

# TOWN OF FORT FRANCES

## Operations and Facilities Executive Committee

### AGENDA - May 20, 2015, 8:30 AM

#### MEETING - Civic Centre

Page

##### **Call to Order**

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

##### **Approval of Previous Committee Minutes**

- 3.1 Minutes from meeting of this Committee on May 6, 2015. 2 - 3

##### **Items Referred from Council**

- 4.1 Request from the Rainy River Substance Abuse Prevention Team Organization to Utilize the Point Park on Saturday September 12, 2015 from 11:00 a.m. to 3:00 p.m. to host a Family Safety Day Event. 4 - 6

##### **New Business**

- 5.1 Tender No. 15-OF-08 - Three (3) Year Supply and Delivery of Granular Materials. 7 - 9
- 5.2 Execution of Nuisance Beaver Program Agreement - Rainy River District Trapper's Council 10 - 16
- 5.3 April 2015 Drinking Water Systems Monthly Summary Report 17 - 24

##### **Outstanding Items**

- 6.1 Sewer Systems Management By-law ( to be discussed at a future meeting)

##### **Non-agenda Items**

##### **Information**

- 8.1 Fort Frances Wastewater Treatment Facility April 2015 Monthly Report. 25 - 30

##### **Adjourn / Next Meeting Date**

TOWN OF FORT FRANCES

MINUTES

SESSION NO. # 009

May 6, 2015

The meeting of Operations & Facilities Executive Committee of the Town of Fort Frances was held in the Civic Centre on May 6, 2015 from 8:30 a.m. to 9:25 a.m.

PRESENT: Doug Kitowski, June Caul, Mark McCaig, CAO and Doug Brown

ALSO PRESENT: Mayor Roy Avis, Arlene Byrnes (8:30 a.m. to 9:10 a.m.), Merv Arhens (8:30 a.m. to 9:10 a.m.) and Ken Perry

**1. Call to Order**

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

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

None.

**3. Approval of Previous Committee Minutes**

- 3.1 Minutes from meeting of this Committee on April 22, 2015 - the minutes were approved as circulated.

**4. New Business**

- 4.1 Execution of Municipal - Industry Stewardship Plan (ISP) Material Service Agreement with Product Care Association (PCA) - the administration report was reviewed and will be forwarded to Council for approval.
- 4.2 In-Kind Services for 2015 International Boundary Waters Dragon Boat Festival - the memo was reviewed, where a decision was made on whether or not the Town would be spraying down the docks prior to the event. It was decided that the Town will not be supplying labour and equipment to perform this task. However the Boundary Waters Dragon Boat Club is welcome to perform this task if they feel it is necessary. Also the Operations and Facilities Executive committee wants to ensure the picnic tables are returned in a clean state. Councillor Ken Perry informed the committee that spare garbage containers are required for the event and not dumpsters. The memo will be revised to reflect these changes.
- 4.3 Proposal from a General Public Dog Park Group - to develop an off-leash Dog Park on the Old West End Rink Property - the memo and background information was reviewed where the Operations and Facilities Executive Committee recommends the following:
- 1) The request to utilize the Old West End Rink Property to be developed into an Off-Leash Dog Park be denied with the understanding that the Planning and Development Department and Executive Committee coordinate the investigation with both the Town's Off-Leash Dog Park Advisory committee and the new dog park group into the possibility of developing a new dog park along 8th street.

The memo will be revised to reflect the recommendation and forwarded to the Planning and Development Executive Committee Chairperson.

**5. Outstanding Items**

- 5.1 Strategic Plan Initiatives - CAO to expand - Mark McCaig outlined the four (4) previous initiatives, after a lengthy discussion no new initiatives were put forward.

- 5.2 Sewer Systems Management By-Law. ( to be discussed at the meeting on May 20, 2015). - this item was deferred to a later meeting when Doug Herr and Paul Ryan are present to ensure all members of management and Council are fully aware of the new items outlined in the draft by-law.

**6. CALL FOR NON-AGENDA ITEMS**

- 6.1 Awarding Tender 15-OF-03 - MHSW Service Provider - the Operations and Facilities Manager Doug Brown handed out an administration report. The administration report was reviewed and will be forwarded to Council for approval.

**6.2 In- Camera**

Identifiable Individual - Councillor Doug Kitowski indicated that he wanted to go in camera. A motion moved by Doug Kitowski and seconded by June Caul for the Operations and Facilities Executive Committee to go in camera at 9:16 a.m. After a brief discussion the Operations and Facilities Executive Committee closed the in-camera portion of the meeting and returned to an open meeting at 9:18 a.m.

**7. Information**

- 7.1 Operations and Facilities Division - Environmental Area - Operations Statistics - March 2015 - the Operations Statistics for the Environmental Area for March 2015 were reviewed and will be forwarded to Council as information only. No action required.
- 7.2 Operations and Facilities Division - Public Works Area - Operations Statistics - February 2015 - the Operations Statistics for the Public Works Area for February 2015 were reviewed and will be forwarded to Council for information only. No action required.
- 7.3 Operations and Facilities Division - Public Works Area - Operations Statistics - March 2015 - the Operations Statistics for the Public Works Area for March 2015 were reviewed and will be forwarded to Council for information only. No action required.

