28	32
22-23	45	40	57	73	88	150	42	61	96	71	28	32
23-24	22	33	13	33	62	186	38	33	112	55	27	32
TOTAL:	4,404	3,717	3,871	4,405	4,396	3,547	2,030	4,161	2,788	3,767	28	32

Generated on May 16, 2011 at 11:05 AM

Printed with SafePace 100 Management Software by Traffic Logix Corp.

Average Speed

Technician Name: John Smith



Location: Traffic Logix Corp
 Address: 3 Harriett Lane, Spring Valley, NY, 10977
 Speed Limit: 30
 Data Session: Demo Statistics
 Report Period: 4/11/2011 to 4/17/2011
 Total Vehicle Count: 26,370

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Average Weekday	Average Weekend	Average Week	Average Speed	85% Speed
00-01	H 32	30	13	31	H 33	31	20	28	26	27	27	32
01-02	30	H 31	10	26	H 33	29	12	26	20	24	24	32
02-03	30	23	17	29	28	32	27	25	30	27	27	32
03-04	30	H 31	9	H 33	32	32	28	27	30	28	28	37
04-05	16	22	11	28	28	H 38	H 33	21	36	25	25	32
05-06	23	24	13	26	26	33	31	22	32	25	25	27
06-07	26	28	28	28	29	32	28	28	30	28	28	32
07-08	29	29	29	29	29	31	32	29	32	30	30	32
08-09	30	29	30	28	29	30	32	29	31	30	30	32
09-10	28	27	29	28	29	30	31	28	30	29	29	32
10-11	28	26	29	29	29	30	31	28	30	29	29	32
11-12	29	23	28	29	29	30	30	28	30	28	28	32
12-13	28	29	28	29	29	31	32	29	32	29	29	32
13-14	29	29	28	29	29	31	30	29	30	29	29	32
14-15	29	29	29	29	29	25	32	29	28	29	29	32
15-16	29	29	30	30	30	27	31	30	29	29	29	32
16-17	29	29	30	29	30	13	32	29	22	27	27	32
17-18	29	28	30	30	30	13	32	29	22	27	27	32
18-19	30	26	31	30	30	12	32	29	22	27	27	32
19-20	31	21	30	31	31	10	32	29	21	27	27	32
20-21	31	26	30	30	30	11	30	29	20	27	27	32
21-22	30	30	30	31	30	12	31	30	22	28	28	32
22-23	31	29	31	31	31	12	30	31	21	28	28	32
23-24	H 32	22	H 33	32	31	10	30	30	20	27	27	32
AVG:	29	27	25	29	30	24	30	28	27	28	28	32

Average Number of Speed Violations

Technician Name: John Smith



Location: Traffic Logix Corp

Address: 3 Harriett Lane, Spring Valley, NY, 10977

Speed Limit: 30

Report Period: 4/11/2011 to 4/17/2011

Total Vehicle Count: 26,370

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Average Weekday	Average Weekend	Average Week	Average Speed	85% Speed
00-01	10	5	4	7	8	16	6	7	11	8	27	32
01-02	1	5	1	0	9	5	6	3	6	4	24	32
02-03	3	0	1	1	0	8	0	1	4	2	27	32
03-04	2	2	1	3	4	5	4	2	4	3	28	37
04-05	0	1	2	3	2	1	2	2	2	2	25	32
05-06	8	3	3	6	1	7	3	4	5	4	25	27
06-07	24	22	27	21	27	16	6	24	11	20	28	32
07-08	83	90	80	102	66	33	13	84	23	67	30	32
08-09	126	H 144	128	129	128	59	42	131	50	108	30	32
09-10	108	86	70	96	113	100	55	95	78	90	29	32
10-11	100	50	55	94	115	97	58	83	78	81	29	32
11-12	106	45	58	117	140	H 124	80	93	102	96	28	32
12-13	97	82	57	115	135	113	111	97	112	101	29	32
13-14	120	101	76	142	128	118	82	113	100	110	29	32
14-15	142	132	114	141	128	68	107	131	88	119	29	32
15-16	139	142	130	166	154	67	109	146	88	130	29	32
16-17	152	128	H 172	172	193	19	H 119	163	69	136	27	32
17-18	H 179	123	166	H 182	H 206	20	103	171	62	140	27	32
18-19	161	74	154	165	133	8	83	137	46	111	27	32
19-20	124	51	106	146	117	1	62	109	32	87	27	32
20-21	95	35	63	67	66	5	31	65	18	52	27	32
21-22	43	36	39	61	53	6	35	46	20	39	28	32
22-23	23	19	32	36	49	1	22	32	12	26	28	32
23-24	15	12	11	24	34	2	20	19	11	17	27	32
TOTAL:	1,861	1,388	1,550	1,996	2,009	899	1,159	1,758	1,032	1,553	28	32

Generated on May 16, 2011 at 11:10 AM

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Percentage of Speed Violations

Technician Name: John Smith



Location: Traffic Logix Corp
 Address: 3 Harriett Lane, Spring Valley, NY, 10977
 Speed Limit: 30
 Data Session: Demo Statistics
 Report Period: 4/11/2011 to 4/17/2011
 Total Vehicle Count: 26,370

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Average Weekday	Average Weekend	Average Week	Average Speed	85% Speed
00-01	62%	50%	8%	50%	67%	55%	14%	47%	34%	44%	27	32
01-02	33%	62%	2%	0%	H 90%	29%	11%	37%	20%	32%	24	32
02-03	H 75%	0%	17%	20%	0%	50%	0%	22%	25%	23%	27	32
03-04	40%	H 67%	1%	H 100%	67%	71%	57%	55%	64%	58%	28	37
04-05	0%	20%	4%	43%	67%	H 100%	67%	27%	84%	43%	25	32
05-06	26%	11%	6%	23%	8%	70%	60%	15%	65%	29%	25	27
06-07	24%	32%	44%	34%	41%	64%	46%	35%	55%	41%	28	32
07-08	40%	44%	47%	44%	46%	57%	62%	44%	60%	49%	30	32
08-09	45%	47%	50%	41%	43%	52%	68%	45%	60%	49%	30	32
09-10	37%	33%	37%	38%	40%	51%	61%	37%	56%	42%	29	32
10-11	37%	22%	33%	40%	39%	48%	58%	34%	53%	40%	29	32
11-12	41%	22%	33%	50%	42%	49%	50%	38%	50%	41%	28	32
12-13	37%	37%	28%	40%	41%	55%	62%	37%	58%	43%	29	32
13-14	37%	44%	31%	49%	42%	59%	43%	41%	51%	44%	29	32
14-15	40%	44%	40%	40%	39%	38%	67%	41%	52%	44%	29	32
15-16	38%	43%	43%	47%	43%	46%	60%	43%	53%	46%	29	32
16-17	41%	36%	45%	45%	51%	8%	68%	44%	38%	42%	27	32
17-18	42%	39%	47%	45%	52%	10%	68%	45%	39%	43%	27	32
18-19	53%	36%	59%	48%	52%	2%	H 72%	50%	37%	46%	27	32
19-20	53%	28%	49%	55%	54%	0%	65%	48%	32%	43%	27	32
20-21	62%	32%	43%	48%	51%	2%	41%	47%	22%	40%	27	32
21-22	54%	45%	51%	59%	54%	3%	56%	53%	30%	46%	28	32
22-23	51%	48%	56%	49%	56%	1%	52%	52%	26%	45%	28	32
23-24	68%	36%	H 85%	73%	55%	1%	53%	63%	27%	53%	27	32
AVG:	43%	37%	36%	45%	48%	38%	53%	42%	45%	43%	28	32

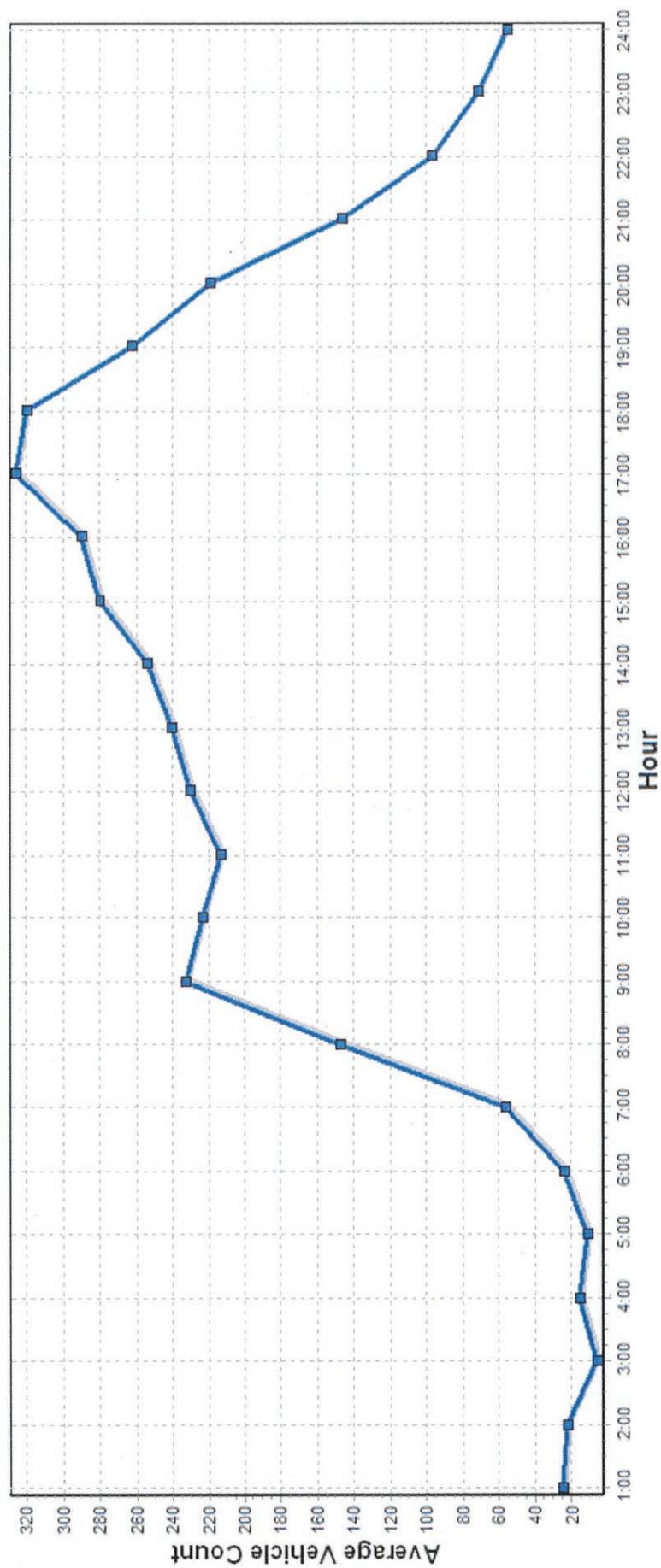
Technician Name: John Smith

Speed Limit: 30



Average Vehicle Count Hourly Values

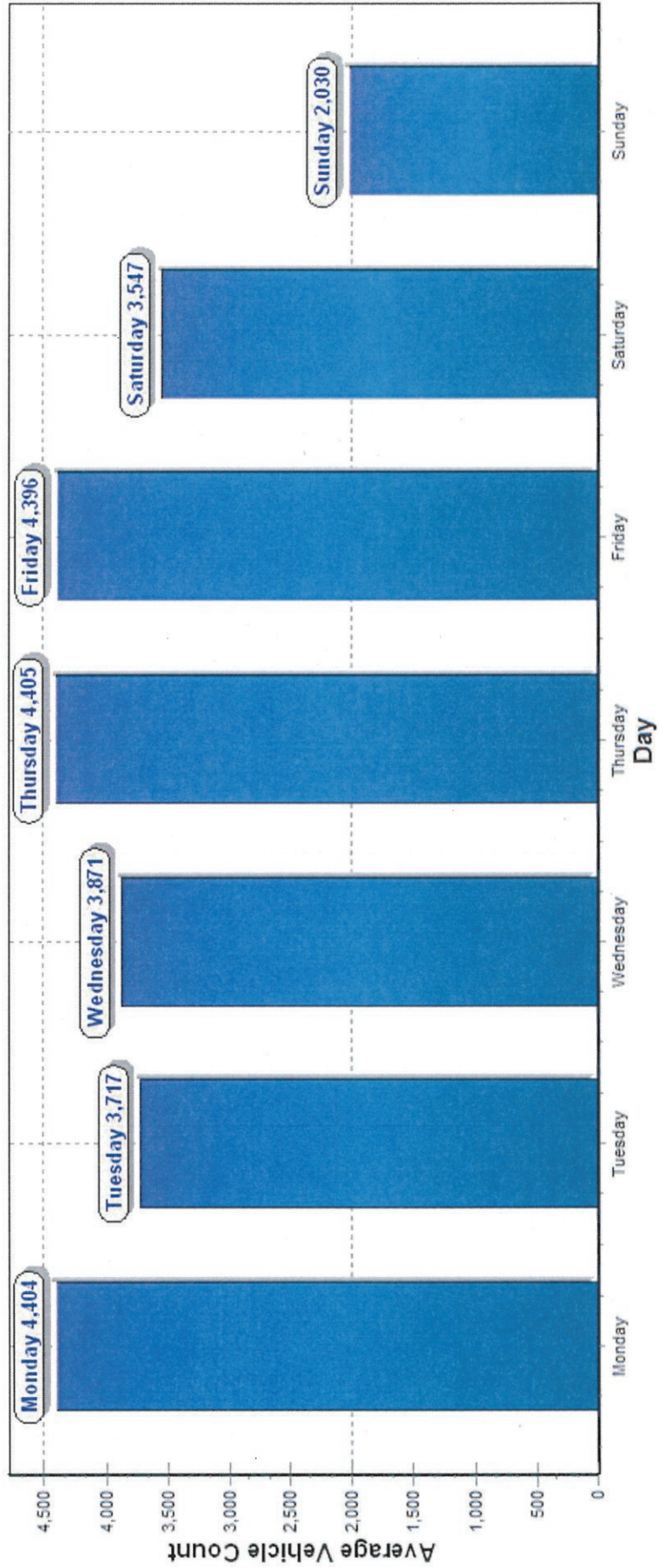
Traffic Logix Corp (3 Harriett Lane, Spring Valley, NY, 10977)
4/11/2011 to 4/18/2011





Average Vehicle Count Daily Values

Traffic Logix Corp (3 Harriett Lane, Spring Valley, NY, 10977)
4/11/2011 to 4/18/2011



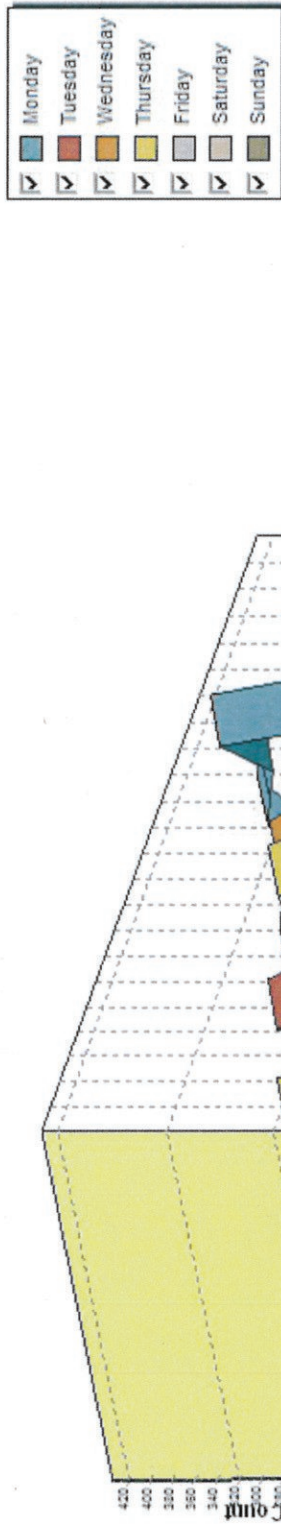
Technician Name: John Smith

Speed Limit: 30



Average Vehicle Count

Traffic Logix Corp (3 Harriett Lane, Spring Valley, NY, 10977)
4/11/2011 to 4/18/2011



Count by Speed Bins

Technician Name: John Smith

Location: Traffic Logix Corp

Address: 3 Harriett Lane, Spring Valley, NY, 10977

Data Session: Demo Statistics

Report Period: 4/11/2011 to 4/17/2011

Speed Limit: 30

Total Vehicle Count: 26,370



		0...5	5...10	10...15	15...20	20...25	25...30	30...35	35...40	40...45	Total
4/11/2011	1:00:00 AM	0	0	0	0	6	9	0	1	0	16
	2:00:00 AM	0	0	0	0	2	1	0	0	0	3
	3:00:00 AM	0	0	0	1	0	3	0	0	0	4
	4:00:00 AM	0	0	0	0	3	2	0	0	0	5
	5:00:00 AM	1	0	1	1	0	0	0	0	0	3
	6:00:00 AM	1	7	2	8	5	7	1	0	0	31
	7:00:00 AM	0	7	9	30	28	19	5	0	0	98
	8:00:00 AM	0	1	11	32	80	70	12	1	0	207
	9:00:00 AM	0	5	10	37	105	96	26	4	0	283
	10:00:00 AM	0	6	28	44	104	82	24	2	0	290
	11:00:00 AM	0	2	21	46	99	85	13	2	0	268
	12:00:00 PM	1	3	15	37	96	92	14	0	0	258
	1:00:00 PM	1	7	15	41	104	77	19	1	0	265
	2:00:00 PM	1	3	12	57	130	101	17	2	0	323
	3:00:00 PM	0	6	19	59	130	106	32	4	0	356
	4:00:00 PM	0	3	16	51	155	121	17	1	0	364
	5:00:00 PM	0	8	15	46	148	122	27	3	0	369
	6:00:00 PM	0	5	19	43	180	155	23	0	1	426
	7:00:00 PM	1	4	4	30	104	128	29	4	0	304
	8:00:00 PM	0	1	3	15	89	106	18	0	0	232
	9:00:00 PM	0	0	1	6	50	83	12	0	0	152
	10:00:00 PM	0	1	2	5	29	39	3	1	0	80
	11:00:00 PM	0	0	0	2	20	20	3	0	0	45
	Total	6	69	203	591	1,667	1,524	295	26	1	4,382
4/12/2011	12:00:00 AM	0	0	0	1	6	13	2	0	0	22
	1:00:00 AM	0	0	0	1	4	4	1	0	0	10
	2:00:00 AM	0	0	0	0	3	5	0	0	0	8
	3:00:00 AM	0	0	1	0	1	0	0	0	0	2
	4:00:00 AM	0	0	0	0	1	2	0	0	0	3
	5:00:00 AM	0	1	1	2	0	1	0	0	0	5
	6:00:00 AM	1	3	1	12	7	2	1	0	0	27
	7:00:00 AM	0	1	8	15	22	14	8	0	0	68
	8:00:00 AM	2	0	12	34	67	81	7	1	1	205
	9:00:00 AM	0	3	13	38	107	125	19	0	0	305
	10:00:00 AM	7	10	19	40	97	77	8	1	0	259
	11:00:00 AM	10	5	14	47	103	45	5	0	0	229
	12:00:00 PM	44	18	4	24	65	40	5	0	0	200
	1:00:00 PM	0	2	13	37	85	64	16	2	0	219
	2:00:00 PM	0	1	13	24	89	85	15	1	0	228

		0...5	5...10	10...15	15...20	20...25	25...30	30...35	35...40	40...45	Total
4/12/2011	3:00:00 PM	0	3	14	42	107	111	19	2	0	298
	4:00:00 PM	1	2	8	42	133	124	18	0	0	328
	5:00:00 PM	1	4	11	54	159	115	13	0	0	357
	6:00:00 PM	14	1	11	36	132	104	17	2	0	317
	7:00:00 PM	33	2	5	20	69	63	11	0	0	203
	8:00:00 PM	70	10	1	11	42	45	5	1	0	185
	9:00:00 PM	13	3	1	15	41	31	4	0	0	108
	10:00:00 PM	0	0	2	10	32	32	4	0	0	80
	11:00:00 PM	3	0	0	1	17	14	5	0	0	40
	Total	199	69	152	506	1,389	1,197	183	10	1	3,706
4/13/2011	12:00:00 AM	12	1	0	0	8	10	2	0	0	33
	1:00:00 AM	28	17	0	0	3	2	1	1	0	52
	2:00:00 AM	49	8	0	0	2	1	0	0	0	60
	3:00:00 AM	2	2	0	0	1	1	0	0	0	6
	4:00:00 AM	66	7	0	0	2	0	1	0	0	76
	5:00:00 AM	35	15	4	0	1	2	0	0	0	57
	6:00:00 AM	35	3	2	8	2	3	0	0	0	53
	7:00:00 AM	0	1	7	10	17	22	4	1	0	62
	8:00:00 AM	0	3	17	17	54	69	11	0	0	171
	9:00:00 AM	0	4	6	24	92	108	20	0	0	254
	10:00:00 AM	0	1	9	33	78	65	4	1	0	191
	11:00:00 AM	0	1	6	25	81	51	4	0	0	168
	12:00:00 PM	1	3	11	32	73	52	6	0	0	178
	1:00:00 PM	0	1	13	42	87	54	3	0	0	200
	2:00:00 PM	0	2	13	37	117	67	9	0	0	245
	3:00:00 PM	0	1	14	48	111	101	13	0	0	288
	4:00:00 PM	0	0	15	31	126	107	23	0	0	302
	5:00:00 PM	0	3	8	28	171	151	18	3	0	382
	6:00:00 PM	0	0	6	38	144	144	20	2	0	354
	7:00:00 PM	0	2	4	23	79	131	22	1	0	262
	8:00:00 PM	1	0	2	18	91	88	18	0	0	218
	9:00:00 PM	0	0	3	11	69	53	8	2	0	146
	10:00:00 PM	0	0	0	6	31	35	4	0	0	76
	11:00:00 PM	0	0	0	5	20	26	6	0	0	57
	Total	229	75	140	436	1,460	1,343	197	11	0	3,891
4/14/2011	12:00:00 AM	0	0	0	0	2	9	1	1	0	13
	1:00:00 AM	0	0	0	1	6	6	0	1	0	14
	2:00:00 AM	0	0	0	1	2	0	0	0	0	3
	3:00:00 AM	0	0	0	1	3	0	1	0	0	5
	4:00:00 AM	0	0	0	0	0	3	0	0	0	3
	5:00:00 AM	0	0	1	2	1	2	1	0	0	7
	6:00:00 AM	0	3	1	9	7	5	1	0	0	26
	7:00:00 AM	0	0	6	15	20	18	3	0	0	62
	8:00:00 AM	2	4	9	22	91	86	15	1	0	230
	9:00:00 AM	2	5	23	54	103	106	21	2	0	316
	10:00:00 AM	2	3	12	51	89	77	17	2	0	253

