

TOWN OF FORT FRANCES

AGENDA - MARCH 26, 2012

COMMITTEE OF THE WHOLE MEETING

- Committee Room/Council Chambers

(Session No. 53) 5:30 p.m. to 6:07 p.m.

Page

Call to Order

Non-agenda items identified to be considered later in this meeting, both in-camera and in open meeting.

Disclosure of pecuniary interest and the general nature thereof.

In-Camera - 5:31 p.m. to 5:36 p.m.

Non-agenda in-camera items

Public Session Resumes in Council Chambers: 5:42 p.m.

Consent Agenda - 5:43 p.m. to 5:50 p.m.

- | | | |
|-----|--|-------|
| 7.1 | Private Home Day Care - Contract Provider Fee Increase. | 3-5 |
| 7.2 | Burning By-Law. | 6-14 |
| 7.3 | Approval of a Corporate Policy Entitled "Town Requirements When Airport Management Structure is Modified". | 15-17 |
| 7.4 | February 2012 Drinking Water Systems Monthly Summary Report. | 18-25 |
| 7.5 | 13th Annual Fly-In, Drive-In BBQ Financial Request. | 26-28 |
| 7.6 | Rainy River District Music Festival Association. | 29-30 |
| 7.7 | 2012 Capping Parameteres for Capped Properties. | 31-34 |
| 7.8 | Mark McCaig, CAO - Purchase Card OGRA Conference Expenses. | 35-40 |

Administration and Finance Division - 5:50 p.m. to 5:55 p.m.

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|-----|---|-------|
| 8.1 | Mayor Roy Avis - Purchase Card OGRA Conference Expense. | 41-43 |
| 8.2 | Firefighter Retiree Benefits Implication. | 44 |

Operations and Facilities Division - 5:55 p.m. to 6:00 p.m.

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|-----|---|--------|
| 9.1 | 2011 Schedule 22 (Compliance) Summary Report for the Town's Drinking Water System-DWS#22000098-Large Municipal Residential System and 2011-2012 MOE "Announced /Focused" Inspection Report. | 45-151 |
|-----|---|--------|

Information -

- | | | |
|------|---|---------|
| 10.1 | 2012 Tonnage Report at the Landfill Site - Updated March 1, 2012. | 152 |
| 10.2 | Fort Frances Airport - Aircraft Landings Year Comparison and Fuel Sales Recap 2012 as of March 1, 2012. | 153-154 |
| 10.3 | Operations and Facilities Division - February 2012 Operations Statistics (Environmental Area). | 155-157 |
| 10.4 | Operations and Facilities Division - February 2012 Operations Statistics (Public Works Area). | 158-162 |
| 10.5 | Waste Disposal Site Monthly Inspection Report - February 2012. | 163-164 |
| 10.6 | Fort Frances Wastewater Treatment Facility - February 2012 Monthly Report. | 165-170 |

Non-agenda items - 6:02 p.m.

March 21, 2012

Report to: Mayor and Council

Re: PHDC Contract Fee Increase

Attached is a report from the Children's Complex Superintendent requesting a fee increase for the PHDC Provider consistent with the CUPE increase and the Non-Union Management's increase.

It is the recommendation of the Community Services Executive that the increase be approved through to 2015.

Respectfully submitted,



George A. Bell
Manager of Community Services

<p>Council's approval of this report will approve an annual 2% fee increase for the PHDC Provider through to 2015 that is consistent with the CUPE negotiated increase.</p>
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Memo to: George Bell, Community Services Manager
From: Nicole Cheetham, Children's Complex Superintendent
Subject: Private Home Day Care – Contract Provider Increase

I am requesting that Private Home Day Care Providers receive a 2% increase retro to January 1, 2012; as well as a 2% increase effective January 1, 2013, January 1, 2014 and January 1, 2015. This would coincide with the increase that was agreed upon with CUPE.

Please find attached the proposed Private Home Day Care Providers wage increase.

Sincerely,



Nicole Cheetham
Children's Complex Superintendent

2012/2015 PROPOSED PROVIDER PAY INCREASE CALCULATIONS

January 1, 2012

Child Care Service	Base x 2%	W.S	P.E.G	Pay	Difference
Full Day	26.10 x 2% = 26.62	\$ 1.17	\$3.92	\$31.71	\$0.52
Half Day	15.70 x 2% = 16.00	\$ 0.58	\$1.96	\$18.55	\$0.31
Half Day and Lunch	21.98 x 2% = 22.42	\$ 0.74	\$2.94	\$26.10	\$0.44
Hourly	4.00 x 2% = 4.08	\$ 0.10	\$0.98	\$5.16	\$0.08
Before School	5.20 x 2% = 5.30		\$0.98	\$6.28	\$0.10
After School	9.12 x 2% = 9.30		\$1.96	\$11.26	\$0.18
Lunch	6.19 x 2% = 6.31	\$ 0.16	\$0.98	\$7.45	\$0.12

January 1, 2013

Child Care Service	Base x 2%	W.S	P.E.G	Pay	Difference
Full Day	26.62 x 2% = 27.15	\$ 1.17	\$3.92	\$32.24	\$0.53
Half Day	16.01 x 2% = 16.33	\$ 0.58	\$1.96	\$18.87	\$0.32
Half Day and Lunch	22.42 x 2% = 22.86	\$ 0.74	\$2.94	\$26.54	\$0.44
Hourly	4.08 x 2% = 4.16	\$ 0.10	\$0.98	\$5.24	\$0.08
Before School	5.30 x 2% = 5.41		\$0.98	\$6.39	\$0.11
After School	9.30 x 2% = 9.49		\$1.96	\$11.45	\$0.19
Lunch	6.31 x 2% = 6.44	\$ 0.16	\$0.98	\$7.58	\$0.13

January 1, 2014

Child Care Service	Base x 2%	W.S	P.E.G	Pay	Difference
Full Day	27.15 x 2% = 27.69	\$ 1.17	\$3.92	\$32.78	\$0.54
Half Day	16.33 x 2% = 16.66	\$ 0.58	\$1.96	\$19.20	\$0.33
Half Day and Lunch	22.86 x 2% = 23.32	\$ 0.74	\$2.94	\$27.00	\$0.46
Hourly	4.16 x 2% = 4.24	\$ 0.10	\$0.98	\$5.32	\$0.08
Before School	5.41 x 2% = 5.52		\$0.98	\$6.50	\$0.11
After School	9.49 x 2% = 9.68		\$1.96	\$11.64	\$0.19
Lunch	6.44 x 2% = 6.57	\$ 0.16	\$0.98	\$7.71	\$0.13

January 1, 2015

Child Care Service	Base x 2%	W.S	P.E.G	Pay	Difference
Full Day	27.69 x 2% = 28.24	\$ 1.17	\$3.92	\$33.33	\$0.55
Half Day	16.66 x 2% = 16.99	\$ 0.58	\$1.96	\$19.53	\$0.33
Half Day and Lunch	23.32 x 2% = 23.79	\$ 0.74	\$2.94	\$27.47	\$0.47
Hourly	4.24 x 2% = 4.33	\$ 0.10	\$0.98	\$5.41	\$0.09
Before School	5.52 x 2% = 5.63		\$0.98	\$6.61	\$0.11
After School	9.68 x 2% = 9.87		\$1.96	\$11.83	\$0.19
Lunch	6.57 x 2% = 6.70	\$ 0.16	\$0.98	\$7.84	\$0.13

March 21, 2012

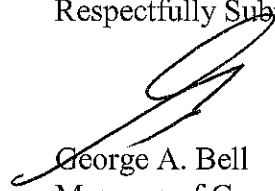
Report to: Mayor and Council

Re: Burning By-law

Attached is a report from the Fire Chief outlining the need to update our open air burning by-law and introduce short form wording so tickets can be issued on site to violators. The Fire Chief has also included suggested wording for a new by-law.

It is the recommendation of the Community Services Executive that council approve the attached report and the clerk be instructed to prepare the necessary by-law that would include short form wording required to issue tickets to violators.

Respectfully Submitted,



George A. Bell
Manager of Community Services

<p>Council's approval of this report will direct the clerk to prepare a new burning by-law as proposed by the Fire Chief with short form wording.</p>
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Fort Frances Fire and Rescue Service

Administrative Report

To: Community Services Executive
From: Frank Sheppard, Fire Chief
CC: George Bell, Manager, Community Services
Date: March 16th, 2012
Re: Burning Bylaw

I am writing this report in response to an outstanding administrative issue that should be addressed as soon as possible. The following paragraphs reflect the intent of the request, and included is a draft document to frame and outline a proposed bylaw

This item is related to the need to update the open air burning bylaw to reflect a need for enforcement in the community. I have included a draft bylaw that is a compilation of others that are in existence in the Province. The update of this bylaw will allow for a reasoned approach to open air burning ensuring property owners are not placing themselves or others at undue levels of risk from wildfire while respecting their right to enjoy their private property.

Part of the rationale for updating this bylaw is that the legislation that it references no longer exists, which makes the bylaw unenforceable. As part of this bylaw, Council will have to pass a set of fines with short-form wording that will require approval of the Attorney General of the Province. In addition, authority will be required to designate someone as a Provincial Offences officer for the purpose of this bylaw.

To summarize, this items serve the public interest, and will have no negative impact on our operations. I recommend that this item be adopted and the appropriate bylaw be passed to support the recommendation. Please advise if you need more information or if you would like me to attend to a meeting to answer any questions that may be posed at that time?

*F Sheppard, Fire Chief/CEMC
Fort Frances Fire & Rescue Service*

THE CORPORATION OF THE TOWN FORT FRANCES

BY-LAW NUMBER ##-2012

A BY-LAW TO PRESCRIBE THE TIME DURING WHICH FIRES MAY BE SET IN THE OPEN AIR, THE PRECAUTIONS TO BE OBSERVED BY THE PERSONS SETTING FIRES AND THE FEE FOR FIRE PERMITS.

WHEREAS the Council of the Corporation of the Town of Fort Frances is empowered under the Fire Protection and Prevention Act 1997, S.O. 1997,c.4, as amended, to pass by-laws regulating fire prevention, including the prevention of the spreading of fires;

AND WHEREAS Council is empowered under the Fire Protection and Prevention Act, 1997 to pass by-laws regulating the setting of open air fires, including establishing the times during which open air fires may be set;

AND WHEREAS Council is empowered under the Municipal Act 2001,S.O. 2001, c. 25., as amended, to pass by-laws to prohibit and regulate with respect to public nuisances, including matters that, in the opinion of Council, are, or could become or cause public nuisances;

AND WHEREAS the Fire Protection and Prevention Act 1997, and the Ontario Fire Code, O. Reg. 388/97 s.2.6.3.4. provides that open air burning shall not be permitted unless approved, or unless such burning consists of a small, confined fire, supervised at all times, and used to cook food on a grill or a barbecue.

NOW THEREFORE THE MUNICIPAL COUNCIL OF THE CORPORATION OF THE TOWN OF FORT FRANCES ENACTS AS FOLLOWS:

1 DEFINITION

For purpose of this by-law the following definitions shall apply:

“approved” means approved by the Chief Fire Official.

“approved burn products” means clean dry wood or standing dead grass

“Chief Fire Official” means the Fire Chief of the Fort Frances Fire Rescue Service or his/her designate.

"firefighter" includes all of the career members of the Fort Frances Fire Rescue Service, including the fire chief.

“Officer” means a by-law enforcement officer, fire fighter, or police officer.

“Open air” means any open place, yard, field or construction area which is not enclosed by a building or structure.

“Outdoor Fireplace” means a manufactured non-combustible enclosed container designed to hold a small fire for decorative purposes and the size of which is not larger than 1 meter in any direction, and may include, but is not limited to, chimineas.

“Town” means The Corporation of the Town of Fort Frances.

2 - ADMINISTRATION

2.1

This by-law shall be administered by the Chief Fire Official and shall be enforced by the Chief Fire Official, the Ontario Provincial Police and the Town’s By-law Enforcement Officers.

3 - REQUIREMENT FOR PERMIT, APPLICATION AND FEE

3.1

No person(s) or owner(s) of land shall:

Set a fire or permit the setting of a fire, or having set or permitted the setting of a fire, permit a fire to continue to burn without first having obtained a fire permit from the Chief Fire Official, and in accordance with the provisions of the said permit and this by-law.

3.2

Any person is entitled to a fire permit under this by-law who:

3.2.1

Completes the prescribed application form and submits same to the Chief Fire Official, at least forty-eight (48) hours in advance of the setting of an open-air fire that requires a site inspection. The prescribed application form shall be submitted to the Fort Frances Fire Rescue Service. The applicant shall provide in the prescribed application form information indicating that he or she shall comply with the provisions of this by-law; and

3.2.2

Pays the prescribed fee for the fire permit, and site inspection if required.

3.2.3

The service for which the prescribed fee is required is the receipt and processing of an application for a fire permit and, where applicable, the issuing of the same.

3.2.4

The prescribed fee for the issuance of a fire permit shall be as set out in Schedule “A” attached to and being a part of this by-law.

4

WHERE PERMIT NOT REQUIRED

4.1

A small confined fire used to cook food on a grill or a barbecue, supervised at all times, shall not be deemed to require a permit fire for the purposes of this bylaw.

4.1.2

A small confined fire used for recreational purposes, less than 61 cm (24 inches) in diameter, less than 61 cm (24 inches) in height, and supervised at all times, shall not be deemed to require a permit for the purposes of this bylaw. These fires must be confined in a fire pit or fire ring. Either home made or manufactured construction is acceptable.

4.1.3

Outdoor Fireplace with dimensions less than 61 cm (24 inches) in diameter, less than 90 cm (36 inches) in height, and supervised at all times, shall not be deemed to require a permit for the purposes of this bylaw. These items must be located on a non-combustible surface extending beyond the unit to a dimension equal to the height of the unit;

4.1.4

While being exempted from permits in clauses 4.1.1 and 4.1.2, any person burning in the Town of Fort Frances will be responsible to burn in accordance with the provisions of this bylaw.

4.2

The Fort Frances Fire Rescue Service shall be exempt from the provisions of this by-law with respect to open air burnings set for the purpose of educating, training, and risk reduction.

5

REVOCATION, SUSPENSION

5.1

A fire permit may be cancelled or suspended at any time by the Chief Fire Official. Immediately upon receiving notice of such cancellation or suspension the permittee shall extinguish any fire started pursuant to the permit.

6

BURNING REQUIREMENTS

6.1

Where a fire permit has been issued pursuant to this by-law the applicant and the owner of the lands on which the fire is set shall be responsible for any damage or injury to

persons or property with respect to the setting of a fire or permitting the fire to burn and they shall insure that:

6.1.1

Unless otherwise approved by the Chief Fire Official, not more than 1.5 cubic metres (5ft) of piled material may be burned at any one time.

6.1.2

Only clean dry wood or standing dead grass is burned.

6.1.3

The fire pile must be separated by 3m (10 ft) from any hedge, fence, vehicular roadway, overhead wire, or combustible of any kind. A minimum of 4 metres (14 ft) of separation must be maintained from any structure.

6.1.4

When burning grass, not more than .4 of a hectare can be ignited at any one time. If the fire line exceeds 30 metres it must be extinguished to less than that threshold.

6.1.5

The fire is attended at all times until it is completely extinguished.

6.1.5

Sufficient equipment and resources are available at the burn site to extinguish the fire if the fire gets out of control or is causing any adverse effect including those set out in Section 7 of this by-law.

6.1.6

At the end of the burn, that the fire is completely extinguished prior to the applicant and the owner leaving the burn site.

7

CONDITIONS OF PERMIT

7.1

Where a fire permit is issued, no person shall:

7.1.1

Set a fire or permit a fire to burn when the wind is in such a direction or of such intensity so as to reduce the visibility on any roadway or cause danger to any person or structure:

7.1.2

Set a fire or permit a fire to burn when the Ministry of Natural Resources has issued a fire ban for the region.

7.1.3

Set a fire or permit a fire to burn when the Chief Fire Official has issued a fire ban in the community or suspended the fire permits in the community.

7.1.4

Set a fire or permit a fire to burn other than between the hours of three hours before sunset and three hours after daybreak, unless otherwise expressly permitted by the Chief Fire Official.

7.1.5

Set a fire or permit a fire to burn without first having confirmed that the materials to be burned meet the requirements of this bylaw as identified in the definitions (clean dry wood, or standing dead grass only), and that they do not include waste or contaminated materials.

7.1.6

Set a fire in a manner that creates a nuisance or causes a disturbance.

7.1.7

Set a fire without having a portable fire extinguisher, operable garden hose, or other extinguishing materials available while the fire is burning.

8

OFFENCES AND ENFORCEMENT

8.1

A person is guilty of an offence if the person:

8.1.1

Furnishes false information in the Application for a Permit.

8.1.2

Contravenes any provision of this by-law.

8.2

Any person who contravenes the provisions of the by-law is guilty of an offence and upon conviction shall be liable to the penalties imposed pursuant to

8.2.1

The provisions of the Provincial Offences Act, R.S.O. 1990 Chapter P.33, as amended.

(a) The set fines for an offence under this by-law are set out in Schedule "B" attached hereto and form part of this By-law.

(b) The set fines described herein shall come into force and effect upon receipt of a Judge's Order from the Ministry of the Attorney General approving the set fines herein.

8.2.2

Notwithstanding the offence provisions of this Bylaw, any person who contravenes Section 2.6.2 of the Ontario Fire Code may be prosecuted in accordance with the Section 28 of the Fire Protection and Prevention Act 1997.

8.3

A permit may be revoked by the Chief Fire Official if the permit holder fails to comply with the requirements of the permit and/or any other provision of this bylaw.

8.4

The Chief Fire Official may order a fire to be extinguished immediately if the fire:

8.4.1

Is not set in compliance with this by-law.

8.4.2

Is determined upon inspection by the Chief Fire Official or an Officer to constitute a safety hazard or concern.

9

SEVERABILITY

Should any section or subsection of this by-law or any part or parts thereof be found by law to be illegal or beyond the power of the Council to enact, such section or subsection or part or parts thereof shall be deemed to be severable so that the remainder of this by-law shall continue in force.

10

REPEALING SECTION

By-law 33-93 is hereby repealed.

11

EFFECTIVE DATE

This by-law shall come into force and take effect on the date of passing.

12 SHORT TITLE

This by-law shall be known as the "Open Air Burning By-law."

READ THREE TIMES AND FINALLY PASSED IN OPEN COUNCIL THIS ##TH
DAY
OF March, 2012

SCHEDULE "A"

FIRE PERMIT FEES

Residents: \$ 10 per single use permit

Commercial: \$100 single use permit

APPENDIX B

Item #	Short Form Wording	Set Fine
1	Burning during fire ban or during restricted times	\$ 300.00
2	Fail to extinguish fire when ordered to do so	\$ 300.00
3	Burning in fire pit larger than permitted	\$ 300.00
4	Burning adversely affecting other persons	\$ 300.00
5	Burning of materials not permitted	\$ 300.00
6	Failure to supervise burning	\$ 300.00
7	Failure to notify of ignition and termination of burn	\$ 300.00
8	Failure by owner to ensure compliance	\$ 300.00
9	Burning within 4 meters of a dwelling unit	\$ 300.00
10	Fail to follow permit conditions	\$ 300.00
11	Burning without adequate extinguishment equipment or personnel	\$ 300.00
12	Burning in fire pit larger than permitted	\$ 300.00
13	Fire outside of permitted hours	\$ 300.00
14	Burning within 3 meters of hedge, fence, roadway, wires or other combustibles	\$ 300.00

March 19, 2012

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

SUBJECT: Approval of a Corporate Policy Entitled "Town Requirements when Airport Management Structure is Modified"



Back in October of 2011, Transport Canada (TC) conducted a Program Validation Inspection (PVI) of the Fort Frances Airport. One of the three minor findings was that the Airport Operator (Town of Fort Frances) must notify the Minister in writing within 14 days of any change in Airport operations. In December of 2011 there was a requirement for the Town to submit a Corrective Action Plan (CAP) to TC where administration recommended that the Town develop a corporate policy for reporting management changes to TC by the first quarter of 2012.

Please find a draft of a corporate policy entitled "**Town Requirements when the Airport Management Structure is modified**" for your review and comments. Also it should be noted that a Safety Management System (SMS) committee meeting is scheduled for Friday March 23, 2012 where the policy will be reviewed, modified if necessary and accepted by the SMS committee at this meeting. In order to meet the completion deadline of March 31, 2012 this policy in a preliminary draft form has been presented to the O & F executive committee at this time with the understanding that there is a possibility that the policy could be revised as a result of the SMS committee meeting to be held on March 23, 2012. If necessary Administration will distribute a revised corporate policy at the Council meeting on Monday March 26, 2012 for acceptance.

The Operations and Facilities Executive Committee recommends that the corporate policy entitled "**Town Requirements when the Airport Management Structure is modified**" has been reviewed and should be forwarded to Council for acceptance with the understanding that further revisions to the policy are possible.

Respectfully submitted,
Operations & Facilities Division

A handwritten signature in blue ink that reads "Doug Brown P. Eng".

Doug Brown, P. Eng.
Operations & Facilities Manager

Council approval of this report will ensure that a corporate policy entitled " Town Requirements when the Airport Management Structure is modified " has been developed and accepted prior to the March 31, 2012 deadline date.
--

2012MarchAirportpolicymanagement

<i>The Town of Fort Frances</i>	SECTION Operations & Facilities Division
<u>TOWN REQUIREMENTS WHEN THE AIRPORT MANAGEMENT STRUCTURE IS MODIFIED</u> <u>POLICY</u>	NEW: March 2012 REVISED:
Resolution No.	Supercedes Resolution No.
Policy Number	PAGE 1 of 1

1. PURPOSE:

The Corporation of the Town of Fort Frances is required to complete a few key tasks in accordance with Transport Canada- Canadian Aviation Regulations (CARS) when either a new Airport Supervisor is appointed or there is a revision in the existing management structure for the Airport Facility.