**8. Adjourn / Next Meeting Date  
9:25 a.m.**

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

---

Executive Committee Chair

---

D. Brown, Manager of Operations & Facilities

May 11, 2015

Report To: Mayor and Council

From: Doug Brown, Manager of Operations & Facilities

**SUBJECT: Request from the Rainy River Substance Abuse Prevention Team Organization to Utilize the Point Park on Saturday September 12, 2015 from 11:00 am to 3:00 pm to host a Family Safety Day Event**

Please find attached a letter dated April 22, 2015 from Tiffany Clifford-Smith, Chairperson of the Rainy River District Substance Abuse Prevention Team organization to utilize the Point Park on Saturday, September 12, 2015 from 11:00 am to 3:00 pm to host a Family Safety Day Event. On the proposed day, the Point Park is still open to the general public, thus the grounds and washrooms are still maintained and operational.

The Rainy River District Substance Abuse Prevention Team organization is requesting additional garbage bins and the supply of electrical to the vendors. In the past, there usually is no cost to the organizations to utilize the point park to stage such an event, however any additional costs would be passed on to the event organizer. In this case the request for additional garbage bins and the supply of electricity for the vendors would be the responsibility of the Rainy River Substance Abuse Prevention Team organization.

The Operations & Facilities Executive Committee recommends the following;

- 1) The Rainy River District Substance Abuse Prevention Team organization will be granted permission to utilize the Point Park on Saturday, September 12, 2015 from 11:00 am to 3:00 pm to host a Family Safety Day Event.
- 2) The Rainy River District Substance Abuse Prevention Team organization will be responsible to supply the conductor and electrician to connect from the Point Park existing electrical supply or panels to their vendor equipment.
- 3) The Rainy River District Substance Abuse Prevention Team organization will contact Asselin Transportation & Storage Ltd. to supply and empty additional waste bins to be utilized for their event at no cost to the Town.

Respectfully Submitted  
Operations & Facilities Division,

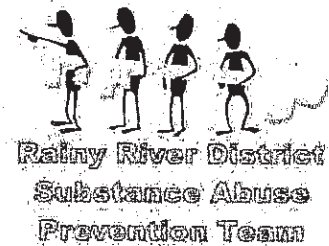
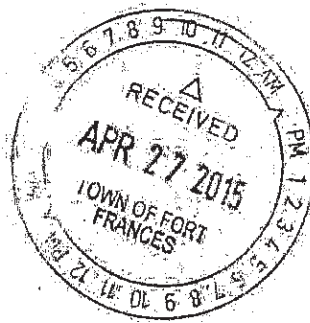


Doug Brown, P. Eng.  
Operations & Facilities Manager

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

- The Rainy River District Substance Abuse Prevention Team organization will be granted permission to utilize the Point Park on Saturday, September 12, 2015 from 11:00 am to 3:00 pm to host a Family Safety Day Event.
- The Rainy River District Substance Abuse Prevention Team organization will be responsible to supply the conductor and electrician to connect from the Point Park existing electrical supply or panels to their vendor equipment.
- The Rainy River District Substance Abuse Prevention Team organization will contact Asselin Transportation & Storage Ltd. to supply and empty additional waste bins to be utilized for their event at no cost to the Town.

2015MayRainy RiverDistrictSubstanceAbusePreventionTeam



April 22, 2015

Mayor Roy Avis &  
Fort Frances Town Council  
Fort Frances, ON

Dear Mr. Avis:

The Rainy River District Substance Abuse Prevention Team are planning our second annual FAMILY SAFETY DAY on September 12, 2015 from 11:00 a.m. – 3:00 p.m. The goal of our event is to promote health and safety to families; we hope to have vendors/booths on site to promote awareness on a variety of safety issues including water/transport safety (life jackets, boat safety, seat belts, car seats etc). We are inviting the Fire Department, OPP, Treaty #3 Police Service & Ambulance to be on site. We also hope to have vendors/booths to provide information and education on Fetal Alcohol Syndrome, safe handling of pharmaceuticals and safe needle disposal etc. We plan on having a BBQ at lunch time and activities for families to enjoy.

We believe that the best possible place to hold this event would be at The Point. This is our formal request for permission for the use of The Point. We would like to work in cooperation with you and would appreciate your assistance with this event by supplying the electricity for the vendors, washrooms and extra garbage bins.

Your partnership with us on this event again is very much appreciated as it will benefit many families in the Town of Fort Frances and neighbouring communities.

If you have any questions or concerns, please do not hesitate to contact me at [aadw@jam21.net](mailto:aadw@jam21.net) or at 274-8541.

Sincerely

Tiffany Clifford-Smith RRDSAPT Chair  
& the Substance Abuse Prevention Team

May 11, 2015

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

**SUBJECT: Tender No. 15-OF-08 - Three (3) Year Supply and Delivery of Granular Materials**

The tender for the supply and delivery of granular materials closed on May 5, 2015. Please find attached a report prepared by Milt Strachan, Transportation Superintendent, outlining pertinent information in regards to the one tender bid received. The highlighted "yellow items on Milt's spreadsheet are the lowest unit price received for each of the granular products tendered in each of the three years.

The Operations and Facilities Executive Committee recommends the following;

- a) That Tom Veert Contracting Ltd. is awarded the supply and delivery of Granular "A", Granular "B", Winter Sand, Crusher screenings, Clear stone, Rip Rap (R50) and Cobble stone in 2015, 2016 & 2017 as per unit prices outlined on the attached spreadsheet.

Respectfully submitted,  
Operations & Facilities Division



Doug Brown, P. Eng.  
Operations and Facilities Manager

**Council approval of this report will ensure:**

- a) That Tom Veert Contracting Ltd. is awarded the supply and delivery of Granular "A", Granular "B", Winter Sand, Crusher screenings, Clear stone, Rip Rap (R50) and Cobble stone in 2015, 2016 & 2017 as per unit prices outlined on the attached spreadsheet.