		0...5	5...10	10...15	15...20	20...25	25...30	30...35	35...40	40...45	Total
4/14/2011	11:00:00 AM	1	7	11	38	82	78	14	2	0	233
	12:00:00 PM	1	5	15	30	65	98	17	1	1	233
	1:00:00 PM	0	4	10	44	111	98	14	3	0	284
	2:00:00 PM	1	2	16	38	88	121	21	0	0	287
	3:00:00 PM	0	2	8	53	149	120	21	0	0	353
	4:00:00 PM	0	2	8	35	142	139	27	0	0	353
	5:00:00 PM	1	5	19	54	132	142	26	4	0	383
	6:00:00 PM	1	4	13	42	160	148	31	3	0	402
	7:00:00 PM	0	4	10	39	126	136	27	2	0	344
	8:00:00 PM	0	0	1	17	100	120	23	3	0	264
	9:00:00 PM	0	2	2	11	59	55	10	2	0	141
	10:00:00 PM	0	0	0	5	37	51	9	0	1	103
	11:00:00 PM	0	0	0	7	30	29	6	1	0	73
	Total	11	52	165	569	1,605	1,647	306	28	2	4,385
4/15/2011	12:00:00 AM	0	0	1	1	7	18	6	0	0	33
	1:00:00 AM	0	0	0	0	4	5	1	2	0	12
	2:00:00 AM	0	0	0	0	1	8	1	0	0	10
	3:00:00 AM	0	0	0	0	1	0	0	0	0	1
	4:00:00 AM	0	0	0	1	1	2	2	0	0	6
	5:00:00 AM	0	0	1	0	0	2	0	0	0	3
	6:00:00 AM	0	0	0	7	5	1	0	0	0	13
	7:00:00 AM	0	1	1	14	23	20	7	0	0	66
	8:00:00 AM	1	0	9	21	45	58	7	1	0	142
	9:00:00 AM	0	1	18	44	104	110	13	5	0	295
	10:00:00 AM	1	6	8	50	107	92	19	2	0	285
	11:00:00 AM	0	1	13	50	114	96	19	0	0	293
	12:00:00 PM	1	5	18	48	118	112	25	3	0	330
	1:00:00 PM	0	2	18	55	118	108	25	2	0	328
	2:00:00 PM	1	3	11	34	125	103	24	1	0	302
	3:00:00 PM	1	2	14	54	129	114	14	0	0	328
	4:00:00 PM	0	1	7	39	157	130	24	0	0	358
	5:00:00 PM	0	3	10	45	125	160	33	0	0	376
	6:00:00 PM	0	1	10	38	140	167	38	1	0	395
	7:00:00 PM	0	2	6	25	90	109	23	1	0	256
	8:00:00 PM	0	0	3	17	81	95	18	4	0	218
	9:00:00 PM	0	2	3	16	43	53	11	2	0	130
	10:00:00 PM	0	0	4	7	35	45	7	1	0	99
	11:00:00 PM	0	0	0	5	34	38	11	0	0	88
	Total	5	30	155	571	1,607	1,646	328	25	0	4,367
4/16/2011	12:00:00 AM	0	0	1	7	20	26	7	1	0	62
	1:00:00 AM	0	0	0	1	12	12	4	0	0	29
	2:00:00 AM	0	0	1	2	9	4	1	0	0	17
	3:00:00 AM	0	0	0	0	8	3	5	0	0	16
	4:00:00 AM	0	0	0	0	2	4	1	0	0	7
	5:00:00 AM	0	0	0	0	0	0	1	0	0	1
	6:00:00 AM	0	0	0	0	3	4	3	0	0	10

		0...5	5...10	10...15	15...20	20...25	25...30	30...35	35...40	40...45	Total
4/16/2011	7:00:00 AM	0	1	0	1	7	9	5	2	0	25
	8:00:00 AM	0	0	3	9	13	22	8	3	0	58
	9:00:00 AM	0	0	6	13	35	42	14	3	0	113
	10:00:00 AM	0	4	10	28	53	77	19	3	1	195
	11:00:00 AM	0	2	8	23	73	74	21	2	0	203
	12:00:00 PM	1	3	8	19	96	91	32	1	0	251
	1:00:00 PM	0	0	6	16	69	87	25	1	0	204
	2:00:00 PM	0	0	2	16	63	86	26	6	0	199
	3:00:00 PM	40	11	1	10	50	54	12	2	0	180
	4:00:00 PM	20	5	0	10	45	60	7	0	0	147
	5:00:00 PM	156	40	2	2	18	19	0	0	0	237
	6:00:00 PM	131	30	2	1	9	16	4	0	0	193
	7:00:00 PM	190	127	13	1	14	7	1	0	0	353
	8:00:00 PM	194	110	7	1	7	1	0	0	0	320
	9:00:00 PM	182	69	2	3	14	5	0	0	0	275
	10:00:00 PM	101	55	3	5	8	6	0	0	0	178
	11:00:00 PM	82	52	1	4	10	1	0	0	0	150
	Total	1,097	509	76	172	638	710	196	24	1	3,423
4/17/2011	12:00:00 AM	131	47	1	2	3	1	1	0	0	186
	1:00:00 AM	12	8	0	3	14	6	0	0	0	43
	2:00:00 AM	41	4	1	0	3	5	1	0	0	55
	3:00:00 AM	0	0	0	1	4	0	0	0	0	5
	4:00:00 AM	1	0	0	0	2	4	0	0	0	7
	5:00:00 AM	0	0	0	0	1	1	1	0	0	3
	6:00:00 AM	0	0	0	0	2	3	0	0	0	5
	7:00:00 AM	0	1	0	5	1	5	0	1	0	13
	8:00:00 AM	0	0	0	1	7	9	3	1	0	21
	9:00:00 AM	0	0	0	5	15	29	10	3	0	62
	10:00:00 AM	0	0	0	7	28	46	9	0	0	90
	11:00:00 AM	0	1	3	7	31	44	13	1	0	100
	12:00:00 PM	0	3	3	12	61	64	13	2	1	159
	1:00:00 PM	0	0	2	4	61	89	22	0	0	178
	2:00:00 PM	0	0	5	29	75	63	18	0	1	191
	3:00:00 PM	0	0	1	5	47	84	22	1	0	160
	4:00:00 PM	0	2	3	9	58	86	21	2	0	181
	5:00:00 PM	0	1	2	8	46	95	21	2	1	176
	6:00:00 PM	0	0	1	4	44	82	19	2	0	152
	7:00:00 PM	1	0	1	6	24	60	20	3	0	115
	8:00:00 PM	0	0	0	2	32	54	8	0	0	96
	9:00:00 PM	0	0	1	4	39	28	3	0	0	75
	10:00:00 PM	1	0	0	1	26	31	3	1	0	63
	11:00:00 PM	0	2	1	2	15	17	5	0	0	42
	Total	187	69	25	117	639	906	213	19	3	2,178
4/18/2011	12:00:00 AM	0	0	0	3	15	18	2	0	0	38
	Total	0	0	0	3	15	18	2	0	0	38
Grand Total		1,734	873	916	2,965	9,020	8,991	1,720	143	8	26,370

Comparison Report

Technician Name: John Smith

Location: Traffic Logix Corp

Data Session 1: [0044] Demo Statistics

Period 1: 4/11/2011 to 4/17/2011

Address: 3 Harriett Lane, Spring Valley, NY, 10977

Data Session 2: [0044] Demo Statistics

Period 2: 4/18/2011 to 4/24/2011

Speed Limit: 30



Summary

Day	Avg. Vehicle Count			Average Speed			Avg. Number of Speed Violations			% of Speed Violations		
	Period 1	Period 2	Difference	Period 1	Period 2	Difference	Period 1	Period 2	Difference	Period 1	Period 2	Difference
Monday	4,404	4,002	-402	29	29	0	1,861	1,511	-350	45 %	40 %	-5 %
Tuesday	3,717	3,349	-368	27	30	3	1,388	1,485	97	38 %	48 %	10 %
Wednesday	3,871	3,800	-71	25	30	5	1,550	1,715	165	36 %	50 %	14 %
Thursday	4,405	3,957	-448	29	30	1	1,996	1,796	-200	47 %	46 %	-1 %
Friday	4,396	3,282	-1,114	30	30	0	2,009	1,537	-472	50 %	50 %	0 %
Saturday	3,547	1,996	-1,551	24	29	5	899	978	79	40 %	47 %	7 %
Sunday	2,030	1,536	-494	30	31	1	1,159	933	-226	55 %	61 %	6 %
Average:	3,767	3,132	-635	28	30	2	1,552	1,422	-130	44 %	49 %	5 %

Speed Bins Statistics

Speed	Total Vehicle Count			% of Vehicle Count			Total Speed Violations			% of Speed Violations		
	Period 1	Period 2	Difference	Period 1	Period 2	Difference	Period 1	Period 2	Difference	Period 1	Period 2	Difference
0 - 5	1,734	212	-1,522	7 %	1 %	-6 %	0	0	0	0 %	0 %	0 %
5 - 10	873	255	-618	3 %	1 %	-2 %	0	0	0	0 %	0 %	0 %
10 - 15	916	919	3	3 %	4 %	1 %	0	0	0	0 %	0 %	0 %
15 - 20	2,965	2,723	-242	11 %	12 %	1 %	0	0	0	0 %	0 %	0 %
20 - 25	9,020	7,858	-1,162	34 %	36 %	2 %	0	0	0	0 %	0 %	0 %
25 - 30	8,991	8,122	-869	34 %	37 %	3 %	0	0	0	0 %	0 %	0 %
30 - 35	1,720	1,695	-25	7 %	8 %	1 %	1,720	1,695	-25	92 %	92 %	1 %
35 - 40	143	128	-15	1 %	1 %	0 %	143	128	-15	8 %	7 %	-1 %
40 - 45	8	8	0	0 %	0 %	0 %	8	8	0	0 %	0 %	0 %
45 - 50	0	2	2	0 %	0 %	0 %	0	2	2	0 %	0 %	0 %
Total:	26,370	21,922	-4,448	100 %	100 %	0 %	1,871	1,833	-38	100 %	100 %	0 %

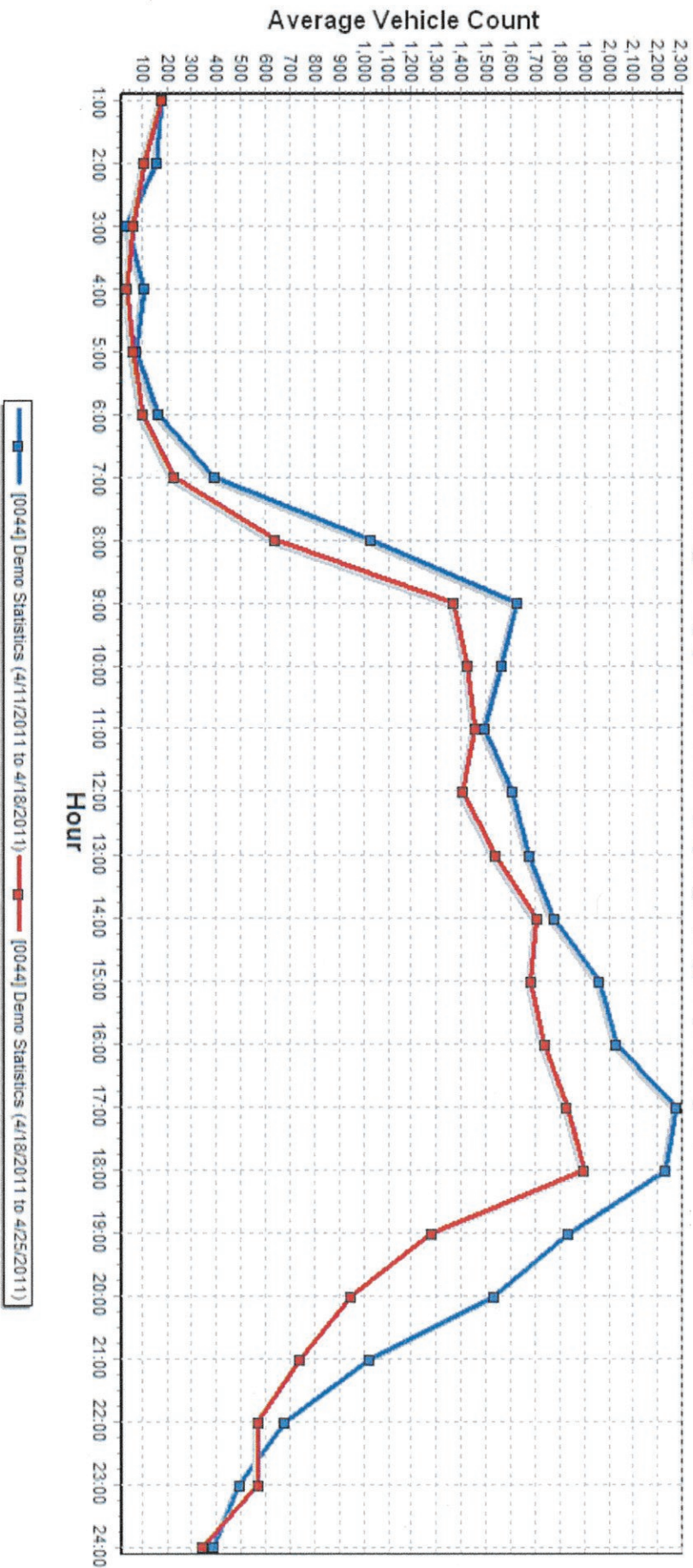
Technician Name: John Smith

Speed Limit: 30



Comparison Report Average Vehicle Count

Traffic Logix Corp (3 Harriett Lane, Spring Valley, NY, 10977)

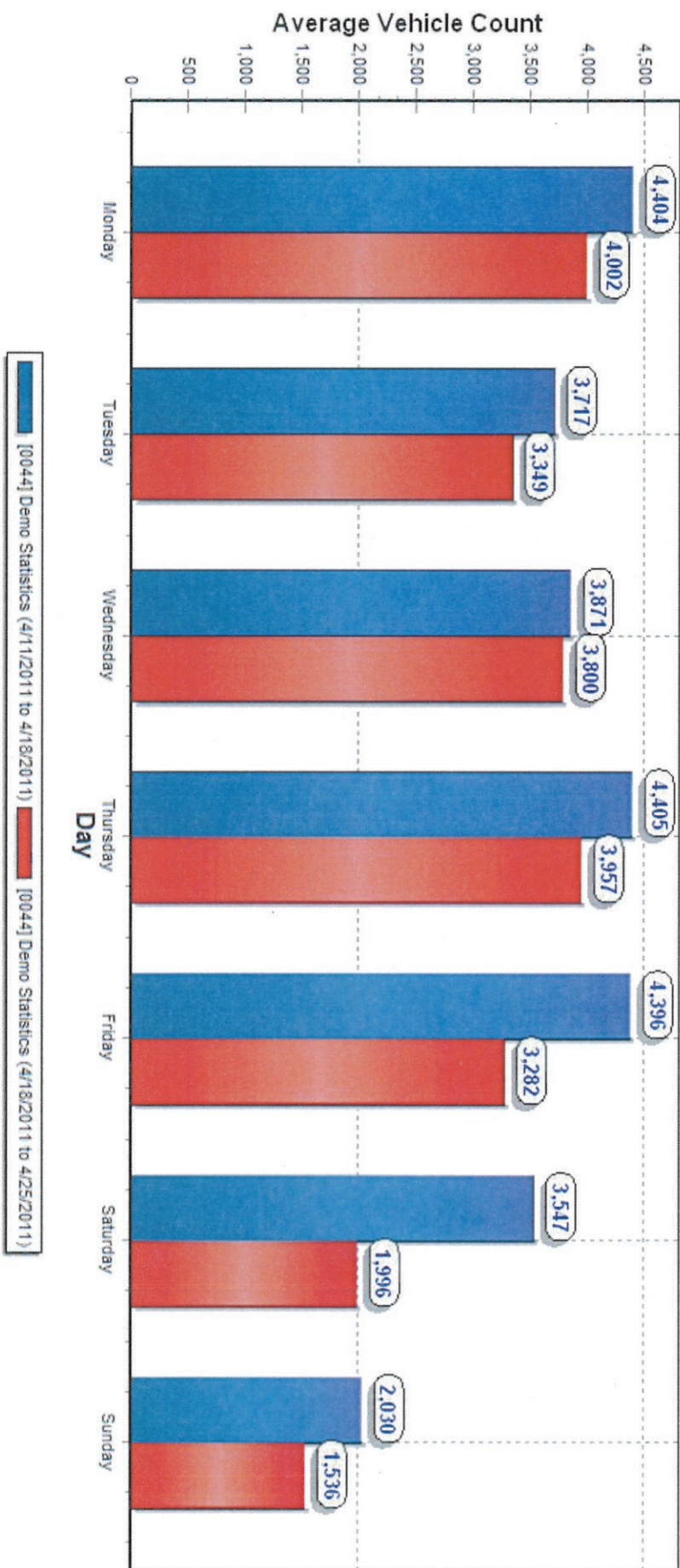




Technician Name: John Smith
Speed Limit: 30

Comparison Report Average Vehicle Count

Traffic Logix Corp (3 Harriett Lane, Spring Valley, NY, 10977)



July 10, 2015

Report To: Mayor & Council

From: Doug Brown, Manager Operations & Facilities

SUBJECT: Endorsement of Long Term (2015 to 2021) Financial Plan For Water and Wastewater Systems

The Town's first Municipal Drinking Water licence (licence # 224-601) is due to expire on July 26, 2016. See attached a full copy of drinking water licence No. 224-601. An application for licence renewal must be submitted by January 26, 2016. In order to renew the municipal drinking water licence an up-dated long term financial plan must be in place for six years starting in the year the licence would expire.

The Town retained BMA Management Consultants to prepare the financial plans for the water and wastewater systems in accordance to Ontario Regulation 453/07. See attached a draft copy of the long-range financial plan for both systems. In summary the financial plan indicates approximately a 2.617% increase in revenue is required in each year over the next six (6) years to achieve financial sustainability.

The Town is required to submit the financial plan to the Ministry of Municipal Affairs & Housing prior to January 26, 2016. The financial plan must be approved by a resolution of Council. It should be clearly stated that this financial plan is a guideline or tool to assist Council and Administration in establishing the water and wastewater rates for any given year.

The Operations & Facilities Executive committee recommends the following;

- 1) That the Long Range Financial Plan for both the Water and Wastewater Systems for the period 2015 to 2021 prepared by BMA Management Consulting Inc. is accepted and that a separate resolution is prepared.
- 2) That a copy of the Long Range Financial Plan for both the Water and Wastewater Systems be forwarded to the Ministry of Municipal Affairs & Housing prior to January 26, 2016.

Respectfully submitted

Doug Brown, P. Eng.
Operations and Facilities Manager

Council approval of this report will ensure the following;

- 1) That the Long Range Financial Plan for both the Water and Wastewater Systems for the period 2015 to 2021 prepared by BMA Management Consulting Inc. is accepted and that a separate resolution is prepared.
- 2) That a copy of the Long Range Financial Plan for both the Water and Wastewater Systems be forwarded to the Ministry of Municipal Affairs & Housing prior to January 26, 2016.

RECOMMENDED

SEP 09 2015

DIV. MNG.

EXECUTIVE COMM.