2. SCOPE:

This policy outlines the pertinent tasks the Corporation of the Town of Fort Frances is required to complete.

3. RESPONSIBILITIES:

These requirements apply to Senior Administration of the Corporation of the Town of Fort Frances specifically; the Operations & Facilities Manager and Human Resource Manager.

4. PROCEDURE

The Operations and Facilities Manager or the Human Resource Manager will be required to notify the Minister of Transport Canada **in writing** at least 14 days before any change to the airport management structure takes place.

Also the Operations and Facilities Manager or the Human Resource Manager will be responsible to up-date the existing Airport Operations Manual as a result of the change to the Airport Management structure. The revised version of the Airport Operations Manual will then be submitted to the Minister of Transport Canada for acceptance and approval.

5. Reference Material

Canadian Aviation Regulations Part III – Aerodromes, Airport & Heliports – 302.07(1)(d), 308.08(1)(C & 302.08(4)(iv)



March 5, 2012

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

SUBJECT: February 2012 Drinking Water Systems Monthly Summary Report

Please find attached the February 2012 Summary Report on the drinking water systems, prepared by Randy White, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the February 2012 report as presented.

Respectfully submitted,
Operations & Facilities Division

Doug Brown

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

Council approval of this report will accept the February 2012 Drinking Water Systems Monthly Summary Report and approve the report prior to it being made available to the general public.

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

02 Council Water Report February 2012.doc

February, 2012

**Monthly Summary Report
Water Systems**

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

Dated: March 05, 2012

1) **Introduction -**

This report contains the major maintenance activities and operational events that occurred during the month of February 2012 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

Feb. 02nd – cleaned the top and bottom tank on the poly unit.

Feb. 06th – worked on backwash valve positioner for filter # 4.

Feb. 08th – shut down plant and installed a new rebuilt influent valve on filter # 3 and started plant back up.

Feb. 09th – calibrated filter # 3 influent valve.

Feb. 09th – serviced fluoride pump.

Feb. 09th – serviced poly mixer.

Feb. 09th – serviced poly booster pump.

Feb. 14th – cleaned soda ash auger.

Feb. 16th – flushed poly line with water.

Feb. 16th – greased and inspected soda ash elevator.

Feb. 23rd – cleaned the top and bottom tank on the poly unit.

Feb. 27th – greased clarifier # 2 chain and motor checked chain tension.

Feb. 28th – flushed alum system.

Feb. 28th – changed oil and filter in compressor # 1.

Feb. 29th - changed oil in compressor # 2.

8) **Water Complaints –**

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

9) **Other Miscellaneous Information:**

Feb. 06th – took weekly routine bacti samples.

Feb. 13th – took weekly routine bacti samples.

Feb. 13th – took D.W.S.P. samples.

Feb. 14th – water main repair samples 1620 Colonization Rd. West first set.

Feb. 16th – water main repair samples 1620 Colonization Rd. West second set.

Feb. 16th – seasonal water turn on Fort Frances Cemetery first set.

Feb. 21st – took weekly routine bacti samples.

Feb. 21st – seasonal water turn on Fort Frances Cemetery second set.

Feb. 23rd – water main repair samples Customs garage first set.

Feb. 27th – took weekly routine bacti samples.

Feb. 27th – water main repair samples Customs garage second set.

Feb. 27th – safety inspection by Doug Herr and Gerry Hawley.

Feb. 28th – worked on annual reports for the Water Treatment Plant and Sunny Cove system as per Ministry regulations.

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: Randy White
- Doug Herr, Environmental & Facilities Supt.: Doug Herr
- Doug Brown, Manager of Operations & Facilities: Doug Brown
- Mark McCaig, CAO: Mark McCaig
- Rick Wiedenhoef, Chair O&F Exec Committee: R. Wiedenhoef
- Roy Avis, Mayor: _____
- Paul Ryan, Councillor: Paul Ryan
- John Albanese, Councillor: _____
- Andrew Hallikas, Councillor: _____
- Sharon Tibbs, Councillor: _____
- Ken Perry, Councillor: Ken Perry

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 February 2012

Agenda Item # 7.4 ...

Flow Data	FEBRUARY	Units	2010		2011		2012	
			Day of the Month		Day of the Month		Day of the Month	
Total Raw Water		m ³		143820		145950		152650
Raw Maximum Day		m ³	Sunday 21st	5300	Saturday 26th	5820	Saturday 11th	5800
Raw Minimum Day		m ³	Monday 1st	4930	Sunday 20th	5050	Thursday 09th	4360
Raw Average Daily Consumption		m ³		5140		5210		5260
Total Treated Water		m ³		121940		120730		132070
Treated Water Maximim Day Consumption		m ³	Sunday 21st	4740	Wednesday 02nd	5260	Monday 06th	4900
Treated Water Minimum Day Consumption		m ³	Thursday 04th	4060	Sunday 27th	4030	Wednesday 15th	4130
Treated Water Average Day Consumption		m ³		4360		4310		4550
Daily Average Per Household Consumption Rate		m ³		1.153		1.139		1.203
* Daily Average Per Person Consumption Rate		m ³		0.546		0.540		0.570
Monthly Averages - Operating Parameters WTP:								
FAC Residual - Treated Water		mg/L		1.81		1.88		1.81
Total Chlorine Residual - Treated Water		mg/L		2.12		2.21		2.09
Aluminum Sulphate - Raw Water		mg/L		32.5		34		34.5
Aluminum Sulphate - Treated Water Residual		mg/L		0.07		0.07		0.06
Fluoride - Treated Water		mg/L		0.68		0.64		0.64
Soda Ash - Raw Water		mg/L		32.5		34		34
PH - Adjusted		mg/L		7.41		7.37		7.33
Temperature		C		2		2		2.48
Quantity of Chemical Used:		kg						
Aluminum Sulphate		kg		4674.2		4962.3		5104.6
Polyelectrolyte		kg		62.5		50		37.5
Chlorine Gas		kg		597		473		475
Soda Ash - Used for PH Adjustment		kg		4513.9		4962.3		5030.6
Fluoride		kg		422		465		460

* The Canadian Average is 450 Litres (0.45 m³) per day.
 * Population is 7986
 * Number of Households is 3783

Agenda Item # 7.4 ...

Town of Fort Frances - Water Treatment Plant - Water Works # 220009378
Monitoring Record
February 2012

Operating Data			Unit	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	Total	Average
Flow Rates	Raw Water	10x3 M ³	17	5.62	5.59	5.68	5.57	5.58	5.47	5.61	5.19	4.36	5.58	5.30	5.35	4.83	5.16	4.98	5.46	5.18	5.10	5.25	5.21	5.20	5.07	5.23	5.18	5.42	5.15	4.98	5.16	4.69	152.65	5.26	
	Peak instantaneous - Raw Water	U/s	n/a	65.59	65.56	65.64	65.93	65.76	65.65	65.62	65.46	65.54	65.53	65.42	60.46	60.54	60.56	60.52	60.51	60.61	60.56	60.52	60.60	60.51	60.51	60.60	60.53	60.44	60.47	60.47	60.50	1690.14	62.60		
	Treated Water	10x3 M ³	17	4.50	4.47	4.50	4.47	4.48	4.49	4.45	4.45	4.54	4.61	4.52	4.64	4.52	4.83	4.13	4.72	4.93	4.57	4.51	4.86	4.54	4.41	4.52	4.85	4.65	4.37	4.40	4.61	4.57	132.07	4.55	
	Peak instantaneous - Treated Water	U/s	n/a	63.88	64.88	62.77	63.04	61.89	61.47	62.82	63.59	62.76	60.96	69.64	68.44	69.46	70.24	70.34	70.49	70.36	69.89	68.77	68.68	70.57	70.55	70.48	70.77	69.59	68.49	68.52	73.58	74.19	1990.89	68.65	
Backwash Water		10x3 M ³	n/a	0.788	0.473	0.587	0.477	0.508	0.492	0.495	0.437		0.491	0.705	0.266	0.247	0.237	0.232	0.271	0.246	0.235	0.230	0.266	0.244	0.464	0.360	0.487	0.273	0.247	0.238	0.228		10.18	0.377	
Fluoride Information																																			
Fluoride Residual - Treated Water		mg/l	0.5 to 0.8	0.69	0.77	0.69	0.59	0.58	0.70	0.58	0.65	0.71	0.59	0.55	0.56	0.72	0.65	0.64	0.67	0.61	0.67	0.65	0.66	0.59	0.54	0.57	0.57	0.65	0.65	0.60	0.65	0.67	18.42	0.64	
Turbidity Information																																			
Raw Water		NTU	n/a	0.39	0.39	0.40	0.42	0.40	0.38	0.39	0.40	0.37	0.32	0.35	0.32	0.36	0.32	0.31	0.35	0.33	0.32	0.32	0.30	0.32	0.33	0.32	0.31	0.3	0.28	0.30	0.48	0.31	10.09	0.35	
Settled Water		NTU	n/a	0.18	0.18	0.20	0.14	0.12	0.19	0.21	0.17	0.19	0.17	0.15	0.19	0.16	0.17	0.17	0.18	0.16	0.16	0.14	0.12	0.16	0.14	0.14	0.17	0.15	0.12	0.12	0.21	0.18	4.74	0.16	
Treated Water		NTU	1	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.05	0.06	0.07	0.04	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.04	0.05	0.04	0.04	0.12	1.11	0.04	
Other Operating Parameters																																			
pH - Treated Water		no units	6.5 to 8.5	7.41	7.43	7.47	7.44	7.40	7.44	7.47	7.51	7.53	7.45	7.32	7.35	7.38	6.91	7.25	7.21	7.33	7.34	7.33	7.29	7.36	7.44	7.41	7.29	7.32	7.10	7.24	7.22	7.01	212.65	7.33	
pH - Settled Water		no units	n/a	5.91	5.85	5.84	5.88	5.91	5.87	5.87	5.89	5.89	5.97	5.99	6.00	5.89	5.89	5.91	5.89	5.86	5.89	5.86	5.91	5.90	5.90	5.95	5.89	5.97	5.92	5.89	5.21	5.77	170.37	5.97	
pH - Raw Water		n/a	n/a	7.16	7.07	7.03	7.09	7.04	6.96	7.00	6.93	7.07	7.17	7.10	7.15	6.93	6.99	7.01	6.89	7.00	7.06	7.01	7.04	6.98	6.98	6.98	6.93	6.99	7	7.01	6.86	6.92	6.75	202.95	7.00
FAC - Treated Water		mg/l	0.2 to 4	1.67	1.86	1.81	1.87	1.66	1.82	1.87	1.83	1.89	1.89	1.79	1.8	1.74	1.86	1.81	1.81	1.75	1.78	1.78	1.78	1.71	1.76	1.74	1.78	1.79	1.77	1.75	1.71	1.82	52.51	1.81	
Total Chlorine Residual Treated		mg/l	0.3 to 7	2.18	2.12	2.09	2.16	2.21	2.23	2.13	2.11	2.05	2.15	2.17	2.01	2.06	2.06	2.14	2.03	2.06	1.99	2.00	2.08	2.03	2.04	2.06	2.03	2.1	2.12	2.02	2.05	2.01	60.49	2.09	
Temperature		C	15	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	69.0	2.48		
Fluoride used (Total Daily Consumption)		kg	n/a	19.0	20.0	19.0	18.0	18.0	17.0	17.0	16.0	20.0	18.0	20.0	18.0	16.0	17.0	15.0	16.0	15.0	15.0	14.0	14.0	13.0	13.0	13.0	13	13.0	12.0	13.0	14.0	460.0	15.86		
Chlorine used (Total Daily Consumption)		kg	n/a	18.0	17.0	18.0	18.0	17.0	17.0	17.0	13.0	13.0	18.0	18.0	16.0	15.0	15.0	15.0	17.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.00	17.0	16	15.0	16.0	15.0	475.0	16.39	
Soda ash (Total Daily Consumption)		kg	n/a	197.1	190.1	183.1	188.4	189.7	186.0	190.7	176.5	148.2	189.7	197.2	181.9	164.2	175.4	169.3	185.6	176.1	173.4	178.5	177.1	176.8	172.4	177.8	176.1	184.3	175.1	169.3	175.4	159.5	5030.6	176.57	
Soda Ash - Doseage		mg/l	n/a	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	986.0	34.00		
Alum residual (Total Daily Consumption)		kg	n/a	153.9	152.9	156.0	152.2	152.5	158.7	153.3	179.1	150.4	182.5	200.1	164.6	166.8	178.0	171.8	168.4	176.7	176.0	181.1	179.7	179.4	174.9	180.4	178.7	182.0	177.7	171.8	178.0	161.8	5104.8	181.60	
Alum residual - Doseage		mg/l	n/a	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	1000.5	34.50	
Poly Dabs added (25 kg Dabs)		kg	0.1	0.08	0.03	0.05	0.05	0.05	0.07	0.06	0.04	0.06	0.07	0.06	0.05	0.05	0.03	0.04	0.07	0.07	0.06	0.07	0.06	0.06	0.05	0.07	0.06	0.03	0.05	0.04	0.08	0.09	0.06	37.5	0.06

Maximum Value for the Month
Minimum Value for the Month



**TOWN OF FORT FRANCES
ADMINISTRATION & FINANCE DIVISION
TREASURER'S REPORT 2012/34**

To: Mayor Avis & Members of Council
FROM: Laurie Witherspoon, Treasurer
DATE: March 21, 2012
SUBJECT: 13th Annual Fly-In, Drive-In BBQ Financial Request

BACKGROUND

The letter received from Bruce Caldwell requesting financial request of \$1,000 to cover expenses for the 13th Annual Fly-In, Drive-In BBQ. At the Council Meeting on March 12, 2012, this request was referred to the Administration & Finance Executive Committee for their recommendation.

The 13th Annual Fly-In, Drive-In BBQ event is planned for June 3, 2012 at the Fort Frances Airport. In 2011 Council provided financial support to a maximum of \$1,500.00 as indicated in the attached material.

RECOMMENDATION

The Administration and Finance Executive Committee recommend providing financial support, to a maximum of \$1,000.00, towards the 13th Annual Fly-In, Drive-In BBQ at the Fort Frances Airport.

Council Approval of This Report Will Agree with the Administration and Finance Executive Committee's recommendation to provide financial support, to a maximum of \$1,000.00, towards the 13th Annual Fly-In, Drive-In BBQ at the Fort Frances Airport on June 3, 2012.

February 24, 2012

Mayor & Council
The Corporation of the Town of Fort Frances
320 Portage Avenue
Fort Frances, Ontario
P9A 3P9



Dear Mayor Avis and Council:

This year we will be holding our 13th Annual Fly-in, Drive-in BBQ at the Fort Frances Airport on June 3, 2012 from 10 am to 2 pm. In addition, the #908 Rainy Lake Air Cadets will be sponsoring the barbeque portion of the event and I have attached a poster for your information. We hope that you or a representative will be able to attend this event.

At this time, we would like to ask the Town of Fort Frances for approximately \$1000 to cover expenses and any other incidentals that may arise for this exciting event. Your contribution would be deeply appreciated.

Yours truly,

Bruce Caldwell

Bruce Caldwell

Refer to Administration and Finance Executive Committee for recommendation

☒ OK Finance Executive Committee
☐ Recommended
☐ Includes my input
☐ Recommended as amended/with comment
☐ Not recommended
☐ Will Speak to this
☐ Other

March 7, 2012
Date: *M. McCaig*
M. McCaig, Administrator

13th Annual Fly in, Drive in BBQ

Sunday, June 3, 2012
10 am—2 pm

Fort Frances Airport

Homebuilts ♦ Wheel Planes ♦ RC Aircrafts
Amphib Planes ♦ Old Cars ♦ Motorcycles

BBQ catered by the
#908 Rainy Lake
Air Cadets



Antique Car Show
sponsored by the
**INTERNATIONAL
EARLY IRON CAR
CLUB**

**FOR MORE INFORMATION CONTACT:
BRUCE CALDWELL (807) 274-3070**



**TOWN OF FORT FRANCES
ADMINISTRATION & FINANCE DIVISION
TREASURER'S REPORT 2012/36**

TO: Mayor Avis & Members of Council
FROM: Laurie Witherspoon, Treasurer
DATE: March 21, 2012
SUBJECT: Rainy River District Music Festival Association

BACKGROUND

The Rainy River District Music Festival Association letter received on March 14, 2012 requesting financial contribution for the 72nd Festival of Performing Arts taking place April 2012 has been forwarded to the Administration & Finance Executive Committee for recommendation

In the past Council has approved financial donations from the Council Public Relations Expense account in the amount of \$200.00 in 2002 and 2003, and \$100.00 in 2005, 2007, 2008, 2009, 2010 and 2011.

RECOMMENDATION

The Administration and Finance Executive Committee recommend approval of the Rainy River District Music Festival Association's request for financial donation in the amount of \$100.00 as a Council Public Relations Expense.

Council Approval of This Report Will Authorize a donation of \$100.00 to the Rainy River District Music Festival Association as recommended by the Administration and Finance Executive Committee.

RAINY RIVER DISTRICT MUSIC FESTIVAL ASSOCIATION

Box 806

Fort Frances, ON P9A 3N1

www.ff-festival.com

email: ffrrmusicfestival@yahoo.ca

Telephone 274-3893



Established in 1935

2012 - 72nd Year of Operation

A Special Invitation to Town of Fort Frances

The Rainy River District Music Festival Association's many volunteers are hard at work preparing for the 72nd Festival of the Performing Arts, to take place in April, 2012. Please visit our web site, www.ff-festival.com where all documents relating to the Festival can be found, as well as news and other information. This site will keep you up to date with Festival 2012.

Last year's Festival was extremely successful, thanks in part to those of you who contributed financially or as a "Helping Hand." In 2011, 76 years after the first Festival, just under 600 talented performers took part!

Because of the generous financial support from you and many others in the community we have been able to keep Festival fees low, ensuring that participation is affordable for all families in the District.

The Music Festival Association invites you to become a 2012 partner in this very important aspect of the education of the many talented performing artists in the District. Every little bit helps and all donations are tax deductible. **As in years past, a complimentary "All Session Pass" to the 2012 Festival will be awarded for all contributions of \$25.00 or more!**

We are always looking for more "Helping Hands" to sit on committees or help out during Festival weeks.

If you would like more information about the Festival Association and how you can help, please call Marilyn Allan at 274-3893.

Please detach and return with your contribution

YES, I'D LIKE TO BECOME A PARTNER IN "FESTIVAL 2012"

Enclosed is my contribution of ☐ \$12.00 ☐ \$25.00 ☐ \$50.00 Other \$100.00

**A Complimentary 2012 "ALL SESSION PASS" will be issued for all contributions of \$25.00 or over
A receipt for income tax purposes will be issued for all contributions**

PLEASE CALL ME:

I'd like to join a Festival Committee ☐

I'd like to help out at Festival time ☐

Town of Fort Frances
320 Portage Ave.
Fort Frances, ON P9A 3P9



TOWN OF FORT FRANCES
ADMINISTRATION & FINANCE DIVISION
TREASURY REPORT 2012/35

TO: Mayor Avis & Members of Council
FROM: Laurie Witherspoon, Treasurer
DATE: March 21, 2012
SUBJECT: 2012 Capping Parameters for Capped Properties

BACKGROUND

In accordance with s. 329.1 of the *Municipal Act*, a single tier municipality may pass a by-law to implement one or more of the capping parameters provided for each of the capped property classes (commercial, industrial and multi-residential).

Capping parameters consist of the following:

- Increase 5% - 10% of annualized taxes
- Greater of 5% CVA increase or 5% - 10% annualized taxes
- Up to \$250 threshold to move to CVA based taxes
- Minimum tax level for new to class construction properties eligible for 6 comparables (1.e. 70% for 2005, 80% for 2006, 90% for 2007 and 100% for 2008 and beyond)

Any of the above referenced capping parameters may be used on their own or in combination with other options and can be applied differently to each capped class. If a by-law is not passed under section 329.1 then only 5% of the previous year's annualized tax limit would be allowed. The approved 2006, 2007, 2008, 2009, 2010 and 2011 capping parameters were revenue neutral within each property class, 10% increase of annualized tax limit based on previous year's annualized taxes and minimum tax level of 100% for new to class construction properties.

The "Stay at CVA Tax" and "Cross CVA Tax" option gives consideration whether to include or to exclude properties that were at CVA Tax in the previous year, to include or exclude properties that would cross over CVA tax from capped to clawed back or to include or exclude properties that would cross over CVA tax from clawed back to capped for each property class. The inclusion of properties that were at CVA Tax in 2011 or that would cross over CVA Tax in 2011 would increase the number of properties under capping protection and result in increased claw back from decreasing properties.

RECOMMENDATION

The Administration & Finance Executive Committee recommends approval of the following 2012 capping parameters:

- 1) Revenue neutral within each class,
- 2) 10% increase of annualized tax limit based on previous year's annualized taxes for Commercial, Industrial and Multi-residential property classes,
- 3) Minimum tax level of 100% for new construction to capped property classes be maintained, and
- 4) Properties that were at CVA Tax in 2011 or that would cross over CVA Tax in 2012 to be excluded from capping.
- 5) Further, that the authorizing capping parameters by-law and the percentage by which tax decreases are limited by-law be prepared.

Council Approval of This Report Will Agree to the recommendation of the Administration & Finance Executive Committee to approve the 2012 capping parameters for revenue neutral within each class, 10% increase of annualized tax limit based on previous year's annualized taxes for Commercial, Industrial and Multi-residential property classes, that the minimum tax level of 100% for new construction to capped property classes be maintained and that properties that were at CVA Tax in 2011 or that would cross over CVA Tax in 2012 be excluded from capping. Further that the authorizing by-law be prepared.


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[Tax Tools](#) | [Clear Parameters](#) | [See Parameters](#)

2012 Capping Summary Analysis Report using Calculated Rates

Using OPTA calculated rates on March 13, 2012 5:50PM.