2015Maygranulartender



May 5, 2015

Report To: Doug Brown, Manager of Operations and Facilities

From: Milt Strachan, Transportation Superintendent

Re: Tender No. 15-OF-08 – Three (3) Year Supply and Delivery of Granular Materials

The tender for the supply and delivery of granular materials closed on May 5, 2015

One (1) tender was submitted, see attached spreadsheet. The math on the tenders submitted was verified where Tom Veert Contracting has submitted a tender without mathematical errors. The tender submitted is compliant.

The results of the tender is that:

- a) Tom Veert Contracting is the low bid for Granular "A", Granular "B", Winter Sand, Crusher Screenings, Clear Stone, Rip Rap (R50) and Cobble Stone for the three year term 2015, 2016 and 2017.

It is my recommendation that the supply and delivery of these materials be awarded accordingly.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read "Milt Strachan".

Milt Strachan,  
Transportation Superintendent



Spreadsheet No. 1 Tender No. 15-OF-08 3-year ( 2015 to 2017 ) Supply & Delivery of Granular Materials  
Closed on May 5, 2015

2015 Product

2015 Product	Estimated Quantity - tonnes	Tom Veert Contracting Ltd.					Total Cost	
		2015 Base Unit tonnes	HST	2015 Unit Price	2014 Unit Price	2015-2014 per tonne		%
Granular "A"	2000	\$11.40	\$1.49	\$12.89	\$12.12	\$0.77	6.35%	\$25,780.00
	3000	\$8.10	\$1.06	\$9.16	\$8.98	\$0.18	2.00%	\$27,480.00
Granular "B"	3000	\$11.25	\$1.47	\$12.72	\$11.19	\$1.53	13.67%	\$38,160.00
	3000	\$13.95	\$1.82	\$15.77	\$13.56	\$2.21	16.30%	\$31,540.00
Crusher Screenings	2000	\$13.95	\$1.82	\$15.77	\$13.56	\$2.21	16.30%	\$31,540.00
	500	\$19.95	\$2.60	\$22.55	\$21.47	\$1.08	5.03%	\$11,275.00
Clear Stone	500	\$30.00	\$3.90	\$33.90	\$25.80	\$8.10	31.40%	\$16,950.00
	500	\$30.00	\$3.90	\$33.90	\$25.80	\$8.10	31.40%	\$16,950.00
Rip Rap (R50)	500	\$30.00	\$3.90	\$33.90	\$25.80	\$8.10	31.40%	\$16,950.00
Cobble Stone	500	\$19.91	\$2.59	\$22.50	\$22.24	\$0.26	1.17%	\$11,250.00
	500	\$19.91	\$2.59	\$22.50	\$22.24	\$0.26	1.17%	\$11,250.00
subtotal								\$162,435.00

2016 Product

2016 Product	Estimated Quantity - tonnes	2016 Base Unit	HST	2016 Unit Price	2015 Unit Price	2016-2015 per tonne	%	Total Cost
Granular "A"	2000	\$11.63	\$1.52	\$13.15	\$12.89	\$0.26	2.02%	\$26,300.00
	3000	\$8.27	\$1.08	\$9.35	\$9.16	\$0.19	2.07%	\$28,050.00
Granular "B"	3000	\$11.48	\$1.50	\$12.98	\$12.72	\$0.26	2.04%	\$38,940.00
	2000	\$14.23	\$1.85	\$16.08	\$15.77	\$0.31	1.97%	\$32,160.00
Crusher Screenings	500	\$20.35	\$2.65	\$23.00	\$22.55	\$0.45	2.00%	\$11,500.00
	500	\$30.60	\$3.98	\$34.58	\$33.90	\$0.68	2.01%	\$17,290.00
Rip Rap (R50)	500	\$20.31	\$2.64	\$22.95	\$22.50	\$0.45	2.00%	\$11,475.00
Cobble Stone								
Subtotal								\$165,715.00

2017 Product

2017 Product	Estimated Quantity - tonnes	2017 Base Unit	HST	2017 Unit Price	2016 Unit Price	2017-2016 per tonne	%	Total Cost
Granular "A" Granular "B" Winter Sand Crusher Screenings Clear Stone	2000	\$11.87	\$1.55	\$13.42	\$13.15	\$0.27	2.05%	\$26,840.00
	3000	\$8.44	\$1.10	\$9.54	\$9.35	\$0.19	2.03%	\$28,620.00
	3000	\$11.71	\$1.53	\$13.24	\$12.98	\$0.26	2.00%	\$39,720.00
	2000	\$14.52	\$1.89	\$16.41	\$16.08	\$0.33	2.05%	\$32,820.00
	500	\$20.76	\$2.70	\$23.46	\$23.00	\$0.46	2.00%	\$11,730.00
Rip Rap (R50)	500	\$31.22	\$4.06	\$35.28	\$34.58	\$0.70	2.02%	\$17,640.00
Cobble Stone	500	\$20.72	\$2.70	\$23.42	\$22.95	\$0.47	2.05%	\$11,710.00
subtotal								\$169,080.00
Total								\$497,230.00

May 12, 2015

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

**SUBJECT: Execution of Nuisance Beaver Program Agreement Rainy River District Trapper's Council**

As a result of local beavers destroying trees in the back yard of 1235 King's Hwy. (Mary Lou Beaulieu ) property and the beavers building a dam inside the main 1800 diameter culvert which services the Walmart Retention pond and the Biddeson Creek system from the north side of King's Hwy. 11-71 an alternative method of dealing with nuisance beaverS was required.