MUNICIPAL DRINKING WATER LICENCE

Licence Number: 224-101

Issue Number: 1

Pursuant to the *Safe Drinking Water Act*, 2002, S.O. 2002, c. 32, and the regulations made thereunder and subject to the limitations thereof, this municipal drinking water licence is issued under Part V of the *Safe Drinking Water Act*, 2002, S.O. 2002, c. 32 to:

The Corporation of the Town of Fort Frances

**320 Portage Avenue
Fort Frances, ON P9A 3P9**

For the following municipal residential drinking water system:

Fort Frances Drinking Water System

This municipal drinking water licence includes the following:

Schedule	Description
Schedule A	Drinking Water System Information
Schedule B	General Conditions
Schedule C	System-Specific Conditions
Schedule D	Conditions for Relief from Regulatory Requirements

DATED at TORONTO this 29th day of July, 2011

Signature

A handwritten signature in black ink, appearing to read "I. Prashad", written over a horizontal line.

Indra R. Prashad, P.Eng.
Director
Part V, *Safe Drinking Water Act*, 2002

Schedule A: Drinking Water System Information

System Owner	The Corporation of the Town of Fort Frances
Licence Number	224-101
Drinking Water System Name	Fort Frances Drinking Water System
Schedule A Issue Date	July 29th, 2011

The following information is applicable to the above drinking water system and forms part of this licence:

Licence

Licence Issue Date	July 29, 2011
Licence Expiry Date	July 27, 2016
Application for Licence Renewal Date	January 26, 2016

Drinking Water Works Permit

Drinking Water System Name	Permit Number	Issue Date
Fort Frances Drinking Water System	224-201	July 19, 2011

Permits to Take Water

Water Taking Location	Permit Number	Issue Date
Rainy River	7280-6UAMD9	July 12, 2006

Financial Plans

The Financial Plan Number for the Financial Plan required to be developed for this drinking water system in accordance with O. Reg. 453/07 shall be:	224-301
Alternately, if one Financial Plan is developed for all drinking water systems owned by the owner, the Financial Plan Number shall be:	224-301A

Accredited Operating Authority

Drinking Water System or Operational Subsystems	Accredited Operating Authority	Operational Plan Number
Fort Frances Drinking Water System	The Corporation of the Town of Fort Frances	224-401

Schedule B: General Conditions

System Owner	The Corporation of the Town of Fort Frances
Licence Number	224-101
Drinking Water System Name	Fort Frances Drinking Water System
Schedule B Issue Date	July 29th, 2011

1.0 Definitions

1.1 Words and phrases not defined in this licence and the associated drinking water works permit shall be given the same meaning as those set out in the SDWA and any regulations made in accordance with that act, unless the context requires otherwise.

1.2 In this licence and the associated drinking water works permit:

"adverse effect", "contaminant" and "natural environment" shall have the same meanings as in the EPA;

"alteration" may include the following in respect of this drinking water system:

- (a) An addition to the system,
- (b) A modification of the system,
- (c) A replacement of part of the system, and
- (d) An extension of the system;

"compound of concern" means a contaminant that, based on generally available information, may be emitted from a component of the drinking water system to the atmosphere in a quantity that is significant either in comparison to the relevant point of impingement limit or if a point of impingement limit is not available for the compound, then based on generally available toxicological information, the compound has the potential to cause an adverse effect as defined by the EPA at a point of impingement;

"Director" means a Director appointed pursuant to section 6 of the SDWA for the purposes of Part V of the SDWA;

"drinking water works permit" means the drinking water works permit for the drinking water system as identified in Schedule A of this licence;

"emission summary table" means the table that was prepared by a Professional Engineer in accordance with O. Reg. 419/05 and the procedure document listing the appropriate point of impingement concentrations of each compound of concern emitted from a component of the drinking water system and providing comparison to the corresponding point of impingement limit;

"EPA" means the *Environmental Protection Act*, R.S.O. 1990, c. E.19;

"financial plan" means the financial plan required by O. Reg. 453/07 and the conditions of this licence;

"**licence**" means this municipal drinking water licence for the municipal drinking water system identified in Schedule A of this licence;

"**operational plan**" means an operational plan developed in accordance with the Director's Directions – Minimum Requirements for Operational Plans made under the authority of subsection 15(1) of the SDWA;

"**owner**" means the owner of the drinking water system as identified in Schedule A of this licence;

"**point of impingement**" means any point in the natural environment that is not on the same property as the source of the contaminant and as defined by section 2 of O. Reg. 419/05;

"**point of impingement limit**" means the appropriate standard from Schedule 1, 2 or 3 of O. Reg. 419/05 and if a standard is not provided for a compound of concern, the appropriate criteria listed in the Ministry of the Environment publication titled "Summary of Standards and Guidelines to support Ontario Regulation 419: Air Pollution – Local Air Quality (including Schedule 6 of O. Reg. 419 on Upper Risk Thresholds)", dated February 2008, as amended;

"**procedure document**" means the Ministry of the Environment procedure titled "Procedure for Preparing an Emission Summary and Dispersion Modelling Report" dated July 2005, as amended;

"**Professional Engineer**" means a Professional Engineer who has been licenced to practice in the Province of Ontario;

"**provincial officer**" means a provincial officer appointed pursuant to section 8 of the SDWA;

"**publication NPC-205**" means the Ministry of the Environment publication titled "Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (Urban)" dated October 1995, as amended;

"**publication NPC-207**" means the Ministry of the Environment draft technical publication titled "Impulse Vibration in Residential Buildings" dated November 1983, supplementing the Ministry of the Environment "Model Municipal Noise Control By-law, Final Report" dated August 1978;

"**publication NPC-232**" means the Ministry of the Environment publication titled "Sound Level Limits for Stationary Sources in Class 3 Areas (Rural)" dated October 1995, as amended;

"**SDWA**" means the *Safe Drinking Water Act*, 2002, S.O. 2002, c. 32;

"sensitive populations" means any one or a combination of the following locations where the health effects of nitrogen oxides emissions from emergency generator(s) shall be considered using the point of impingement limit instead of the Ministry of the Environment screening level for emergency generator(s):

- (a) health care units (e.g., hospitals and nursing homes),
- (b) primary/junior public schools,
- (c) day-care facilities, and
- (d) playgrounds;

2.0 Applicability

- 2.1 In addition to any other requirements, the drinking water system identified above shall be established, altered and operated in accordance with the conditions of the drinking water works permit and this licence.

3.0 Licence Expiry

- 3.1 This licence expires on the date identified as the licence expiry date in Schedule A of this licence.

4.0 Licence Renewal

- 4.1 Any application to renew this licence shall be made on or before the date identified as the application for licence renewal date set out in Schedule A of this licence.

5.0 Compliance

- 5.1 The owner and operating authority shall ensure that any person authorized to carry out work on or to operate any aspect of the drinking water system has been informed of the SDWA, all applicable regulations made in accordance with that act, the drinking water works permit and this licence and shall take all reasonable measures to ensure any such person complies with the same.

6.0 Licence and Drinking Water Works Permit Availability

- 6.1 At least one copy of this licence and the drinking water works permit shall be stored in such a manner that they are readily viewable by all persons involved in the operation of the drinking water system.

7.0 Permits to Take Water

- 7.1 A permit to take water identified in Schedule A of this licence is associated with the taking of water for purposes of the operation of the drinking water system and is the applicable permit on the date identified as the Schedule A Issue Date.

8.0 Financial Plan

- 8.1 The owner of the drinking water system, by the later of July 1, 2010 and the date that is six months after the date the first licence for the system is issued, shall prepare and approve financial plans for the system that satisfy the requirements prescribed under section 3 of O. Reg. 453/07.
- 8.2 The owner of the drinking water system shall ensure that every financial plan prepared in accordance with subsections 2 (1) and 3 (1) of O. Reg. 453/07 contains on the front page of the financial plan, the appropriate financial plan number as set out in Schedule A of this licence.

9.0 Interpretation

- 9.1 Where there is a conflict between the provisions of this licence and any other document, the following hierarchy shall be used to determine the provision that takes precedence:
- 9.1.1 The SDWA;
 - 9.1.2 A condition imposed in this licence that explicitly overrides a prescribed regulatory requirement;
 - 9.1.3 A condition imposed in the drinking water works permit that explicitly overrides a prescribed regulatory requirement;
 - 9.1.4 Any regulation made under the SDWA;
 - 9.1.5 Any provision of this licence that does not explicitly override a prescribed regulatory requirement;
 - 9.1.6 Any provision of the drinking water works permit that does not explicitly override a prescribed regulatory requirement;
 - 9.1.7 Any application documents listed in this licence, or the drinking water works permit from the most recent to the earliest; and
 - 9.1.8 All other documents listed in this licence, or the drinking water works permit from the most recent to the earliest.
- 9.2 If any requirement of this licence or the drinking water works permit is found to be invalid by a court of competent jurisdiction, the remaining requirements of this licence and the drinking water works permit shall continue to apply.
- 9.3 The issuance of and compliance with the conditions of this licence and the drinking water works permit does not:
- 9.3.1 Relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement, including the *Environmental Assessment Act*, R.S.O. 1990, c. E.18; and

9.3.2 Limit in any way the authority of the appointed Directors and provincial officers of the Ministry of the Environment to require certain steps be taken or to require the owner to furnish any further information related to compliance with the conditions of this licence or the drinking water works permit.

9.4 For greater certainty, nothing in this licence or the drinking water works permit shall be read to provide relief from regulatory requirements in accordance with section 46 of the SDWA, except as expressly provided in the licence or the drinking water works permit.

10.0 Adverse Effects

10.1 Nothing in this licence or the drinking water works permit shall be read as to permit:

10.1.1 The discharge of a contaminant into the natural environment that causes or is likely to cause an adverse effect; or

10.1.2 The discharge of any material of any kind into or in any waters or on any shore or bank thereof or into or in any place that may impair the quality of the water of any waters.

10.2 All reasonable steps shall be taken to minimize and ameliorate any adverse effect on the natural environment or impairment of the quality of water of any waters resulting from the operation of the drinking water system including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.

10.3 Fulfillment of one or more conditions imposed by this licence or the drinking water works permit does not eliminate the requirement to fulfill any other condition of this licence or the drinking water works permit.

11.0 Change of Owner or Operating Authority

11.1 This licence is not transferable without the prior written consent of the Director.

11.2 The owner shall notify the Director in writing of a change of any operating authority identified in Schedule A of this licence.

12.0 Information to be Provided

12.1 Any information requested by a Director or a provincial officer concerning the drinking water system and its operation, including but not limited to any records required to be kept by this licence or the drinking water works permit, shall be provided upon request.

13.0 Records Retention

13.1 Except as otherwise required in this licence or the drinking water works permit, any records required by or created in accordance with this licence or the drinking water works permit, other than the records specifically referenced in section 12 of O. Reg. 170/03, shall be retained for at least 5 years and made available for inspection by a provincial officer, upon request.

14.0 Chemicals and Materials

- 14.1 All chemicals and materials used in the alteration or operation of the drinking water system that come into contact with water within the system shall meet all applicable standards set by both the American Water Works Association ("AWWA") and the American National Standards Institute ("ANSI") safety criteria standards NSF/60 and NSF/61.
- 14.2 The most current chemical and material product registration documentation from a testing institution accredited by either the Standards Council of Canada or by the American National Standards Institution ("ANSI") shall be available at all times for each chemical and material used in the operation of the drinking water system that comes into contact with water within the system.
- 14.3 Conditions 14.1 and 14.2 do not apply in the case of the following:
- 14.3.1 Water pipe and pipe fittings meeting AWWA specifications made from ductile iron, cast iron, PVC, fibre and/or steel wire reinforced cement pipe or high density polyethylene (HDPE);
 - 14.3.2 Articles made from stainless steel, glass, HDPE or Teflon®;
 - 14.3.3 Cement mortar for watermain lining and for water contacting surfaces of concrete structures made from washed aggregates and Portland cement;
 - 14.3.4 Food grade oils and lubricants; or
 - 14.3.5 Any particular chemical or material where the owner has written documentation signed by the Director that indicates that the Ministry of the Environment is satisfied that the chemical or material is acceptable for use within the drinking water system and the chemical or material is only used as permitted by the documentation.

15.0 Drawings

- 15.1 All drawings and diagrams in the possession of the owner that show any treatment subsystem as constructed shall be retained by the owner unless the drawings and diagrams are replaced by a revised or updated version showing the subsystem as constructed subsequent to the alteration.
- 15.2 Any alteration to any treatment subsystem shall be incorporated into process flow diagrams, process and instrumentation diagrams, and record drawings and diagrams within one year of the substantial completion of the alteration.
- 15.3 Process flow diagrams and process and instrumentation diagrams for any treatment subsystem shall be kept in a place, or made available in such a manner, that they may be readily viewed by all persons responsible for all or part of the operation of the drinking water system.

16.0 Operations and Maintenance Manual

- 16.1** An up-to-date operations and maintenance manual or manuals shall be maintained and applicable parts of the manual or manuals shall be made available for reference by all persons responsible for all or part of the operation or maintenance of the drinking water system.
- 16.2** The operations and maintenance manual or manuals, shall include at a minimum:
 - 16.2.1 The requirements of this licence and associated procedures;
 - 16.2.2 The requirements of the drinking water works permit for the drinking water system;
 - 16.2.3 Procedures for monitoring and recording the in-process parameters necessary for the control of any treatment subsystem and for assessing the performance of the drinking water system;
 - 16.2.4 Procedures for the operation and maintenance of monitoring equipment;
 - 16.2.5 Contingency plans and procedures for the provision of adequate equipment and material to deal with emergencies, upset conditions and equipment breakdown;
 - 16.2.6 Procedures for dealing with complaints related to the drinking water system, including the recording of the nature of the complaint and any investigation and corrective action taken in respect of the complaint;
- 16.3** Procedures necessary for the operation and maintenance of any alterations to the drinking water system shall be incorporated into the operations and maintenance manual or manuals prior to those alterations coming into operation.

Schedule C: System-Specific Conditions

System Owner	The Corporation of the Town of Fort Frances
Licence Number	224-101
Drinking Water System Name	Fort Frances Drinking Water System
Schedule C Issue Date	July 29th, 2011

1.0 Performance Limits

Rated Capacity

- 1.1 For each treatment subsystem listed in column 1 of Table 1, the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed the value identified as the rated capacity in column 2 of the same row.

Table 1: Rated Capacity	
Column 1 Treatment Subsystem Name	Column 2 Rated Capacity (m ³ /day)
Fort Frances Water Treatment Plant	17,000

- 1.2 Despite condition 1.1, a treatment subsystem may be operated temporarily at a daily volume above the value set out in column 2 of Table 1 for the purposes of fighting a large fire or for the maintenance of the drinking water system.
- 1.3 Condition 1.2 does not authorize the discharge into the distribution system of any water that does not otherwise meet all of the requirements of this licence and all other regulatory requirements, including compliance with the Ontario Drinking Water Quality Standards.

Maximum Flow Rates

- 1.4 For each treatment subsystem listed in column 1 of Table 2, the maximum flow rate of water that flows into a treatment subsystem component listed in column 2 shall not exceed the value listed in column 3 of the same row.

Table 2: Maximum Flow Rates		
Column 1 Treatment Subsystem Name	Column 2 Treatment Subsystem Component	Column 3 Maximum Flow Rate (L/s)
Not Applicable	Not Applicable	Not Applicable

Residue Management

- 1.5** In respect of an effluent discharged into the natural environment from a treatment subsystem or treatment subsystem component listed in column 1 of Table 3:
- 1.5.1 The annual average concentration of a test parameter identified in column 2 shall not exceed the value in column 3 of the same row; and
- 1.5.2 The maximum concentration of a test parameter identified in column 2 shall not exceed the value in column 4 of the same row.

Table 3: Residue Management			
Column 1 Treatment Subsystem or Treatment Subsystem Component Name	Column 2 Test Parameter	Column 3 Annual Average Concentration (mg/L)	Column 4 Maximum Concentration (mg/L)
Not Applicable	Not Applicable	Not Applicable	Not Applicable

UV Disinfection Equipment Performance

- 1.6** For each treatment subsystem or treatment subsystem component listed in column 1 of Table 4, the UV disinfection equipment shall be operated such that a continuous pass-through UV dose is maintained throughout the life time of the UV lamp(s) that is at least the minimum continuous pass-through UV dose set out in column 2 of the same row.

Table 4: UV Disinfection Equipment Performance	
Column 1 Treatment Subsystem or Treatment Subsystem Component Name	Column 2 Minimum Continuous Pass-Through UV Dose (mJ/cm ²)
Not Applicable	Not Applicable

2.0 Flow Measurement and Recording Requirements

- 2.1** For each treatment subsystem identified in column 1 of Table 1 and in addition to any other flow measurement and recording that may be required, continuous flow measurement and recording shall be undertaken for:
- 2.1.1 The flow rate and daily volume of treated water that flows from the treatment subsystem to the distribution system.
- 2.1.2 The flow rate and daily volume of water that flows into the treatment subsystem.
- 2.2** For each treatment subsystem component identified in column 2 of Table 2 and in addition to any other flow measurement and recording that may be required, continuous flow measurement and recording shall be undertaken for the flow rate and daily volume of water that flows into the treatment subsystem component.

2.3 Where a rated capacity from Table 1 or a maximum flow rate from Table 2 is exceeded, the following shall be recorded:

2.3.1 The difference between the measured amount and the applicable rated capacity or maximum flow rate specified in Table 1 or Table 2;

2.3.2 The time and date of the measurement;

2.3.3 The reason for the exceedance; and

2.3.4 The duration of time that lapses between the applicable rated capacity or maximum flow rate first being exceeded and the next measurement where the applicable rated capacity or maximum flow rate is no longer exceeded.

3.0 Calibration of Flow Measuring Devices

3.1 All flow measuring devices must be checked and calibrated in accordance with the manufacturer's instructions.

3.2 If the manufacturer's instructions do not indicate how often to check and calibrate a flow measuring device, the equipment must be checked and calibrated at least once every year during which the drinking water system is in operation.

4.0 Additional Sampling, Testing and Monitoring

Drinking Water Health and Non-Health Related Parameters

4.1 For each treatment subsystem or treatment subsystem component identified in column 1 of Tables 5 and 6 and in addition to any other sampling, testing and monitoring that may be required, sampling, testing and monitoring shall be undertaken for a test parameter listed in column 2 at the sampling frequency listed in column 3 and at the monitoring location listed in column 4 of the same row.

Table 5: Drinking Water Health Related Parameters			
Column 1 Treatment Subsystem or Treatment Subsystem Component Name	Column 2 Test Parameter	Column 3 Sampling Frequency	Column 4 Monitoring Location
Not Applicable	Not Applicable	Not Applicable	Not Applicable

Table 6: Drinking Water Non-Health Related Parameters			
Column 1 Treatment Subsystem or Treatment Subsystem Component Name	Column 2 Test Parameter	Column 3 Sampling Frequency	Column 4 Monitoring Location
Not Applicable	Not Applicable	Not Applicable	Not Applicable

Environmental Discharge Parameters

- 4.2** For each treatment subsystem or treatment subsystem component identified in column 1 of Table 7 and in addition to any other sampling, testing and monitoring that may be required, sampling, testing and monitoring shall be undertaken for a test parameter listed in column 2 using the sample type identified in column 3 at the sampling frequency listed in column 4 and at the monitoring location listed in column 5 of the same row.
- 4.3** For the purposes of Table 7:
- 4.3.1** Manual Composite means the mean of at least three grab samples taken during a discharge event, with one sample being taken immediately following the commencement of the discharge event, one sample being taken approximately at the mid-point of the discharge event and one sample being taken immediately before the end of the discharge event; and
- 4.3.2** Automated Composite means samples must be taken during a discharge event by an automated sampler at a minimum sampling frequency of once per hour.
- 4.4** Any sampling, testing and monitoring for the test parameter Total Suspended Solids shall be performed in accordance with the requirements set out in the publication "Standard Methods for the Examination of Water and Wastewater", 21st Edition, 2005, or as amended from time to time by more recently published editions.

Table 7: Environmental Discharge Parameters				
Column 1 Treatment Subsystem or Treatment Subsystem Component Name	Column 2 Test Parameter	Column 3 Sample Type	Column 4 Sampling Frequency	Column 5 Monitoring Location
Fort Frances Water Treatment Plant	Suspended Solids	Composite	Quarterly	Point of discharge to Rainy River

UV Disinfection Equipment

- 4.5** For each treatment subsystem or treatment subsystem component listed in column 1 of Table 8 and in addition to any other sampling, analysis and recording that may be required, continuous monitoring and recording with a minimum testing/reading and recording frequency of every four (4) hours shall be carried out for the test parameters set out in column 3 of the same row.

Table 8: UV Disinfection Equipment		
Column 1 Treatment Subsystem or Treatment Subsystem Component Name	Column 2 Control Strategy	Column 3 Test Parameter
Fort Frances Water Treatment Plant	Not Applicable	Not Applicable

5.0 Studies Required

- 5.1** Not applicable

Schedule D: Conditions for Relief from Regulatory Requirements

System Owner	The Corporation of the Town of Fort Frances
Licence Number	224-101
Drinking Water System Name	Fort Frances Drinking Water System
Schedule D Issue Date	July 29th, 2011

1.0 Lead Regulatory Relief

- 1.1** Any relief from regulatory requirements previously authorized by the Director in respect of the drinking water system under section 38 of the SDWA in relation to the sampling, testing or monitoring requirements contained in Schedule 15.1 of O. Reg. 170/03 shall remain in force until such time as Schedule 15.1 of O. Reg. 170/03 is amended after June 1, 2009.