Assessment Data Filter Option Used: No Filter with 2012 Revenue Neutral Ratios

Fort Frances Town, 5912

Note: 3 properties have \$0 annualized taxes for the previous year and have been temporarily treated as CVA Tax - Other Reasons.

Capping Report		Frequency Distribution Report		Back to Capping Options	
		Multi-residential	Commercial	Industrial	
Capping Parameters					
Annualized Tax Limit		10.00%	10.00%	10.00%	
Prior Year CVA Tax Limit		0.00%	0.00%	0.00%	
CVA Tax Threshold - Increasers		0	0	0	
CVA Tax Threshold - Decreasers		0	0	0	
Exclude Properties Previously at CVA Tax		Yes	Yes	Yes	
Exclude Properties that Move from Capped to Clawed Back		Yes	Yes	Yes	
Exclude Properties that Move from Clawed Back to Capped		Yes	Yes	Yes	
Capping Clawback and Retained Percentages					
Clawback Percentage		0.0000%	2.6028%	2.0885%	
Retained Percentage		100.0000%	97.3972%	97.9115%	
Total		100%	100%	100%	
Total Tax Adjustment					
Capped Properties		0	-1,355	-683	
Clawback Properties		0	1,355	683	
Net Class Impact/Shortfall		0	0	0	

<< Expand
Expand >>

Category	Properties	2011 Annualized Taxes	2012 CVA Taxes Without Adjustments	2012 CVA Taxes Before Levy Change	2012 Capping Adjustment	2012 Overall Levy Change Adjustment	Threshold Adjustment	Revised 2012 Tax	Tax Adjustment for 2012	
									\$ Amount	% of CVA Taxes
Multi-residential										
At CVA Tax due to Exclude Options:										
Previously CVA Tax	18	523,239	536,239	522,162	0	0	0	536,239	0	0.00%
Commercial										
Capped/Protected by Annualized Tax Limit	2	6,580	8,668	8,580	658	74	0	7,312	-1,355	15.64%
Tax Above CVA Tax due to Clawback	208	1,891,411	1,858,688	1,839,870	-50,200	18,832	0	1,860,043	1,355	0.07%
Total Subject to Capping	210	1,897,992	1,867,356	1,848,449	-49,542	18,906	0	1,867,356	0	0.00%

Agenda Item # 7.7 ...

Other Reasons	3	0	36,392	36,024	0	0	0	36,392	0	0.00%
At CVA Tax due to Exclude Options:										
Previously CVA Tax	50	1,135,223	1,177,858	1,165,932	0	0	0	1,177,858	0	0.00%
Moved from clawed back to capped	11	52,807	53,497	52,956	0	0	0	53,497	0	0.00%
Total Excluded	61	1,188,030	1,231,355	1,218,888	0	0	0	1,231,355	0	0.00%
Class Total	274	3,086,021	3,135,103	3,103,361	-49,542	18,906	0	3,135,103	0	0.00%
Industrial										
Capped/Protected by Annualized Tax Limit	1	136	834	825	14	2	0	151	-683	-81.84%
Tax Above CVA Tax due to Clawback	3	2,046,620	2,039,062	2,014,336	-31,610	24,734	0	2,039,745	683	0.03%
Total Subject to Capping	4	2,046,756	2,039,896	2,015,161	-31,596	24,736	0	2,039,896	0	0.00%
At CVA Tax due to Exclude Options:										
Protection Below Limits	2	4,048	4,320	4,273	225	47	0	4,320	0	0.00%
Previously CVA Tax	36	132,919	133,806	132,337	0	0	0	133,806	0	0.00%
Total Excluded	38	136,967	138,126	136,610	225	47	0	138,126	0	0.00%
Class Total	42	2,183,723	2,178,022	2,151,771	-31,371	24,783	0	2,178,022	0	0.00%
Total All Classes										
Capped/Protected by Annualized Tax Limit	3	6,717	9,502	9,405	672	76	0	7,464	-2,038	-21.45%
Tax Above CVA Tax due to Clawback	211	3,938,032	3,897,750	3,854,206	-81,810	43,567	0	3,899,788	2,038	0.05%
Total Subject to Capping	214	3,944,748	3,907,252	3,863,610	-81,138	43,642	0	3,907,252	0	0.00%
Other Reasons	3	0	36,392	36,024	0	0	0	36,392	0	0.00%
At CVA Tax due to Exclude Options:										
Protection Below Limits	2	4,048	4,320	4,273	225	47	0	4,320	0	0.00%
Previously CVA Tax	104	1,791,381	1,847,902	1,820,431	0	0	0	1,847,902	0	0.00%
Moved from clawed back to capped	11	52,807	53,497	52,956	0	0	0	53,497	0	0.00%
Total Excluded	117	1,848,235	1,905,720	1,877,660	225	47	0	1,905,720	0	0.00%
Grand Total	334	5,792,984	5,849,364	5,777,294	-80,914	43,690	0	5,849,364	0	0.00%

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**TOWN OF FORT FRANCES
ADMINISTRATION & FINANCE DIVISION
TREASURY REPORT 2012/33**

TO: Mayor Avis & Members of Council
FROM: Laurie Witherspoon, Treasurer
DATE: March 21, 2012
SUBJECT: Mark McCaig, CAO – Purchase Card OGRA Conference Expenses

BACKGROUND

Attached is a copy of Mark McCaig's purchase card expenses in the amount of \$889.61 with regard to his attendance at the OGRA/ROMA Conference held in Toronto on February 26 to 29, 2012.

Conferences Expenses

1.	Hotel Accommodations	\$662.76
2.	Administration Van Gas & Washer Fluid	110.10
3.	Toronto - Ground Transportation	63.00
4.	Airport parking	<u>53.75</u>
	Total Purchase Card Expenses	<u>\$889.61</u>

Please note that the net expense to the Town for airport parking is \$35.83 as Mark McCaig has made a reimbursement of \$17.92 for additional parking days as indicated on Receipt No. 31673 (copy is included on the report attachments).

RECOMMENDATION

The Administration & Finance Executive Committee recommends approval of the purchase card expenses for Mark McCaig, CAO with regard to his attendance at the OGRA/ROMA Conference held in Toronto from February 26 to 29, 2012 in the amount of \$889.61.

Council Approval of this Report Will Agree to the Administration & Finance Executive Committee's recommendation to approve the purchase card expenses for Mark McCaig, CAO in the amount of \$889.61 relating to costs to attend the OGRA/ROMA Conference held in Toronto from February 26 to 29, 2012.



MARK MCCAIG		CREDITS \$0.00	PURCHASES \$889.61	CASH ADV \$0.00	TOTAL ACTIVITY \$889.61
Post Date	Tran Date	Reference Number	Transaction Description		Amount
02-28	02-23	74529002055900318561204	CANADA SAFEWAY #674 FT.FRANCES ON		9.02
02-28	02-24	74529002055900312817404	CANADA SAFEWAY #681 THUNDERBAY ON		50.00
03-01	02-29	74537862061032507098894	THUNDER BAY INTERNATIONAL THUNDER BAY ON		53.75
03-02	02-29	74064492061920111484178	SHELL HWY 11 E FORT FRANCES ON		51.08
03-02	03-01	74064492061820107051124	FAIRMONT ROYAL YORK TORONTO ON		662.76
03-02	03-01	74537862062032537091132	TAXI & LIMO PAYMENT MISSISSAUGA ON		63.00

- ① Canada Safeway - Warden Blvd - G 120-1500-1530 - \$ 9.02
- ② Canada Safeway - gas OGRA/Roma - G 120-1500-1530 - \$ 50.00
- ③ Thunder Bay International Airport Parking G-120-1500-1530 - \$ 53.75
- ④ Shell-Canada Products - gas -OGRA/Roma - G-120-1500-1530 - \$ 51.08
- ⑤ Fairmont Royal York - Toronto OGRA/Roma - G-120-1500-1531 - \$ 662.76
- ⑥ Taxi & Limo Mississauga - OGRA/Roma G 120-1500-1530 - \$ 63.00

Room - OGRA

Agenda Item # 7.8 ...

THE *Fairmont*
ROYAL YORK

100 Front Street W
Toronto, ON, Canada M5J 1E3
T (416) 368-2511 F (416) 368-2884
G.S.T. Registration # 832522213

Ontario Good Roads Association
Mr Mark McCaig
320 Portage Avenue
Fort Frances ON P9A 3P9
Canada

Room : 05159
Folio # : 1603027
Cashier # : 1021
Page # : 1 of 1

Group Name ROMA/OGRA 2012 Combined Confere

Invoice No.

Arrival : 02-25-12
Departure : 02-29-12

Date	Description	Additional Information	Charges	Credits
02-26-12	Room Charge		195.00	
02-26-12	HST - Rooms		25.35	
02-27-12	Room Charge		195.00	
02-27-12	HST - Rooms		25.35	
02-28-12	Local Calls	17:15 Line# 5159 : Dialed# 4168157325 [00:01:00]	1.71	
02-28-12	Room Charge		195.00	
02-28-12	HST - Rooms		25.35	
02-29-12	Visa	XXXXXXXXXXXX6269 XX/XX		662.76
Total			662.76	662.76
Balance Due			0.00	

GST Summary

Room : 0.00
F&B : 0.00
Other : 0.00
Total : 0.00

HST Summary

Room : 76.05
F&B : 0.00
Other : 0.20
Total : 76.25

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We also invite you to share memories of your experience on our community forum - visit www.everyonesanoriginal.com.

G 12d 1500-1531

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www.fairmont.com or call Fairmont Hotels & Resorts from :
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I agree that my liability for this bill is not waived and I agree to be held personally liable in the event that the indicated person, company or association fails to pay for any part of or the full amount of these charges. Overdue balance subject to a surcharge at the rate of 1.5% per month after one month. (18.00% per annum.)
I have accepted delivery of The Globe and Mail. Had I refused, I would have been eligible for a \$1.00 (Mon-Fri) and \$2.00 (Sat.) credit to my account. (At participating hotels.)

Thank you for choosing to stay with Fairmont Hotels & Resorts
Mark McCaig, CAO - Purchase Card OGRA Conference Expenses.

Page 37 of 170

AEROPORT INTERNATIONAL
THUNDER BAY
INTERNATIONAL AIRPORT
www.tbairport.on.ca
**** TICKET ****
LANE/VOIE: West 2 Pay Station

Entered/Arrivee:
2012/02/24 11:54

Ticket/Billet#: 71817322
Dur/Duree: 122:29:06
Paid On/Paye Le:
2012/02/29 14:23

Paid/Paye: \$ 53.75
Original Fee: \$ 53.75
HST: \$ 6.18

Change: \$ 0.00

VISA

SC: \$ 0.00

6-120-150-1530

Merchant ID: 00351395

*****6269 Swiped

VISA

Purchase 14:23:48

Seq# 000007 003

Auth# 005308

PARKING - OGRA

ADMIN VEHICLE GAS, OGRA
Agenda Item #7.8
SHELL CANADA
PRODUCTS
ON BEHALF OF
HWY 11 EAST
FORT FRANCES ON
P9A 3M3

Tax Description	Qty	Amount
H Bronze FS No1		
40.252 L @ \$1.269/ L		\$51.08
AIR MILES Discount	1	\$0.00
Sub Total		\$51.08
Amount HST Taxable		\$0.00
13.0% HST Tax		\$0.00
Amount HST-F Taxable		\$0.00
5.0% HST-F Tax		\$0.00
Total		\$51.08
VISA:		\$51.08
Change		\$0.00

6-120-150-1530

APPROVED - THANK YOU 001

VISA XXXXXXXXXXXX6269
PURCHASE SWIPED
INV No. 1023819272

X _____ 091958

Cardholder will pay card issuer above
amount pursuant to Cardholder Agreement

AM 8006620XXXX SCANNED Promo 0
Fuel Includes HST 13.0% \$5.88
Fuel Includes HST-F 5.0% \$0.00

HST - Fuel - ON No. R106555360

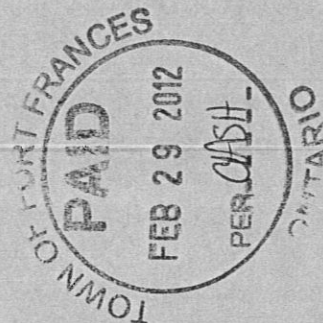
Help us change the world,
one click at a time.
www.shell.ca/fuellingchange

THANK YOU

Questions? 1-800-661-1600

REG: 1 CSH:Greg TRAN:7538
2012/02/29 16:51:45 ST:C10238

\$17.92



31673

TOWN OF FORT FRANCES
FORT FRANCES, ONTARIO
www.fort-frances.com

Personal Parking OGRA
Convention

Mark McCaig

SUNDRY RECEIPT
GST/HST REGISTRATION
#106554586 RT0001

4715 1602 0027 6269

06/12

MARK McCaig
TOWN OF PORT FRANCE

CAO 102
DIAMOND TAXI
108704
2587 5120-1500-1530

TAXI
(OGRA)

CLERK / COMMISS AUTH. NO. / N° D'AUT.

☐ Valid and Expiry Date Checked
Vérification de la date de validation
et de la date d'expiration

DATE M-M / M-M D-J / D-J Y-A / Y-A
08 / 09 / 12

DESCRIPTION	AMOUNT / MONTANT
G.S.T./T.P.S.	.
H.S.T./T.V.H.	58 : 00
P.S.T./T.V.P.	5 : 00
G.S.T./T.V.Q.	.
TIP POURBOIRE	.
TOTAL	63 . 00

5484552

5484552

CUSTOMER SIGNATURE/SIGNATURE DU CLIENT

CUSTOMER COPY / COPIE DU CLIENT

CREDIT CARD TRANSACTION RECORD

Canada Safeway Store 0674
417 Scott Street
Fort Frances, ON
P9A-1H3

CASH REG.: 046 EMPLOYEE: 0345
Visa PURCHASE
CARD NUMBER: *****6269

AMOUNT \$9.02

12/02/23 16:21:28 AUTHOR. #: 038972
REFERENCE #: 66157526 0017020500

VISA CREDIT
A0000000031010
0000008000

01 APPROVED - THANK YOU 027

IMPORTANT - retain this copy for
your records.
0674 046 0345 0114

Agenda Item #7.8 ...

ADMIN. VEHICLE
WASHER FLUID

SAFeway

STORE MGR 807-274-4521
GST/HST #119347672

G 120-1500-1530

203.99	SAFWY WASHER FLUID	7.98 H
****	13.0% HST	1.04
****	TAX 1.04 BAL	9.02
VF	Visa	9.02

ACCOUNT NUMBER *****6269
AUTHOR. #: 038972
CHANGE .00

TOTAL NUMBER OF ITEMS SOLD = 2
2/23/12 16:21 0674 46 0114 0345

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FREE AND INSTANT.

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1-800-723-3929 OR VISIT SAFEWAY.CA

CREDIT CARD TRANSACTION RECORD

Canada Safeway Store 0681
115 West Arthur Street
Thunder Bay, ON
P7E-5P7

CASH REG.: 046 EMPLOYEE: 4127
Visa PURCHASE
CARD NUMBER: *****6269

AMOUNT \$50.00

12/02/24 11:46:45 AUTHOR. #: 094169
REFERENCE #: 66157552 0016980200

VISA CREDIT
A0000000031010
0000008000

01 APPROVED - THANK YOU 027

IMPORTANT - retain this copy for
your records.
0681 046 4127 0052

SAFeway

STORE MGR GORD HAMPTON 807-473-5993
GST/HST #119347672

G 120-1500-1530

PR	GAS REGULAR UNLEAD	52.02
SC	\$0.05 Fuel Disc.	2.02
	GAS REGULAR UNLEAD 40.515L @ \$1.234 P4	
****	TAX .00 BAL	50.00

VF Visa 50.00
ACCOUNT NUMBER *****6269
AUTHOR. #: 094169

TOTAL SAVINGS 2.02
TOTAL NUMBER OF ITEMS SOLD = 1
GAS REGULAR UNLEAD
INCLUDES 13.0% GST/HST 5.75
2/24/12 11:46 0681 46 0052 4127

MARK MCCAIG 0296

Club Card Savings \$2.02
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Weekly flyer specials at
safeway.ca



**TOWN OF FORT FRANCES
ADMINISTRATION & FINANCE DIVISION
TREASURY REPORT 2012/32**

TO: Mayor Avis & Members of Council
FROM: Laurie Witherspoon, Treasurer
DATE: March 21, 2012
SUBJECT: Mayor Roy Avis – Purchase Card OGRA Conference Expense

BACKGROUND

Attached is a copy of Mayor Roy Avis Purchase Card Expense in the amount of \$661.05 for hotel accommodations in Toronto for the OGRA/ROMA Conference held February 26 to 29, 2012.

The hotel Accommodations of \$661.05 were noted on Treasury Report 2012/30 as part of the overall total costs for Mayor Avis to attend the OGRA/ROMA Conference as was authorized by Council.

RECOMMENDATION

The Administration & Finance Executive Committee recommends approval of the Purchase Card expense for Mayor Roy Avis in the amount of \$661.05.

Council Approval of this Report Will Agree to the Administration & Finance Executive Committee's recommendation to approve the purchase card expense for Mayor Roy Avis in the amount of \$661.05 for hotel accommodations while attending the OGRA/ROMA Conference held in Toronto from February 26 to 29, 2012.

ROY AVIS		CREDITS	PURCHASES	CASH ADV	TOTAL ACTIVITY
		\$0.00	\$661.05	\$0.00	\$661.05
Post Date	Tran Date	Reference Number	Transaction Description		Amount
03-02	03-01	74064492061820107048765	FAIRMONT ROYAL YORK TORONTO ON		661.05



100 Front Street W
Toronto, ON, Canada M5J 1E3
T (416) 368-2511 F (416) 368-2884
G.S.T. Registration # 832522213

Ontario Good Roads Association
Mr Roy Avis
320 Portage Avenue
Fort Frances ON P9A 3P9
Canada

Room : 08111
Folio # :
Cashier # : 1599
Page # : 1 of 1

Group Name ROMA/OGRA 2012 Combined Conference

Invoice No.

Arrival : 02-26-12
Departure : 02-29-12

Date	Description	Additional Information	Charges	Credits
02-26-12	Room Charge		195.00	
02-26-12	HST - Rooms		25.35	
02-27-12	Room Charge		195.00	
02-27-12	HST - Rooms		25.35	
02-28-12	Room Charge		195.00	
02-28-12	HST - Rooms		25.35	
Total			661.05	0.00
Balance Due			661.05	

GST Summary

Room : 0.00
F&B : 0.00
Other : 0.00
Total : 0.00

HST Summary

Room : 76.05
F&B : 0.00
Other : 0.00
Total : 76.05

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Town Credit Card

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www.fairmont.com or call Fairmont Hotels & Resorts from :
United States or Canada 1 800 441 1414

I agree that my liability for this bill is not waived and I agree to be held personally liable in the event that the indicated person, company or association fails to pay for any part of or the full amount of these charges. Overdue balance subject to a surcharge at the rate of 1.5% per month after one month. (18.00% per annum.)
I have accepted delivery of The Globe and Mail. Had I refused, I would have been eligible for a \$1.00 (Mon-Fri) and \$2.00 (Sat.) credit to my account. (At participating hotels.)

Mayor Roy Avis - Purchase Card OGRA Conference Expense.



**TOWN OF FORT FRANCES
ADMINISTRATION & FINANCE DIVISION
TREASURY REPORT 2012/37**

TO: Mayor Avis & Members of Council
FROM: Laurie Witherspoon, Treasurer
DATE: March 22, 2012
SUBJECT: Firefighter Retiree Benefits Implication

BACKGROUND

As Council is aware, on February 4, 2011 the Provincial Board of Arbitration awarded the Town of Fort Frances fire fighter employees with salary increases for 2009, 2010, 2011 and 2012, along with Recognition Pay and Retiree Benefits. As a result of the arbitration award a new article 8 (d) Retiree Benefits was inserted into the Collective Agreement.

The Retiree Benefits compel the Town to pay 100% of the cost of the retired Member's benefits, except for life, AD & D and deluxe travel, up to a maximum age of 65 or until provided by a government plan, which ever occurs sooner, provided that the member is eligible for pension benefits under OMERS requirements and is within 10 years of the normal retirement date.

The Retiree benefit costs will affect our 2011 surplus and/or deficit as the entire liability will have to be set up for our December 31, 2011 year-end even though there were no fire fighter retirees during that year. In consultation with BDO Canada auditor, it is estimated that the impact could range from \$193,000 to a maximum of \$530,000. J. Savage has recommended that the Town contact Morneau Shepell out of Toronto to provide the Town with an actuary report that will use estimates and probability factors to calculate the post retirement liability. There are two Municipal/Not-for-Profit organizations in our district that have used the services of Morneau Shepell. Once the actuary has been completed, normally they will require an updated actuary report to be completed once every 3-5 years.

Council approval is not required at this time, this is for discussion purposes only as additional information is being obtained.

March 19, 2012

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

SUBJECT: 2011 Schedule 22 (Compliance) Summary Report for the Town's Drinking Water System – DWS # 220000978 - Large Municipal Residential System & 2011/12 MOE "Announced/Focused" Inspection Report

Administration is required to present to Council the 2011 Schedule 22 Summary Report prior to the March 31, 2012 deadline. Please find attached Administration report prepared by Douglas Herr, Environmental and Facilities Superintendent outlining the 2011 Schedule 22 Summary Report for the Town's large residential drinking water system. The entire Schedule 22 Summary Report is attached for your review and acceptance.