The existing method of dealing with nuisance beavers within the Town's storm sewer system is that Milt Strachan is registered with the MNR to shoot or live trap nuisance beavers. The Town has no live trappers for beavers. See attached MNR letter from April of 2006. However, in this situation it is difficult to consider shooting nuisance beavers as near a built up area (commercial and residential properties) of the community.

With the assistance of Mary Lou Beaulieu a contact was made with Brian Love of the Rainy River District Trapper's Council to determine if this organization could provide assistance in addressing the nuisance beaver situation at 1235 King's Hwy. See attached copy of the agreement. Basically traps will be placed within the culverts near 1235 King's Hwy. The approximate cost to trap a nuisance beaver is estimated at \$100.00.

It is recommended by the Operations & Facilities Executive committee that the Mayor & Clerk be authorized to enter into an agreement with the Rainy River District Trapper's Council to address nuisance beavers within the community.

Respectfully submitted  
Operations & Facilities Division



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

<p><b>Council approval of this report will authorize</b> the Mayor &amp; Clerk to enter into an agreement with the Rainy River District Trapper's Council to address nuisance beavers within the community.</p>
---



RECEIVED  
MAY - 9 2006

April 21, 2006

File #2.3.7.5

The Town of Fort Frances  
PO Box 38  
Fort Frances, On.  
P9A 3M5  
Doug Brown

**SUBJECT: Destruction of Nuisance Wildlife on Municipal Land**

Dear Doug,

The Fish and Wildlife Conservation Act (FWCA) replaced the Game and Fish Act in 1999 and allows for nuisance wildlife control including beaver.

Landowners may deal with wildlife that is causing or about to cause damage to their property.

Municipal employees whose responsibilities include wildlife control are exempt from obtaining MNR authorization to deal with nuisance wildlife. This applies only to municipal property. Removal on Crown land requires authorization. Some species such as moose, deer or endangered species are not included. Special authorization is required to live trap black bear.

Employees Arlene Burns and Dave Egan are registered by us and will not have to be pre-authorized to destroy nuisance wildlife. We will add Milt Strachan to this list. This will allow the live trapping or shooting of nuisance beaver. Only a licensed trapper may possess and use body gripping traps.

Employees may use a firearm to kill nuisance wildlife or live traps. Please ensure designated employees who use firearms are trained in the safe and wise use of them. We would prefer that a licensed trapper trap nuisance wildlife, particularly beaver during the trapping season from October to May in order for the pelt to be harvested. A licensed trapper may be hired to eliminate nuisance beaver. Trappers are required to report nuisance beaver catches and obtain a License to Possess a Pelt in order to sell the pelt.

Beaver dams on Crown land may be removed without authorization in protection of municipal roads, but only where absolutely necessary. Entering private land requires permission from the landowner and you may be liable for any damages caused by the removal. Please contact the baitfish harvester for the area when considering this action. Also you may require authorization to alter or destroy fish habitat from the Department of Fisheries and Oceans at:

Fisheries & Oceans Canada  
Fish Habitat Biologist  
Fish habitat Management Branch  
PO Box 649, Lakeside Beach  
Kenora, On.  
P9N 3X6  
Lyndon Kivi / Earle Jessop  
Tel: 807-4678470  
Fax: 807-467-8470

We have authorized wildlife control agents in the district that are authorized and equipped to remove nuisance wildlife. They may be contacted at :

Second Chance Wildlife Control  
Emo, On.  
POW 1E0  
482-2269

Please report the following to this ministry at the end of the year:

- Number of nuisance wildlife destroyed by species
- Date the animal was destroyed
- Location
- Method of disposal of the carcass

If you have any further questions, contact Tony Elders at 807-274-8628.

Sincerely,



J. Wiume  
Area Supervisor - Rainy River Manitou Area  
Fort Frances District  
Téléphone: 807-274-8617  
Fax: 807-274-4438

TE/te

c.c : Dave Saunders, A/Enforcement Supérvisor  
Sergeant Steve Loshaw, Ontario Provincial Police

## RAINY RIVER DISTRICT TRAPPERS' COUNCIL

### NUISANCE BEAVER PROGRAM

By this agreement, the Rainy River Trappers Council will conduct nuisance beaver removal services on behalf of:

The Town of Fort Frances

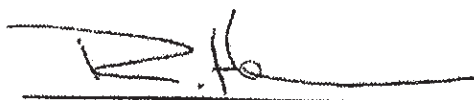
The Council has been authorized by the Ontario Ministry of Natural Resources and Forestry to act as an agent under Section 31 (2) of the Fish and Wildlife Conservation Act to conduct these activities under Section 11 (1) within trap lines designated as registered trap lines and administered by the Fort Frances District MNRF. For nuisance beaver complaints, the proponent will contact the Council and follow the procedures set out below. Upon completion of the services, the proponent agrees to pay \$75.00 per beaver for all nuisance beaver taken. If full payment has not been received within 30 days of invoice, a 2% interest rate will be applied and compounded each consecutive 30 days until full payment has been received.