2.0 Other Regulatory Relief

- 2.1** Not Applicable.

August 26, 2015

Report To: Mayor & Council

From: Doug Brown, Manager Operations & Facilities

**SUBJECT: 2014 June Flood Disaster Event – Request to Extend
Timeline for the Ontario Disaster Relief Assistance
Program (ODRAP) Agreement**

On Tuesday August 25, 2015, Town Administration met with Jessica Vail of the Ministry of Municipal Affairs & Housing. As a result of this meeting it was apparent that all of the infrastructure which was damaged as a result of the June 2014 flood event would not be repaired prior to the expiration of the ODRAP funding agreement of April 29, 2016 with the Provincial Government.

Some of the outstanding work scheduled to be completed during the 2016 construction season is as following;

1. **Approximately 400 linear meters of Sidewalk along Calder Drive** must be removed and replaced – This sidewalk work is proposed to be included in the 2016 Tender Package for the reconstruction of Colonization Road East- Thus this sidewalk work will be completed by October 1st of 2016.
2. **Approximately 400 linear meters of Surface Treatment of a section of Calder Drive** – Separate tender or quotation– work to be completed by September 1st, 2016.
3. **Storm sewer Infrastructure – Intersection of Minnie Ave./Front Street**

At this time, the Town is required to officially request an extension to the existing ODRAP agreement with the Provincial government. It is suggested that December 31, 2017 be requested as one of the terms of the existing agreement as a municipal auditor must complete an audit of the grant money received where the maintenance holdback from the 2016 work will not be released until October of 2017.

The Operations & Facilities Executive Committee recommends the following;

- 1) That the Town officially request that the existing ODRAP agreement timeline of April 29, 2016 be extended to December 31, 2017.
- 2) That the Mayor and Clerk be authorized to execute any amendment to the existing ODRAP agreement as a result of the extension of the timeline on behalf of the Corporation of the Town of Fort Frances.

Respectfully submitted,
Operations & Facilities Division



Doug Brown, P. Eng.
Manager Operations & Facilities

Council approval of this report will ensure the following:

- 1) That the Town officially request that the existing ODRAP agreement timeline of April 29, 2016 be extended to December 31, 2017.
- 2) That the Mayor and Clerk be authorized to execute any amendment to the existing ODRAP agreement as a result of the extension of the timeline on behalf of the Corporation of the Town of Fort Frances.

2015AugustExtensionofODRAPfundingagreement

August 26, 2015

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

SUBJECT: Recycling Services – Execution of 5-year term Agreement for Haulage & Processing with Emterra

As you are aware the upgrades to the Town's Recycling transfer station/drop-off depot facility are nearly complete. As a result the method of hauling and processing the Town's recyclables must be modified at this time.

Prior to the upgrades, the Town delivered the recyclables by utilizing Northern Deck (part of Gardwine Group Ltd. Partnership) walking floor trailers to the Cascade Material Recovery Facility (MRF) located at 100 Omands Creek Blvd. Winnipeg, Manitoba. There were no agreements in place with either Northern Deck (haulage) or Cascade (processing). The Town's workforce and equipment has been extensively utilized to load the walking floor trailers and empty the four - 6 cubic yard drop-off containers on a continuous basis.

In the near future the curbside collection recycling truck will dump directly into the hopper of the stationary compactor unit (c/w an attached 40 cubic yard roll off container) by accessing the hopper on top of the concrete retaining wall. The general public will continue to drop off their recyclables, however they will place them into a hopper attached to another stationary compactor unit (c/w another 40 cubic yard roll-off container). Access to this hopper will be from outside the existing chain link fencing.

As a result of these upgrades, there will be a cost savings to the Town as less manpower resources will be required to operate the recycling facility.

The Town received funding from Stewardship Ontario for the installation of the new stationary compaction equipment and the 40 cubic yard roll-off containers where the Town will receive 44% of the total project costs. One of the reasons why the Town received the funding for these upgrades, was to ensure that a permanent network of recycling services could be offered in the Rainy River District. The smaller communities west of Town would be able to piggyback or tap into such recycling services in the future.

Since the latter part of July, Emterra has been hauling two 40 cubic yard roll off containers of recyclables per trip to their MRF (recycling plant) at 1029 Henry Avenue, Winnipeg Manitoba. Approximately 90 tonnes has already been delivered to the Emterra MRF in Winnipeg.

At this time, administration is recommending that the Town enter into two separate 5-year term recycling service agreements with Emterra; one for haulage and the other for processing.

In regards to how the agreements were developed, Stewardship Ontario obtained quotes from both MRFs; Emterra and Cascades in the 2nd quarter of 2014 on behalf of all the municipalities in the Kenora and Rainy River Districts to try to obtain better pricing and/or price control. Also draft copies of the standard recyclable haulage and processing agreements were supplied to the Town by Stewardship Ontario and Waste Diversion Ontario where the Town's lawyer reviewed the agreements prior to them being forwarded to Emterra for review and approval.

Please find attached a draft copy of both agreements for your review and comments.

The Operations & Facilities executive committee recommends the following;

- 1) That the Town enter into a 5-year term agreement with Emterra for haulage services of the Town's recyclables commencing on September 14, 2015.
- 2) That the Town enter into a 5-year term agreement with Emterra for processing services of the Town's recyclables commencing on September 14, 2015.
- 3) That the Mayor and Clerk be authorized to execute the recycling service agreements with Emterra on behalf of the Corporation.

Respectfully Submitted
Operations & Facilities Division

A handwritten signature in cursive script that reads "Doug Brown".

Doug Brown, P. Eng.
Operations and Facilities Manager

Council approval of this report will ensure the following;

- 1) That the Town enter into a 5 year term agreement with Emterra for haulage services of the Town's recyclables commencing on September 14, 2015.
- 2) That the Town enter into a 5 year term agreement with Emterra for processing services of the Town's recyclables commencing on September 14, 2015.
- 3) That the Mayor and Clerk be authorized to execute the recycling service Agreements with Emterra on behalf of the Corporation.

2015AugustreportEmterraagreements

Haulage Agreement between Emterra and The Corporation of the Town of Fort Frances

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This Agreement is made as of the _____ day of _____ 2015,

Between:

Halton Recycling Ltd. dba Emterra Environmental.

Hereinafter referred to as the “**Contractor**”

And

The Corporation of the Town of Fort Frances in the Province of

Ontario. Hereinafter referred to as the “**Municipality**”

Whereas the Municipality wished to enter in an agreement to secure the services of the Contractor to transport Recyclable Materials from the Municipal Transfer Facility to the Emterra MRF; and

Whereas the Contractor intends to acquire and operate transport equipment designed for the haulage of Non-Hazardous Solid Waste/Recyclables; and

Whereas the Contractor wishes to enter into an agreement to supply haulage services to The Municipality subject to the terms herein set out;

Now Therefore, in consideration of the mutual promises, terms, conditions and covenants contained herein, the parties hereto, intending to be legally bound, do hereby agree as follows:

1.0 Definitions:

In this Agreement and any Schedules hereto, the following terms shall have the meanings described:

- (a) “Agreement” shall mean this Agreement and any schedules, attachments and amendments thereto;
- (b) “MRF” means the Emterra Recycling Facility located at 1029 Henry Ave, Winnipeg, Manitoba;
- (c) “Business Day” means 7:00 AM to 7:00 PM, Monday through Saturday, excluding statutory holidays identified in Schedule 1 – Statutory Holidays;
- (a) “Agreed Recyclable Materials” means materials included in Schedule 2 - Acceptable Materials Under This Agreement including Residual Materials (not acceptable materials outlined in schedule 2) collected in a curbside or depot collection program in the Municipality and transported to the MRF either by municipal transfer vehicles or by contract transfer vehicles.
- (d) “Transfer Facility” means the municipal solid waste transfer facility(ies) located at 533- 6th Street West, Fort Frances Ontario.
- (e) “Container” means the compactor roll off containers purchased by the Municipality for use with the Blue Box compactor unit or units installed at the Transfer Facility.
- (f) “Undertaking” means the work contemplated in Section 3.0.

2.0 Representations:

The Contractor hereby represents and warrants unto the Municipality that:

- (a) It has done all corporate acts necessary to enter into and carry out its obligations under this Agreement; and
- (b) It is not a non-resident of Canada within the meaning of Section 116 of the Income Tax Act (Canada).
- (c) It has done all due diligence necessary to understand and fully perform the scope of work required under this agreement and any amendments thereto.

3.0 Solid Waste Haulage:

The Contractor agrees to supply the haul trucks and transport full containers of Agreed Recyclable materials from the Compactor unit at the Municipality's Transfer Facility; install an empty container to replace the removed container, load the removed container onto a haulage vehicle provided by the Contractor; haul the removed container to the Contractor's MRF and return any empty containers to the Municipality's Transfer Facility as needed to insure adequate capacity is available at the Transfer Facility during operating hours.

4.0 Contractor's Obligations:

The Contractor shall at its own expense:

- (b) supply all labour, equipment and materials necessary to carry out its obligations hereunder, save and except for that labour, equipment and materials which this Agreement specifically provides are to be supplied by the Municipality;
- (c) monitor and report to the municipality on a monthly basis on tonnages of material delivered to the MRF and ensure that Containers are returned to the Transfer Facility in good condition suitable for installation and operation;
- (d) compensate the Municipality or repair any damage to the Municipality's equipment caused by the negligence or misconduct of the Contractor's employees or equipment, normal wear excluded. The Contractor shall immediately repair or replace defective equipment (in the sole discretion of the municipality) following notice in writing delivered to the contractor.;
- (e) use only such equipment and material as meets with the approval of the Municipality;
- (f) comply with all federal, provincial and municipal laws, and the Municipality's safety rules while carrying out its obligations under this Agreement;
- (g) designate a foreperson who shall be responsible for overseeing the operations of the Contractor's employees or servants in carrying out this Agreement and provide the Municipality with the foreperson's name, location, e-mail and telephone number(s) and provide the ability to leave a message 24 hours/day which shall be promptly answered by the foreperson or other person of authority capable of resolving any

urgent agreement operating issues.;

- (h) submit, on a form approved by the Municipality, regular monthly reports showing particulars of the work performed by the Contractor to a representative designated by the Municipality who shall, if satisfied that the report accurately sets out the work performed by the Contractor, approve and sign the report;
- (i) at all times enforce discipline and good order among its employees and not employ any incompetent person or person not skilled in the work assigned; and
- (j) provide the Municipality with independent certified monthly reports of fuel use data related to any haulage vehicles used under this Agreement.

5.0 Municipality's Obligations:

The Municipality agrees:

- (a) to promptly sign off on Contractor's reports, described in Subsection 4.0(g), if completed in a satisfactory manner;
- (b) to provide adequate supervision and direction at the Transfer Facility;
- (c) to provide the necessary labour, equipment and facilities to load Solid Waste/Agreed Recyclable Materials into the Roll-off Containers;
- (d) to compensate the Contractor or repair any damage to the equipment that occurs at the Transfer Facility caused by the negligence or misconduct of the Municipality's employees or equipment, normal wear and tear excluded;
- (e) to supply third party liability, fire, theft and vandalism insurance on the Municipality's equipment.

6.0 Term:

Absence a Change of Law as described in Section 14.0, this agreement shall be for a term of five (5) years from September 14, 2015 to September 13, 2020.

7.0 Payment For Work:

The Municipality shall, within 30 days of receipts and approval of invoices prepared by the Contractor, pay to the Contractor such sum as is determined to be payable to the Contractor pursuant to Section 8.0, less any amount which is owed by the Contractor to the Municipality.

8.0 Price:

The Municipality agrees to pay for the services set out in this agreement at the following rate:

- (a) Rate per trip for Agreed Recyclable Materials hauled from the Transfer Station \$1650 per trip plus HST; This rate shall include all regularly scheduled maintenance costs for the equipment in service.
- (b) Haulage of materials (not acceptable materials) not usually hauled as part of this

agreement shall be at such rates as are agreed upon from time to time by the parties;

- (c) The rate set out in Paragraph 8.0(a) hereof is based on use of Tandem Axle Roll Off Truck and Four Axle Trailer Combination with an allowable gross vehicle weight of 53,500 kilograms and manufactured prior to July 1, 2011. In the event that the allowable weight is increased or decreased by an appropriate government body, the payload shall be altered, but the rate per load shall remain the same;
- (d) The rate set out in Paragraph 8.0(a) is based on supply of Recyclables from the Transfer Station on an as needed basis (estimated thirty (30) trips per year). This volume will fluctuate from month to month and the Contractor must alter their hauling schedule to meet these fluctuations. There will be no adjustment in the price per load for any such alteration;

9.0 Escalation:

The Municipality agrees that the Rates herein will be subject to annual escalation or reduction as follows:

- (a) The parties agree that the rates provided for in this agreement shall be adjusted on each anniversary of this agreement, the first such adjustment to take place on July 1st, 2016 and thereafter on each July 1st during the term of the agreement, as follows:

- (i) by a factor to compensate for changes in the Consumer Price Index, as shown on CANSIM Table 326-0020, or successor table, for Winnipeg, Manitoba, All Items, and calculated as follows:

$$\text{CPI Factor} = \text{Average CPI for prior agreement year} \div \text{Average CPI for 12 months prior to start-up of Agreement}$$

$$\text{New Rate} = \text{Original Rate} \times \text{CPI Factor}$$

- (ii) by a Fuel Surcharge Factor per trip (FSF), based on fuel prices, reported for Thunder Bay on the Ontario Ministry of Energy Fuel Prices web page, equal to:

$$\text{FSF} = \text{Return distance in kilometres between facility and MRF} \times \text{litres per kilometer for truck determined from independent certified reports of fuel use data described in sub section 4.0(j)} \times \text{difference between average fuel price for 12 months prior to adjustment date and the Baseline Fuel Price described in section 9.0(b)}.$$

- (b) The Baseline Fuel Price for diesel, for this agreement, shall be set at 115.0 cents per litre (plus applicable taxes). The Baseline Fuel Price for compressed natural gas (CNG) price for this agreement shall be set at 85.0 cents per litre.

10.0 Protection of Life Property and Public Utilities:

The Contractor is responsible for taking appropriate safety precautions in carrying out its

obligations under this Agreement. The Contractor shall protect all property from damage or losses resulting from the performance of this Agreement and shall minimize the disturbance and inconvenience to the public. In the case of any emergency arising during the performance of this Agreement affecting or threatening the Municipality's facilities, or safety of life, or adjoining or other property, the Municipality may, unless directed to the contrary by emergency authorities, at their discretion, take such steps as deemed proper to prevent or lessen any such effect or threat, provided, however, that in case of such emergency, the Municipality shall forthwith notify the Contractor of any action taken.

11.0 Insurance:

- (a) The Contractor shall maintain such insurance, or pay such assessments, as will protect them and the Municipality from all claims:
 - (i) under the Workers Compensation Act;
 - (ii) minimum of \$5 million for damages for personal injury including death; and
 - (iii) minimum of \$2 million for property damage;which may arise as a consequence of Contractor performance or non-performance of obligations under this Agreement;
- (b) Such Policy shall name the Municipality as an additional insured thereunder and shall contain:
 - (a) The insurer's waiver of any rights of subrogation or indemnity or any other claim to which the insurer might otherwise be entitled as against the Municipality and any other corporation owned, operated, or controlled by or affiliated with the Municipality, together with a severability of interest clause and a cross liability clause;
 - and
 - (b) An undertaking by the insurer not to cancel, change, lapse or refuse to renew the insurance therein granted without first giving the parties notice of its intentions in writing of at least 60 days prior to the intended change, lapse, cancellation or termination.
- (c) Certificates of such insurance shall be furnished to the Municipality on an annual basis and shall be subject to its approval as to the adequacy of protection. Such insurance shall be maintained until the Municipality certifies that performance of this Agreement is complete.

12.0 Permits, Licenses:

The Contractor, its agents and assigns shall obtain, pay for and maintain all permits and licenses, whether of a permanent or temporary nature, necessary for it to carry out its obligations hereunder and to operate and do business in any province, municipality or other jurisdiction in which the parties carry out any part of this Agreement.

13.0 Assignment or Sub-Contract:

It is agreed that this Agreement and the rights and obligations of the Contractor may not be assigned or subcontracted without the express written consent of the parties, which consent will not be unreasonably withheld.

14.0 Change of Law

“Change of Law” means the coming into effect after the date of this Agreement changes to the Ontario Waste Diversion Act; Ontario Regulation 273/02; Ontario Regulation 101/94; the Blue Box Program Plan; or any applicable judgment of a relevant court of law which changes the interpretation of these statutes and is a binding precedent affecting the obligations of the Municipality to collect, transport, process or otherwise manage residential Blue Box materials.

If the obligations of the Municipality change as a result of a Change of Law, the Municipality may give notice of termination and the contractor shall not be entitled to any compensation following the termination date notwithstanding any time remaining on the original term of the or any extensions thereon agreed to by the parties.

If a Change of Law occurs, the Municipality and the Contractor are obliged to take reasonable steps to mitigate the adverse impact of such Change of Law upon the “Agreement.”

15.0 Liens:

The Contractor undertakes and agrees to take all necessary and proper steps to ensure that no claims for liens will be filed against the property of the Municipality. If, notwithstanding the foregoing undertaking, any claim for a lien shall be filed, and so often as the same shall happen, the Contractor agrees that they will, at their own expense, within ten (10) days of the Contractor receiving notice of the filing thereof, cause the same to be canceled and removed.

16.0 Contractor to Indemnify Municipality

The Contractor further agrees to indemnify the Municipality against all loss, costs, charges and expenses occasioned by, resulting from or in any way arising out of such claims.

17.0 Arbitration or Mediation:

All matters in dispute under this Agreement that are not resolved in a timely fashion shall be referred to mediation, or failing resolution at mediation, to arbitration by a single arbitrator, if the parties agree upon one, otherwise to an arbitrator appointed by the Superior Court of Justice of Ontario, pursuant to the Arbitration Act of Ontario.

18.0 Termination:

This agreement may be terminated by the Contractor or the Municipality in the event of a material change in circumstances on six (6) months notice.

19.0 Default:

In the event that the Contractor is in default of its obligation under this agreement, the Municipality may correct the default and charge the cost of the corrective action to the Contractor.

In the event that either party is in default of its obligations hereunder, and such default continues after six (6) months written notice, or in the event that either party becomes insolvent or bankrupt, then the other party may forthwith terminate this agreement.

20.0 Performance Bond:

For the first year term of the this haulage agreement, the Contractor shall supply the Municipality with an irrevocable letter of credit or other performance bond in the amount of \$25,000. It is understood by both the Municipality and the Contractor the requirement to maintain a letter credit for the full term of the agreement will be re-evaluated by the Municipality in July of 2016 with the understanding that it may not be required for the remainder of the term of the agreement.

21.0 Notice:

Any notice, direction or other instrument required or permitted to be given to the Contractor hereunder shall be in writing and may be given by mailing same, postage pre-paid, or delivering same to the Contractor at 1029 Henry Ave Winnipeg MB R3E 1V6. Any notice, direction or other instrument required or permitted to be given to the Municipality hereunder shall be in writing and may be given by mailing same, postage pre-paid, or delivering same to the Municipality at Attention Clerk, 320 Portage Avenue, Fort Frances, Ontario P9A 3P9. Notice will be deemed to having been given as of 3 business days after the post date of mailing.

22.0 Force Majeure:

Delays in or failure in the performance of either party under the Agreement shall not constitute default hereunder or give rise to any claim for damages if and to the extent caused by occurrences beyond the control of the party affected, including but not limited to decrees of Government, acts of God, fires, floods, explosions, riots, war, rebellion, sabotage and atomic or nuclear incidents, but lack of finances, strikes or other concerted acts by workers, delay or failure arising out of the nature of the Work to be done, or from the normal action of the elements or from any normal difficulties which may be encountered in the performance of the Work, having regard to the nature thereof, shall in no event be deemed to be a cause beyond a party's control. Normal difficulties include but are not limited to those related to quality of equipment or delay in delivery of equipment.

In the event that performance of this Agreement in the reasonable opinion of either party is made impossible by force majeure, then either party shall notify the other in writing and the

Municipality shall either;

- a. terminate this Agreement forthwith and without any further payments being made, or
- b. Authorize the Proponent to continue the performance of the Agreement with such adjustments as required by the existence of the force majeure and agreed upon by both parties. In the event that the parties cannot agree upon the aforementioned adjustments, it is agreed by the parties that this Agreement shall be terminated.

23.0 Contractor to Assume Custody of Agreed Solid Waste:

The Contractor shall assume custody and control of the Agreed Recyclable material once it has been loaded into the haulage vehicle and leaves the property of the Transfer Facility.

24.0 Waiver:

No provision of this Agreement will be deemed to be waived, and no breach excused, unless such waiver or consent excusing the breach is in writing and signed by the party to be charged with such waiver or consent. A specific waiver of any provision of this Agreement or of any breach of any provision is not deemed or construed to be a change, amendment or modification of any provision of this Agreement or waiver of any other breach, whether of the same or of any other provision, nor shall any delay or omission on the part of any party to this Agreement to exercise or avail itself of any right it has or may have under this Agreement, operate as a waiver of any other breach or right, nor will any waiver or failure to enforce any of the provisions of this Agreement in any way affect the validity of the Agreement of any part of it.