Also attached is the MOE 2011/12 Drinking Water Inspection report from their announced focused inspection, which was conducted on January 30, & 31, 2012. I am very pleased to inform Council that no health risks and non-compliance issues were found during this inspection. At this time I would like to acknowledge all the efforts and hard work of the following staff members; Doug Herr - Environmental and Facilities Superintendent, Randy White – Overall Operator in Charge, Brad Webb - Senior Water Treatment Plant (WTP) Operator, Keith Munro - WTP Operator, Mike Allen - Water Distribution System Operator, Paul Lemesurier - Water Distribution System Operator and Greg Wiedenhoef - Water Distribution System Operator to ensure that all consumers connected to the Town's water system receive outstanding water which meets all applicable regulations. Please keep up the good work.

Also no orders were issued as a result of the inspection. However, three (3) recommended actions and/or best practice issues have been listed on page 13 of 14 of the attached inspection report.

The 2011 Schedule 22 (Compliance) Summary report & the MOE 2011/12 Drinking Water Inspection report will be available for inspection or review by any member of the public at the Water Treatment Plant or the Public Works Office during regular business hours without charge. Also a copy of the reports will be forwarded to Couchiching First Nations, the Walleye Trailer Park and the Lakeview Trailer Park prior to March 31, 2012. Also a copy of the report will be posted on the Town's website.

The Operations and Facilities Executive Committee recommends the following;

1. That Council accepts the 2011 Schedule 22 Annual Summary Report and that a separate resolution be prepared.
2. That the 2011/12 MOE “Announced/ Focused” Inspection Report of the Town’s water system be reviewed and accepted by Council.
3. That at this time, the staff of the drinking water system should be acknowledged for all their effort and hard work to ensure that all consumers connected to the Town’s water system receive outstanding water, which meets all applicable regulations. Please keep up the good work.

Respectfully submitted,
Operations & Facilities Division



Doug Brown, P. Eng.
Operations & Facilities Manager

Council approval of this report will ensure the following;

1. Accept receiving the 2011 Schedule 22 Annual Summary Report.
2. That a resolution is passed by Council indicating that Council has reviewed and accepted the 2011 Schedule 22 Summary Report.
3. That the 2011/12 MOE “Announced/Focused” Inspection Report of the Town’s drinking water system has been reviewed and accepted.
4. That at this time, the staff of the drinking water system should be acknowledged for all their efforts and hard work to ensure that all consumers connected to the Town’s drinking water system receive outstanding drinking water, which meets all applicable regulations.

2012Marchschedule22summaryreport.doc

**Fort Frances
O. & F. Division**

Memo

To: Doug Brown, P. Eng.
Manager of Operation & Facilities

From: Doug Herr,
Supt. Environmental & Facilities

CC:

Date: Monday, March 12, 2012

Re: 2011 Annual Summary Reports (Schedule 22)
Drinking-Water Systems Regulation O. Reg. 170/03

Doug,

Find attached a copy of the 2011 Annual Summary Report (Schedule 22) for the Town of Fort Frances' drinking water system. This report is to be presented to Council as outlined in Schedule 22 of the Ontario Regulation 170/03. Once approved by Council a copy of the report will forward to the Ministry of the Environment and to each system owner that receives water from our water distribution system.

I will also ensure that the 2011 Annual Summary Report (Schedule 22) for Fort Frances Water Treatment Plant is posted on the Town's web site once approved.

Doug Herr

FORT FRANCES DRINKING WATER SYSTEM

Large Municipal Residential Drinking Water System

(O. Reg. 170/03 - SCHEDULE 22)

ANNUAL SUMMARY REPORT

For the period of

JANUARY 01, 2011 TO DECEMBER 31, 2011

DRINKING WATER SYSTEM #220000978

Prepared by: Douglas Herr

TABLE OF CONTENTS

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2.0	General Overview	Page 3
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4.0	Requirements of the Ontario Regulation 170/03 <i>(Amendment O. Reg. 106/10, July 01/10 to present)</i>	Page 5
5.0	System Approvals	Page 6
6.0	Failure to Meet Requirements (Non-Compliance Issues)	Page 6
7.0	Quantity and Flow Data (2011)	Page 7 – 9

1.0 Description

This is the summary report for the Fort Frances Drinking Water System, as required by Schedule 22 of O. Reg. 170/03, as amended, Summary Reports for Municipalities. For the purposes of the regulation, the Fort Frances Drinking Water System is considered to be a large municipal residential system.

2.0 General Overview

The reporting period for this report is January 01 to December 31, 2011.

During the reporting period, the Fort Frances Drinking Water System was operated pursuant to the approval, license and permits listed below:

1. Certificate of Approval # 1811-7MSKDJ, issued January 5, 2009;
2. Municipal Drinking Water License (MDWL) No. 224-101, Issue Number: 1, issued July 29, 2011;
3. Drinking Water Works Permit (DWWP) No. 224-201, Issue Number1: issued July 19, 2011.
4. Permit to Take Water No. 7280-6UAMD9, issued October 5, 2006.

The DWWP and MDWL were issued in accordance with Sections 40 and 44, respectively of the Safe Drinking Water Act (SDWA), 2002. The issuance of the DWWP and MDWL replaces the previously required Certificate of Approval.

Under the authority of the SDWA, the Ministry of the Environment is transitioning the approvals process for drinking water systems from one based on certificates of approval to one based on municipal licenses and permits. This report addresses both the Town of Fort Frances' current Certificate of Approval (C. of A.) and the new Municipal Drinking Water License (MDWL).

The Fort Frances Water Treatment Plant is designated a Class 3 Water Treatment Facility and the water distribution system is designated as a Class 2 Water Distribution System are referenced as Drinking Water System Number 220000978 (MOE).

The summary report is required to provide the following:

1. A list of any instances when the system failed to meet the requirements of the Safe Drinking Water Act, the regulations, the system's approval, MDWL, DWWP and any order;
2. Descriptions of the measures that were taken to correct the failure;
3. A summary of the quantities and flow rates of water supplied during the reporting period;
4. The monthly average and maximum instantaneous flow rates;
5. A comparison of the data summarized above to the rated capacities and flow rates in the system's approval and/or MDWL.

3.0 Requirements of the Safe Drinking Water Act (SDWA)

Every owner of a municipal drinking-water system or a regulated non-municipal drinking-water system and, if an operating authority is responsible for the operation of the system, the operating authority for the system shall ensure the following:

1. That all water provided by the system to the point where the system is connected to a user's plumbing system meets the requirements of the prescribed drinking-water quality standards.
2. That, at all times in which it is in service, the drinking-water system,
 - i. is operated in accordance with the requirements under this Act,
 - ii. is maintained in a fit state of repair, and
 - iii. satisfies the requirements of the standards prescribed for the system or the class of systems to which the system belongs.
3. That the drinking-water system is operated by persons having the training or expertise for their operating functions that is required by the regulations and the license or approval issued or granted for the system under this Act.
4. That all sampling, testing and monitoring requirements under this Act that relate to the drinking-water system are complied with.
5. That personnel at the drinking-water system are under the supervision of persons having the prescribed qualifications.
6. That the persons who carry out functions in relation to the drinking-water system comply with such reporting requirements as may be prescribed or that are required by the conditions in the license or approval issued or granted for the system under this Act.

4.0 Requirements of the Ontario Regulation 170/03
(Amendment O. Reg. 106/10, July 01/10 to present)

The Town of Fort Frances Drinking Water System is categorized as a Large Municipal Residential System; serves a major residential development and serves more than 100 private residences. For this system the regulation requires that:

The owner of a drinking-water system shall ensure that, not later than March 31 of each year, a report is prepared for the preceding calendar year and is given to,

- (a) in the case of a drinking-water system owned by a municipality, the members of the municipal council;
- (b) in the case of a drinking-water system owned by a municipal service board established under section 195 of the *Municipal Act, 2001*, the members of the municipal service board; or
- (c) in the case of a drinking-water system owned by a corporation, the board of directors of the corporation.

The report must,

- (a) list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water license and any orders applicable to the system that were not met at any time during the period covered by the report; and
- (b) for each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water license or if the system is receiving all of its water from another system under an agreement to the flow rates specified in the written agreement.

If a report is prepared for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

5.0 System Approvals

The following outlines the current water system Approvals during the 2011 reporting period.

- Certificate of Approval (C. of A.): No. 1811-7MSKDJ: Issued January 5, 2009.
- Municipal Drinking Water License (No. 224-101), Issue Number: 1: Issued July 29, 2011.
- Drinking Water Works Permit (No. 224-201), Issue Number: 1: Issued July 19, 2011.
- Permit To Take Water: Permit Number 7280-6UAMD9: Issued October 5, 2006.

6.0 Failure to Meet Requirements (Non-compliance Issues)

The following is a list of instances when the system failed to meet the requirements of the regulations, the system's approval, MDWL, DWWP or any order that has been issued.

- A. Non-Compliance with Certificate of Approval (C. of A.) #1811-7MSKDJ, Municipal Drinking Water License (MDWL) No. 224-101 and Drinking Water Works Permit (DWWP) No. 224-201.

There were no incidences on non-compliance with the Terms and Conditions of the Certificated of Approval, Municipal Drinking Water License or Drinking Water Works Permit during this reporting period.

- B. Non-Compliance with Ontario Regulation 170/03.

No non-compliance issues took place during this reporting period.

- C. Non-Compliance with Drinking Water System Inspection Report.

As part of the drinking water regulations, the Ministry of the Environment inspects each municipal drinking water system annually. Ministry staff last inspected the Town of Fort Frances Water Treatment Plant and Water Distribution System on December 15 & 16, 2010. No further inspection of the Fort Frances Drinking Water System had been conducted at the time of this report.

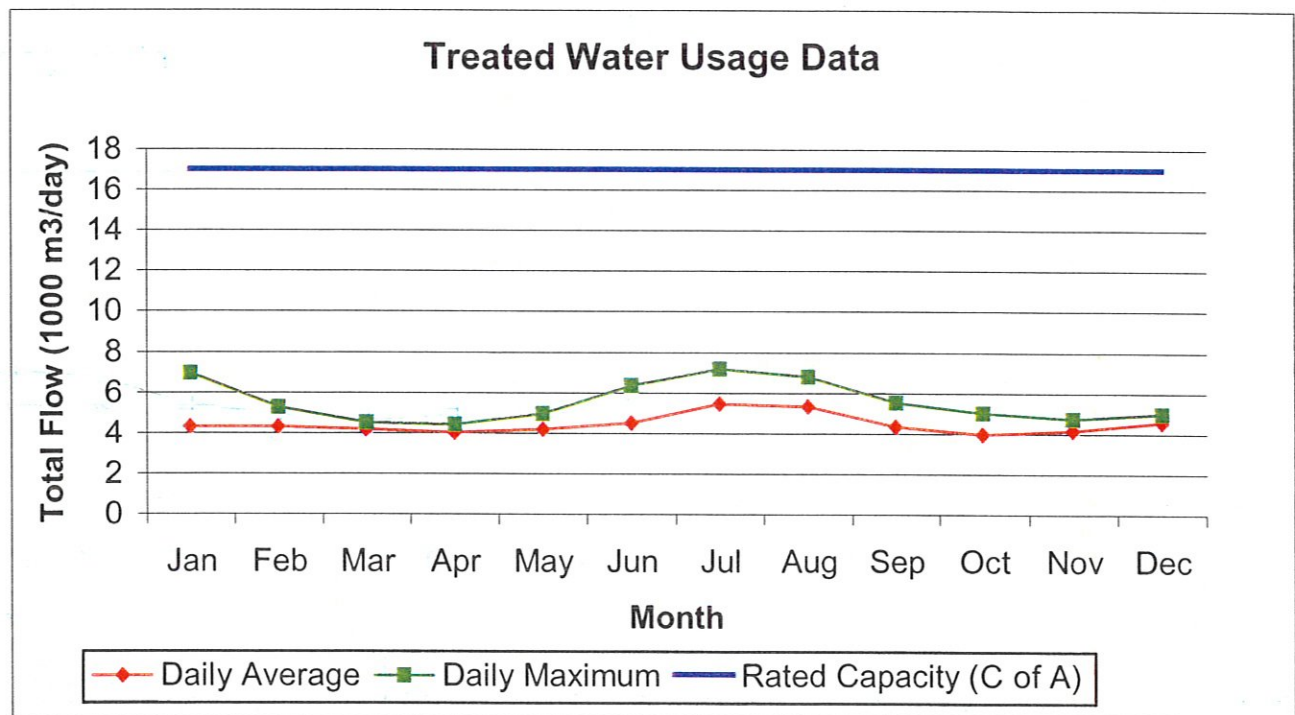
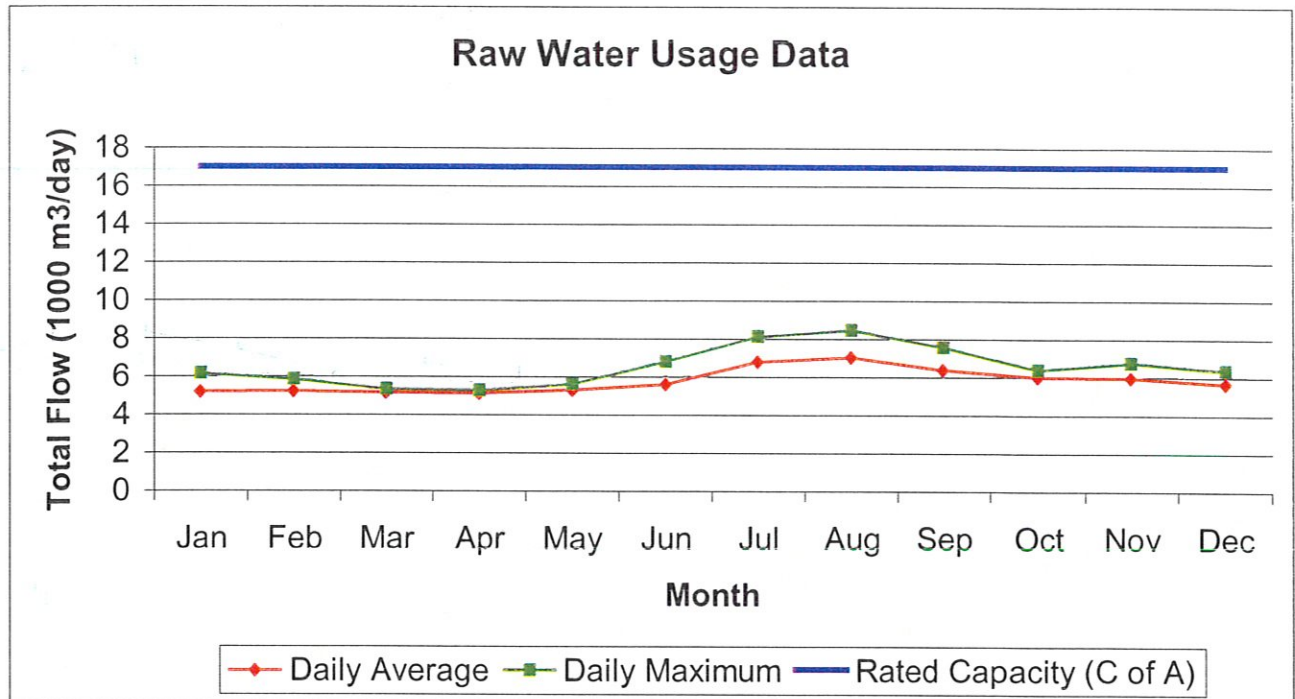
7.0 Quantity and Flow Data (2011)

The following tables and graphs indicate the quantities and flow rates of water taken and produced during the reporting period, including monthly average flows, maximum daily flows and total monthly volumes.

Table 1 - RAW WATER USAGE - 2011						
Month	Total Unit (1000 m ³)	Daily Average Unit (1000 m ³)	Max Day Unit (1000 m ³)		Max Daily Instantaneous Peak Flow Rate (m ³ /min.)	
January	160.41	5.17	6.12	Jan. 12/11	3.65	Jan. 13/11
February	145.95	5.21	5.82	Feb. 26/11	5.11	Feb. 17/11
March	159.66	5.15	5.31	Mar. 12/11	5.64	Mar. 01/11
April	153.48	5.12	5.27	Apr. 02/11	3.63	Apr. 11/11
May	163.90	5.29	5.58	May 24/11	3.80	May 30/11
June	168.08	5.60	6.78	Jun. 23/11	6.54	Jun. 14/11
July	209.75	6.77	8.09	Jul. 20/11	6.43	Jul. 07/11
August	217.59	7.02	8.43	Aug. 06/11	6.27	Aug. 24/11
September	190.98	6.37	7.55	Sept. 11/11	5.86	Sept. 30/11
October	186.50	6.02	6.38	Oct. 08/11	5.40	Oct. 01/11
November	178.68	5.96	6.75	Nov. 11/11	5.47	Nov. 09/11
December	175.76	5.67	6.35	Dec. 01/11	10.00	Dec. 09/11
Yearly Totals	2110.74	5.78	8.43 Aug. 06/11		10.00 Dec. 09/11	

Table 2 - TREATED WATER USAGE - 2011						
Month	Total Unit (1000 m ³)	Daily Average Unit (1000 m ³)	Max Day Unit (1000 m ³)		Max Daily Instantaneous Peak Flow Rate (m ³ /min.)	
January	134.01	4.32	6.94	Jan. 27/11	5.83	Jan. 13/11
February	120.73	4.31	5.26	Feb. 02/11	3.88	Feb. 16/11
March	129.50	4.18	4.49	Mar. 12/11	4.25	Mar. 31/11
April	120.87	4.03	4.40	Apr. 07/11	4.04	Apr. 30/11
May	129.73	4.18	4.95	May 18/11	6.69	May 11/11
June	135.14	4.50	6.35	Jun. 23/11	7.13	Jun. 16/11
July	168.94	5.45	7.15	Jul. 19/11	8.06	Jul. 20/11
August	165.50	5.34	6.77	Aug. 04/11	8.28	Aug. 27/11
September	130.06	4.34	5.52	Sept. 10/11	7.11	Sept. 24/11
October	123.01	3.97	5.00	Oct. 08/11	6.87	Oct. 08/11
November	124.30	4.14	4.73	Nov. 11/11	3.99	Nov. 23/11
December	141.22	4.56	4.98	Dec. 15/11	6.85	Dec. 25/11
Yearly Totals	1623.01	4.45	7.15 Jul. 19/11		8.28 Aug. 27/11	

Comparison of Flow Summary to System's Approval & Permit



The **Permit to Take Water #7280-6UAMD9** (Issued October 5, 2006) allows the municipality to draw 17,000 m³/day at a maximum flow rate of 12,000 L/min. from its raw water source. As indicated from the charts provided, the maximum daily flow of raw water in 2011 is 8,430 m³/day recorded on August 6, 2011, which is 46.8% of the maximum allowable flow rate.

The maximum instantaneous peak flow rate for **Raw** water is 10.00 m³ /min. (10,000 L/min.) which was recorded on December 9, 2011 due to testing of the newly installed variable speed drive (40hp) low lift pump/motor, which is 58.8% of the maximum allowable flow rate.

In accordance with the Certificate of Approval #1811-7MSKDJ and Municipal Drinking Water License No. 224-101, the Town of Fort Frances Drinking Water System shall not be operated to exceed the rated capacity of 17,000 m³/day on any calendar day, conveyed from the treatment system to the distribution system. The highest single day flow of 7,150 m³/day was recorded on July 19, 2011, which is 42.1% of the plant's maximum capacity.

The maximum instantaneous peak flow rate for **Treated** Water is 8.28 m³/min. (8,280 L/min.) recorded on August 27, 2011 due to a water main break, which is 48.7% of the plant's maximum capacity.

There were no instances of treated water flows exceeding the rated capacity as stated in the Certificate of Approval or Municipal Drinking Water Licence during the reporting period of January 1, 2011 to December 31, 2011.

Ministry of the Environment

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March 14, 2012

The Corporation of the Town of Fort Frances
PO Box 38
320 Portage Avenue
Fort Frances, ON P9A 3P9

Attn: Mr. Doug Brown
Operations and Facilities Manager

**Re: Drinking Water Inspection Program
2011-2012 Inspection Report for the Fort Frances Drinking Water System
(220000978)
Inspection Number: 1-9B17H**

Dear Mr. Brown,

Enclosed is the 2011-2012 municipal drinking water system inspection report for the Fort Frances Drinking Water System. The announced, focused inspection was conducted on January 30-31, 2012, with water treatment plant operators. Their time and cooperation were appreciated.

Three best management practice issues were noted during the inspection. Best management practices (BMP) for optimizing operations of the treatment and distribution systems are summarized on page 13 of the report. "Recommended Actions" convey information that the Town of Fort Frances should consider implementing in order to improve operations of the drinking water system. Please note that items which appear as recommended actions do not, in themselves, constitute violations.

In order to measure individual inspection results, the Ministry has established an inspection compliance risk framework based on the principles of the Inspection, Investigation & Enforcement (II&E) Secretariat and advice of internal/external risk experts. The Inspection Summary Rating Record (IRR), included as Appendix E in the report, provides the Ministry, the system owner and the local Public Health Units with a summarized quantitative measure of the drinking water systems' annual inspection and regulated water quality testing performance. Please note the attached IRR methodology memorandum describing how the risk rating model has improved to better reflect the health-related and administrative non-compliance issues found in the inspection reports. IRR ratings are published (for the previous inspection year) in the Ministry's Chief Drinking Water Inspector's Annual Report. If you have any questions or concerns regarding the rating, please contact Glenn Stronks, Acting Drinking Water Program Supervisor, at (807)475-1689.

If you have any questions concerning the contents of this inspection report; or if you would like to discuss Ontario's drinking water legislation, please contact me at (807)468-2758.