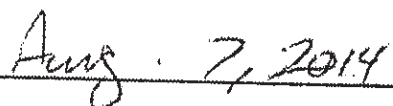
The procedures to follow upon a nuisance beaver complaint are:


1. Proponent identifies the nuisance beaver problem and contacts the Trappers Council representative. The proponent will provide details of the complaint to the contacted person, including the location and ownership of property. The proponent is responsible for obtaining landowner permission for all problems occurring on land not owned by them. Based on this agreement signed by MNRF and the Rainy River Trappers Council, the Council is authorized to dispatch trappers to provide nuisance beaver service on Crown Land. The complainant will advise the Council delegate if they wish to institute a maximum payable clause for each contract. Once the designate trapper has reached the allocated maximum limit, he/she will contact the Council designate who will, in turn, relay the information to the complainant.
2. The Council will act to provide service by dispatching the appropriate trapper according to the program criteria. Complaints can be submitted at any time but trappers will only be dispatched twice weekly – Mondays and Wednesdays.
3. The trapper undertakes the removal service, only during the closed season for beaver (May 15 – October 1). The trapper submits the pelts and/or carcass to the Nuisance Beaver Co-ordinator for verification and marking. The Council shall issue a receipt verifying the number of nuisance beaver harvested to the trapper and the council shall invoice the proponent.
4. The trapper will take appropriate action within forty-eight (48) hours of being notified.
5. Mileage compensation for the trapper will be fifty-four and an half cents per kilometre (\$0.545/km) (subject to change January each year) beginning from the home. A maximum of four (4) trips are to be allowed for compensation for the removal of all nuisance beaver from the specified complaint.

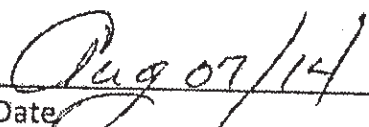
6. Should the Council dispatch a trapper to a specific site to remove nuisance beaver and no beaver are found, the proponent agrees to compensate the trapper thirty dollars (\$30.00) in addition to the mileage due for one trip as per item # 5
7. The proponent may request the Council to have a trapper lower the water level at the specified site. The proponent will pay the trapper twenty dollars (\$20.00) per hour up to a maximum of three (3) hours per specified complaint.
8. The Council will maintain and submit records to the MNRF on an annual basis.

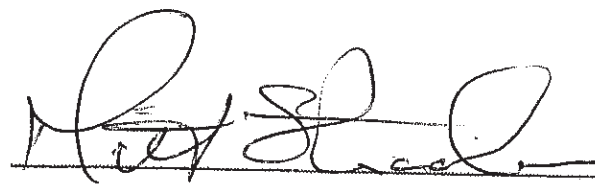
The Undersigned parties agree to the terms and conditions of this agreement:

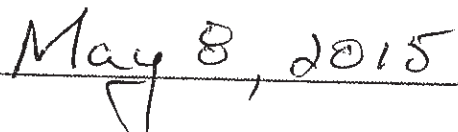
  
\_\_\_\_\_  
Authorized Official MNRF

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Rainy River Trappers Council President

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Proponent

  
\_\_\_\_\_  
Date



AUTHORIZATION TO CONDUCT

NUISANCE BEAVER CONTROL FOR

THE RAINY RIVER DISTRICT TRAPPERS' COUNCIL

Complaint Number: \_\_\_\_\_

Complaint Date: \_\_\_\_\_

Complainant: \_\_\_\_\_

\_\_\_\_\_

Specific Location of Complaint:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Trap line Number: \_\_\_\_\_

*Please note: If the problem area is located on Crown Land the complainant must have entered into a nuisance beaver agreement with the Rainy River Trapper's Council. Trappers are responsible for ensuring permission has been obtained to enter on to private lands.*

Trapper Assigned: \_\_\_\_\_

Trap line Number of Assigned Trapper: \_\_\_\_\_

Dates of Authorization: \_\_\_\_\_

Number of Beaver Removed: \_\_\_\_\_

Authorized by:

Rainy River Trapper's Council \_\_\_\_\_  
Rainy River District Trapper's Council Delegate \_\_\_\_\_ Date \_\_\_\_\_

Fort Frances MNRF District Manager \_\_\_\_\_  
FFMNRF District Manager or Delegate \_\_\_\_\_ Date \_\_\_\_\_

*Please note: Staple a copy of the receipt issued to the trapper to this form upon completion of complaint*

## NUISANCE BEAVER PROGRAM

### RAINY RIVER DISTRICT TRAPPERS' COUNCIL

1. Program to run May 15 to Oct. 1 of each year.
2. During the regular season – MNRF will contact 01 trapper, then 02.  
During the closed season MNRF will call Nuisance Beaver Program Co-ordinator.
3. Co-ordinator will attempt to contact 01 trapper then 02 – then designated trapper.
4. Participating trappers must be a member in good standing with RRDTTC with liability insurance \$2,000,000.00
5. Trapper will receive \$65.00 per beaver. Mileage will be \$0.545 per km to a maximum of 4 trips.
6. Co-ordinator will receive \$10.00 per nuisance beaver and be responsible for the year-end report to the District Manager.
7. RRDTTC Nuisance Beaver Program Co-ordinator

*Tammy Hunsburger*  
*Mine Centre, Ontario*  
*599-2884*  
*hwoolsey@bell.net*



May 19, 2015

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

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

Please find attached the April 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 April 2015 report as presented.