25.0 Time Of The Essence:

Time shall be of the essence hereof.

26.0 Schedules

Schedules to this agreement may be added by the parties from time to time as required.

27.0 Entire Agreement:

This Agreement supersedes all prior negotiations and agreements including, without limitation, any previous agreement, with respect to the haulage of Recycle material and contains the entire understanding between the Parties.

28.0 Governing Law, Currency Headings and Interpretations

- (a) This Agreement shall be construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein;
- (b) All sums of money referred to herein are expressed in Canadian currency;
- (c) Headings appearing in this Agreement are for general information and reference only and this Agreement shall not be construed by reference to such headings;
- (d) Materials or work described in words which, so applied, have a well known technical or trade meaning shall be held to refer to such recognized standards;

- (e) In interpreting this Agreement, where the context so requires, the singular shall include the plural and the masculine and the feminine shall include the neuter and vice-versa.

In Witness Whereof the Contractor and the Municipality have signed this Agreement by their duly authorized officers as of the day and year first above mentioned.

Halton Recycling Ltd. dba Emterra Environmental

Per: _____ Date: _____

I have the authority to bind the Corporation

Per: _____ Date: _____

I have the authority to bind the Corporation

The Corporation of the Town of Fort Frances

Per: _____ Date: _____

I have the authority to bind the Corporation

Per: _____ Date: _____

I have the authority to bind the Corporation

Schedule 1 - Statutory Holidays

New Years Day	January 1 st
Family Day (Ontario)	3 rd Monday in February
Good Friday	varies
Victoria Day	Monday before May 25 th
Canada Day	July 1 st
Civic Holiday (Ontario)	First Monday in August
Labour Day	First Monday in September
Thanksgiving	2 nd Monday in October
Remembrance Day	November 11 th
Christmas day	December 25 th
Boxing Day (Ontario)	December 26 th
½ day December 24 th Open 7:30 am to 11:30 am PW office closed at 11:30	
½ day December 31 th Open 7:30 am to 11:30 am PW office closed at 11:30	

Schedule 2 - Acceptable Materials Under This Agreement

Emterra's Winnipeg Single Stream MRF can process the full spectrum of packaging and printed paper, including:

1. OCC
2. ONP
3. Flyers, writing paper, envelopes, magazines, junk mail, clean pizza boxes
4. Boxboard
5. Rigid food and beverage plastic #1-7 containers including clam shells
6. Aseptic and polycoated food and beverage containers
7. Aluminum food and beverage containers
8. Tin food and beverage containers
9. Glass bottles and jars

The following materials are **not acceptable** (Residual Materials) at this facility:

1. Laminated paper cups
2. expanded polystyrene
3. Film plastic
4. Aluminum foil, foil pie plates, foil food containers
5. Mirrors, window glass, broken glass
6. Light bulbs, drinking glasses, ceramics, cookware
7. Styrofoam packing & trays
8. Non-paper gift wrap eg – foil gift wrap
9. Cardboard boxes with wax coating
10. Paper towels, napkins or tissues
11. Used Motor oil containers & batteries
12. Bioplastic or compostable plastic
13. Liquid- absorbing pads e.g. in trays of meats, poultry, fish etc..
14. Plastic wrap and shrink wrap for meat, poultry, fish or cheese
15. Plastics that are not containers e.g. toys, laundry baskets, plastic cutlery
16. Ceramic plant pots
17. Plastic blister packs e.g. plastic/paper packing for batteries, toothbrushes, etc.. or plastic/foil protective packing for chewing gums and pills

Additional materials may be added for inclusion or exclusion from time to time during the term of this contract with the consent of both parties, in writing, following negotiated changes to prices and other contract terms as may be applicable.

Processing Agreement between Emterra and The Corporation of the Town of Fort Frances

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This Agreement is made as of the ____ day of _____ 2015,

Between:

Halton Recycling Ltd. dba Emterra Environmental.

Hereinafter referred to as the “**Contractor**”

And

The Corporation of the Town of Fort Frances in the Province of

Ontario. Hereinafter referred to as the “**Municipality**”

Whereas the Contractor wishes to enter into an agreement to provide processing services for Non-Hazardous Solid Waste/Recyclables to the Corporation of the Town of Fort Frances on and subject to the terms herein set out;

Now Therefore, in consideration of the mutual promises, terms, conditions and covenants contained herein, the parties hereto, intending to be legally bound, do hereby agree as follows:

1.0 Definitions:

In this Agreement and any Schedules hereto, the following terms will have the meanings described unless the context otherwise specifically provides:

- (a) “Agreement” shall mean this Agreement and any schedules, attachments and amendments thereto;
- (b) “MRF” means the Emterra Recycling Facility located at 1029 Henry Ave, Winnipeg, Manitoba;
- (c) “Business Day” means 7:30 AM to 4:00 PM, Monday through Friday, excluding statutory holidays identified in Schedule 1 - Statutory Holidays;
- (d) “Contracted recyclable material” means all recyclable material as listed for curbside collections as specified in Schedule 2 - Acceptable Materials Under This Agreement.
- (e) “Single Stream Materials” means materials included in Schedule 2 - Acceptable Materials Under This Agreement including Residual Materials (not acceptable materials outlined in schedule 2) collected in a curbside or depot collection program in the Municipality and transported to the MRF either by municipal transfer vehicles or by contract transfer vehicles.
- (f) “Undertaking” means the work contemplated in Section 3.0, subject to the Contractor’s obligations in Section 4.0.

2.0 Representations:

The Contractor hereby represents and warrants unto the Municipality that:

- (a) It has done all corporate acts necessary to enter into and carry out its obligations under this Agreement; and
- (b) It is not a non-resident of Canada within the meaning of Section 116 of the Income

Tax Act (Canada).

- (c) It has done all due diligence necessary to understand and fully perform the scope of work required under this agreement and any amendments thereto.

3.0 Solid Waste Receipt and Processing:

The Contractor agrees to receive and process Single Stream Materials from the Municipality on a 50% cost sharing basis at a rate per tonne of Single Stream Material received at the MRF as outlined in Schedule 3 – Original Offer from Emterra

4.0 Contractor's Obligations:

The Contractor shall at its own expense:

- (a) supply all labour, equipment and materials necessary to carry out its obligations hereunder, save and except for that labour, equipment and materials which this Agreement specifically provides are to be supplied by the Municipality;
- (b) allow municipal transfer vehicles access to the MRF at any time during the Business Day and provide for the unloading of municipal transfer vehicles within sixty (60) minutes of their arrival at the MRF;
- (c) monitor and report to the municipality on a monthly basis on tonnages of material delivered to the MRF;
- (d) monitor and report on commodity revenues received and tonnages, residual waste and Blue Box materials, processed by the MRF, by categories, consistent with Schedule 4 – Normal WDO Material Categories or such other material category list agreed to by the Municipality and the Contractor;
- (e) dispose of any residual material as per schedule 2 (not acceptable materials);
- (f) designate a foreperson who shall be responsible for overseeing the operations of the Contractor's employees or servants in carrying out this Agreement and provide the Municipality with the foreperson's name, location, e-mail and telephone number(s) and provide the ability to leave a message 24 hours/day which shall be promptly answered by the foreperson or other person of authority capable of resolving any urgent agreement operating issues.”;
- (g) submit, on a form approved by the Municipality, regular monthly reports showing particulars of the work performed by the Contractor to a representative designated by the Municipality who shall, if satisfied that the report accurately sets out the work performed by the Contractor, approve and sign the report; and
- (h) at all times enforce discipline and good order among its employees and not employ any incompetent person or person not skilled in the work assigned.

5.0 Municipality's Obligations:

The Municipality agrees:

- (a) to make reasonable efforts to reduce contamination and improve the quality of Single Stream materials;
- (b) to promptly sign off on Contractor's reports, described in Subsection 4.0(g), if completed in a satisfactory manner;

6.0 Term:

Absent a Change of Law as described in Section 14.0, this agreement shall be for a term of five (5) years from September 14, 2015 to September 13, 2020.

7.0 Payment For Work:

The Municipality shall, within 30 days of receipts and approval of invoices prepared by the Contractor, pay to the Contractor such sum as is determined to be payable to the Contractor pursuant to Section 8.0, less any amount which is owed by the Contractor to the Municipality.

8.0 Price:

The Municipality agrees to pay for the services set out in this agreement at the following rate:

- (a) \$10.00 per tonne City of Winnipeg host fee (the "Host Fee") plus;
- (b) \$70 per metric tonne of Single Stream Material delivered FOB Emterra Winnipeg MRF (the "Base Processing Cost"); less
- (c) 50% of commodity revenues (net of transportation costs to end markets) if the basket price of commodities exceed \$60 per tonne (net of transportation costs to end markets); or
- (d) \$0.00 of revenue share if the basket price of commodities does not exceed \$60 per tonne (net of transportation costs to end markets).
- (e) The rate set out in Paragraph 8.0(a) is not a put or pay based rate;

9.0 Escalation:

The Municipality agrees that the Rates herein will be subject to annual escalation or reduction as follows:

- (a) The parties agree that the Base Processing Cost provided for in this agreement shall be adjusted on each anniversary of this agreement, the first such adjustment to take place on July 1st, 2016, and thereafter on each July 1st during the term of the agreement act, as follows:
 - (i) by a factor to compensate for changes in the Consumer Price Index, as shown on CANSIM Table 326-0020, or successor table, for Winnipeg, Manitoba, All Items, and calculated as follows:

CPI Factor = Average CPI for prior agreement year ÷ Average CPI for 12 months prior to start-up of Agreement

- (b) The Host Fee shall only be adjusted if changed by the City of Winnipeg.

10.0 Protection of Life Property and Public Utilities:

The Contractor is responsible for taking appropriate safety precautions in carrying out its obligations under this Agreement. The Contractor shall protect all property from damage or losses resulting from the performance of this Agreement and shall minimize the disturbance and inconvenience to the public. In the case of any emergency arising during the performance of this Agreement affecting or threatening the Municipality's facilities, or other property, or safety of life, or adjoining or other property, the Municipality may, unless directed to the contrary by emergency authorities, at their discretion, take such steps as deemed proper to prevent or lessen any such effect or threat, provided, however, that in case of such emergency, the Municipality shall forthwith notify the Contractor of any action taken.

11.0 Insurance:

- (a) The Contractor shall maintain such insurance, or pay such assessments, as will protect them and the Municipality from all claims:
- (i) under the Workers Compensation Act;
 - (ii) minimum of \$5 million for damages for personal injury including death; and
 - (iii) minimum of \$2 million for property damage;
- which may arise as a consequence of Contractor performance or non-performance of obligations under this Agreement;
- (b) Such Policy shall name the Municipality as an additional insured thereunder and shall contain:
- (a) The insurer's waiver of any rights of subrogation or indemnity or any other claim to which the insurer might otherwise be entitled as against the Municipality and any other corporation owned, operated, or controlled by or affiliated with the Municipality, together with a severability of interest clause and a cross liability clause; and
 - (b) An undertaking by the insurer not to cancel, change, lapse or refuse to renew the insurance therein granted without first giving the parties notice of its intentions in writing of at least 60 days prior to the intended change, lapse, cancellation or termination.
- (c) Certificates of such insurance shall be furnished to the Municipality on an annual basis and shall be subject to its approval as to the adequacy of protection. Such

insurance shall be maintained until the Municipality certifies that performance of this Agreement is complete.

12.0 Permits, Licenses:

The Contractor, its agents and assigns shall obtain, pay for and maintain all permits and licenses, whether of a permanent or temporary nature, necessary for it to carry out its obligations hereunder and to operate and do business in any province, municipality or other jurisdiction in which the parties carry out any part of this Agreement.

13.0 Assignment or Sub-Contract:

It is agreed that this Agreement and the rights and obligations of the Contractor may not be assigned or subcontracted without the express written consent of the parties, which consent will not be unreasonably withheld.

14.0 Change of Law

“Change of Law” means the coming into effect after the date of this Agreement changes to the Ontario Waste Diversion Act; Ontario Regulation 273/02; Ontario Regulation 101/94; the Blue Box Program Plan; or any applicable judgment of a relevant court of law which changes the interpretation of these statutes and is a binding precedent affecting the obligations of the Municipality to collect, transport, process or otherwise manage residential Blue Box materials.

If the obligations of the Municipality change as a result of a Change of Law, the Municipality may give notice of termination and the contractor shall not be entitled to any compensation following the termination date notwithstanding any time remaining on the original term of the agreement or any extensions thereon agreed to by the parties.

If a Change of Law occurs, the Municipality and the Contractor are obliged to take reasonable steps to mitigate the adverse impact of such Change of Law upon the Agreement.”

15.0 Liens:

The Contractor undertakes and agrees to take all necessary and proper steps to ensure that no claims for liens will be filed against the property of the Municipality. If, notwithstanding the foregoing undertaking, any claim for a lien shall be filed, and so often as the same shall happen, the Contractor agrees that they will, at their own expense, within ten (10) days of the Contractor receiving notice of the filing thereof, cause the same to be canceled and removed. The Contractor further agrees to indemnify the Municipality against all loss, costs, charges and expenses occasioned by, resulting from or in any way arising out of such claims.

16.0 Arbitration or Mediation:

All matters in dispute under this Agreement that are not resolved in a timely fashion shall be referred to mediation, or failing resolution at mediation, to arbitration by a single arbitrator, if the parties agree upon one, otherwise to an arbitrator appointed by the Superior Court of Justice of Ontario, pursuant to the Arbitration Act of Ontario.

17.0 Termination:

This agreement may be terminated by the Contractor or the Municipality on six (6) months notice.

18.0 Default:

In the event that the Contractor is in default of its obligation under this agreement, the Municipality may correct the default and charge the reasonable cost to the Contractor.

In the event that either party is in default of its obligations hereunder, and such default continues after thirty (30) days written notice, or in the event that either party becomes insolvent or bankrupt, then the other party may forthwith terminate this Agreement.

19.0 Performance Bond or Letter of Credit:

For the first year term of the this processing agreement, the Contractor shall supply the Municipality with an irrevocable letter of credit or other performance bond in the amount of \$25,000. It is understood by both the Municipality and the Contractor the

requirement to maintain a letter credit for the full term of the agreement will be re-evaluated by the Municipality in July of 2016 with the understanding that if may not be required for the remainder of the term of the agreement.

20.0 Notice:

Any notice, direction or other instrument required or permitted to be given to the Contractor hereunder shall be in writing and may be given by mailing same, postage pre-paid, or delivering same to the Contractor at 1029 Henry Ave Winnipeg MB R3E 1V6. Any notice, direction or other instrument required or permitted to be given to the Municipality hereunder shall be in writing and may be given by mailing same, postage pre-paid, or delivering same to the Municipality at Attention Clerk, 320 Portage Avenue, Fort Frances, Ontario P9A 3P9.

21.0 Force Majeure:

If either party shall be prevented from performing any of its obligations hereunder, except for any obligations to pay money, by reason of fires, power shortages, strikes, walk-outs, inability to obtain suitable machinery, labour or supplies, wars, riots, including but not limited to Change of Law as described in Section 14.0, acts of any surface rights' owner, any groups asserting aboriginal rights or any environmental agencies or pressure groups, litigation, legislative enactments, Orders-in-Council by any legislative or regulative authority (provincial or federal), orders or by-laws by any municipal authority (not including the Contractor) having proper jurisdiction or any other cause or causes (whether or not of the same class or kind as those enumerated above) beyond the reasonable control of such Party, except lack of finances, then in every such event, any such failure or on the part of such Party to so perform shall not be deemed a breach of this Agreement and the time within which that Party is obligated to perform such obligations shall be extended by the total period that is so prevented, or in case of permanent prevention the agreement will

be terminated.

22.0 Contractor to Assume Custody of Agreed Solid Waste:

The Contractor shall assume custody and control of the Agreed Recyclable material once it arrives at the MRF.

23.0 Waiver:

No provision of this Agreement will be deemed to be waived, and no breach excused, unless such waiver or consent excusing the breach is in writing and signed by the party to be charged with such waiver or consent. A waiver of any provision of this Agreement or of any breach of any provision is not deemed or construed to be a waiver of any provision of this Agreement or of any other breach, whether of the same or of any other provision, nor shall any delay or omission on the part of any party to this Agreement to exercise or avail itself of any right it has or may have under this Agreement, operate as a waiver or any such breach or right, nor will any waiver or failure to enforce any of the provisions of this Agreement in any way affect the validity of the Agreement of any part of it.

24.0 Time Of The Essence:

Time shall be of the essence hereof.

25.0 Schedules

Schedules to this agreement may be added by the parties from time to time as required.

26.0 Entire Agreement:

This Agreement supersedes all prior negotiations and agreements including, without limitation, any previous agreement, with respect to the processing of Recyclable material and contains the entire understanding between the Parties.

27.0 Governing Law, Currency Headings and Interpretations

- (a) This Agreement shall be construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein;
- (b) All sums of money referred to herein are expressed in Canadian currency;
- (c) Headings appearing in this Agreement are for general information and reference only and this Agreement shall not be construed by reference to such headings;
- (d) Materials or work described in words which, so applied, have a well known technical or trade meaning shall be held to refer to such recognized standards;

In interpreting this Agreement, where the context so requires, the singular shall include the plural and the masculine and the feminine shall include the neuter and vice-versa.

In Witness Whereof the Contractor and the Municipality have signed this Agreement by their duly authorized officers as of the day and year first above mentioned.

Halton Recycling Ltd. dba Emterra Environmental

Per: _____ Date: _____

I have the authority to bind the Corporation

Per: _____ Date: _____

I have the authority to bind the Corporation

The Corporation of the Town of Fort Frances

Per: _____ Date: _____

I have the authority to bind the Corporation

Per: _____ Date: _____

I have the authority to bind the Corporation

Schedule 1 - Statutory Holidays

New Years Day	January 1 st
Family Day (Ontario)	3 rd Monday in February
Good Friday	varies
Victoria Day	Monday before May 25 th
Canada Day	July 1 st
Civic Holiday (Ontario)	First Monday in August
Labour Day	First Monday in September
Thanksgiving	2 nd Monday in October
Remembrance Day	November 11 th
Christmas day	December 25 th
Boxing Day (Ontario)	December 26 th
½ day December 24 th	Open 7:30 am to 11:30 am PW office closed at 11:30
½ day December 31 th	Open 7:30 am to 11:30 am PW office closed at 11:30

Schedule 2 - Acceptable Materials Under This Agreement

Emterra's Winnipeg Single Stream MRF can process the full spectrum of packaging and printed paper, including:

1. OCC
2. ONP
3. Flyers, writing paper, envelopes, magazines, junk mail, clean pizza boxes
4. Boxboard
5. Rigid food and beverage plastic #1-7 containers including clam shells
6. Aseptic and polycoated food and beverage containers
7. Aluminum food and beverage containers
8. Tin food and beverage containers
9. Glass bottles and jars

The following materials are **not acceptable** (Residual Materials) at this facility:

1. Laminated paper cups
2. expanded polystyrene
3. Film plastic
4. Aluminum foil, foil pie plates, foil food containers
5. Mirrors, window glass, broken glass
6. Light bulbs, drinking glasses, ceramics, cookware
7. Styrofoam packing & trays
8. Non-paper gift wrap eg – foil gift wrap
9. Cardboard boxes with wax coating
10. Paper towels, napkins or tissues
11. Used Motor oil containers & batteries
12. Bioplastic or compostable plastic
13. Liquid- absorbing pads e.g. in trays of meats, poultry, fish etc..
14. Plastic wrap and shrink wrap for meat, poultry, fish or cheese

15. Plastics that are not containers e.g. toys, laundry baskets, plastic cutlery
16. Ceramic plant pots
17. Plastic blister packs e.g. plastic/paper packing for batteries, toothbrushes, etc.. or plastic/foil protective packing for chewing gums and pills

Additional materials may be added for inclusion or exclusion from time to time during the term of this contract with the consent of both parties, in writing, following negotiated changes to prices and other contract terms as may be applicable.

Schedule 3 – Original Offer from Emterra

March 17, 2014

Attention: Mike Birett, Director, and Alec Scott, Program Manager
WDO Continuous Improvement Fund
92 Caplan Avenue
Barrie, ON L4N 0Z7

Dear Mr. Birett,

Subject: Proposal for Northwest Ontario Recycling System Optimization

Firstly, thank you for the opportunity to provide environmentally and economically sustainable recycling system optimization solutions to communities in northwest Ontario.

As requested, Emterra Environmental hereby provides its proposal for the provision of the following services:

1. Hauling of Compactor of Recyclables to Emterra Winnipeg MRF
2. Processing and Marketing of Recyclables
 - a. With 50-50 revenue share
 - b. Without revenue share

The following section outlines the aforementioned services in further detail.