Regards,



Aaron Causyn
A/Drinking Water Inspector
Ministry of the Environment
Northern Region - Kenora Area Office

AC/ac

- cc. The Town of Fort Frances
PO Box 38
320 Portage Avenue
Fort Frances, ON P9A 3P9
Attn: Doug Herr, Environment and Facilities Superintendant, Town of Fort Frances
- cc. The Town of Fort Frances
PO Box 38
320 Portage Avenue
Fort Frances, ON P9A 3P9
Attn: Randy White, Fort Frances Senior Water Treatment Plant Operator
- cc. The Town of Fort Frances
PO Box 38
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Attn: Brad Webb, Fort Frances Senior Water Treatment Plant Operator
- cc. Northwestern Health Unit
21 Wolsley Street
Kenora, ON P9N 3W7
Attn: Jennifer McKibbon, Program Manager
- cc. Ministry of Natural Resources
922 Scott Street
Fort Frances, ON P9A 1J4
Attention: Greg Chapman, District Manager
- cc. Ministry of the Environment
435 James Street South
Suite 331
Thunder Bay, ON P7E 6S7
Attention: Glenn Stronks, A/Drinking Water Program Supervisor
- cc. Kenora Area Office File



Ministry of the Environment

FORT FRANCES DRINKING WATER SYSTEM

Drinking Water System Inspection Report

DWS Number:	220000978
Inspection Number:	1-9B17H
Date of Inspection:	Jan 31, 2012
Inspected By:	Aaron Causyn

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OWNER INFORMATION:

Company Name: FORT FRANCES, THE CORPORATION OF THE TOWN OF
Street Number: 320 **Unit Identifier:**
Street Name: PORTAGE Ave
City: FORT FRANCES
Province: ON **Postal Code:** P9A 3P9

INSPECTION DETAILS:

DWS Name: FORT FRANCES DRINKING WATER SYSTEM
DWS Address: 901 COLONIZATION RD E FORT FRANCES ON P9A 3P9
County/District: Fort Frances
MOE District/Area Office: Kenora Area Office
Health Unit: NORTHWESTERN HEALTH UNIT
Conservation Authority: N/A
MNR Office: N/A
DWS Category: Large Municipal Residential
DWS Number: 220000978
Inspection Type: Announced
Inspection Number: 1-9B17H
Date of Inspection: Jan 31, 2012
Date of Previous Inspection:

DRINKING WATER SYSTEM COMPONENTS DESCRIPTION

Site (Name): SOURCE
Type: Source **Sub Type:** Surface
Comments:

Raw water supply for the Fort Frances municipal drinking water system is taken from the Rainy River at the outflow of Rainy Lake. The source water is generally of good quality, however, elevated levels of colour, turbidity, and dissolved organic carbon are common.

Raw water is gravity-fed into a raw-water well located within the plant. It is then drawn through a 630 mm diameter by 190 m long intake line that is equipped at the terminal end with a stainless steel screen. Coarse material is screened at the initial intake point and again through a set of screens within the raw water well.

The taking of water from the Rainy River for this municipal water supply is authorized by Permit To Take Water No. 7280-6AUMD9. A copy of the permit can be found in Appendix C of this report.

Site (Name): TREATED WATER
Type: Treated Water POE **Sub Type:** Pumphouse

Comments:

Three (3) vertical turbine low lift pumps deliver raw water through a common header equipped with alum and soda ash injection points, an in-line mixer, and a flow meter. Alum is added at all times when water is being made; soda ash is added only when needed based on the pH of the raw water supply. Polymer is then injected as the water passes into two solids contact clarifiers. The clarifiers are equipped with blow-down devices to remove excess sludge, which is discharged to the municipal sanitary sewer. Clarified water passes through one of four dual media (anthracite coal/sand) filters. Each filter effluent line is monitored for pH and turbidity. Water is disinfected in a baffled contact chamber by the addition of chlorine gas. Soda ash, used for pH adjustment is added to the clearwell, as well as hydrofluosilicic acid. Treated water flows are measured using an in-line flow meter.

Four high lift pumps pressurize treated water as it is directed to the distribution system. Distribution system pressure is also maintained by the elevated storage tank located in the southwest portion of Fort Frances.

A complete description of the treatment system can be found in Drinking Water Works Permit No. 224-201 and former Certificate of Approval No. 1811-7MSKDJ located in Appendix B of this report.

Site (Name): DISTRIBUTION (WATER INSPECTION)

Type: Other

Sub Type: Other

Comments:

The Fort Frances distribution system services a population of approximately 8,000 in Town, and another 300 people in the neighbouring community of Couchiching First Nation. The distribution system is comprised of ductile steel, cast iron, and PVC piping. The original system was installed in the early 1900's. As older pipes are replaced, PVC piping comprises an increasing proportion of the works. Some sections of the distribution system have been looped at the recommendation of a consulting engineer, however several dead ends still remain. The distribution system is 69.2 kilometres in length and contains 394 fire hydrants.

A 4,500 cubic meter elevated storage tower is located in the southwest portion of the town. A telemetry system is used to maintain water levels in the tower. A paced-to-flow chlorination system injects liquid calcium hypochlorite at the outflow from the storage tower to maintain adequate chlorine residuals in the distribution system.

INSPECTION SUMMARY

INTRODUCTION

- * The primary focus of this inspection is to confirm compliance with Ministry of the Environment legislation and authorizing documents such as Orders and Certificates of Approval, as well as evaluating conformance with Ministry drinking water related policies and guidelines during the inspection period.

The Ministry is implementing a rigorous and comprehensive approach in the inspection of drinking water systems that keys on the source, treatment and distribution components of the system as well as management practices.

This drinking water system is subject to the legislative requirements of the Safe Drinking Water Act, 2002 (SDWA) and regulations made therein, including Ontario Regulation 170/03, "Drinking Water Systems" (O.Reg.170/03). This inspection has been conducted pursuant to Section 81 of the SDWA.

This report is based on a "focused" inspection of your system. Although the inspection involved fewer activities than those normally undertaken by a detailed inspection, it contained most of the elements required to assess key compliance issues.

Your system was chosen for a focused inspection during this inspection cycle because inspection findings over the past three years were such that the number of violations were minimal or non existent, there were few or no orders issued to you that were of significance in the maintenance of water potability and there were no deficiencies as defined in O. Reg. 172/03. The undertaking of a focused inspection at your drinking water system during this year's inspection cycle does not ensure that a similar type of inspection will be conducted at any point in the future.

The inspection review period discussed herein refers to the period of time between the dates of the previous inspection, conducted on December 14 & 15, 2010, and the current inspection which commenced on January 30, 2012.

SOURCE

- * Measures were in place to protect the water source in accordance with a Permit and Licence or Approval issued under Part V of the SDWA.

Currently there is no requirement in a permit, licence or approval that requires the Fort Frances WTP to protect the water source; however, the Town of Fort Frances has participated in a Source Protection Screening Survey as part of a Ministry of the Environment (MOE) based funding program. The report was finalized on October 20, 2006 and published in January of 2007. A copy has been directed to the Manager of Source Protection Planning, Drinking Water Program Management Branch, of the MOE.

The study identified several potential sources of contamination in the designated "area of interest" for the Fort Frances drinking water intake. The potential sources of contamination include: three fuel storage facilities, an active railway line, a railway station and an associated tie storage area. No new sources of pollution have been identified since the last MOE inspection. A Source Water Protection Plan has not been developed for the Town of Fort Frances.

CAPACITY ASSESSMENT

CAPACITY ASSESSMENT

- * **There was sufficient monitoring of flow as required by the Permit and Licence or Approval issued under Part V of the SDWA**

The Fort Frances Water Treatment Plant (WTP) is equipped with one raw water, one treated water, and one backwash water flow meter.

- * **The owner was in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the Permit and Licence or Approval issued under Part V of the SDWA.**

The rated capacity for the Fort Frances WTP is 17,000 cubic meters per day. The system may be operated above the rated capacity where necessary for fighting fires or maintenance of the drinking water system. The highest daily flow observed during the inspection review period was 7,150 cubic meters on July 19, 2011. This value represents 42% of the rated capacity of the plant.

TREATMENT PROCESSES

- * **The owner had ensured that all equipment was installed in accordance with the Permit and Licence or Approval issued under Part V of the SDWA.**

It was noted during the 2010 MOE inspection that the chemical contact chamber was not described in the Certificate of Approval and a recommendation was made to include this equipment into the newly issued Drinking Water Works Permit.

A comparison of the installed treatment works at the Fort Frances WTP with the description of the works in the Drinking Water Works Permit found that the treatment equipment was installed as described, including the chemical contact chamber.

- * **Records indicated that the treatment equipment was operated in a manner that achieved the design capabilities required under Ontario Regulation 170/03 or a Permit, Licence or Approval issued under Part V of the SDWA at all times that water was being supplied to consumers.**

In accordance with O. Reg. 170/03, Schedule 1, Schedule 1-2, Subsection (2), surface water systems must have chemically assisted filtration and disinfection and achieve an overall performance of at least a 2-log (99%) removal/inactivation of *Cryptosporidium* oocysts, a 3-log (99.9%) removal/inactivation of *Giardia* cysts, and a 4-log (99.99%) removal/inactivation of viruses by the time the water is delivered to the first consumer.

The Fort Frances WTP achieves the above performance criteria using conventional treatment consisting of coagulation, flocculation, sedimentation filtration, and chlorine disinfection. Records reviewed during the inspection confirmed that the system was providing the required level of treatment throughout the inspection review period. Trends printed by the chart recorder and the SCADA system were reviewed to ensure that minimum chlorine residuals were met continuously. Free chlorine residual that was measured by continuous analyzers at the point of entry to the distribution system ranged from 1.19 mg/L to 2.26 mg/L during the inspection period, according to the plant summary data. Daily turbidity records were reviewed to ensure that the filtered water turbidity was less than or equal to 0.3 NTU in 95% of the measurements taken each month.

- * **Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection purposes was operated so that at all times and all locations in the distribution system the chlorine residual was never less than 0.05 mg/l free or 0.25 mg/l combined.**

During the inspection review period, the lowest recorded free chlorine residual in the distribution system was 0.19 mg/L on August 10, 2011. This sample was taken from the water tower which is equipped with a flow-paced chlorine injection system used to maintain adequate secondary disinfection levels.

TREATMENT PROCESSES

- * The Operator-in-Charge had ensured that all equipment used in the processes was monitored, inspected, and evaluated.

There is a schedule kept in the maintenance manual for daily, weekly, monthly, quarterly, and annual maintenance checks. If there is an equipment failure the SCADA system will alarm. The Town of Fort Frances has recently implemented an "Enhanced Preventative Maintenance Program" that further ensures the plant's equipment will remain in good working order.

DISTRIBUTION SYSTEM

- * Backflow preventers were installed at each service connection to Industrial/Commercial/Institutional and agricultural process that were considered high hazard facilities.

The AbiBow pulp and paper mill is the only major industry in Fort Frances and several backflow preventers are installed at the mill.

The Town of Fort Frances has a by-law in place which requires new businesses and industries to install backflow preventers and new backflow preventers are continually being installed. The Town of Fort Frances also has qualified staff who are able to test backflow preventers and replace them as required.

OPERATIONS MANUALS

- * The operations and maintenance manuals contained plans, drawings and process descriptions sufficient for the safe and efficient operation of the system.

The maintenance manuals contained all required information and are readily available in the WTP office. The 2010 MOE inspection report indicated that sections of the maintenance manual were out of date and should be updated. A review of the manual revealed that it had been recently updated.

- * The operations and maintenance manuals did meet the requirements of the Permit and Licence or Approval issued under Part V of the SDWA.

LOGBOOKS

- * Records or other record keeping mechanisms confirmed that operational testing not performed by continuous monitoring equipment was being done by a certified operator, water quality analyst, or person who suffices the requirements of O. Reg. 170/03 7-5.

Daily logs confirmed that operational checks and testing are performed by certified operators.

CONTINGENCY/EMERGENCY PLANNING

- * The contingency/emergency plan was available for reference by all staff as required by the Permit and Licence or Approval issued under Part V of the SDWA.

The contingency plan is available in the water treatment plant office.

SECURITY

SECURITY

- * All storage facilities were completely covered and secure.

Treated water is stored in an underground clearwell located beneath the water treatment facility and in an elevated water tower in the distribution system. The clearwell can be accessed through elevated hatches in the floor on the main level of the treatment plant.

The water tower is in a secure area, surrounded on all sides by a fence with a lockable gate. Access to the interior of the tower is restricted by two doors that are locked at all times when system personnel are absent. "No Trespassing" signs have been posted at both locations.

- * Air vents and overflows associated with reservoirs and elevated storage structures were equipped with screens.

The clearwell is vented to the inside of the water treatment plant by three inverted "J" pipes that extend from the clearwell through the main floor of the plant. Operators advised that ventilation at the top of water tower is screened as well.

- * The owner had provided security measures to protect components of the drinking-water system.

Security measures provided at the WTP include:

- no trespassing signs
- alarm system
- locked doors when employees are not present
- motion sensor alert when someone enters/exits the plant

Security measures provided at the water tower include:

- no trespassing signs
- fenced in area that is gated and locked

CERTIFICATION AND TRAINING

- * The overall responsible operator had been designated for each subsystem.

Several operators are qualified to act as Overall Responsible Operator (ORO) for both the water treatment and water distribution subsystems and their required licences are current. Records were being maintained and document which operator is the designated ORO on any given day.

- * Operators in charge had been designated for all subsystems which comprised the drinking-water system.

Operators In Charge have been designated for this system and each possess valid licence's.

- * Only certified operators made adjustments to the treatment equipment.

WATER QUALITY MONITORING

- * All microbiological water quality monitoring requirements for distribution samples were being met.

As required by O.Reg 170/03, Schedule 10, Section 10-2, a minimum of 16 bacteriological samples must be collected from the distribution system every month with at least one of the samples being collected each week. All samples must be tested for E. coli and total coliform bacteria and at least four samples collected every month must be tested for HPC bacteria. These requirements were satisfied during the inspection review period.

WATER QUALITY MONITORING

- * **All microbiological water quality monitoring requirements for treated samples were being met.**

As required by O. Reg. 170/03, Schedule 10, Section 10-3, at least one treated water sample must be collected every week and tested for E. coli and total coliform bacteria. This requirement was met throughout the inspection review period.

- * **All inorganic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.**

As required by O. Reg. 170/03, Schedule 13, Section 13-2, Subsection (1)(a), sampling for inorganic parameters is required to be conducted every 12 months. Sampling was required to be conducted within 30 days of March 8, 2011 and was collected on March 14, 2011.

- * **All organic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.**

As required by O. Reg. 170/03, Schedule 13, Section 13-4, Subsection (1)(a), sampling for organic parameters is required to be conducted every 12 months. Sampling was required to be conducted within 30 days of March 8, 2011 and was collected on March 14, 2011.

- * **All trihalomethanes water quality monitoring requirements prescribed by legislation were conducted within the required frequency.**

As required by O. Reg. 170/03, Schedule 13, Section 13-6, samples are to be taken in the distribution system at a location that has an elevated potential for the formation of trihalomethanes and tested every three months. During the inspection review period, trihalomethane sampling was conducted at the water tower (post re-chlorination) on March 14, May 25, September 6, and December 6, 2011.

- * **All nitrate/nitrite water quality monitoring requirements prescribed by legislation were conducted within the required frequency for the DWS.**

As required by O. Reg. 170/03, Schedule 13, Section 13-7, samples must be collected every three (3) months from the treated water supply and tested for nitrate and nitrite. During the inspection review period, nitrate and nitrite sampling was conducted on March 14, May 25, September 6, and December 6, 2011.

- * **All sodium water quality monitoring requirements prescribed by legislation were conducted within the required frequency.**

As required by O. Reg. 170/03, Schedule 13, Section 13-8, sodium is required to be sampled every 60 months. Records reviewed indicated that sodium was last sampled on March 8, 2010. Sodium is required to be re-sampled in March, 2015.

- * **All water quality monitoring requirements imposed by the Permit and Licence or Approval issued under Part V of the SDWA were being met.**

Wastewater from the Fort Frances WTP is directly discharged into the Rainy River. Municipal Drinking Water Licence 224-101, Schedule C, Condition 4.2, requires that a composite sample be taken quarterly at the wastewater discharge point and tested for suspended solids. Composite samples were taken on March 14, May 26, September 6 and December 6, 2011. Total suspended solid limits have not been established in the Licence.

- * **All sampling requirements for lead prescribed by schedule 15.1 of O. Reg. 170/03 were being met.**

After completing the second round of standard lead sampling in 2009, the Town of Fort Frances successfully qualified for reduced lead sampling. Reduced sampling under O. Reg. 170/03 requires that lead samples be taken twice annually (between December 15 and April 15 and between June 15 and October 15) in every third 12-month period after samples were last taken. Based on a population of 8,000 people, the Town of Fort Frances is required to take samples from 20 private residential plumbing systems, 2 non-residential plumbing systems and 3 distribution system locations.

WATER QUALITY MONITORING

The Town completed their first round of reduced sampling in 2010. A review of the lead sampling results during the 2011 MOE inspection revealed that 13% of the samples taken in the 2010 summer/fall round of sampling exceeded the Ontario Drinking Water Quality Standard for lead (10ug/L). These results required that the Town return to standard sampling; however, since the Municipality had a record of good sample results in the past, they applied to the MOE's Approvals Branch to remain at the reduced lead sampling schedule. On January 12, 2011, the Town of Fort Frances was issued Certificate of Approval No. PB220000978RR-01, which granted relief from standard lead sampling requirements and allowed the Town to remain on a reduced lead sampling schedule.

The next round of lead sampling is required to be conducted in 2013. At that time, should the Town of Fort Frances exceed the lead standard in more than 10% of their samples, they will be required to return to standard lead sampling in accordance with O. Reg. 170/03, Schedule 15, Section 15.1-5, Subsection (6).

- * **All continuous monitoring equipment utilized for sampling and testing required by O.Reg.170/03, or approval or order, were equipped with alarms or shut-off mechanisms that satisfied the standards described in Schedule 6.**

Water treatment plant operators have determined that the minimum amount of chlorine required to achieve CT in a "worst-case" scenario is 0.85 mg/L. The post-clearwell continuous chlorine analyzer has a low level alarm set point of 1.10 mg/L. The high turbidity alarm on each of the turbidimeters monitoring filter effluent is set at 0.3 NTU. If at anytime, a filter effluent exceeds 0.3 NTU for 10 minutes, the filter will automatically shut down. Should an alarm be activated, the auto dialer system will cycle through and call pre-programmed phone numbers until an operator is contacted.

- * **All continuous analysers were calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation.**

The chlorine analyzer and turbidimeters are calibrated twice annually. Records confirmed that the most recent calibrations occurred on April 13 and August 10, 2011. The chlorine analyzer and turbidimeters were within the calibration standards of 0.05 mg/L for free chlorine and 0.1 NTU for turbidity.

- * **Operators were examining continuous monitoring test results and they were examining the results within 72 hours of the test.**

Chlorine residual and turbidity trends are examined by an operator on a daily basis as part of their morning routine.

- * **Primary disinfection chlorine monitoring was being conducted at a location approved by Permit, Licence or Approval issued under Part V of the SDWA, or at/near a location where the intended CT had just been achieved.**

The chlorine residual for primary disinfection is monitored by a continuous analyzer at the point where the water exits the plant to the distribution system.

- * **The secondary disinfectant residual was measured as required for the distribution system.**

A review of the distribution log books confirmed that secondary disinfection (free chlorine) is being measured and documented daily at the water tower.

- * **Records confirmed that chlorine residual tests were being conducted at the same time and at the same location that microbiological samples were obtained.**

For the inspection review period, a free chlorine residual measurement was taken at the same time and same location as the microbiological samples, verified on the chain of custody submission forms.

WATER QUALITY MONITORING

- * Continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements was performing tests for the parameters with at least the minimum frequency specified in the Table in Schedule 6 of O. Reg. 170/03.

- * All continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements was recording data with the prescribed format.
 Time, date and location are recorded from the continuous analyzers.

- * Continuous monitoring of each filter effluent line was being performed for turbidity.
 All four filters are equipped with turbidity analyzers.

- * Testing for parameters required by legislation, Order, or a Permit, Licence or Approval issued under Part V of the SDWA was conducted by laboratories in Ontario licenced to test for that parameter, or by eligible laboratories outside Ontario.
 ALS Group continues to conduct all testing for the Fort Frances drinking water system.

WATER QUALITY ASSESSMENT

- * The inspector collected audit samples during the inspection.

MOE audit drinking water samples were collected by Drinking Water Inspector, Aaron Causyn, on January 30-31, 2012. Microbiological and chemical sample results are included in Appendix D of this inspection report and are discussed here.

Microbiological samples were collected from the water treatment plant and three locations in the distribution system. Total coliform and E. coli bacteria were not detected in any of the water samples taken.

Free chlorine residuals were taken at the same time and from the same location as bacteriological samples. Test results are listed below:

Location	Time	Free Chlorine Result
Fort Frances WTP	12:40	1.71 mg/L
Nanicoast School	13:05	1.05 mg/L
Hospital	13:20	1.28 mg/L
Fort Frances Water Tower	14:00	0.68 mg/L

Lead was measured in a drinking water sample collected from the water tower. The sample contained 0 ug/L of lead which is less than the drinking water standard of 10.0 ug/L. Volatile organic compounds, including trihalomethanes (THM's) were measured in samples collected from the water tower which yielded a THM concentration of 83 ug/L.

- * Records show that all water sample results taken during the review period met the Ontario Drinking Water Quality Standards (O.Reg. 169/03).

REPORTING & CORRECTIVE ACTIONS

REPORTING & CORRECTIVE ACTIONS

- * Corrective actions (as per Schedule 17) were taken to address adverse conditions, including any other steps that were directed by the Medical Officer of Health.

On July 8, 2011, operators reported the presence of total coliforms in one of their distribution samples. Operators took all necessary actions as required by O. Reg 170/03, Schedule 17 and as directed by the Northwestern Health Unit. Actions taken included flushing of watermain and re-sampling.

- * All required notifications of adverse water quality incidents were immediately provided as per O.Reg. 170/03 16-6.

- * Where required continuous monitoring equipment used for the monitoring of chlorine residual and/or turbidity triggered an alarm or an automatic shut-off, a qualified person responded in a timely manner and took appropriate actions.