Respectfully submitted,  
Operations & Facilities Division



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

<p><b>Council approval of this report will</b> accept the April 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

**April, 2015**

**Monthly Summary Report  
Water Systems**

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

**Dated: May 14, 2015**

## 1) **Introduction -**

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

- April 01<sup>st</sup> - Galbraith Electric at plant to heaters and electrical cords.
- April 02<sup>nd</sup> - filled soda ash day tank
- April 03<sup>rd</sup> - cleaned all four (4) check valves on poly unit.
- April 06<sup>th</sup> - Caron Electric at plant to repair Poly Pump No. 4.
- April 07<sup>th</sup> - calibrated chlorine analyzer.
- April 08<sup>th</sup> - greased both clarifiers.  
- Cleartech, Pryde's and Galbraith Electric at plant to change chlorinator.  
- cleaned electric motors for poly pumps and changed pulley belt for Poly Pump No. 3
- April 09<sup>th</sup> - Cleartech at plant working on new chlorinator.  
- changed input out put card on Delta V system.
- April 10<sup>th</sup> - Galbraith Electric at plant to service poly motor and prep. for switch-over.  
- cleaned the top and bottom tank on the poly unit.
- April 11<sup>th</sup> - Galbraith Electric at plant to change motor for poly pump.
- April 13<sup>th</sup> - tested backflow device at Manitoulines.  
- greased both clarifiers.
- April 15<sup>th</sup> - began filling Clearwell No. 2.  
- changed vacuum valve on chlorine system.
- April 16<sup>th</sup> - cleaned the top and bottom tank on the poly unit.

- April 17<sup>th</sup> - Galbraith Electric at plant to work on HL #2 motor.  
- calibrated chemical feeders.
- April 21<sup>st</sup> - ordered Soda Ash.
- April 22<sup>nd</sup> - made chains for clarifier drives.
- April 23<sup>rd</sup> - took course on Working from Heights.
- April 28<sup>th</sup> - calibrated distribution chlorine analyzer.  
- took grab samples from each filter.
- April 30<sup>th</sup> - worked on Sunny Cove.

#### 8) **Water Complaints –**

- Poor Pressure – 0 complaints
- Water Quality – 1 complaint

1006 Webster Avenue: sampled (bacti) April 9, 2015 – no adverse  
Chlorine – 1.77 mg/L

#### 9) **Other Miscellaneous Information:**

- April 06<sup>th</sup> - took weekly routine bacti samples.
- April 07<sup>th</sup> - completed lead sampling – distribution system.
- April 09<sup>th</sup> - took weekly routine bacti samples.
- April 13<sup>th</sup> - took weekly routine bacti samples.
- April 20<sup>th</sup> - took weekly routine bacti samples.  
- took bacti samples – Clearwell No. 2 – 1<sup>st</sup> set.
- April 21<sup>st</sup> - took bacti samples – Clearwell No. 2 – 2<sup>nd</sup> set.
- April 27<sup>th</sup> - took weekly routine bacti 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 April 2015**

Flow Data	APRIL	Units	2013		2014		2015	
			Day of the Month		Day of the Month		Day of the Month	
Total Raw Water	m <sup>3</sup>		126330		206600		165700	
Raw Maximum Day	m <sup>3</sup>	Sunday 28th	5140	Thursday 03rd	9660	Friday 17th	6650	
Raw Minimum Day	m <sup>3</sup>	Monday 01st & 9th	4210	Saturday 26th	4770	Thursday 09th	5270	
Raw Average Daily Consumption	m <sup>3</sup>		4360		7120		5710	
Total Treated Water	m <sup>3</sup>		111400		173600		112830	
Treated Water Maximum Day Consumption	m <sup>3</sup>	Friday 28th	4070	Thursday 03rd	7020	Sunday 12th	4260	
Treated Water Minimum Day Consumption	m <sup>3</sup>	Friday 12th	3340	Saturday 26th	4810	Tuesday 21st	3390	
Treated Water Average Day Consumption	m <sup>3</sup>		3710		5790		3760	
Daily Average Per Household Consumption Rate	m <sup>3</sup>		0.98		1.53		0.99	
* Daily Average Per Person Consumption Rate	m <sup>3</sup>		0.46		0.73		0.47	
Monthly Averages - Operating Parameters WTP:								
FAC Residual - Treated Water	mg/L		1.68		1.63		2.04	
Total Chlorine Residual - Treated Water	mg/L		2.02		1.92		2.32	
Aluminum Sulphate - Raw Water	mg/L		33.9		34.5		35.6	
Aluminum Sulphate - Treated Water Residual	mg/L		0.08		0.06		0.06	
Fluoride - Treated Water	mg/L		0.62		0.63		0.68	
Soda Ash - Raw Water	mg/L		34.0		35.0		37.3	
PH - Adjusted	mg/L		7.20		7.25		7.19	
Temperature	C		3.1		2.7		5.5	
Quantity of Chemical Used:								
Aluminum Sulphate	kg		4425.5		7457.2		6105.7	
Polyelectrolyte	kg		50		75		62.5	
Chlorine Gas	kg		391		689		639	
Soda Ash - Used for PH Adjustment	kg		4438.4		7565.3		6398.2	
Fluoride	kg		311		574		365	