1. Hauling of Compactor of Recyclables to Emterra Winnipeg MRF

Location	Quote	Notes/Assumptions
Fort Frances, Town of	\$1,750	Hauling of 2 compactors/bins from this location on each haul
Rainy River First Nations	\$972	Hauling of 1 compactor/bin from this location on each haul
Rainy River, Town of	\$1,110	Hauling of 1 compactor/bin from this location on each haul
Sioux Narrows	\$750	Hauling of 1 compactor/bin from this location on each haul
Nestor Falls, Township of	\$900	Hauling of 1 compactor/bin from this location on each haul

Given the distance between the aforementioned communities to the Winnipeg Single Stream MRF and the expected tonnages to be generated, it is recommended that the Rainy River First Nations and Town of Rainy River depots are serviced on the same day and likewise for the depots at Sioux Narrows and the Township of Nestor Falls on another day.

Emterra will be adding a new Compressed Natural Gas (CNG) Roll-Off Truck to the Winnipeg fleet, which will be used to service the northwest Ontario municipalities, along with the current Roll-Off Truck fleet.

a. Annual Price Adjustment

The unit prices outlined above for the hauling of recyclables will be adjusted on the anniversary date of the Contract of each subsequent year based on the percentage increase in the unit prices for the Contract year, based on 50% of the percentage change in Index A, plus 20% change in Index B, plus 15% change in Index C.

Indices A, B, and C are as follows:

- i. Index A – All-Items Consumer Price Index for the City of Winnipeg (Statistics Canada Reference Table 326-0020)
- ii. Index B – NYMEX Henry Hub
- iii. Index C – Average hourly earnings – employees paid by the hour in Truck Transportation for the Province of Manitoba (Statistics Canada Reference Table 281-0029)

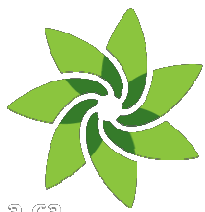
Indices A, B, and C will be those prepared by Statistics Canada and NYMEX where applicable. As some of the indices are not available from Statistics Canada and NYMEX until sometime after the adjustment date, the amount of adjustment will be retroactive to the adjustment date.

Pursuant to the annual inflationary and fuel adjustments, if any one of the indices has a negative value, there shall be a zero adjustment for that particular index.

2. Processing and Marketing of Recyclables

Emterra's Winnipeg Bollegraaf/Van Dyk Single Stream MRF was upgraded in late 2012 with the latest and most advanced mix of optical and mechanical technology from Bollegraaf and TITECH. The enhancements to the MRF during this upgrade include:

- ▢ A new dedicated tip floor building to allow faster in and out times of all trucks delivering recyclables;
- ▢ Doubling of the processing capacity (i.e. 100,000 MT a year);
- ▢ Installation of a Bollegraaf drum feeder to provide a consistent flow of material to the in-feed belts;
- ▢ Upgrading of star screens for improved material separation;
- ▢ Retrofit of magnet to enhance capture of ferrous;
- ▢ Installation of a new eddy current machine located before the TITECH optical sorters to recover aluminum before it enters the TITECHs;
 - Aluminum reflection signature read by the NIR is very similar to paper, which can lead to contamination and lost aluminum; new TITECH position enhances aluminum and plastic containers recovery and purity of recovered products.
- ▢ Installation of two new TITECH NIR optical sorters for the recovery of PET containers and better separation of fibres from container stream;
- ▢ Installation of a second eddy current machine for enhanced aluminum recovery.



With these upgrades, Emterra's Winnipeg Single Stream MRF can process the full spectrum of packaging and printed paper, including:

1. OCC
2. ONP
3. Flyers, writing paper, envelopes, magazines, junk mail, clean pizza boxes
4. Boxboard
5. Rigid food and beverage plastic #1-7 containers
 - a. Including clam shells
6. Aseptic and polycoated food and beverage containers
7. Aluminum food and beverage containers
8. Tin food and beverage containers
9. Glass bottles and jars

The following materials are not acceptable at this facility:

1. Laminated paper cups
2. expanded polystyrene
3. Film plastic
4. Aluminum foil, foil pie plates, foil food containers
5. Mirrors, window glass, broken glass
6. Light bulbs, drinking glasses, ceramics, cookware

a. With 50-50 Revenue Share

Under this option, 50% of commodity revenues (net of transportation costs to end markets) would be shared with the municipality. Should the basket price of commodities fall below \$60 per tonne (net of transportation costs to end markets), revenue share would cease until it recovers to over \$60 per tonne (net of transportation costs to end markets).

Processing cost under a 50-50 revenue share model would be \$80 per metric tonne delivered FOB Emterra Winnipeg MRF.

Please note that included in the \$80 per metric tonne fee quoted above, the City of Winnipeg receives a host fee of \$10 per metric tonne from Emterra.

b. Without Revenue Share

Processing cost under a no revenue share model would be \$40 per metric tonne delivered FOB Emterra Winnipeg MRF.

Please note that included in the \$40 per metric tonne fee quoted above, the City of Winnipeg receives a host fee of \$10 per metric tonne from Emterra.

c. CPI Adjustment

On an annual basis, one full year after the commencement of the Contract, the above prices for recyclables processing and marketing shall be adjusted, on the anniversary date of the commencement of the Contract, and for each subsequent year of the Contract, to account for increases in the cost of living and fuel. The Consumer Price Index price adjustment shall apply to the quoted prices, multiplied by the average percent change in the Consumer Price Index, City of Winnipeg All Items with Energy as published by Statistics Canada for the most recent 12 calendar months:

$$\text{CPI Adjustment} = \text{current price} \times \% \text{ change of average CPI over previous year}$$

$$\% \text{ change} = (\text{Average CPI Current Year} - \text{Average CPI Previous Year}) / \text{Average CPI Previous Year}$$

The CPI Price Adjustment amount will be added to the current prices.

As some of indices are not available from Statistics Canada until sometime after the adjustment date, the amount of adjustment will be retroactive to the adjustment date.

Pursuant to the annual inflationary and fuel adjustments, if any one of the indices has a negative value, there shall be a zero adjustment for that particular index.

Term of Agreement

This proposal is based on a five year term with two one year extensions at the mutual agreement of both parties. Requests for extension are to be made by either party at least 60 days prior to the end date of the contract in year five.

In closing, we would like to thank the CIF for this opportunity to provide services that enhance waste resource recovery in northwest Ontario communities. Should you have any questions, I would be available at your convenience for a meeting or conference call. I look forward to creating a viable and successful public-private partnership with CIF and the communities.

Yours truly,
Halton Recycling Ltd. dba Emterra Environmental



Paulina Leung
Vice President of Corporate Strategy and Business Development

C.C. Alec Scott, Continuous Improvement Fund
Rick Denyes, Continuous Improvement Fund

Schedule 4 – Normal WDO Material Categories

Material ID	Material Description
71	ONP #8
72	ONP #6
73	Household Fine Paper
75	Old Magazines/Catalogues (OMG)
76	Old Corrugated Containers (OCC)
77	Old Boxboard (OBB)
78	OCC/OBB Mix (Hardpack)
82	Polycoat Containers
83	Mixed Papers
84	Aluminum (Cans, Containers, Foil)
85	Steel (Cans, Containers)
87	Flint/Clear
88	Coloured
89	Mixed Glass
101	Plastic Film (#2, #4)
102	Tubs & Lids (#2, #4, & #5)
104	Mixed Plastics
106	Fibre, Glass, Aluminum, Steel, Plastic
107	Fibre, Aluminum, Steel, Plastic
109	Aluminum, Steel, Plastic
110	Glass, Aluminum, Steel, Plastic
271	Wine/Spirits Containers Returned for Deposit
274	PET Bottles (#1)
276	HDPE Containers - Clear(#2)
278	Polystyrene Foam(#6)
347	Other Bottles (#3, #5, #7)

August 26, 2015

Report To: Mayor & Council

From: Doug Brown, Manager Operations & Facilities

SUBJECT: Airport Facility – Private Hangar-Renewal of Hangar Lot Lease Rate with the following; Mr. Hank Didler/Mr. Gary Kontz for a Five (5) Year Term Commencing on April 1st, 2015, Mr. Patrick Langevin for a Five (5) Year Term Commencing on July 1st, 2015, Mr. Brian Church for a Five (5) Year Term Commencing on July 1st, 2015,

Please find attached the report prepared by Tom Batiuk, Airport Supervisor, outlining the renewal of a private hangar lot lease with the following parties;

- 1) Mr. Hank Didler/Mr. Gary Kontz - The existing 2015 rate for land lease for private hangar is \$1.74 per square meter plus HST. The hangar lot is 750 square meters in size. April 1st, 2015 to March 31, 2020. Initial start date: April 1st, 1999.
- 2) Mr. Patrick Langevin - The existing 2015 rate for land lease for private hangar is \$1.74 per square meter plus HST. The hangar lot is 300 square meters in size. July 1st to June 30, 2020. Initial start date: July 1st, 2005
- 3) Mr. Brian Church - The existing 2015 rate for land lease for private hangar is \$1.74 per square meter plus HST. The hangar lot is 180 square meters in size. July 1st to June 30, 2020. Initial start date: July 1st, 2010

The hangar lot lease agreement is for a 25-year term with the lease rate to be renegotiated every five (5) years.

It is recommended by the Operations & Facilities Executive Committee;

- 1) That Council renew the hangar lot lease rate with Mr. Hank Didler/Mr. Gary Kontz at \$1.74 per square meter for the next five (5) years commencing on April 1st, 2015 to March 31, 2020 and that the Mayor and Clerk be authorized to execute the updated lease rate agreement on behalf of the Corporation.
- 2) That Council renew the hangar lot lease rate with Mr. Patrick Langevin at \$1.74 per square meter for the next five (5) years commencing on July 1st, 2015 to June 30, 2020 and that the Mayor and Clerk be authorized to execute the updated lease rate agreement on behalf of the Corporation.
- 3) That Council renew the hangar lot lease rate with Mr. Brian Church at \$1.74 per square meter for the next five (5) years commencing on July 1st, 2015 to June 30,

2020 and that the Mayor and Clerk be authorized to execute the updated lease rate agreement on behalf of the Corporation.

Respectfully submitted,
Operations & Facilities Division



Doug Brown, P. Eng.
Manager Operations & Facilities

Council approval of this report will ensure that Council

- 1) That Council renew the hangar lot lease rate with Mr. Hank Didler/Mr. Gary Kontz at \$1.74 per square meter for the next five (5) years commencing on April 1st, 2015 to March 31, 2020 and that the Mayor and Clerk be authorized to execute the updated lease rate agreement on behalf of the Corporation.
- 2) That Council renew the hanger lot lease rate with Mr. Patrick Langevin at \$1.74 per Square meter for the next five (5) years commencing on July 1st, 2015 to June 30, 2020 and that Mayor and Clerk be authorized to execute the updated lease rate agreement on behalf of the Corporation.
- 3) That Council renew the hanger lot lease rate with Mr. Brian Church at \$1.74 per square meter for the next five (5) years commencing on July 1st, 2015 to June 30, 2020 and that Mayor and Clerk be authorized to execute the updated lease rate agreement on behalf of the Corporation.

2015AprilHangarLeaseEdTetu.doc

2015-08-15

To: Doug Brown

From: Tom Batiuk

Re: Lease renewal for Didier/Kontz, Patrick Langevin, Brian Church

Please find attached the lease renewal agreement for Didier/Kontz, Patrick Langevin, Brian Church. Didier/Kontz lease is effective from April 1, 2015 to March 31st, 2020. Patrick Langevin lease is effective from July 1st 2015 to June 30th 2020. Brian Church lease is effective from July 1st 2015 to June 30th 2020. Please forward these leases to Town Council for their approval at the next regular meeting.

Kind Regards,

Tom Batiuk
Airport Supervisor

August 7, 2015

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

SUBJECT: June 2015 Drinking Water Systems Monthly Summary Report

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

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

Respectfully submitted,
Operations & Facilities Division



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

<p>Council approval of this report will accept the June 2015 Drinking Water Systems Monthly Summary Report and approve the report prior to it being made available to the general public.</p>
--

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

03CouncilwaterreportMarch 2015

June, 2015

**Monthly Summary Report
Water Systems**

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

Dated: August 5, 2015

1) **Introduction -**

This report contains the major maintenance activities and operational events that occurred during the month of June 2015 at the Water Treatment Plant - Water Works # 220000978 and the Airport Groundwater Well Water Works # 26002736. This information report has been prepared for Council to better understand how the water systems they own and operate are maintained on a monthly basis. Also, this report will assist Council as Directors of the Corporation in exercising its obligation to meet a reasonable Standard of Care as outlined in Section 19 of the Safe Drinking Water Act.

2) **Flow Data**

Water Treatment Plant: See attached spreadsheet. No flow data for Airport groundwater well.

3) **Microbiological (Health Related) Water Analysis– Main Water System # 220000978**

Water Treatment Plant (treated): 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.

4) **Microbiological (Health Related) Water Analysis– Airport Groundwater Well # 26002736**

No samples taken.

The Airport has signs posted in the men's and women's washroom stating that the water has not been tested or treated for drinking purpose in accordance with the Health Protection and Promotion Act – Section 7 of the Small Drinking Water Systems Regulation, O. Reg. 318/08 (*Amended to Safe Drinking Water Act, 2002 - Section 6 of Ontario Regulation 252/05*). The operators do a visual inspection of the warning notices at a minimum of once per week to ensure that they are legible and comply with Ontario Regulation 318/08, Section 7(5).

5) Free Available Chlorine Residual (FAC) – Main Water System – # 220000978

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

6) Free Available Chlorine residual (FAC) – Airport Groundwater Well System # 26002736

Signs posted, exempt from testing.

7) Maintenance Activities at the WTP

- June 4th - cleaned all 4 check valves on the poly unit
 - cleaned top and bottom tanks on the poly unit
- June 9th - cleaned plant and started painting floors and piping
- June 16th - calibrated the distribution chlorine analyzer.
 - took grab samples off the filters.
 - Honeywell and Lakeside working on High Lift VFD motors (Pumps No. 1 & 4)
- June 19th - repaired the blowdown valve on Clarifier No. 2.
- June 22nd - continued painting of pipes in the plant.
- June 23rd - calibrated distributor chlorine analyzer
 - took grab samples from all 4 filters
 - continued painting of pipes in the plant.
- June 25th - cleaned all 4 check valves on the poly unit
 - cleaned top and bottom tanks on the poly unit
- June 30th - changed west chlorine tank.

8) Water Complaints –

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

9) **Other Miscellaneous Information:**

- June 01st - took weekly routine micro samples.
 - valve replacement (VAL102) - water samples - First St. W. at Morrison Cres. (W. Side) - 1st set.
- June 02nd - valve replacement (VAL102) - water samples - First St. W. at Morrison Cresc. (W. Side) - 2nd set.
- June 03rd - temporary water line (Bay City) - Lillie Avenue - 2nd set.
 - temporary water line (Bay City) - York Avenue - 2nd set.
- June 08th - took weekly routine micro samples.
 - watermain isolation valve replacements - Third St. West/King's Hwy. (Bay City) - water samples - 1st set.
- June 09th - watermain isolation valve replacements - Third St. West/King's Hwy. (Bay City) - water samples - 2nd set
- June 10th - seasonal water turn on (water fountain) - Lions Park - 1st set.
- June 11th - seasonal water turn on (water fountain) - Lions Park – 2nd set.
- June 15th - took weekly routine micro samples.
- June 17th - received a shipment of Fluoride
- June 19th - received a load of Liquid Alum
- June 22nd - took weekly routine mico samples.
- June 29th - 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:

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

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

Monthly Report June 2015

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

Operating Data	Units	*MAC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total	Average
		or Range																																
Flow rates																																		
Raw Water	10^3 M^3	17	5.67	5.64	5.63	5.56	5.72	5.49	5.67	5.77	5.64	5.61	5.65	5.63	5.95	5.65	5.53	5.63	5.54	5.60	5.61	5.56	5.74	5.27	5.44	5.40	5.60	5.57	5.75	5.44	5.58	5.57	168.11	5.60
Peak Instantaneous - Raw Water	L/s	n/a	67.16	67.30	67.26	65.79	66.71	66.06	66.00	66.19	66.07	65.80	65.71	65.67	65.58	65.57	65.80	65.64	65.70	65.31	64.81	64.90	64.96	64.84	64.56	63.55	65.56	64.98	65.03	64.81	64.91	65.58	1967.81	65.59
Treated Water	10^3 M^3	17	3.84	3.65	3.55	3.80	3.96	3.61	3.67	3.86	3.39	3.71	3.92	4.04	4.33	4.26	3.90	4.15	4.09	4.56	4.14	3.88	3.56	3.76	3.74	3.77	3.86	3.92	4.19	3.59	3.87	3.86	116.43	3.88
Peak Instantaneous - Treated Water	L/s	n/a	80.57	82.05	80.56	85.24	81.25	84.53	82.50	83.19	82.38	84.60	82.73	82.57	95.64	83.23	83.64	95.14	98.46	75.70	75.42	73.49	72.85	73.14	72.74	73.56	75.36	68.49	80.19	80.85	83.49	81.59	2435.15	81.17
BackWash Water	10^3 M^3	n/a	0.236	0.216	0.218	0.233	0.214	0.216	0.232	0.216	0.220	0.240	0.220	0.220	0.240	0.220	0.220	0.237	0.222	0.218	0.238	0.216	0.146	0.237	0.219	0.218	0.237	0.215	0.219	0.238	0.214	0.220	6.655	0.222
Fluoride Information																																		
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.65	0.66	0.69	0.67	0.69	0.68	0.65	0.67	0.58	0.63	0.50	0.61	0.59	0.48	0.61	0.65	0.59	0.59	0.62	0.63	0.54	0.54	0.59	0.59	0.55	0.58	0.59	0.57	0.50	0.52	18.01	0.60
Turbidity Information																																		
Raw Water	NTU	n/a	1.52	1.63	1.67	1.75	1.86	1.76	1.56	1.57	1.13	1.07	0.98	1.03	1.12	1.16	1.30	1.48	1.39	1.50	1.47	1.35	1.37	1.49	1.47	1.35	1.56	1.47	0.49	0.53	1.14	1.43	40.60	1.35
Settled Water	NTU	n/a	0.12	0.12	0.11	0.12	0.11	0.11	0.08	0.10	0.10	0.02	0.05	0.08	0.05	0.26	0.14	0.11	0.08	0.04	0.04	0.06	0.10	0.07	0.03	0.04	0.05	0.20	0.15	0.12	0.06	0.04	2.76	0.09
Treated Water	NTU	1	0.06	0.07	0.05	0.08	0.06	0.05	0.04	0.04	0.07	0.01	0.01	0.04	0.03	0.01	0.01	0.03	0.03	0.02	0.01	0.04	0.06	0.02	0.01	0.03	0.02	0.11	0.01	0.08	0.02	0.02	1.14	0.04
Other Operating Parameters																																		
pH - Treated Water	no units	6.5 to 8.5	7.10	7.16	7.22	7.15	7.19	7.32	7.42	7.31	7.27	7.31	7.45	7.23	7.27	7.33	7.38	7.43	7.35	7.26	7.39	7.21	7.19	7.24	7.35	7.30	7.29	7.26	7.21	7.17	7.29	7.24	218.29	7.28
pH - Settled water	no units	n/a	6.39	6.42	6.44	6.47	6.41	6.46	5.99	6.04	6.02	6.06	6.11	5.97	5.95	5.98	5.91	6.17	6.06	6.11	6.14	6.27	6.22	6.08	6.04	6.08	6.05	6.13	6.17	6.21	6.12	6.17	184.64	6.15
pH - Raw Water	no units	n/a	7.01	6.97	6.94	6.99	6.97	7.04	7.26	7.17	7.20	7.18	7.31	7.25	7.25	7.03	7.04	7.11	7.18	7.23	7.09	7.15	7.10	7.22	7.24	7.16	7.27	7.30	7.20	7.17	7.27	7.36	214.66	7.16
FAC - Treated Water	mg/l	0.2 to 4	2.17	2.06	2.04	2.00	1.88	1.68	1.93	1.76	1.54	1.63	1.65	1.84	1.84	1.81	1.78	2.10	1.94	2.07	2.12	2.20	2.00	2.10	1.94	2.02	1.89	1.93	1.89	1.82	1.67	1.78	57.08	1.90
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.36	2.33	2.39	2.17	2.06	2.24	2.32	2.10	2.60	2.28	1.96	2.26	2.28	2.34	2.42	2.44	2.36	2.44	2.41	2.43	2.21	2.16	2.18	2.30	2.42	2.48	2.17	2.10	2.18	2.28	68.67	2.29
Temperature	C	15	14.0	14.0	14.0	14.0	15.0	16.00	16.0	17.0	16.0	15.0	15.0	17.0	17.0	17.0	17.0	15.0	16.0	17.0	17.0	18.0	18.0	18.0	17.0	17.0	18.0	19.0	19.0	19.0	19.0	21.0	502.0	16.7
Fluoride used (Total Daily Consumption)	kg	n/a	15.0	15.0	15.0	15.0	15.0	14.00	15.0	14.0	14.0	14.0	13.0	13.0	11.0	12.0	11.0	11.0	11.0	11.0	12.0	10.0	11.0	10.0	10.0	12.0	14.0	13.0	14.0	13.0	13.0	14.0	385.0	12.8
Chlorine used (Total Daily Consumption)	kg	n/a	24.0	23.0	24.0	23.0	25.00	24.0	26.0	26.0	25.0	25.0	23.0	26.0	26.0	27.0	26.0	26.0	26.0	26.0	27.0	26.0	27.0	25.0	25.0	25.0	27.0	26.0	28.0	26.0	25.0	26.0	764.0	25.4
Soda ash (Total Daily Consumption)	kg	n/a	198.5	197.4	197.1	194.6	200.2	192.2	198.5	202.0	197.4	196.4	197.8	197.1	208.3	197.8	193.6	197.1	193.9	196.0	196.4	194.6	200.9	184.5	190.4	189.0	196.0	195.0	201.3	190.4	195.3	195.0	5883.9	196.1
Soda Ash - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	1050.0	35.0
Alum residual - (Total Daily Consumption)	kg	n/a	198.5	197.4	197.1	194.6	200.2	192.2	198.5	202.0	197.4	196.4	197.8	197.1	208.3	197.8	193.6	197.1	193.9	196.0	196.4	194.6	200.9	184.5	190.4	189.0	196.0	195.0	201.3	190.4	195.3	195.0	5883.9	196.1
Alum residual - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	1050.0	35.0
Alum residual - Treated Water	mg/l	0.1	0.06	0.07	0.04	0.03	0.04	0.04	0.06	0.05	0.02	0.03	0.02	0.02	0.02	0.03	0.04	0.02	0.04	0.04	0.03	0.04	0.03	0.05	0.04	0.03	0.02	0.02	0.03	0.04	0.02	0.02	1.04	0.03
Poly bags added (25 kg bags)	kg			0.5							0.5							0.5		0.5							0.5					0.5	75.0	