During the inspection review period, alarm response times averaged 10 minutes and did not exceed 30 minutes.

OTHER INSPECTION FINDINGS

- * The following issues were also noted during the inspection:

1. Residential water metering is not occurring in the Town of Fort Frances.
2. Monthly summary sheets do not include daily minimum and maximum chlorine levels or maximum turbidity levels.
3. Currently, the Fort Frances WTP does not possess a back-up generator.

NON-COMPLIANCE WITH REGULATORY REQUIREMENTS AND ACTIONS REQUIRED

This section provides a summary of all non-compliance with regulatory requirements identified during the inspection period, as well as actions required to address these issues. Further details pertaining to these items can be found in the body of the inspection report.

Not Applicable

SUMMARY OF BEST PRACTICE ISSUES AND RECOMMENDATIONS

This section provides a summary of all best practice issues identified during the inspection period. Details pertaining to these items can be found in the body of the inspection report. Best Management Practices are recommendations and not mandatory requirements, but may lead to safe drinking water for the consumer.

In the interest of continuous improvement in the interim, it is recommended that owners and operators develop an awareness of the following practices and consider measures to implement them so that all drinking water systems continuously improve their processes.

1. The following issues were also noted during the inspection:

1. Residential water metering is not occurring in the Town of Fort Frances.
2. Monthly summary sheets do not include daily minimum and maximum chlorine levels or maximum turbidity levels.
3. Currently, the Fort Frances WTP does not possess a back-up generator.

Recommendation:

1. Metering all sources and uses of treated water allows the system operators to account for water losses in the system. It is recommended that the Town of Fort Frances install water meters at all service connections, including residences.
2. Since the inspection, operators have made changes to their monthly summary sheets to include daily minimum and maximum chlorine levels. It is also recommended that operators include maximum turbidity levels on their monthly summary sheets.
3. Currently, the Fort Frances WTP possess a back-up pump for the distribution of treated water during power outages. Power outages are rare at the WTP since it is on the same power grid as the local paper mill; however, it is recommended that the Town of Fort Frances install a back-up generator at the WTP which will allow for the production of treated water and continued operation of important electrical systems (i.e. SCADA).

SIGNATURES

Inspected By:

Aaron Causyn

Signature: (Provincial Officer):



Reviewed & Approved By:

Glenn Stronks

Signature: (Supervisor):



Review & Approval Date:

March 14, 2012

Note: This inspection does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they apply or may apply to this facility. It is, and remains, the responsibility of the owner and/or operating authority to ensure compliance with all applicable legislative and regulatory requirements.



DWS Components Description

DRINKING WATER SYSTEM COMPONENTS DESCRIPTION

Name: SOURCE
 Station Id #: 2200009787006
 Type: Source
 Sub Type: Surface

Street Number: Street Name:

Lot:		Concession:	
Part:		Reference Plan:	
Map Datum:	NAD 83		
Geo-Referencing Method:	GPS		
Accuracy Estimate:	1-10 Meters (Good Quality GPS)		
Location Reference:	Near Object	UTM Zone:	15
UTM Northing:	5384622	UTM Easting:	473118
Latitude:		Longitude:	

Name: TREATED WATER
 Station Id #: 2200009787408
 Type: Treated Water POE
 Sub Type: Pumphouse

Street Number: Street Name:

Lot:		Concession:	
Part:		Reference Plan:	
Map Datum:	NAD 83		
Geo-Referencing Method:	GPS		
Accuracy Estimate:	1-10 Meters (Good Quality GPS)		
Location Reference:	Near Object	UTM Zone:	15
UTM Northing:	5384712	UTM Easting:	472933
Latitude:		Longitude:	

Name: DISTRIBUTION (WATER INSPECTION)
 Station Id #: 2200009788011
 Type: Other
 Sub Type: Other

Street Number: Street Name:

Lot:		Concession:	
Part:		Reference Plan:	

Map Datum:	NAD 83		
Geo-Referencing Method:	GPS		
Accuracy Estimate:	1-10 Meters (Good Quality GPS)		
Location Reference:	Near Object	UTM Zone:	15
UTM Northing:	5383606	UTM Easting:	468495
Latitude:		Longitude:	



**DWS Drinking Water Works Permit, Municipal Drinking Water License &
Former Certificate of Approval**



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.



DRINKING WATER WORKS PERMIT

Permit Number: 224-201

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 drinking water works permit 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 drinking water works permit includes the following:

Schedule	Description
Schedule A	Drinking Water System Description
Schedule B	General
Schedule C	All documents issued as Schedule C to this drinking water works permit which authorize alterations to the drinking water system

DATED at TORONTO this 19th day of July, 2011

Signature

A handwritten signature in black ink that reads "A. Ahmed". The signature is written in a cursive style and is underlined with a single horizontal stroke.

Aziz Ahmed, P.Eng.
Director
Part V, *Safe Drinking Water Act*, 2002

Schedule A: Drinking Water System Description

System Owner	The Corporation of the Town of Fort Frances
Permit Number	224-201
Drinking Water System Name	Fort Frances Drinking Water System
Schedule A Issue Date	July 19th, 2011

1.0 System Description

- 1.1 The following is a summary description of the works comprising the above drinking water system:

Overview

The **Fort Frances Drinking Water System** consists of a drinking water treatment plant, a two-celled storage ground reservoir, an elevated storage tank and approximately 6.0 kilometers of trunk watermain and 70.4 kilometers of distribution watermain.

The Fort Frances Water Treatment Plant is a conventional surface water treatment plant. Raw water is drawn from Rainy River through low lift pumps. Liquid alum is added to the raw water ahead of the in-line mixer for coagulation while polyelectrolytes are added to the solids contact tanks for assisting flocculation. The water then flows to the two solids contact clarifiers units, operating in parallel, where flocculation and sedimentation occurs. The settled floc is disposed of to the sanitary sewer. Powdered activated carbon, soda ash, and hydrofluosilicic are also added ahead of in-line mixer, in solids contact clarifiers, and/or in chemical contact chambers, as needed, for taste and odour and pH adjustment. The settled effluent is gravity fed to four dual media gravity sand filters. The filters are equipped with a backwash pump. The filtered water flows to a two-celled, ground storage reservoir through a chemical contact chamber. Chlorine and fluoride are added in the chemical contact chamber. The treated water then flows to the high lift pump wells where it is pumped to the distribution system. Chlorine residual and fluoride are monitored with continuous on-line analyzers just prior to the water leaving the plant. The Fort Frances Drinking Water System also includes an elevated water storage tank within the distribution system equipped with re-chlorination facilities.

Fort Frances Water Treatment Plant

Treatment Plant

Location and General Description

Name	Fort Frances Water Treatment Plant housed in an approximately 46 m by 32 m masonry structure
Street Address	901 Colonization Road East
UTM Coordinates	NAD 83: Zone 15 +/- 10m: Easting 472938: Northing 5384735
System Type	Treatment, storage and distribution
Notes	Houses screen chamber, low and high lift pumps, solids contact clarifiers, filters, chemical storage and feeding equipment, instrumentation and control, an administration area comprising of an office, lunchroom, washrooms and control room/laboratory

Surface Water Supply

Raw Water Intake

Description	Approximately 190 m of 630 mm diameter intake pipe located in the Rainy River including an upturned elbow intake structure with a coarse bar screen
Source	Rainy River
Location	Approximately 190 m east of the Water Treatment Plant in Rainy River
Notes	

Low Lift Works

Screens

Description	A raw water screen chamber equipped with two sets of screens
Dimensions	Each screen 2.25 m ² in area
Notes	Screen chamber located ahead of raw water pumping well

Low Lift Pumps

Description	Three (3) vertical turbine low lift pumps
Capacity	<ul style="list-style-type: none"> - Two (2) pumps rated at 100 L/s against a total dynamic head (TDH) of 14 m - One (1) VFD pump capable of providing flows in the range of 40 to 150 L/s against a total dynamic head (TDH) of 14m
Metering Device	Equipped with one metering device for measuring raw water flows
Notes	

Coagulation

In-Line Mixer

Description	An in-line mixer located downstream of the low lift pumps within the influent (raw water) line to facilitate the dosing of liquid alum, activated carbon slurry and soda ash solution
Dimensions	450 mm diameter
Notes	Located between low lift pumps and solids contact clarifiers

Flocculation/Clarification

Flocculation/Clarification Tanks - Solids Contact Clarifiers

Description	Two (2) solids contact clarifier units, operating in parallel equipped with facilities for polymer dosing
Dimensions	Each solids contact clarifier approximately 13.7 m x 13.7 m x 3.75 m side water depth (s.w.d.)
Notes	The settled floc is discharged to sanitary sewer

Filtration

Filters

Description	Four (4) dual media, gravity filters (sand and anthracite)
Dimensions	Each filter approximately 4.9 m x 4.9 m providing a total filtration area of 96 m ²
Equipment	One (1) vertical turbine backwash pump capable of delivering 290.3 L/s at 14 m TDH at one condition point and 94.7 L/s at another condition point
	A turbidimeter on each filter
	All filters equipped with an underdrain and air scouring system
Notes	

Instrumentation and Control

SCADA System

Description	A computerized control system monitoring the critical components of the process including raw and finished water quantity and quality
Equipment	Four (4) turbidimeters for continuously monitoring filter effluent
	One (1) laboratory model turbidimeter for manual testing
	One (1) continuous chlorine/fluoride analyzer monitoring free chlorine and fluoride residual in the discharge pipe of the high lift pumps
	Three (3) flowmeters to measure flow at various locations
Notes	Status of the elevated storage tank by telemetry, receiving alarms and controlling the operation

Waste Residual Management

Outfall Pipe

Description	Filter backwash disposal
Dimensions	Approximately 60 m of 800 mm diameter pipe
	One (1) vertical turbine backwash pump capable of delivering 290.3 L/s at 14 m TDH at one condition point and 94.7 L/s at another condition point
Notes	Filter backwash water returned to Rainy River through outfall line

Sludge Disposal

Description	Solids contact clarifier settled sludge disposal
Equipment	Settled sludge discharged through a 150 mm pipe using pneumatic blow down valves - gravity system, no pumps utilized
Notes	Solids contact clarifier settled sludge discharged to the sanitary sewer system

High Lift Works

High Lift Pumps

Description	Four (4) vertical turbine high lift pumps and one (1) diesel engine driven vertical turbine fire pump
Capacity	Two (2) vertical turbine pumps rated at 63.1 L/s. at TDH of 55m
	One (1) vertical turbine pump rated at 94.7 L/s at TDH of 55m
	One (1) vertical turbine pump rated at 126.2 L/s at a TDH of 55m
	One (1) fire pump rated at 220 L/s at a TDH of 53m
Notes	The fire pump also serves as standby for the high lift pumps and includes a metering device for measuring finished water flows

On-Site Storage

Chemical Contact Chamber

Description	One (1) chemical contact chamber to provide chlorine contact time
Volume	240 m ³
Notes	

Clearwell/Reservoir

Description	Two-celled, ground storage reservoir
Capacity	Cell No. 1 = 2,565 m ³ Cell No. 2 = 1,465 m ³ Total = 4,030 m ³
Notes	The two cells receive filtered water after passing through chemical contact chamber

Chemical Addition

Alum

Description	Alum feed system for coagulation
Feed Point	Liquid alum to the raw water ahead of the in-line mixer for coagulation
Equipment	A chemical metering pump with a calibration cylinder controlled automatically on the basis of the raw water flow complete with alum storage A day tank with secondary spill containment
Notes	

Chlorine

Description	Chlorine gas disinfection System
Feed Point	Chemical contact chamber and discharge line from high lift pumps to the distribution system
Equipment	One (1) 100 kg/day V-notch duty chlorinator One (1) 227 kg/day V-notch standby chlorinator including: <ul style="list-style-type: none"> - two (2) one tonne chlorine cylinders with an automatic switch over device in a separate room - a weight scale - chemical metering pumps - a free chlorine analyzer for monitoring finished water residuals
Notes	

Hydrofluosilicic Acid

Description	Fluoridation system
Feed Point	Chemical Contact Chamber
Equipment	One (1) day tank
	One (1) chemical metering pump
	Secondary spill containment
Notes	

Polyelectrolytes

Description	Polyelectrolytes to the solids contact tanks for assisting flocculation
Feed Point	Solids Contact Clarifiers
Equipment	Two (2) chemical metering pumps complete with aging and batch tanks
Notes	

Powdered Activated Carbon

Description	Powdered activated carbon for taste and odor control
Feed Point	Ahead of in-line mixer or solids contact clarifiers
Equipment	One (1) slurry tank
	One (1) chemical metering pump
	Secondary spill containment
	A dust control system
Notes	

Soda Ash

Description	Soda ash dosing system for pH adjustment
Feed Point #1	Chemical contact chamber
Feed Point #2	Solid contact clarifiers
Feed Point #3	In-line mixture
Equipment	A silo inside the building
	One (1) day tank
	Volumetric feeder
	A dust collector
Notes	

224-201

Schedule A

July 19th, 2011

Polymer

Description	Polymer feed system c/w back-up system
Feed Point	Within the solids contact clarifiers
Equipment	One (1) 114 L capacity aging tank
	One (1) 150 L capacity solution tank
	Two (2) metering pumps each capable of delivering up to 20 L/min; one to each clarifier. Pumps capable of delivering to each clarifier.
Notes	Back-up system is similar is size and capacity.

Fort Frances Water Distribution System

Elevated Storage Tank

Description	An elevated storage tank
Location	South-east side of the intersection of Colonization Road West and McIrvine Road
UTM Coordinates	NAD 83: Zone 15 +/- 10: Easting 468540: Northing 5383616
Capacity	4,500 m ³
Equipment	Includes calcium hypochloride re-chlorination facility along with: <ul style="list-style-type: none"> - a telemetry system providing the water level information to the main computer at the plant; and - a looped circulation system
Notes	

Watermains

1.2 Watermains within the distribution system comprise:

1.2.1 Watermains that have been set out in each document or file identified in column 1 of Table 1.

Table 1: Watermains	
Column 1 Document or File Name	Column 2 Date
TOWN OF FORT FRANCES WATER DISTRIBUTION SYSTEM - EAST.pdf	January 12, 2010
TOWN OF FORT FRANCES WATER DISTRIBUTION SYSTEM - WEST.pdf	
TOWN OF FORT FRANCES WATER DISTRIBUTION SYSTEM.pdf	

1.2.2 Watermains that have been added, modified, replaced or extended further to the provisions of Schedule C of this drinking water works permit on or after the date identified in column 2 of Table 1 for each document or file identified in column 1.

1.2.3 Watermains that have been added, modified, replaced or extended further to an authorization by the Director on or after the date identified in column 2 of Table 1 for each document or file identified in column 1.

Schedule B: General

System Owner	The Corporation of the Town of Fort Frances
Permit Number	224-201
Drinking Water System Name	Fort Frances Drinking Water System
Schedule B Issue Date	July 19th, 2011

1.0 Applicability

- 1.1 In addition to any other requirements, the drinking water system identified above shall be altered and operated in accordance with the conditions of this drinking water works permit and the licence.
- 1.2 The definitions and conditions of the licence shall also apply to this drinking water works permit.

2.0 Alterations to the Drinking Water System

- 2.1 Any document issued by the Director as a Schedule C to this drinking water works permit shall provide authority to alter the drinking water system in accordance, where applicable, with the conditions of this drinking water works permit and the licence.
- 2.2 All Schedule C documents issued by the Director for the drinking water system shall form part of this drinking water works permit.
- 2.3 All parts of the drinking water system in contact with drinking water which are:
 - 2.3.1 Added, modified, replaced, extended; or
 - 2.3.2 Taken out of service for inspection, repair or other activities that may lead to contamination,

shall be disinfected before being put into service in accordance with the provisions of the AWWA C651 – Standard for Disinfecting Water Mains; AWWA C652 – Standard for Disinfection of Water-Storage Facilities; AWWA C653 – Standard for Disinfection of Water Treatment Plants; or AWWA C654 – Standard for Disinfection of Wells; or an equivalent procedure.
- 2.4 The owner shall notify the Director within thirty (30) days of the placing into service or the completion of any addition, modification, replacement or extension of the drinking water system which had been authorized through:
 - 2.4.1 Schedule B to this drinking water works permit which would require an alteration of the description of a drinking water system component described in Schedule A of this drinking water works permit;
 - 2.4.2 Any Schedule C to this drinking water works permit respecting works other than watermains; or

- 2.4.3 Any approval issued prior to the issue date of the first drinking water works permit respecting works other than watermain which were not in service at the time of the issuance of the first drinking water works permit.
- 2.5 For greater certainty, the notification requirements set out in condition 2.4 do not apply to any addition, modification, replacement or extension in respect of the drinking water system which:
 - 2.5.1 Is exempt from subsection 31(1) of the SDWA by subsection 9.(2) of O. Reg. 170/03;
 - 2.5.2 Constitutes maintenance or repair of the drinking water system; or
 - 2.5.3 Is a watermain authorized by condition 3.1 of Schedule B of this drinking water works permit.
- 2.6 The owner shall notify the legal owner of any part of the drinking water system that is prescribed as a municipal drinking water system by section 2 of O. Reg. 172/03 of the requirements of the licence and this drinking water works permit as applicable to the prescribed system.
- 2.7 For greater certainty, any alteration to the drinking water system made in accordance with this drinking water works permit may only be carried out after other legal obligations have been complied with including those arising from the *Environmental Assessment Act*, *Niagara Escarpment Planning and Development Act*, *Oak Ridges Moraine Conservation Act*, 2001 and *Greenbelt Act*, 2005.

3.0 Watermain Additions, Modifications, Replacements and Extensions

- 3.1 The drinking water system may be altered by adding, modifying, replacing or extending a watermain within the distribution system subject to the following conditions:
 - 3.1.1 The design of the watermain addition, modification, replacement or extension:
 - a) Has been prepared by a Professional Engineer;
 - b) Has been designed only to transmit water and has not been designed to treat water;
 - c) Satisfies the design criteria set out in the Ministry of the Environment publication "Watermain Design Criteria for Future Alterations Authorized under a Drinking Water Works Permit – March 2009", as amended from time to time; and
 - d) Is consistent with or otherwise addresses, the design objectives contained within the Ministry of the Environment publication "Design Guidelines for Drinking Water Systems, 2008", as amended from time to time.
 - 3.1.2 The maximum demand for water exerted by consumers who are serviced by the addition, modification, replacement or extension of the watermain will not result in an exceedance of the rated capacity of a treatment subsystem or the maximum flow rate for a treatment subsystem component as specified in the licence, or the creation of adverse conditions within the drinking water system.

-
- 3.1.3 The watermain addition, modification, replacement or extension will not adversely affect the distribution system's ability to maintain a minimum pressure of 140 kPa at ground level at all points in the distribution system under maximum day demand plus fire flow conditions.
 - 3.1.4 Secondary disinfection will be provided to water within the added, modified, replaced or extended watermain to meet the requirements of O. Reg. 170/03.
 - 3.1.5 The watermain addition, modification, replacement or extension is wholly located within the municipal boundary over which the owner has jurisdiction.
 - 3.1.6 The owner of the drinking water system consents to the watermain addition, modification, replacement or extension.
 - 3.1.7 A Professional Engineer has verified in writing that the watermain addition, modification, replacement or extension meets the requirements of condition 3.1.1.
 - 3.1.8 The owner of the drinking water system has verified in writing that the watermain addition, modification, replacement or extension meets the requirements of conditions 3.1.2 to 3.1.6.
 - 3.2 The authorization for the addition, modification, replacement or extension of a watermain provided for in condition 3.1 does not include the addition, modification, replacement or extension of a watermain that:
 - 3.2.1 Passes under or through a body of surface water, unless trenchless construction methods are used;
 - 3.2.2 Has a nominal diameter greater than 750 mm;
 - 3.2.3 Connects to another drinking water system; or
 - 3.2.4 Results in the fragmentation of the drinking water system.
 - 3.3 The verifications required in conditions 3.1.7 and 3.1.8 shall be:
 - 3.3.1 Recorded on "Form 1 – Record of Watermains Authorized as a Future Alteration" as published by the Ministry of the Environment; and
 - 3.3.2 Retained for a period of ten (10) years by the owner.
 - 3.4 For greater certainty, the verification requirements set out in condition 3.3 do not apply to any addition, modification, replacement or extension in respect of the drinking water system which:
 - 3.4.1 Is exempt from subsection 31(1) of the SDWA by subsection 9.(2) of O. Reg. 170/03; or
 - 3.4.2 Constitutes maintenance or repair of the drinking water system.

- 3.5 The document or file referenced in Column 1 of Table 1 of Schedule A of this drinking water works permit that sets out watermain shall be retained by the owner and shall be updated to include watermain additions, modifications, replacements and extensions within 12 months of the addition, modification, replacement or extension.
- 3.6 The updates required by condition 3.5 shall include watermain location relative to named streets or easements and watermain diameter.

4.0 Minor Modifications to the Drinking Water System

- 4.1 The drinking water system may be altered by modifying or replacing the following components:
 - 4.1.1 Raw water, treatment process or treated water pumps;
 - 4.1.2 Chemical metering or chemical handling pumps;
 - 4.1.3 Valves;
 - 4.1.4 Instrumentation and controls;
 - 4.1.5 Cathodic corrosion protection; or
 - 4.1.6 Spill containment works.
- 4.2 The drinking water system may be altered by replacing the following:
 - 4.2.1 Raw water, treatment process or treated water piping within the treatment subsystem.
- 4.3 The modification or replacement of a drinking water system component set out in condition 4.1 or the replacement of a drinking water system component set out in condition 4.2 must not result in:
 - 4.3.1 An exceedance of a treatment subsystem rated capacity or a treatment subsystem component maximum flow rate as specified in the licence;
 - 4.3.2 The bypassing of any unit process within a treatment subsystem;
 - 4.3.3 A deterioration in the quality of drinking water provided to consumers;
 - 4.3.4 A reduction in the reliability or redundancy of any component of the drinking water system;
 - 4.3.5 A negative impact on the ability to undertake compliance and other monitoring; or
 - 4.3.6 An adverse effect on the environment.
- 4.4 The owner shall verify in writing that the modification or replacement of drinking water system components in accordance with conditions 4.1 and 4.2 has met the requirements of the conditions listed in condition 4.3.