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

Operating Data		Units	*MAC or Range	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total	Average	
Flow rates																																				
Peak Instantaneous - Raw Water	Raw Water	10³ M³/3	17	5.60	5.59	5.75	5.63	5.50	5.70	5.57	5.64	5.57	5.68	5.58	5.94	5.33	5.59	6.45	6.21	6.65	5.89	5.55	5.70	5.62	5.60	5.38	5.83	5.81	5.59	5.48	5.60	5.68	5.59	165.70	5.71	
	Peak Instantaneous - Raw Water	L/s		65.59	65.52	65.57	65.49	65.53	65.52	65.64	65.58	65.65	65.71	65.59	65.54	65.57	65.52	76.29	76.00	75.85	75.57	65.60	65.76	65.63	65.64	65.62	65.65	65.66	65.69	65.76	65.75	65.82	65.81	2020.32	67.34	
	Treated Water	10³ M³/3	17	3.89	3.92	3.69	3.82	3.76	4.02	3.98	4.12	3.52	4.17	3.46	4.26	3.70	3.77	3.70	3.60	3.92	3.64	3.66	3.92	3.86	3.90	3.45	3.68	3.77	3.58	3.74	3.61	3.74	3.69	112.83	3.76	
	Peak Instantaneous - Treated Water	L/s	5	82.59	83.04	82.52	81.64	82.24	80.83	82.76	84.59	81.87	82.95	79.30	82.81	82.95	82.71	80.97	88.83	83.15	83.06	83.95	82.96	81.14	81.64	81.84	81.38	81.07	81.74	82.15	82.32	81.19	86.03	2475.82	82.55	
BackWash Water		10³ M³/3	n/a	0.23	0.23	0.21	0.23		0.23	0.21	0.23	0.23	1.33		0.23	0.21	0.23	0.20			0.22	0.23	0.20	0.22	0.23	0.20	0.21	0.23	0.21	0.22	0.23	0.22	0.22	0.59	0.26	
Fluoride Information																																				
Fluoride Residual - Treated Water		mg/l	0.5 to 0.8	0.75	0.72	0.68	0.69	0.69	0.72	0.64	0.37	0.22	0.19	0.53	0.77	0.73	0.74	0.75	0.76	0.77	0.76	0.74	0.74	0.72	0.70	0.72	0.75	0.75	0.71	0.74	0.71	0.73	0.77	20.28	0.68	
Turbidity Information																																				
Raw Water	Raw Water	NTU	n/a	0.79	0.75	0.69	0.62	0.66	0.72	0.92	1.03	0.84	0.71	0.99	1.06	0.92	0.76	1.26	1.36	1.44	1.34	1.19	1.46	1.38	1.35	1.30	1.37	1.45	1.39	1.45	1.35	1.31	1.42	33.28	1.11	
	Settled Water	NTU	n/a	0.11	0.12	0.11	0.13	0.21	0.11	0.35	0.37	0.22	0.10	0.11	0.15	0.16	0.18	0.16	0.12	0.11	0.09	0.09	0.09	0.07	0.12	0.12	0.14	0.11	0.12	0.11	0.12	0.11	0.09	4.20	0.14	
	Treated Water	NTU	1	0.09	0.09	0.06	0.06	0.06	0.09	0.06	0.08	0.04	0.03	0.07	0.06	0.07	0.06	0.06	0.05	0.05	0.04	0.05	0.04	0.04	0.04	0.06	0.07	0.06	0.05	0.07	0.08	0.06	0.05	1.79	0.06	
Other Operating Parameters																																				
pH - Treated Water	pH - Treated Water	no units	6.5 to 8.5	7.49	7.41	7.26	7.20	7.16	7.17	7.14	7.07	7.13	7.15	7.08	7.01	6.69	7	7.14	7.18	7.21	7.08	7.16	7.41	7.14	7.37	7.27	7.41	7.32	7.41	7.32	7.01	7.1	7.35	215.84	7.19	
	pH - Settled Water	no units	n/a	6.71	6.77	6.84	6.52	6.56	6.61	6.80	6.36	6.87	6.80	6.74	6.85	6.47	6.41	6.43	6.46	6.52	6.36	6.41	6.36	6.40	6.52	6.45	6.45	6.41	6.45	6.41	5.96	5.89	5.97	194.76	6.49	
	pH - Raw Water	no units	n/a	6.81	6.92	6.87	6.89	6.89	7.05	6.74	6.58	6.63	6.54	6.77	6.83	6.73	6.69	6.92	6.97	6.90	6.95	6.94	6.87	6.99	6.99	6.91	6.84	6.92	6.99	6.89	7.02	7	7.22	206.26	6.88	
	FAC - Treated Water	mg/l	0.2 to 4	1.97	1.99	1.97	2.01	1.89	1.95	1.85	1.89	1.74	1.40	2.20	2.15	2.24	2.29	2.29	2.31	2.65	1.97	1.94	1.91	1.94	2.01	2.19	1.79	2.15	2.05	2.15	2.19	1.94	2.57	2.15	61.05	2.04
	Total Chlorine Residual Treated	mg/l	0.3 to 7	2.17	2.19	2.24	2.29	2.16	2.19	2.30	2.38	2.16	1.76	2.47	2.44	2.64	2.67	2.31	2.88	2.39	2.21	2.20	2.18	2.27	2.32	2.10	2.30	2.29	2.30	2.35	2.25	2.8	2.31	69.52	2.32	
	Temperature	C	15	4.0	4.0	4.0	5.0	5.0	4.0	4.0	5.0	5.0	6.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	165.0	5.5		
	Chlorine used (Total Daily Consumption)	kg	n/a	11.0	12.0	12.0	11.0	12.0	12.0	11.0	9.0	9.0	10.0	11.0	12.0	12.0	16.0	20.0	14.0	15.0	14.0	12.0	13.0	12.0	13.0	11.0	13.0	11.0	11.0	11.0	14.0	365.0	12.2			
	Chlorine used (Total Daily Consumption)	kg	n/a	21.0	20.0	19.0	21.0	19.0	21.0	20.0	20.0	20.0	19.0	20.0	24.0	22.0	24.0	22.0	29.0	27.0	23.0	21.0	22.0	21.0	21.0	20.0	22.0	22.0	21.0	21.0	19.0	19.0	639.0	21.3		
	Soda ash (Total Daily Consumption)	kg	n/a	207.8	207.4	213.3	208.9	204.1	211.5	208.6	209.2	195.5	221.9	207.0	220.4	197.7	209.6	241.9	236.6	249.4	220.9	208.1	213.8	210.8	210.8	201.8	218.6	217.9	209.6	205.5	210.0	213.0	209.6	6396.2	213.3	
	Soda Ash - Dosage	mg/l	n/a	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.5	38.1	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	1120.4	37.3	
Alum residual - (Total Daily Consumption)	kg	n/a	199.4	199.0	204.7	200.4	195.8	202.9	198.3	200.8	187.6	212.9	198.6	211.5	189.7	198.4	229.0	221.7	237.4	210.3	198.1	203.5	200.6	199.9	192.1	208.1	207.4	199.6	195.6	196.9	202.8	199.6	6105.7	203.5		
Alum residual - Dosage	mg/l	n/a	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	1069.3	35.6		
Alum residual - Treated Water	mg/l	0.1	0.09	0.09	0.06	0.06	0.03	0.06	0.08	0.06	0.08	0.08	0.08	0.08	0.08	0.08	0.05	0.04	0.06	0.06	0.03	0.05	0.06	0.07	0.06	0.05	0.04	0.07	0.06	0.05	0.04	0.05	0.06	1.83	0.06	
Poly bags added (25 kg bags )	kg						0.5						0.5											0.5										62.5		