Flow Data	JUNE	Units	2013		2014		2015	
			Day of the Month		Day of the Month		Day of the Month	
Total Raw Water		m ³		144280		161770		168110
Raw Maximum Day		m ³	Friday 26th	5590	Monday 02nd	6620	Saturday 13th	5950
Raw Minimum Day		m ³	Monday 10th	3970	Saturday 21st	4750	Monday 22nd	5270
Raw Average Daily Consumption		m ³		4810		5390		5600
Total Treated Water		m ³		119730		123240		116430
Treated Water Maximim Day Consumption		m ³	Friday 26th	5730	Tuesday 17th	6250	Thursday 18th	4560
Treated Water Minimim Day Consumption		m ³	Monday 10th	3230	Sunday 29th	3330	Tuesday 09th	3390
Treated Water Average Day Consumption		m ³		3990		4110		3880
Daily Average Per Household Consumption Rate		m ³		1.055		1.086		1.026
* Daily Average Per Person Consumption Rate		m ³		0.500		0.515		0.486
Monthly Averages - Operating Parameters WTP:								
FAC Residual - Treated Water		mg/L		1.72		1.68		1.90
Total Chlorine Residual - Treated Water		mg/L		2.03		1.97		2.29
Aluminum Sulphate - Raw Water		mg/L		34.0		34.8		35.0
Aluminum Sulphate - Treated Water Residual		mg/L		0.06		0.04		0.03
Fluoride - Treated Water		mg/L		0.57		0.62		0.60
Soda Ash - Raw Water		mg/L		34.0		34.8		35.0
PH - Adjusted		mg/L		7.17		7.18		7.28
Temperature		C		15.8		15.2		16.7
Quantity of Chemical Used:								
Aluminum Sulphate		kg		4905.5		5619.8		5883.9
Polyelectrolyte		kg		62.5		75.0		75.0
Chlorine Gas		kg		545.0		686.0		764.0
Soda Ash - Used for PH Adjustment		kg		4905.5		5633.6		5883.9
Fluoride		kg		327.0		406.0		385.0

* The Canadian Average is 450 Litres (0.45 m³) per day.

* Population is 7986

* Number of Households is 3783

August 7, 2015

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

SUBJECT: July 2015 Drinking Water Systems Monthly Summary Report

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

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

Respectfully submitted,
Operations & Facilities Division



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

<p>Council approval of this report will accept the July 2015 Drinking Water Systems Monthly Summary Report and approve the report prior to it being made available to the general public.</p>
--

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

03CouncilwaterreportMarch 2015

July, 2015

**Monthly Summary Report
Water Systems**

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

Dated: August 6, 2015

1) **Introduction -**

This report contains the major maintenance activities and operational events that occurred during the month of July 2015 at the Water Treatment Plant - Water Works # 220000978 and the Airport Groundwater Well Water Works # 26002736. This information report has been prepared for Council to better understand how the water systems they own and operate are maintained on a monthly basis. Also, this report will assist Council as Directors of the Corporation in exercising its obligation to meet a reasonable Standard of Care as outlined in Section 19 of the Safe Drinking Water Act.

2) **Flow Data**

Water Treatment Plant: See attached spreadsheet. No flow data for Airport groundwater well.

3) **Microbiological (Health Related) Water Analysis– Main Water System # 220000978**

Water Treatment Plant (treated): 4 samples taken no adverse results
Water Treatment Plant (raw): 4 samples taken no adverse results
Water Distribution System: 16 samples taken where 25% of samples were tested for heterotrophic plate count HPC no adverse results

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

4) **Microbiological (Health Related) Water Analysis– Airport Groundwater Well # 26002736**

No samples taken.

The Airport has signs posted in the men's and women's washroom stating that the water has not been tested or treated for drinking purpose in accordance with the Health Protection and Promotion Act – Section 7 of the Small Drinking Water Systems Regulation, O. Reg. 318/08 (*Amended to Safe Drinking Water Act, 2002 - Section 6 of Ontario Regulation 252/05*). The operators do a visual inspection of the warning notices at a minimum of once per week to ensure that they are legible and comply with Ontario Regulation 318/08, Section 7(5).

**5) Free Available Chlorine Residual (FAC) – Main Water System –
220000978**

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

**6) Free Available Chlorine residual (FAC) – Airport Groundwater Well
System # 26002736**

Signs posted, exempt from testing.

7) Maintenance Activities at the WTP

- July 02nd
 - cleaned all 4 check valves on the poly unit.
 - cleaned top and bottom tanks on the poly unit.
- July 07th
 - filled reservoir and tower prior to plant shutdown. Contractor wired in new generator transfer switch into main electrical panel.
 - took grab samples from filters.
 - calibrated distribution chlorine analyzer.
- July 14th
 - continued painting the upstairs floor in the plant.
- July 15th
 - continued painting of pipes in the plant.
 - Sunset Protection Systems completed the annual inspection of the fire alarm system and fire extinguishers.
 - High Lift No. 4 motor failed during start-up.
- July 19th
 - came in early to prepare for scheduled power outage - cancelled.
- July 23rd
 - cleaned all 4 check valves on the poly unit.
 - cleaned top and bottom tanks on the poly unit.
- July 28th
 - contractor tested the newly installed generator and transfer switch. Fort Frances Power Corporation, Town Representatives, Consultant on site during testing.
 - worked on chlorine distribution analyzer with assistance of Galbraith Electric.
- July 29th
 - worked on chlorine distribution analyzer with assistance of Galbraith Electric.
- July 30th
 - cleaned in-line mixer.
- July 31st
 - changed chlorine tanks.

8) **Water Complaints –**

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

9) **Other Miscellaneous Information:**

July 06th - took weekly routine micro samples.
- King's Hwy. reconstruction project - bacti water samples - temporary water service - 1st set.

July 07th - King's Hwy. reconstruction project - bacti water samples - temporary water service - 2nd set.

July 13th - took weekly routine micro samples.

July 15th - water main replacement/new water main on Third St. West/King's Hwy. (Bay City) - bacti water samples - 1st set.

July 16th - took micro samples at Sunny Cove water system.
- watermain replacement/new watermain on Third St. West/King's Hwy. (Bay City) - bacti water samples - 2nd set.

July 17th - QMS meeting.

July 20th - took weekly routine micro samples.

July 21st - King's Hwy. reconstruction project - bacti. water samples - temporary water service - 1st set.

July 22nd - King's Hwy. reconstruction project - bacti. water samples - temporary water service – 2nd set.

July 27th - took weekly routine micro samples.

July 29th - water main break repair - Sinclair St. (400 blk.) - bacti water samples - 1st set.

July 30th - water main break repair - Sinclair St. (400 blk.) - bacti water samples - 2nd set.
- watermain break repair - Fourth St. W. (100 blk.) - bacti water samples - 1st set.

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

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

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

Monthly Report July 2015

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

Operating Data	Units	*MAC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total	Average
		or Range																																	
Flow rates																																			
Raw Water	10^3 M^3	17	5.68	5.70	5.60	5.52	5.56	5.63	6.35	4.17	6.29	6.61	6.20	6.97	6.50	6.49	6.54	6.55	6.62	6.23	6.45	6.56	6.45	6.50	6.56	6.54	6.49	6.55	6.56	6.59	6.12	6.53	6.26	193.37	6.24
Peak Instantaneous - Raw Water	L/s	n/a	66.32	66.43	66.24	65.24	65.71	65.63	77.38	77.38	77.18	77.15	76.57	76.39	76.59	76.73	76.58	76.28	76.55	111.16	76.22	76.01	75.12	75.47	76.11	76.34	76.46	76.28	76.17	76.52	77.12	109.95	76.82	2376.10	76.65
Treated Water	10^3 M^3	17	4.07	4.04	4.00	4.76	4.01	3.94	4.22	3.47	5.21	4.24	5.39	5.44	3.63	4.05	4.38	4.18	4.89	3.96	3.97	3.73	3.89	3.83	4.64	4.71	3.92	4.38	5.12	5.53	4.14	4.11	4.99	134.84	4.35
Peak Instantaneous - Treated Water	L/s	n/a	84.81	82.74	85.35	91.20	86.09	82.37	84.54	84.54		85.82	85.47	88.27	86.35	81.39	83.62	89.70	81.34		86.89	81.03	82.19	81.40	81.77	83.26	86.60	83.08	84.74	83.35	88.90		76.82	2363.63	84.42
BackWash Water	10^3 M^3	n/a	0.219	0.242	0.221	0.239	0.218	0.219		0.242	0.228	0.215		0.232	0.249	0.219	0.258	0.244	0.215	0.256	0.240			0.707	0.216	0.259	0.235	0.216	0.257	0.234	0.726		0.240	7.046	0.271
Fluoride Information																																			
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.54	0.51	0.51	0.52	0.52	0.51	0.58	0.54	0.56	0.58	0.58	0.60	0.60	0.52	0.52	0.54	0.55	0.56	0.54	0.52	0.52	0.53	0.55	0.58	0.55	0.63	0.56	0.54	0.54	0.65	0.64	17.19	0.55
Turbidity Information																																			
Raw Water	NTU	n/a	1.52	1.09	1.24	1.12	0.82	1.49	1.49	1.94	1.20	1.43	1.36	1.46	0.99	1.05	0.87	0.78	0.81	0.89	0.80	1.55	1.67	1.23	1.05	1.05	1.22	1.10	0.85	1.05	1.41	1.52	1.38	37.43	1.21
Settled Water	NTU	n/a	0.05	0.49	0.05	0.24	0.07	0.65	0.08	0.25	0.08	0.09	0.07	0.08	0.30	0.05	0.11	0.07	0.11	0.12	0.12	0.26	0.08	0.08	0.26	0.13	0.18	0.21	0.16	0.16	0.11	0.47	0.33	5.51	0.18
Treated Water	NTU	1	0.01	0.02	0.01	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.01	0.01	0.04	0.02	0.05	0.07	0.06	0.03	0.01	0.04	0.03	0.01	0.05	0.04	0.05	0.06	0.04	0.05	0.06	1.08	0.03
Other Operating Parameters																																			
pH - Treated Water	no units	6.5 to 8.5	7.18	7.20	7.25	7.29	7.30	7.30	7.24	7.44	7.41	7.46	7.40	7.36	7.47	7.47	7.35	7.31	7.29	7.21	7.22	7.08	7.10	7.30	7.38	7.37	7.30	7.19	6.81	6.47	6.87	6.81	7.09	216.74	7.22
pH - Settled water	no units	n/a	6.20	6.04	6.09	6.50	6.15	6.09	6.17	6.17	6.14	6.11	6.09	6.12	6.15	6.08	6.17	6.07	6.04	6.14	6.15	6.11	6.16	6.11	6.20	6.13	6.04	6.15	6.13	6.13	6.04	5.91	5.96	189.74	6.12
pH - Raw Water	no units	n/a	7.20	7.30	7.03	7.18	7.19	7.18	6.99	7.21	7.12	7.15	7.10	7.14	7.26	7.25	6.95	7.00	7.19	7.10	7.15	6.90	6.99	7.18	7.23	6.96	6.90	6.90	6.91	6.94	6.96	6.97	7.03	219.56	7.08
FAC - Treated Water	mg/l	0.2 to 4	1.62	1.66	1.70	1.65	1.59	2.11	1.91	2.11	2.09	2.09	2.06	2.10	1.76	1.92	2.09	2.01	2.09	2.07	2.00	1.99	2.04	2.15	2.08	1.93	1.95	1.94	2.14	2.16	2.26	2.34	2.22	61.83	1.99
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.14	2.26	2.22	2.32	2.14	2.22	2.36	2.22	2.52	2.39	2.41	2.37	2.20	2.32	2.40	2.30	2.26	2.20	2.20	2.20	2.18	2.46	2.30	2.26	2.20	2.34	2.56	2.52	2.41	2.58	2.70	72.16	2.33
Temperature	C	15	21.0	21.0	18.0	20.0	21.0	21.0	20.0	21.0	22.0	24.0	25.0	22.0	21.0	21.0	21.0	22.0	22.0	22.0	22.0	22.0	22.0	21.0	23.0	21.0	21.0	23.0	23.0	23.0	21.0	21.0	669.0	21.6	
Fluoride used (Total Daily Consumption)	kg	n/a	19.0	19.0	18.0	18.0	18.0	18.0	20.0	11.0	17.0	17.0	15.0	17.0	16.0	16.0	15.0	17.0	20.0	18.0	18.0	19.0	17.0	18.0	22.0	21.0	21.0	22.0	21.0	21.0	21.0	21.0	572.0	18.5	
Chlorine used (Total Daily Consumption)	kg	n/a	23.0	27.0	25.0	26.0	26.0	26.0	32.0	21.0	30.0	32.0	30.0	34.0	32.0	31.0	33.0	32.0	32.0	30.0	31.0	32.0	32.0	32.0	32.0	32.0	31.0	32.0	32.0	32.0	30.0	32.0	31.0	933.0	30.1
Soda ash (Total Daily Consumption)	kg	n/a	198.8	199.5	196.0	193.2	194.6	197.1	222.3	146.0	220.2	231.4	217.0	244.0	227.5	227.2	228.9	229.3	231.7	218.1	225.8	229.6	225.8	227.5	229.6	228.9	227.2	229.3	229.6	230.7	214.2	228.6	219.1	6768.0	218.3
Soda Ash - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	1085.0	35.0	
Alum residual - (Total Daily Consumption)	kg	n/a	198.8	199.5	196.0	193.2	194.6	197.1	222.3	146.0	220.2	231.4	217.0	244.0	227.5	227.2	228.9	229.3	231.7	218.1	225.8	229.6	225.8	227.5	229.6	228.9	227.2	229.3	229.6	230.7	214.2	228.6	219.1	6768.0	218.3
Alum residual - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	1085.0	35.0	
Alum residual - Treated Water	mg/l	0.1	0.03	0.03	0.02	0.03	0.02	0.04	0.01	0.02	0.03	0.02	0.04	0.04	0.03	0.02	0.04	0.02	0.03	0.04	0.03	0.03	0.02	0.03	0.01	0.02	0.02	0.03	0.02	0.04	0.04	0.02	0.01	0.83	0.03
Poly bags added (25 kg bags)	kg									0.5						0.5		0.5												0.5		0.5		75.0	

Flow Data JULY	Units	2013		2014		2015	
		Day of the Month		Day of the Month		Day of the Month	
Total Raw Water	m ³		180670		168590		193370
Raw Maximum Day	m ³	Sunday 04th	7320	Friday 25th	6470	Sunday 12th	6970
Raw Minimum Day	m ³	Tuesday 27th	3790	Sunday 06th	4480	Wednesday 08th	4170
Raw Average Daily Consumption	m ³		5830		5440		6240
Total Treated Water	m ³		134850		129810		134840
Treated Water Maximim Day Consumption	m ³	Sunday 04th	5780	Thursday 31st	5540	Friday 31st	5530
Treated Water Minimim Day Consumption	m ³	Tuesday 27th	2360	Wednesday 02nd	3350	Thursday 02nd	3470
Treated Water Average Day Consumption	m ³		4350		4190		4350
Daily Average Per Household Consumption Rate	m ³		1.15		1.11		1.15
* Daily Average Per Person Consumption Rate	m ³		0.54		0.52		0.54
Monthly Averages - Operating Parameters WTP:							
FAC Residual - Treated Water	mg/L		1.83		1.83		1.99
Total Chlorine Residual - Treated Water	mg/L		2.12		2.16		2.33
Aluminum Sulphate - Raw Water	mg/L		34.0		36.0		35.0
Aluminum Sulphate - Treated Water Residual	mg/L		0.06		0.05		0.03
Fluoride - Treated Water	mg/L		0.61		0.59		0.55
Soda Ash - Raw Water	mg/L		34.0		36.0		35.0
PH - Adjusted	mg/L		7.12		7.15		7.22
Temperature	C		21.4		18.8		21.6
Quantity of Chemical Used:	kg						
Aluminum Sulphate	kg		6142.8		6069.2		6768.0
Polyelectrolyte	kg		75.0		75.0		75.0
Chlorine Gas	kg		800.0		797.0		933.0
Soda Ash - Used for PH Adjustment	kg		6142.8		6069.2		6069.2
Fluoride	kg		453.0		408.0		572.0

* The Canadian Average is 450 Litres (0.45 m³) per day.

* Population is 7986

* Number of Households is 3783

August 31, 2015

Report To: Mayor & Council

From: Operations & Facilities Executive Committee

SUBJECT: Township of Emo - Billing for Water taken from our Water Distribution System through a Fire Hydrant

As a result of operational concerns at the EMO's Water Treatment Plant during the week of August 17 to 21, 17 loads of potable water from our water distribution system was hauled to EMO's WTP facility by Asselin Transportation. The total amount of potable water removed from our water distribution system was 71,200 gallons or 323.68 cu. meters. Our present by-law rate is \$24.62 per cubic meter. Thus the total bill to Emo is calculated at \$7,978.59. The cost to haul the water was \$7,090.75. See attached copy of the Asselin Transportation invoice No. 84295.

Based on my discussion with CAO, Mark McCaig, I was directed to bring this issue to the O & F Executive Committee for discussion. Council might want to consider a discounted cubic meter water rate to assist a neighboring community in a time of need.

Thus in order to deviate from the by-law rate of \$24.62 per cubic meter of potable water, Council approval is required.

Respectfully submitted,



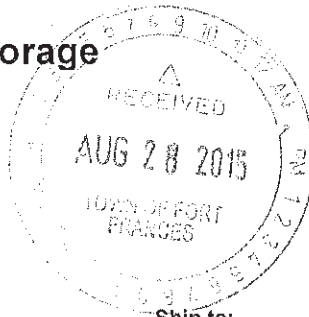
Doug Brown, P. Eng.
Operations & Facilities Manager

f/n: 2015AugustEmoWaterIssue

Asselin Transportation & Storage

PO Box 746
Fort Frances, Ontario P9A 3N1
Canada

6255



INVOICE

Invoice No.: 84295
Date: 08/24/2015
Ship Date:
Page: 1
Re: Order No.