- 4.5 The verifications required in condition 4.4 shall be:
 - 4.5.1 Recorded on "Form 2 – Record of Minor Modifications or Replacements to the Drinking Water System" as published by the Ministry of the Environment; and
 - 4.5.2 Retained for a period of ten (10) years by the owner.
- 4.6 For greater certainty, the verification requirements set out in conditions 4.4 and 4.5 do not apply to any modification or replacement in respect of the drinking water system which:
 - 4.6.1 Is exempt from subsection 31(1) of the SDWA by subsection 9.(2) of O. Reg. 170/03; or
 - 4.6.2 Constitutes maintenance or repair of the drinking water system.
- 4.7 The owner shall update any drawings maintained for the drinking water system to reflect the modification or replacement of the works, where applicable.

5.0 Equipment with Emissions to the Air

- 5.1 The drinking water system may be altered by adding, modifying or replacing any of the following drinking water system components that may discharge or alter the rate or manner of a discharge of a compound of concern to the atmosphere:
 - 5.1.1 Any equipment, apparatus, mechanism or thing that is used for the transfer of outdoor air into a building or structure that is not a cooling tower;
 - 5.1.2 Any equipment, apparatus, mechanism or thing that is used for the transfer of indoor air out of a space used for the production, processing, repair, maintenance or storage of goods or materials, including chemical storage;
 - 5.1.3 Laboratory fume hoods used for drinking water testing, quality control and quality assurance purposes;
 - 5.1.4 Low temperature handling of compounds with a vapor pressure of less than 1 kilopascal;
 - 5.1.5 Maintenance welding stations;
 - 5.1.6 Minor painting operations used for maintenance purposes;
 - 5.1.7 Parts washers for maintenance shops;
 - 5.1.8 Emergency chlorine and ammonia gas scrubbers;
 - 5.1.9 Venting for activated carbon units for drinking water taste and odour control;
 - 5.1.10 Venting for a stripping unit for methane removal from a groundwater supply;
 - 5.1.11 Natural gas or propane fired boilers, water heaters, space heaters and make-up air units with a total facility-wide heat input rating of less than 20 million kilojoules per hour, and with an individual fuel energy input of less than or equal to 10.5 gigajoules per hour; and

5.1.12 Emergency generators that fire No. 2 fuel oil (diesel fuel) with a sulphur content of 0.5 per cent or less measured by weight, natural gas, propane, gasoline or biofuel, and that are used for emergency duty only with periodic testing.

5.2 The owner shall not add, modify or replace a drinking water system component set out in condition 5.1 for an activity that is not directly related to the treatment and distribution of drinking water.

5.3 The emergency generators identified in condition 5.1.12 shall not be used for non-emergency purposes including the generation of electricity for sale or for peak shaving purposes.

5.4 The owner shall prepare an emission summary table for nitrogen oxide emissions only, for each addition, modification or replacement of emergency generators identified in condition 5.1.12.

Performance Limits

5.5 The owner shall ensure that a drinking water system component identified in conditions 5.1.1 to 5.1.12 is operated at all times to comply with the following limits:

5.5.1 For equipment other than emergency generators, the maximum concentration of any compound of concern at a point of impingement shall not exceed the corresponding point of impingement limit;

5.5.2 For emergency generators, the maximum concentration of nitrogen oxides at sensitive populations shall not exceed the applicable point of impingement limit, and at non-sensitive populations shall not exceed the Ministry of the Environment half-hourly screening level of 1880 ug/m³ as amended;

5.5.3 The noise emissions comply at all times with the limits set out in publication NPC-205 and/or publication NPC-232, as applicable; and

5.5.4 The vibration emissions comply at all times with the limits set out in publication NPC-207.

5.6 The owner shall verify in writing that any addition, modification or replacement of works in accordance with condition 5.1 has met the requirements of the conditions listed in condition 5.5.

5.7 The owner shall document how compliance with the performance limits outlined in 5.5.3 and 5.5.4 is being achieved, through noise abatement equipment and/or operational procedures.

5.8 The verifications required in condition 5.6 shall be:

5.8.1 Recorded on "Form 3 – Record of Addition, Modification or Replacement of Equipment Discharging a Contaminant of Concern to the Atmosphere" as published by the Ministry of the Environment.

5.8.2 Retained for a period of ten (10) years by the owner.

- 5.9 For greater certainty, the verification requirements set out in conditions 5.6 and 5.8 do not apply to any addition, modification or replacement in respect of the drinking water system which:

5.9.1 Is exempt from subsection 31(1) of the SDWA by subsection 9.(2) of O. Reg. 170/03; or

5.9.2 Constitutes maintenance or repair of the drinking water system.

- 5.10 The owner shall update any drawings maintained for the works to reflect the addition, modification or replacement of the works, where applicable.

6.0 Previously Approved Works

- 6.1 The owner may add, modify, replace or extend, and operate part of a municipal drinking water system if:

6.1.1 An approval was issued after January 1, 2004 under section 36 of the SDWA in respect of the addition, modification replacement or extension and operation of that part of the municipal drinking water system;

6.1.2 The approval expired by virtue of subsection 36(4) of the SDWA; and

6.1.3 The addition, modification, replacement or extension commenced within five years of the date that activity was approved by the expired approval.

7.0 System-Specific Conditions

- 7.1 The following are authorized under this permit:

Not Applicable.



Ministry of the Environment
Ministère de l'Environnement

**AMENDED CERTIFICATE OF APPROVAL
MUNICIPAL DRINKING WATER SYSTEMS
NUMBER 1811-7MSKDJ
Issue Date: January 5, 2009**

The Corporation of the Town of Fort Frances
320 Portage Ave
Fort Frances, Ontario
P9A 3P9

Site Location: Fort Frances Water Treatment Plant
901 Colonization Rd E
Fort Frances Town, District of Rainy River

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 approval 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
PO Box 38 Stn Main
Fort Frances, Ontario
P9A 3P9

PART 1 - DRINKING-WATER SYSTEM DESCRIPTION

- 1.1 for a drinking-water system serving the Town of Fort Frances, located west of Colonization Road and north of Fifth Street in the Town of Fort Frances UTM Coordinates: NAD 83, Zone15, Easting 472938.00 m, Northing 5384735.00 m, rated as set out in Part 4 consisting of the following:

PROPOSED WORKS (as per application for approval dated November 4, 2008)

- replacement of existing one of the three vertical turbine low lift pumps having a rated capacity of 100 L/s against a total dynamic head (TDH) of 14 m with a new vertical turbine, variable speed drive pump capable of providing flows in the range of 40 to 150 L/s, including associated modifications to the mechanical and electrical system.

PROPOSED WORKS (as per application for approval dated December 6, 2006)

- installation of a backup polymer system consisting of an aging tank with 114 L capacity, a solution tank with 150 L capacity and a metering pump with a capacity of upto 20 L/min.

EXISTING WATER WORKS

Intake Facilities

- approximately 190 m of 630 mm diameter intake pipe located in the Rainy River including an upturned elbow intake structure complete with a coarse bar screen;

Building

- a water treatment plant building, approximately 45 by 32 m masonry structure housing the screen chamber, low and high lift pumps, solids contact clarifiers, filters, chemical storage and feeding equipment, instrumentation and control, an administration area comprising of an office, lunchroom, washrooms and control room/laboratory;

Screening

- a raw water screen chamber equipped with two sets of screens, each 2.25 m² in area;

Low Lift Pumps

- three (3) electric motor driven, vertical turbine, low lift pumps, each rated at 100 L/s against a total dynamic head (TDH) of 14 m including a metering device for measuring raw water flows;

In-Line Mixer

- a 450 mm diameter in-line mixer in the raw water discharge main to facilitate the dosing of liquid alum, activated carbon slurry and soda ash solution;

Solids Contact Clarifiers

- Two (2) solids contact clarifier units, each approximately 13.7 m x 13.7 m x 3.75 m side water depth (s.w.d.) operating in parallel and facilities for polymer dosing;

Filters

- four (4) dual media, gravity filters (sand and anthracite), each 4.9 m x 4.9 m providing a total filter area of 96 m² equipped with one (1) electric motor driven, vertical turbine backwash pump capable of delivering 290.3 L/s at 14 m TDH at one condition point and 94.7 L/s at another condition point, a turbidimeter on each filter, an underdrain system and air scouring;

Clearwell/Reservoir

- a two-celled, ground storage reservoir with a capacity of 2,565 m³ in Cell No. 1 and a capacity of 1,465 m³ in Cell No. 2 for a total volume of 4,030 m³;

High Lift Pumps

- four (4) electric motor driven, vertical turbine, high lift pumps, two (2) rated at 63.1 L/s, one (1) rated at 94.7 L/s and one rated at 126.2 L/s respectively each at a TDH of 55 m and a diesel engine driven vertical turbine fire pump (also serving as standby for the high lift pumps), rated at 220 L/s at 53 m TDH including a metering device for measuring finished water flows;

Chlorine Disinfection System

- one (1) 100 kg/d V-notch duty chlorinator and one (1) 227 kg/d V-notch standby chlorinator including two (2) one tonne chlorine cylinders with an automatic switch over device in a separate room, a weight scale, chemical metering pumps and a free chlorine analyzer for monitoring finished water residuals;

Chemical Feed System

- The following chemicals added to the treatment process:
 - liquid alum to the raw water ahead of the in-line mixer for coagulation including a chemical metering pump with a calibration cylinder and controlled automatically on the basis of the raw water flow complete with alum storage and a day tank with secondary spill containment,
 - polyelectrolytes to the solids contact tanks for assisting flocculation including two chemical metering pumps complete with aging and batch tanks,
 - powdered activated carbon to the raw water ahead of the in-line mixer or contact clarifier for taste and odour control including a slurry tank, a chemical metering pump, secondary spill containment and a dust control system,

- soda ash to the chemical contact chamber, solid contact clarifiers and in-line mixture for pH adjustment including a silo inside the building, a day tank, volumetric feeder and a dust collector,
- hydrofluosilicic acid to the chemical contact chamber for fluoridation including a day tank, chemical metering pump and secondary spill containment;

Residue Management

- filter backwash water returned to the Rainy River through approximately 60 m of 800 mm diameter outfall line and clarifier waste sludge blowdown solids discharged to the sanitary sewer system;

Instrumentation and Control

- a computerized control system monitoring the critical components of the process including raw and finished water quantity and quality (i.e. flow meters measuring and monitoring raw and finished water, a turbidimeter continuously monitor raw water, four (4) turbidimeters for continuously monitoring filters effluent, one (1) laboratory model turbidimeter for manual testing and a continuous chlorine analyzer monitoring free chlorine residual in the discharge pipe of the high lift pumps) and the status of the standpipe by telemetry, receiving alarms and controlling the operation;

Elevated Water Storage

- a 4500 m³ elevated storage reservoir located at the south-east side of the intersection of Colonization Road West and McIrvine Road, UTM coordinates: NAD 83, Zone 15, Easting 468,540.00 m, and Northing 5,383616.00 m comprising re-chlorination facilities feeding calcium hypochloride, monitoring free chlorine residual, a telemetry system providing the water level information to the main computer at the plant; and a loop circulation system;

- 1.2 all in accordance with the applications and plans and other supporting documents listed in Schedule "A", and all other Schedules, which are attached to, and form part of this approval, except as specified in the conditions contained herein.

PART 2 - DEFINITIONS AND INFORMATION

- 2.1 In this approval, unless the context otherwise requires, words and phrases shall be given the same meaning as those set out in the *Safe Drinking Water Act, 2002*, S.O. 2002, c. 32 and any regulations made in accordance with that act.
- 2.2 In this approval

"approval" means this entire approval document, issued in accordance with section 36 of the *SDWA*, and includes any schedules to it;

"Director" means a director appointed pursuant to s. 6 of the *SDWA* for the purposes of Part V of the *SDWA*;

"drinking-water system" includes the works set out in Part 1;

"operating authority" and "owner" mean, in addition to the respective meanings given in the Act, The Corporation of the Town of Fort Frances;

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

"rated capacity" means the maximum flow rate and maximum daily volume of water which can be treated when operating the drinking-water system under design conditions;

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

PART 3 - GENERAL

Compliance

- 3.1 The owner and operating authority shall operate the drinking-water system in accordance with the *SDWA*, any applicable regulations made thereunder, and this approval.
- 3.2 Despite any condition of this approval to the contrary, the owner and operating authority set out in Part 2 are jointly and severally liable to comply with all conditions of this approval.
- 3.3 The owner and operating authority shall ensure that any person authorized to carry out work on or operate any aspect of the drinking-water system has been informed of the *SDWA*, all applicable regulations made in accordance with that act, and this approval and shall take all reasonable measures to ensure any such person complies with the same.
- 3.4 A copy of this approval shall be kept in a conspicuous place so that it is available for reference by all persons responsible for all or part of the operation of the drinking-water system.

Build, etc. in Accordance

- 3.5 Except as otherwise provided by this approval, the drinking-water system shall be designed, developed, built, operated and maintained in accordance with Part 1 above and the documentation listed in Schedule "A".

Interpretation

- 3.6 Where there is a conflict between the provisions of this approval and any other document, the following hierarchy shall be used to determine the provision that takes precedence:
- i. The *SDWA* ;
 - ii. a condition imposed in this approval in accordance with s. 38 of the *SDWA* ;
 - iii. any regulation made under the *SDWA* ;
 - iv. this approval;
 - v. any application documents listed in Schedule "A" from most recent to earliest; and
 - vi. all other documents listed in Schedule "A" from most recent to earliest.
- 3.7 The requirements of this approval are severable. If any requirement of this approval, or the application of any requirement of this approval to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this approval shall not be affected thereby.
- 3.8 Nothing in this approval shall be read to provide relief from the need for strict compliance with the *Environmental Assessment Act*, R.S.O. 1990, c E.18.

Other Legal Obligations

- 3.9 The issuance of, and compliance with the conditions of, this approval does not:
- i. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement; or
 - ii. limit in any way the authority of the ministry to require certain steps be taken or to require the owner to furnish any further information related to compliance with this approval.
- 3.10 For greater clarity, nothing in this approval shall be read to provide relief from regulatory requirements in accordance with section 38 of the *SDWA* , except as provided in Part 9.

Adverse Effects

- 3.11 Nothing in this approval shall be read as to permit: i) the discharge of a contaminant into the natural environment that causes or is likely to cause an adverse effect; or ii) 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.
- 3.12 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.

- 3.13 Fulfillment of one or more conditions imposed by this approval does not eliminate the requirement to fulfill any other condition of this approval or the requirements of any applicable statute, regulation, or other legal requirement resulting from any act or omission that causes or is likely to cause an adverse effect on the natural environment or the impairment of water quality.

Change of Owner

- 3.14 The owner or the operating authority, as the case may be, shall notify the director, in writing, of any of the following changes within 30 days of the change occurring:

- i. change of owner or operating authority;
- ii. change of address;
- iii. change of partners where the owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c. B17; or
- iv. change of name of the corporation where the owner or operating authority is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C.39.

- 3.15 In the event of any change in ownership of the drinking-water system, other than change to a successor municipality, the owner shall notify the successor of and provide the successor with a copy of this approval, and the owner shall provide a copy of the notification to the district manager of the local office of the ministry and the director.

Inspections

- 3.16 No person shall hinder or obstruct a provincial officer in the performance of their duties, including any and all inspections authorized by the *SDWA*.

Information

- 3.17 Any information requested, by the ministry, concerning the drinking-water system and its operation under this approval, including but not limited to any records required to be kept by this approval shall be provided to the Ministry, upon request.
- 3.18 Records required by or created in accordance with this approval, unless specifically referenced in s. 12 of O. Reg. 170/03, shall be retained for at least 5 years in a location where a provincial officer who is inspecting the treatment system can conveniently view them.

PART 4 - PERFORMANCE

Rated Capacity

- 4.1 The drinking-water system shall not be operated to exceed the rated capacity of 17,000 cu.m/d on any calendar day, conveyed from the treatment system to the distribution system.

Increase to Rated Capacity

- 4.2 Despite condition 4.1, the drinking water system may be operated at a rate above the rated capacity set out in condition 4.1 where necessary for:
- i. fighting a large fire; or
 - ii. the maintenance of the drinking-water system.
- 4.3 Condition 4.2 shall not be construed to allow drinking-water to be supplied that does not meet all other applicable standards and legal requirements.

PART 5 - MONITORING AND RECORDING

Flow measuring devices

- 5.1 Install a sufficient number of flow-measuring devices within the drinking-water system to permit the measurement and recording of:
- i. the daily maximum flow rate and maximum daily volume of water conveyed into the treatment system; and
 - ii. the daily maximum flow rate and maximum daily volume of water conveyed from the treatment system to the distribution system.
- 5.2 Records shall be maintained that set out the parameters recorded in accordance with condition 5.1, and where a measured flow rate into the distribution system, exceeds the maximum flow rate set out for that treatment system in Part 4, the amount and date, of the exceedence shall also be recorded.

Calibration of flow measuring devices

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

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

Additional Sampling - Management of Residue

- 5.5 In addition to any other sampling and analysis that may be required, sampling and analysis shall be undertaken for the parameters listed in Table 5.1 at the listed frequencies and locations.

Table 5.1 Management of Residue Sampling

<u>Item</u>	<u>Parameter</u>	<u>Frequency</u>	<u>Location</u>
1.	Suspended Solids (composite)	Quarterly	Point of discharge to Rainy River

- 5.6 For the purposes of Table 5.1, composite means the mean of three samples taken during the discharge event, with at least one sample taken immediately following the commencement of the discharge, one sample taken approximately at the mid-point of the discharge event and one sample taken immediately before the discharge ceases.

PART 6 - OPERATIONS AND MAINTENANCE

Chemical standards

- 6.1 All chemicals and materials used in the 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.
- 6.2 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 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.
- 6.3 Condition 6.2 does not apply in the context of any particular chemical or material where the Owner has written documentation signed by the director that indicates that the Ministry is satisfied that the chemical or material is acceptable for use within the drinking-water system and that chemical or material is only used as permitted by the documentation.

Operations manual

- 6.4 An up-to-date operations manual shall be maintained and available for reference by all persons

responsible for all or part of the operation of the drinking-water system.

6.5 The operations manual shall include at a minimum:

- i. the requirements of this approval and associated procedures;
- ii. the operation and maintenance recommendations from the most recent engineers' report;
- iii. procedures for the monitoring and recording of in-process parameters necessary for the control of the treatment system and assessing the performance of the drinking-water system;
- iv. procedures for the operation and maintenance of monitoring equipment;
- v. contingency plans and procedures for the provision of adequate equipment and material to deal with emergencies, upset and equipment breakdown;
- vi. procedures for the 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.

6.6 Procedures necessary to the operation of any physical alterations of the drinking-water system shall be incorporated into the operations manual prior to the alterations coming into operation.

Drawings

6.7 An up-to-date Process and Instrumentation Diagram for the treatment system shall be kept on site at the drinking water system.

6.8 All drawings and diagrams in the possession of the owner or operating authority that show the treatment system as constructed shall be retained.

6.9 An alteration to the treatment system shall be incorporated into Process and Instrumentation Diagrams (P&ID) and record drawings and diagrams within one year of the substantial completion of the alteration and shall be retained and shall be made readily available for inspection by Ministry staff.

PART 7 - FUTURE ALTERATIONS

Approved future alterations

7.1 *Not Applicable*

Certificate of compliance

7.2 *Not Applicable*

PART 8 - STUDIES AND UPGRADES REQUIRED

8.1 *Not Applicable*

Requirement not an approval

8.2 *Not Applicable*

PART 9 - RELIEF FROM REGULATORY REQUIREMENTS

Relief from regulatory requirements

9.1 *Not Applicable*

Conditions in exchange for relief from regulatory requirements

9.2 *Not Applicable*

SCHEDULE - A

The following supporting documents form part of this approval.

1. Application dated November 4, 2008
 - Correspondence dated November 4, 2008 from the Town of Fort Frances together with drawings and design data sheets.
2. Application dated December 6, 2006
 - Correspondence dated December 12, 2006 from the Town of Fort Frances
 - Fax transmission dated March 5 & 19, 2007 from the Town of Fort Frances
3. Application dated July 2, 2003
 - Fax transmission dated March 12, 2004 from Town of Fort Frances
 - Final Plans dated February 2003
 - Design Brief
4. The original applications for approval, including design calculations, engineering drawings and reports, and other supporting documents prepared in support of any previous certificate(s) of

approval issued for any works now approved and replaced by this approval, unless this approval states otherwise.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 3059-6YGRYK issued on June 1, 2007

All or part of this decision may be reviewable in accordance with the provisions of Part X of the SDWA. In accordance with Section 129(1) of the Safe Drinking Water Act, Chapter 32 Statutes of Ontario, 2002, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this notice, require a hearing by the Tribunal. Section 129(2) sets out a procedure upon which the 15 days may be extended by the Tribunal. Section 129(3) of the Safe Drinking Water Act, Chapter 32 Statutes of Ontario, 2002, provides that the Notice requiring the hearing shall state:

1. The aspect of the decision, including the portion of the permit, licence, approval, order or notice of administrative penalty in respect of which the hearing is required; and
2. The grounds for review to be relied on by the person at the hearing.

Except with leave of the Tribunal, a person requiring a hearing in relation to a reviewable decision is not entitled to,
(a) a review of an aspect of the decision other than that stated in the notice requiring the hearing; or
(b) a review of the decision other than on the grounds stated in the notice

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Director
Part V, *Safe Drinking Water Act*, 2002
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the

Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted water works are approved under Part V of the Safe Drinking Water Act.