**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

May 4, 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**  
**April 2015 Monthly Report**

As per the operating agreement, the attached document is the April 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 G.D.", written over a light blue horizontal line.

Kelly Cunningham  
Senior Operator

For Larry Wachter  
Operations Manager

**The Corporation of the Town of Fort Frances  
Wastewater Treatment Plant  
(Sewage Plant)  
April 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 April 2015; the facility performance report summarizes important information regarding the quality of the effluent, wastewater, analytical test results, maintenance operations, and relevant activities of the WWTP.

## **DESCRIPTION OF WORKS**

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

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

## **LABORATORY**

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

## APRIL 2015 EFFLUENT QUALITY

<i>Parameters</i>	<i>Monthly Actual Concentration mg/L</i>	<i>Compliance Criteria Concentration mg/L</i>	<i>Performance Objective Concentration mg/L</i>	<i>Monthly Actual Loading, kg/d</i>	<i>Compliance Criteria Loading kg/d</i>	<i>Performance Objective Loading kg/d</i>
CBOD <sub>5</sub>	4.4 mg/L	25 mg/L	15 mg/L	24.7 kg/d	225 kg/d	135 kg/d
Suspended Solids	7.8 mg/L	25 mg/L	15 mg/L	44.2 kg/d	225 kg/d	135 kg/d
Total Phosphorus	0.28 mg/L	1.0 mg/L	1.0 mg/L	1.6 kg/d	9 kg/d	9 kg/d
Ammonia as N	6.53 mg/L					
Nitrite as N	0.13 mg/L					
Nitrate as N	2.56 mg/L					
Total Cl <sub>2</sub> Residual		<0.01 mg/L (when in use)				
E-Coli	56.6 count/100 ml (geometric mean )		200 count/100ml (geometric mean )		E-coli not to exceed 150 organisms/100ml (monthly geometric mean density)	
pH			pH range 6.8 to 7.2; average pH was 7.0			
Temperature degrees C			Temperatures ranged from 7.0 – 8.0 average temperature of effluent at 7.5			

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 April was 5,628.8 m<sup>3</sup>/day. This represents 63% of the design average flow. Total treated flow for the month was 168,865 m<sup>3</sup>.

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

## INVENTORY

Chemical	End of Month Status	Units
Hypochlorite	950 +/- @ 7.0% + 615 @ 12%	Litres
Alum	14.0 +/- @ 60 %	Cubic meters
Polymer	42 Bags (1050 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
- Greased clarifier drives
- Regular cleaning of seal water strainer TFP 9-5
- Removed debris from grit pump 1 inlet 90 and reducer
- Hot water flushed alum lines and pumps
- Acid washed UV sleeves all 3 banks
- Replaced all smoke detectors
- Flushed secondary digester level sensor
- Replaced flow meter RAS pump 2
- Installed new tubing rawsewage auto sampler and calibrated both

### Pump Stations:

- Ran gensets
- Changed seal water strainers
- Cleaned bar screens
- The radio antenna at Fifth Street lift station was re-aligned



## **OPERATIONAL ISSUES**

The facility met all operational requirements for the month.

## **SLUDGE SUMMARY**

The volume directed to the gravity belt thickener totaled 605.4 m<sup>3</sup> for the month. Asselin Transportation and Storage Limited hauled a total of 239.8 m<sup>3</sup> of thickened digested sludge (average 12.0 m<sup>3</sup>/load) to the Town of Fort Frances landfill site.

## **COMPLAINTS**

There were no complaints during the report period.

## **BY-PASS REPORT(S)**

There were no bypass events in the report period.

## **COMMENTS**

Plant power consumption for the month was 620 (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.

## **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	Max Day Flow	Total Treated	Total ByPass	Total Volume	% Plant Capacity	Volume Hauled	CBOD5	
	m3	m3	Volume ML	Volume ML	ML		M3	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						0%			
June						0%			
July						0%			
August						0%			
September						0%			
October						0%			
November						0%			
December						0%			
Sum				0	644329		781.4		
Average	5363		161082		161082	60%	195.4		
Max		6833	173865		173865				
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																
June																
July																
August																
September																
October																
November																
December																
Average	75.2	3.4	18.3	137.8	7.1	38.1	2.1	0.24	1.29	24.4	6.8	7.5				
Max	87	4.4	24.7	151.9	8	45.1	2.5	0.28	1.57	56.6	6.9	7.6				
C of A		25	225		25	225		1	9	200	6.0	9.5				