Sold to:

Town of Fort Frances
Debbie ex246
320 Portage Avenue
Fort Frances, Ontario P9A 3P9

Ship to:

Town of Fort Frances
Fort Frances, Ontario

Business No.: 100295047RT0001

Item No.	Unit	Quantity	Description	Tax	Unit Price	Amount
ROLL	Each	15	**Water Haul to Emo Water Treatment Plant**	HS	400.00	6,000.00
ROLL	Each	1	16 Loads 71,200 Gallons	HS	275.00	275.00
			HS - HST of 13%			815.75
			HST			
			1 Imperial Gallon is 4.546 litres			
			$\frac{71,200 \times 4.546}{1000} = 323.675 \text{ m}^3$			
			$323.675 \text{ m}^3 \times \$24.62 =$			
			$\$7,978.59$			
Asselin Transportation & Storage HST: #Yes						
Shipped By: Tracking Number:						
Terms: Net 30. Due 09/23/2015.						
Comment: Thank you for your business.						
Sold By:						
Total Amount						7,090.75

2015 CAPITAL BUDGET as of August 25, 2015

O & F Division	G/L Code	TOTAL BUDGET	Budget as of July 31, 2015	Variance	Notes
TRANSPORTATION	Public Works Buildings/General Misc.				
1 Engineering and O&F Managers Office Upgrades	C-310-9127-1471	12,000	205	11,795	99% of the work is completed as of August 21,2015
2 Salt Shed Storage Building	C-310-9113-1523	528,278	290,200	238,078	Substantial Completion as of August 21, 2015 - outstanding is related to the Town - Landscaping around building, 2nd lift of asphalt and installation of Bollards
3 PW Garage Exterior Renovations & 7 Overhead Doors	C-310-9127-1523	150,000	205	149,795	Contract awarded to Ed Kaun & Sons on July 13, 2015- Presently working on new Dog Pound
4 Public Works Small Equipment	C-310-9105-1471	8,000	6,638	1,362	
		698,278	297,248	401,030	
Large Equipment & Vehicles					
5 Snowplow Truck - 1997 Replacement (2014 Carryover)	C-334-9244-1471	237,000	235,722	1,278	New Plow Truck on site as of January 29,2015
6 Street Sweeper (2001 Replacement)	C-334-9292-1471	325,000	776	324,224	Tender closes on June 29, 2015 Tender awarded to Joe Johnson on July 13, 2015 delivered around April 1st, 2016.
7 Sidewalk Machine c/w Blower Attachment	C-334-9230-1471	120,000	0	120,000	Milt preparing tender
		682,000	236,498	445,502	
Small Vehicles					
8 Replace V180 - 2002 Ford F250 3/4 Ton Truck c/w 4 Wheel Drive	C-333-9133-1471	40,000	0	40,000	Awarded Tender to MacDonald Motors on April 13,2015- Vehicle on site 2nd week of August
		40,000	0	40,000	
Roads					
9 Concrete Repairs Portage Ave/CNR East abutment Wall Phair Ave from 3rd - 5th Streets (200 meters Sanitary Main replacement)	C-313-9110-1523	150,000	5,454	144,546	90% of the work completed as of Tuesday August 18, 2016- asphalt patch still outstanding
Nelson Street from Butler Ave to Shevlin Wood yard (105 meters Sanitary Main replacement)	C-313-9271-1523	462,667	4,331	458,336	
	C-313-9272-1523	308,532	17,215	291,317	
Connecting Link				0	
Kings Hwy 11-71 Reconstruction from west of Wright Ave to east of York	C-316-9273-1523	2,059,755	184,340	1,875,415	Bay City on site as May 19, 2015 - 10 days on - 12 hours days
		2,980,954	211,341	2,769,614	
Sidewalks					
Phair Ave from 3rd - 5th Streets (200 meters Sanitary Main replacement)	C-320-9271-1523	98,163	6,047	92,116	
Nelson Street from Butler Ave to Shevlin wood yard	C-320-9272-1523	13,406	301	13,105	
Kings Hwy 11-71 Reconstruction from west of Wright Ave to east of York	C-320-9273-1523	51,556	4,018	47,538	
	C-320-9274-1523	65,000	0	65,000	
		228,125	10,366	217,758	
Streetlight Pole Replacement					
17 20 Poles Replaced along Waterfront	C-345-9135-1471	25,000	18,053	6,947	As of June 5 shipped new street light poles to International Falls, MN- New Poles installed by Friday July 3rd, 2015
		25,000	18,053	6,947	
TOTAL TRANSPORTATION		4,654,357	773,506	3,880,851	
PARKS & CEMETERIES					
Parks					
18 Small Equipment Replacement (Mowers & whipper snippers)	C-580-9105-1471	5,000	4,355	645	
19 60" wide Snow Plow attachment for Large JD Tractor	C-580-9174-1471	5,500	6,105	(605)	New blower delivered in July
20 Replace V411 - 1992 Chevy Truck (2-Wheel Drive)	C580-9133-1471	30,000	25,939	4,061	Awarded Tender to MacDonald Motors on April 13,2015 Truck delivered on July 22,2015.
Cemeteries				0	
21 Riding Lawn Mowers - Trade in existing two mowers	C-580-9157-1471	16,586	10,276	6,310	both mowers delivered on April 28, 2015
TOTAL PARKS & CEMETERIES		57,086	46,674	10,412	
AIRPORT					
22 Video Surveillance System	C-390-9105-0000	3,000	1,338	1,662	Surveillance Equipment Installed as of May 15
Front End Loader c/w Sweeper - ASCAP Funding (Dependent on Funding)	C-390-9257-1471	216,427	0	216,427	Tender closes on June 9, 2015 at 2:00 pm low tender with ACAP funding. Award to supplier on June 22, 2015 delivered sometime in October of 2015
24 Replacement Loader-Mounted Snow Blower	C-390-9293-1471	119,250	0	119,250	funding. Award to supplier on June 22, 2015 delivered sometime in October of 2015
TOTAL AIRPORT		338,677	1,338	337,339	
WASTE MANAGEMENT SYSTEM					
Transfer Station Upgrades - Installation of 2 Stationary Compactors (2014 Carryover)	C-351-9128-1471	218,275	43,541	174,734	delivered compaction equipment on July 22, 2015 still some deficiencies not fully operational as of August 25, 2015
		218,275	43,541	174,734	
ENVIRONMENT					
Sanitary Sewer - Collection System					
26 Sanitary Sewer Tools & Equipment	C-410-9105-1471	12,000	4,900	7,100	
27 Refurbishing Sanitary Manholes	C-410-9138-1523	162,400	72,837	89,563	Tom Veert completed work of July 3rd, 2015
28 Design for Infrastructure Renewal Project	C-410-9238-1523	37,500	0	37,500	
Kings Hwy 11-71 Reconstruction from west of Wright Ave to east of York	C-410-9273-1523	364,814	104,916	259,898	
Nelson Street from Butler Ave to Shevlin wood yard (105 meters Sanitary Main replacement)	C-410-9272-1523	157,442	15,735	141,707	
Phair Ave from 3rd - 5th Streets (200 meters Sanitary Main replacement)	C-410-9271-1523	220,607	42,327	178,280	
		954,763	240,716	714,048	
Sewage Treatment Plant					
32 Misc. Capital Upgrades	C-413-9108-1471	120,000	8,019	111,981	
Sludge Dewatering Equipment & Installation of Secondary Clarifier	C-413-9290-1523	800,000	44,082	755,918	New dewatering equipment ordered in June of 2015
33 Chains	C-413-9280-0000	50,406	0	50,406	
34 Honeywell Improvements at STP including Street lighting		970,406	52,102	918,304	
Water System					
Water Distribution System					
35 Miscellaneous Tools/Equipment	C-961-9105-1471	12,000	5,552	6,448	
36 Replacing Main Line Water Valves/Hydrants	C-961-9137-1523	211,300	68,044	143,256	Tom Veert completed work of July 3rd, 2015- One fire Hydrant outstanding as of August 25, 2015
37 Design for Infrastructure Renewal Project for 2016 construction work	C-961-9238-1523	37,500	0	37,500	
Kings Hwy 11-71 Reconstruction from west of Wright Ave to east of York	C-961-9273-1523	704,545	292,000	412,545	
Nelson Street from Butler Ave to Shevlin wood yard (105 meters Sanitary Main replacement)	C-961-9272-1523	126,778	6,690	120,088	
Phair Ave from 3rd - 5th Streets (200 meters Sanitary Main replacement)	C-961-9271-1523	203,145	30,747	172,398	
		1,295,268	403,033	892,235	
Water Treatment Plant					
41 Misc. Small Capital Equipment	C-965-9105-1471	60,000	3,502	56,498	
42 Back-up Generator	C-965-9260-1471	357,000	7,692	349,308	Generator installed and fully operational as July 24, 2015
		417,000	11,194	405,806	
TOTAL ENVIRONMENT		3,637,437	707,044	2,930,393	
PW		4,654,357	773,506	3,880,851	16.62%
Waste Management		218,275	43,541	174,734	19.95%
Airport		338,677	1,338	337,339	0.39%
Parks		57,086	46,674	10,412	81.76%
Water		1,712,268	414,227	1,298,041	24.19%
Sewer		1,925,169	292,817	1,632,352	15.21%
Total		8,905,832	1,572,103	7,333,729	17.65%



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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

July 10, 2015

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

Attention: Mr. Doug Herr
Environmental and Facilities Superintendent

Dear Doug:

Re: Fort Frances Wastewater Treatment Facility
June 2015 Monthly Report

As per the operating agreement, the attached document is the June 2015 monthly report for the Fort Frances Wastewater Treatment Facility.

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

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

Yours truly,

A handwritten signature in black ink, appearing to read "Kelly C.D.", written over a horizontal line.

Kelly Cunningham
Senior Operator

For Larry Wachter
Operations Manager

**The Corporation of the Town of Fort Frances
Wastewater Treatment Plant
(Sewage Plant)
June 2015 Monthly Operations Report**

INTRODUCTION

In accordance with the Agreement between the Ontario Clean Water Agency (Operating Authority) and the Town of Fort Frances, the Fort Frances Sewage Treatment Plant is required to prepare a monthly report. This document covers the reporting month of June 2015; the facility performance report summarizes important information regarding the quality of the effluent, wastewater, analytical test results, maintenance operations, and relevant activities of the WWTP.

DESCRIPTION OF WORKS

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

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

LABORATORY

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

JUNE 2015 EFFLUENT QUALITY

Parameters	Monthly Actual Concentration mg/L	Compliance Criteria Concentration mg/L	Performance Objective Concentration mg/L	Monthly Actual Loading, kg/d	Compliance Criteria Loading kg/d	Performance Objective Loading kg/d
CBOD ₅	2.7 mg/L	25 mg/L	15 mg/L	19.8 kg/d	225 kg/d	135 kg/d
Suspended Solids	4.2 mg/L	25 mg/L	15 mg/L	31.7 kg/d	225 kg/d	135 kg/d
Total Phosphorus	0.17 mg/L	1.0 mg/L	1.0 mg/L	1.3 kg/d	9 kg/d	9 kg/d
Ammonia as N	0.53 mg/L					
Nitrite as N	0.16 mg/L					
Nitrate as N	5.76 mg/L					
Total Cl ₂ Residual		<0.01 mg/L (when in use)				
E-Coli		8.3 count/100 ml (geometric mean)		200 count/100ml (geometric mean)		E-coli not to exceed 150 organisms/100ml (monthly geometric mean density)
pH				pH range 7.0 to 7.5; average pH was 7.3		
Temperature degrees C				Temperatures ranged from 10.0 – 13.5 average temperature of effluent at 11.9		

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

WASTEWATER LIQUID PROCESS

The average daily flow for June was 7292.4 m³/day. This represents 81% of the design average flow. Total treated flow for the month was 218773 m³.

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

INVENTORY

Chemical	End of Month Status	Units
Hypochlorite	870 +/- @ 7.0% + 615 @ 12%	Litres
Alum	11.0 +/- @ 60 %	Cubic meters
Polymer	28 Bags (700 kg)	Bags (25 kg/bag)

MAINTENANCE

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

Treatment Plant:

- Alternated lead/lag pumps
- Adjusted fluidizing water to head cell and grit snail as needed
- Greased GBT, mechanical bar screen and grit snail. Lubricated drive chain on grit snail and bar screen
- Regular cleaning of head works EW basket strainer
- Calibrated both automatic samplers
- Regular cleaning of seal water strainer TFP 9-5
- Installed new level sensor in secondary digester
- Cleaned head works inlet channel, Headcell inlet and Teacup
- Replaced belt on gravity belt thickener
- Replaced polymer mixer motor with spare
- Replaced faulty emergency light in lower basement

Pump Stations:

- Ran gensets
- Changed seal water strainers
- Cleaned bar screens
- The three stations on Couchiching First Nations are now communicating over radio signal
- Boundary Road and Church Street lift stations are sending data to the plant by radio signal
- Isolated, pulled and cleaned pumps 1 and 2 at Central Avenue lift station

OPERATIONAL ISSUES

The facility met all operational requirements for the month.

SLUDGE SUMMARY

The volume directed to the gravity belt thickener totaled 604.6 m³ for the month. Asselin Transportation and Storage Limited hauled a total of 217.4 m³ of thickened digested sludge (average 12.1m³/load) to the Town of Fort Frances landfill site.

COMPLAINTS

There were no complaints during the report period.

BY-PASS REPORT(S)

There were no bypass events in the report period.

COMMENTS

Plant power consumption for the month was 666 (x 180 multiplier) kWh.

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

All lift stations including those on Couchiching First Nation are communicating with the plant via radio signal.

Annual fire extinguisher and crane inspections were completed.

The street light bulbs were switched over to LED s.

REPORTS

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

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

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

Month	Sewage Flows Year 2015						Usage	Sludge	Removal Efficiency	
	Avg. Day Flow m3	Max Day Flow m3	Total Treated Volume ML	Total ByPass Volume ML	Total Volume ML	% Plant Capacity	Volume Hauled M3	CBOD5	Suspended Solids	Total Phosphorus
January	5205.2	5615	161362		161362	58%	133.6			
February	5008.5	5247	140237		140237	56%	163.2			
March	5608.6	6833	173865		173865	62%	244.8			
April	5628.8	5970	168865		168865	63%	239.8			
May	7834.5	15983	242869		242869	87%	240.3			
June	7292.4	10570	218773		218773	81%	217.4			
July						0%				
August						0%				
September						0%				
October						0%				
November						0%				
December						0%				
Sum				0	1105971		1239.1			
Average	6096		184329		184329	68%	206.5			
Max		15983	242869		242869					
C of A	9000	18000								

Month	CBOD5				Suspended Solids				Total Phosphorus				E. Coli		pH	
	Avg Raw CBOD (mg/L)	Avg. Eff. CBOD (mg/L)	Avg. Load CBOD (kg/day)	Avg Raw S.S. (mg/L)	Avg. Eff. S.S. (mg/L)	Avg. Load S.S. (kg/day)	Avg Raw I.P. (mg/L)	Avg. Eff. I.P. (mg/L)	Avg. Load I.P. (kg/day)	Geo Mean Counts /100ml	Monthly Minimum	Monthly Maximum				
January	84.5	2.6	13.6	151.9	6.0	31.0	2.5	0.23	1.18	17.8	6.8	7.6				
February	87.0	3.1	15.3	136.4	6.4	32.1	2.2	0.22	1.12	8.3	6.9	7.5				
March	62.8	3.5	19.6	127.6	8.0	45.1	1.9	0.23	1.29	14.8	6.8	7.5				
April	66.3	4.4	24.7	135.3	7.8	44.2	1.9	0.28	1.57	56.6	6.8	7.2				
May	48.5	3.6	34.9	109.6	5.4	43.4	1.4	0.18	1.40	20.1	6.8	7.3				
June	51.2	2.7	19.8	115.8	4.2	31.7	1.3	0.17	1.30	8.3	7.0	7.5				
July																
August																
September																
October																
November																
December																
Average	66.7	3.3	21.3	129.4	6.3	37.9	1.9	0.22	1.31	21.0	6.9	7.4				
Max	87	4.4	34.9	151.9	8	45.1	2.5	0.28	1.57	56.6	7	7.6				
C of A		25	225		25	225		1	9	200	6.0	9.5				



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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

August 11, 2015

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

Attention: Mr. Doug Herr
Environmental and Facilities Superintendent

Dear Doug:

Re: Fort Frances Wastewater Treatment Facility
July 2015 Monthly Report

As per the operating agreement, the attached document is the July 2015 monthly report for the Fort Frances Wastewater Treatment Facility.

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

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

Yours truly,

A handwritten signature in dark ink, appearing to read 'Kelly Cunningham'.

Kelly Cunningham
Senior Operator

For Larry Wachter
Operations Manager

**The Corporation of the Town of Fort Frances
Wastewater Treatment Plant
(Sewage Plant)
July 2015 Monthly Operations Report**

INTRODUCTION

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LABORATORY

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

JULY 2015 EFFLUENT QUALITY

<i>Parameters</i>	<i>Monthly Actual Concentration mg/L</i>	<i>Compliance Criteria Concentration mg/L</i>	<i>Performance Objective Concentration mg/L</i>	<i>Monthly Actual Loading, kg/d</i>	<i>Compliance Criteria Loading kg/d</i>	<i>Performance Objective Loading kg/d</i>
CBOD ₅	2.1 mg/L	25 mg/L	15 mg/L	12.4 kg/d	225 kg/d	135 kg/d
Suspended Solids	3.6 mg/L	25 mg/L	15 mg/L	20.6 kg/d	225 kg/d	135 kg/d
Total Phosphorus	0.22 mg/L	1.0 mg/L	1.0 mg/L	1.3 kg/d	9 kg/d	9 kg/d
Ammonia as N	0.32 mg/L					
Nitrite as N	0.15 mg/L					
Nitrate as N	6.94 mg/L					
Total Cl ₂ Residual		<0.01 mg/L (when in use)				
E-Coli		5.8 count/100 ml (geometric mean)		200 count/100ml (geometric mean)	E-coli not to exceed 150 organisms/100ml (monthly geometric mean density)	
pH			pH range 7.1 to 7.7; average pH was 7.5			
Temperature degrees C			Temperatures ranged from 13.5 – 16.5 average temperature of effluent at 15.1			

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

WASTEWATER LIQUID PROCESS

The average daily flow for July was 5805.5 m³/day. This represents 65% of the design average flow. Total treated flow for the month was 179969 m³.

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

INVENTORY

Chemical	End of Month Status	Units
Hypochlorite	1070 +/- @ 7.0% + 410 @ 12%	Litres
Alum	9.4 +/- @ 60 %	Cubic meters
Polymer	19 Bags (475 kg)	Bags (25 kg/bag)

MAINTENANCE

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

Treatment Plant:

- Alternated lead/lag pumps
- Adjusted fluidizing water to head cell and grit snail as needed
- Greased GBT, mechanical bar screen and grit snail. Lubricated drive chain on grit snail and bar screen
- Regular cleaning of head works EW basket strainer
- Replaced tubing on effluent automatic sampler
- Regular cleaning of seal water strainer TFP 9-5
- Cleaned polymer dilution water rotameter
- Greased clarifier drives
- Flushed digester level sensor
- Changed oil blowers 2, 3 and 4 and greased bearings
- Drained Head cell, Teacup and Snail to remove debris and hosed out snail
- Replaced belt and indicator light ASU 02
- Greased LRP 11-2 and checked gear box
- Timers, switches and relays were installed in a separate panel to run the polymer mixing system failed plc

Pump Stations:

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

OPERATIONAL ISSUES

The facility met all operational requirements for the month.

SLUDGE SUMMARY

The volume directed to the gravity belt thickener totaled 730.0 m³ for the month. Asselin Transportation and Storage Limited hauled a total of 242.8 m³ of thickened digested sludge (average 12.1m³/load) to the Town of Fort Frances landfill site.

COMPLAINTS

There were no complaints during the report period.

BY-PASS REPORT(S)

There were no bypass events in the report period.

COMMENTS

Plant power consumption for the month was 666 (x 180 multiplier) kWh.
A new automatic sampler has been ordered as the influent sampler failed.
Quarterly digested sludge sampling was completed.
The additional effluent testing necessary to meet the requirements of the Wastewater Systems Effluent Regulations is now a part of our regular sampling regimen. Rainbow trout lethality quarterly samples were sent and stellar results obtained.

REPORTS

ALS – Environmental Analytical Reports (on-file at plant)
Fort Frances WPCP Equipment Run Time Report (on-file at plant)
Bypass Report (on-file at plant as per occurrence)

Month	Sewage Flows Year 2015						Usage		Sludge		Removal Efficiency	
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May	7834.5	15983	242869		242869	87%	240.3					
June	7292.4	10570	218773		218773	81%	217.4					
July	5805.5	6247	179969		179969	65%	242.8					
August						0%						
September						0%						
October						0%						
November						0%						
December						0%						
Sum				0	1285940		1481.9					
Average	6055		183706		183706	67%	211.7					
Max		15983	242869		242869							
C of A	9000	18000										

Month	CBOD5				Suspended Solids				Total Phosphorus				E. Coli		pH	
	Avg Raw CBOD (mg/L)	Avg. Eff. CBOD (mg/L)	Avg. Load CBOD (kg/day)	Avg Raw S.S. (mg/L)	Avg. Eff. S.S. (mg/L)	Avg. Load S.S. (kg/day)	Avg Raw T.P. (mg/L)	Avg. Eff. T.P. (mg/L)	Avg. Load T.P. (kg/day)	Geo Mean Counts /100ml	Monthly Minimum	Monthly Maximum				
January	84.5	2.6	13.6	151.9	6.0	31.0	2.5	0.23	1.18	17.8	6.8	7.6				
February	87.0	3.1	15.3	136.4	6.4	32.1	2.2	0.22	1.12	8.3	6.9	7.5				
March	62.8	3.5	19.6	127.6	8.0	45.1	1.9	0.23	1.29	14.8	6.8	7.5				
April	66.3	4.4	24.7	135.3	7.8	44.2	1.9	0.28	1.57	56.6	6.8	7.2				
May	48.5	3.6	34.9	109.6	5.4	43.4	1.4	0.18	1.40	20.1	6.8	7.3				
June	51.2	2.7	19.8	115.8	4.2	31.7	1.3	0.17	1.30	8.3	7.0	7.5				
July	74.8	2.1	12.4	133.1	3.5	20.6	2.1	0.216	1.30	5.8	7.1	7.7				
August																
September																
October																
November																
December																
Average	67.9	3.1	20.0	130.0	5.9	35.4	1.9	0.22	1.31	18.8	6.9	7.5				
Max	87	4.4	34.9	151.9	8	45.1	2.5	0.28	1.57	56.6	7.1	7.7				
C of A		25	225		25	225		1	9	200	6.0	9.5				