DATED AT TORONTO this 5th day of January, 2009

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

Aziz Ahmed, P.Eng.
Director
Part V *of the Safe Drinking Water Act,*
2002

RM/

c: District Manager, MOE Kenora
Douglas Herr, The Corporation of the Town of Fort Frances



DWS Permit to Take Water



Ministry of the
Environment
Ministère de
l'Environnement

PERMIT TO TAKE WATER
Surface Water
NUMBER 7280-6UAMD9

Pursuant to Section 34 of the Ontario Water Resources Act, R.S.O. 1990 this Permit To Take Water is hereby issued to:

The Corporation of the Town of Fort Frances
320 Portage Avenue
Fort Frances, Ontario, P9A 3P9
Canada

For the water taking from: Rainy River

Located at: 901 Colonization Road East, McIrvine Geo. Twp.
Fort Frances, District of Rainy River

For the purposes of this Permit, and the terms and conditions specified below, the following definitions apply:

DEFINITIONS

- (a) "Director" means any person appointed in writing as a Director pursuant to section 5 of the OWRA for the purposes of section 34, OWRA.
- (b) "Provincial Officer" means any person designated in writing by the Minister as a Provincial Officer pursuant to section 5 of the OWRA.
- (c) "Ministry" means Ontario Ministry of the Environment.
- (d) "District Office" means the Kenora District Office.
- (e) "Permit" means this Permit to Take Water No. 7280-6UAMD9 including its Schedules, if any, issued in accordance with Section 34 of the OWRA.
- (f) "Permit Holder" means The Corporation of the Town of Fort Frances.
- (g) "OWRA " means the *Ontario Water Resources Act*, R.S.O. 1990, c. O. 40, as amended.

You are hereby notified that this Permit is issued subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. Compliance with Permit

- 1.1 Except where modified by this Permit, the water taking shall be in accordance with the application for this Permit To Take Water, dated July 12, 2006 and signed by Douglas Herr, and all Schedules included in this Permit.
- 1.2 The Permit Holder shall ensure that any person authorized by the Permit Holder to take water under this Permit is provided with a copy of this Permit and shall take all reasonable measures to ensure that any such person complies with the conditions of this Permit.
- 1.3 Any person authorized by the Permit Holder to take water under this Permit shall comply with the conditions of this Permit.
- 1.4 This Permit is not transferable to another person.
- 1.5 This Permit provides the Permit Holder with permission to take water in accordance with the conditions of this Permit, up to the date of the expiry of this Permit. This Permit does not constitute a legal right, vested or otherwise, to a water allocation, and the issuance of this Permit does not guarantee that, upon its expiry, it will be renewed.
- 1.6 The Permit Holder shall keep this Permit available at all times at or near the site of the taking, and shall produce this Permit immediately for inspection by a Provincial Officer upon his or her request.
- 1.7 The Permit Holder shall report any changes of address to the Director within thirty days of any such change. The Permit Holder shall report any change of ownership of the property for which this Permit is issued within thirty days of any such change. A change in ownership in the property shall cause this Permit to be cancelled.

2. General Conditions and Interpretation

- 2.1 Inspections
The Permit Holder must forthwith, upon presentation of credentials, permit a Provincial Officer to carry out any and all inspections authorized by the OWRA, the *Environmental Protection Act*, R.S.O. 1990, the *Pesticides Act*, R.S.O. 1990, or the *Safe Drinking Water Act*, S. O. 2002.
- 2.2 Other Approvals
The issuance of, and compliance with this Permit, does not:
 - (a) relieve the Permit Holder or any other person from any obligation to comply with any other applicable legal requirements, including the provisions of the *Ontario Water Resources Act*, and the *Environmental Protection Act*, and any regulations made thereunder; or
 - (b) limit in any way any authority of the Ministry, a Director, or a Provincial Officer, including the authority to require certain steps be taken or to require the Permit Holder to furnish any further information related to this Permit.

- 2.2.1 Prior to the taking of any water under the authorization of the Permit to Take Water, the Permit Holder shall ensure full compliance with the Safe Drinking Water Act, 2002 and its regulations. At no time does this permit authorize the taking of water when out of compliance with the Safe Drinking Water Act, 2002 and its regulations.
- 2.3 Information
The receipt of any information by the Ministry, the failure of the Ministry to take any action or require any person to take any action in relation to the information, or the failure of a Provincial Officer to prosecute any person in relation to the information, shall not be construed as:
- (a) an approval, waiver or justification by the Ministry of any act or omission of any person that contravenes this Permit or other legal requirement; or
- (b) acceptance by the Ministry of the information's completeness or accuracy.
- 2.4 Rights of Action
The issuance of, and compliance with this Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officers, employees, agents, and contractors.
- 2.5 Severability
The requirements of this Permit are severable. If any requirements of this Permit, or the application of any requirements of this Permit to any circumstance, is held invalid or unenforceable, the application of such requirements to other circumstances and the remainder of this Permit shall not be affected thereby.
- 2.6 Conflicts
Where there is a conflict between a provision of any submitted document referred to in this Permit, including its Schedules, and the conditions of this Permit, the conditions in this Permit shall take precedence.
- 3. Water Takings Authorized by This Permit**
- 3.1 **Expiry**
This Permit expires on **October 5, 2016**. No water shall be taken under authority of this Permit after the expiry date.
- 3.2 **Amounts of Taking Permitted**
The Permit Holder shall only take water from the source, during the periods and at the rates and amounts of taking specified in Table A. Water takings are authorized only for the purposes specified in Table A.

Table A

Source Name / Description:	Source:	Taking Specific	Taking Major	Max. Taken per	Max. Num. of Hrs Taken	Max. Taken per Day	Max. Num. of Days Taken	Zone/ Easting/
----------------------------	---------	-----------------	--------------	----------------	------------------------	--------------------	-------------------------	----------------

		Type:	Purpose:	Category:	Minute (litres):	per Day:	(litres):	per Year:	Northing:
1	Rainy River	River	Municipal	Water Supply	12,000	24	17,000,000	365	15 473000 5384717
Total Taking:							17,000,000		

4. Monitoring

- 4.1 The Permit Holder shall maintain a record of all water takings. This record shall include the dates and times of water takings, and the total measured amounts of water pumped per day for each day that water is taken under the authorization of this Permit. The Permit Holder shall keep all required records up to date and available at or near the site of the taking and shall produce the records immediately for inspection by a Provincial Officer upon his or her request.

5. Impacts of the Water Taking

5.1 Notification

The Permit Holder shall immediately notify the local District Office of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint. The Permit Holder shall immediately notify the local District Office if the taking of water is observed to have any significant impact on the surrounding waters. After hours, calls shall be directed to the Ministry's Spills Action Centre at 1-800-268-6060.

5.2 For Surface-Water Takings

The taking of water (including the taking of water into storage and the subsequent or simultaneous withdrawal from storage) shall be carried out in such a manner that streamflow is not stopped and is not reduced to a rate that will cause interference with downstream uses of water or with the natural functions of the stream.

6. Director May Amend Permit

The Director may amend this Permit by letter requiring the Permit Holder to suspend or reduce the taking to an amount or threshold specified by the Director in the letter. The suspension or reduction in taking shall be effective immediately and may be revoked at any time upon notification by the Director. This condition does not affect your right to appeal the suspension or reduction in taking to the Environmental Review Tribunal under the *Ontario Water Resources Act*, Section 100 (4).

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is included to ensure that the conditions in this Permit are complied with and can be

enforced.

2. Condition 2 is included to clarify the legal interpretation of aspects of this Permit.
3. Conditions 3 through 6 are included to protect the quality of the natural environment so as to safeguard the ecosystem and human health and foster efficient use and conservation of waters. These conditions allow for the beneficial use of waters while ensuring the fair sharing, conservation and sustainable use of the waters of Ontario. The conditions also specify the water takings that are authorized by this Permit and the scope of this Permit.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, as amended, provides that the Notice requiring the hearing shall state:

1. The portions of the Permit or each term or condition in the Permit in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Permit to Take Water number;
6. The date of the Permit to Take Water;
7. The name of the Director;
8. The municipality within which the works are located;

This notice must be served upon:

*The Secretary
Environmental Review Tribunal
2300 Yonge Street, Suite 1700
Toronto, Ontario M4P 1E4*

AND

*The Director, Section 34
Ministry of the Environment
331-435 James St S
Thunder Bay ON P7E 6S7
Fax: (807)475-1754*

Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal:

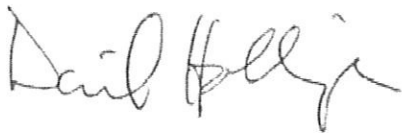
by telephone at (416) 314-4600

by fax at (416) 314-4506

by e-mail at www.ert.gov.on.ca

This Permit cancels and replaces Permit Number 86-P-6003, issued on 1999/03/22.

Dated at Thunder Bay this 5th day of October, 2006.



Dave Hollinger
Director, Section 34
Ontario Water Resources Act , R.S.O. 1990

Schedule A

This Schedule "A" forms part of Permit To Take Water 7280-6UAMD9, dated October 5, 2006.

- Permit to Take Water 86-P-6003, issued on March 22, 1999
- Amendment to Permit to Take Water 86-P-6003, issued on October 15, 2001



DWS Ministry Audit Sample Results



ONT MOE - NORTHERN REGION
ATTN: AARON CAUSYN, MOE
P.O. BOX 5150
808 ROBERTSON STREET
KENORA ON P9N 3X9

Date Received: 31-JAN-12
Report Date: 01-FEB-12 09:37 (MT)
Version: FINAL

Client Phone: 807-468-2720

Certificate of Analysis

Lab Work Order #: L1109066
Project P.O. #: OSS60844
Job Reference: 220000978
C of C Numbers:
Legal Site Desc:

CHRISTINE PARADIS
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1109066-1 TREATED 30-JAN-12 12:40 FORT FRANCES WTP	L1109066-2 DISTRIBUTION 30-JAN-12 14:00 FORT FRANCES WATER TOWER	L1109066-3 DISTRIBUTION 30-JAN-12 13:05 NANICOST SCHOOL	L1109066-4 DISTRIBUTION 30-JAN-12 13:20 HOSPITAL	
Grouping	Analyte					
WATER						
Bacteriological Tests	Presence/Absence: E. coli (p/a/100mL)	Absent	Absent	Absent	Absent	
	Presence/Absence: Total coliform (p/a/100mL)	Absent	Absent	Absent	Absent	

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
PA18-QT-TB	Water	Presence / Absence	APHA 9223 B C18

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg ww - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

13

Reg 170/03

Reg 318/08 319/08

Reg 243

C of A

Is this a resample from an adverse water quality incident?

Yes ☐

No 3 ✓

[illegible]

TYFM0204d v.2 DW Chain of Custody
4-August-11 TS
Page 1 of 3

Original with Submission: Please Photocopy for your Records

APPENDIX D

TABLE 4

FORT FRANCES DRINKING WATER SYSTEM

AUDIT SAMPLE RESULTS - 31-JAN-2012

SUMMARY OF CHEMICAL / PHYSICAL PARAMETERS - HEALTH RELATED

Sample Legend:

Sample # 1 - FORT FRANCES WATER TOWER DISTRIBUTION

Parameter	Units	MC ¹	SAMPLE # 1
1,1-DICHLOROETHENE	UG/L	14	.05 <=W
1,2-DICHLOROBENZENE	UG/L	200	.05 <=W
1,2-DICHLOROETHANE	UG/L	5	.05 <=W
1,4-DICHLOROBENZENE	UG/L	5	.05 <=W
BENZENE	UG/L	5	.05 <=W
CARBON TETRACHLORIDE	UG/L	5	.2 <=W
CHLOROBENZENE	UG/L	80	.05 <=W
CHLOROETHENE	UG/L	2	.05 <=W
DICHLOROMETHANE	UG/L	50	.2 <=W
LEAD	UG/L	10 c	0 +/-0.16
TETRACHLOROETHENE	UG/L	30	.25 <T
TRICHLOROETHENE	UG/L	5	.05 <=W
TRIHALOMETHANES; TOTAL	UG/L	100 e	83

Shortforms:

<T	-	A measurable trace amount; interpret with caution	NA	-	Result not available
<W	-	No measurable response (zero) : < Reported value	NS	-	Not sampled
<=W	-	No measurable response (zero) : < Reported value	NG/L	-	Nanograms per litre
<	-	Actual result is less than reported value	UG/L	-	Micrograms per litre
ND	-	Not detected	MG/L	-	Milligrams per litre
!NP	-	No appropriate procedure available			

Footnotes:

- 1 Maximum Concentration as per O.Reg 169/03.
- 2 Aesthetic Objective.
- 3 Operational Guideline.
- 4 Includes *alpha*-chlordane, *gamma*-Chlordane and Oxychlordane.
- 5 Includes *p,p'*-DDE, *o,p'*-DDT, *p,p'*-DDD and *p,p'*-DDT.
- a Total toxic equivalents when compared with 2,3,7,8,-TCDD (tetrachlorodibenzo-p-dioxin).
- b Where fluoride is added to drinking water, it is recommended that the concentration be adjusted to 0.5 - 0.8 mg/L, the optimum level for control of tooth decay. Where supplies contain naturally occurring fluoride at levels higher than 1.5 mg/L but less than 2.4 mg/L the Ministry of Health and Long Term Care recommends an approach through local boards of health to raise public and professional awareness to control excessive exposure to fluoride from other sources.
- c This standard applies to water at the point of consumption. Since lead is a component in some plumbing systems, first flush water may contain higher concentrations of lead than water that has been flushed for five minutes.
- d Where both nitrate and nitrite are present, the total of the two should not exceed 10 mg/L (as nitrogen).
- e The standard is expressed as a running annual average of quarterly samples measured at a point reflecting the maximum residence time in the distribution system.
- f An aesthetic objective of 5 NTU for Turbidity has been set for all waters at the point of consumption.

ADVERSE RESULTS OF A DRINKING-WATER TEST UNDER O.REG. 170/03

According to section 16-3 of O.Reg. 170/03, the following are prescribed as adverse results of a drinking-water test for the purpose of section 18 of the Safe Drinking Water Act 2002:

1. A result that exceeds any of the standards prescribed by Schedule 1, 2 or 3 to the Ontario Drinking-Water Quality Standards, other than the standard for fluoride, if the result is from a sample of drinking water.
2. A result indicating the presence of *Aeromonas* spp., *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Clostridium* spp. or fecal streptococci (Group D streptococci) in a sample of drinking water.
3. A result indicating the presence of a pesticide not listed in Schedule 2 to the Ontario Drinking-Water Quality Standards in a sample of drinking water, at any concentration.
4. If the drinking-water system is required to provide secondary disinfection in accordance with section 1-5 of Schedule 1 or section 2-5 of Schedule 2, the system provides chlorination, the system does not provide chloramination and a report under subsection 18(1) of the Act has not been made in respect of free chlorine residual in the preceding 24 hours, a result indicating that the concentration of free chlorine residual in the preceding 24 hours, a result indicating that the concentration of free chlorine residual is less than 0.05 milligrams per litre in,
 - i. a distribution sample that is a grab sample, or
 - ii. two distribution samples that are tested by continuous monitoring equipment, if the two samples were taken 15 minutes or more apart and the later of the two samples was the first sample that was taken 15 minutes or more after the earlier sample.
5. If the drinking-water system is required to provide secondary disinfection in accordance with section 1-5 of Schedule 1 or section 2-5 of Schedule 2, the system provides chloramination and a report under subsection 18(1) of the Act has not been made in respect of combined chlorine residual in the preceding 24 hours, a result indicating that the concentration of combined chlorine residual is less than 0.25 milligrams per litre and the concentration of free chlorine residual is less than 0.05 milligrams per litre in,
 - i. a distribution sample that is a grab sample, or
 - ii. two distribution samples that are tested by continuous monitoring equipment, if the two samples were taken 15 minutes or more apart and the later of the two samples was the first sample that was taken 15 minutes or more after the earlier sample.
6. If the drinking-water system is required to provide filtration and a report under subsection 18 (1) of the Act has not been made in respect of turbidity in the preceding 24 hours, a result indicating that turbidity exceeds 1.0 Nephelometric Turbidity Units (NTU) in,
 - i. a grab sample of water taken from a filter effluent line, or
 - ii. two samples of water from a filter effluent line that are tested by continuous monitoring equipment, if,
 - A. two samples were taken 15 minutes or more apart and the later of the two samples was the first sample that was taken 15 minutes or more after the earlier sample, and
 - B. the filter effluent line is directing water to the next stage of the treatment process.
7. If an approval or order, including an OWRA order, identifies a parameter as a health-related parameter and establishes a maximum concentration for the parameter, a result indicating that the parameter exceeds the maximum concentration in a sample of drinking water.
8. A result indicating that the concentration of sodium exceeds 20 milligrams per litre in a sample of drinking water, if a report under subsection 18 (1) of the Act has not been made in respect of sodium in the preceding 60 months.
9. A result indicating that the concentration of fluoride exceeds 1.5 milligrams per litre in a sample of drinking water, if,
 - i. the drinking-water system provides fluoridation and a report under subsection 18 (1) of the Act has not been made in respect of fluoride in the preceding 24 hours, or
 - ii. the drinking-water system does not provide fluoridation and a report under subsection 18 (1) of the Act has not been made in respect of fluoride in the preceding 60 months.

APPENDIX D
TABLE 5
FORT FRANCES DRINKING WATER SYSTEM
AUDIT SAMPLE RESULTS - 31-JAN-2012
SUMMARY OF MICRO, CHEMICAL / PHYSICAL PARAMETERS - NOT HEALTH RELATED

Sample Legend:

Sample # 1 - FORT FRANCES WATER TOWER DISTRIBUTION

Parameter	Units	OBJECTIVE	TYPE OF OBJECTIVE	SAMPLE # 1
1,2-DICHLOROBENZENE	UG/L	3	AO	.05 <=W
ETHYLBENZENE	UG/L	2.4	AO	.05 <=W
M- AND P-XYLENE	UG/L	300	AO	.05 <=W
O-XYLENE	UG/L	300	AO	.05 <=W
TOLUENE	UG/L	24	AO	.05 <=W

Shortforms:

<T	- A measureable trace amount; interpret with caution	AO	- Aesthetic Objective
<W	- No measurable response (zero). <Reported value	OG	- Operational Guideline
<=W	- No measurable response (zero). <Reported value	FTU = NTU	- Nephelometric Turbidity Unit
<	- Actual result is less than reported value	TCU	- True Colour Units
ND	- Not detected	NG/L	- Nanograms per litre
NA	- Result not available	UG/L	- Micrograms per litre
NS	- Not sampled	MG/L	- Milligrams per litre
DEG	- Degree celsius		

Footnotes:

- a Organic Nitrogen = (Total Kjeldahl Nitrogen - (Ammonia + Ammonium))
- b The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.
- c When sulphate levels exceed 500 mg/L, water may have a laxative effect on some people.
- d Applicable for all water at the point of consumption.

APPENDIX D
TABLE 6
FORT FRANCES DRINKING WATER SYSTEM
AUDIT SAMPLE RESULTS - 31-JAN-2012
SUMMARY OF PARAMETERS WITH NO ODWQS

Sample Legend:

Sample # 1 - FORT FRANCES WATER TOWER DISTRIBUTION

Parameter	Units	SAMPLE	
		#	1
1,1,1-TRICHLOROETHANE	UG/L	.05	<=W
1,1,2,2-TETRACHLOROETHANE	UG/L	.2	<=W
1,1,2-TRICHLOROETHANE	UG/L	.1	<=W
1,1-DICHLOROETHANE	UG/L	.05	<=W
1,2-DIBROMOETHANE	UG/L	.1	<=W
1,2-DICHLOROPROPANE	UG/L	.05	<=W
1,3-DICHLOROBENZENE	UG/L	.05	<=W
BROMODICHLOROMETHANE	UG/L	2.4	
BROMOFORM	UG/L	.5	<=W
CHLOROFORM	UG/L	80.7	
CIS-1,2-DICHLOROETHENE	UG/L	.05	<=W
DIBROMOCHLOROMETHANE	UG/L	.2	<=W
DICHLOROACETONITRILE	UG/L	1.5	<T
DIISOPROPYLETHER	UG/L	.05	<=W
STYRENE	UG/L	.05	<=W
TERT-BUTYL METHYL ETHER	UG/L	.05	<=W
TRANS-1,2-DICHLOROETHENE	UG/L	.05	<=W

Shortforms:

<T	-	A measurable trace amount; interpret with caution	NA	-	Result not available
<W	-	No measurable response (zero) : < Reported value	NS	-	Not sampled
<=W	-	No measurable response (zero) : < Reported value	NG/L	-	Nanograms per litre
<	-	Actual result is less than reported value	UG/L	-	Micrograms per litre
ND	-	Not detected	MG/L	-	Milligrams per litre
!NP	-	No appropriate procedure available			

NO DATUM FOUND FOR THE FOLLOWING TABLE(S):

-TABLE 1 - SUMMARY OF PARAMETERS EXCEEDING ODWQS

-TABLE 2 - SUMMARY OF PARAMETERS EXCEEDING HALF OF THEIR HEALTH-RELATED ODWQS

-TABLE 3 - SUMMARY OF MICROBIOLOGICAL PARAMETERS - HEALTH RELATED



Inspection Summary Rating Record

APPLICATION OF THE RISK METHODOLOGY USED FOR MEASURING MUNICIPAL DRINKING WATER SYSTEM INSPECTION RESULTS (FY 2008/2009)

The Ministry of the Environment (MOE) has a rigorous and comprehensive inspection program for municipal residential drinking water systems (MRDWS). Its objective is to determine the compliance of MRDWS with requirements under the *Safe Drinking Water Act, 2002*, associated regulations and MOE Certificates of Approval (CofAs). It is the responsibility of the municipal residential drinking water system owner to ensure their drinking water systems are in compliance with all applicable legal requirements.

This document describes the risk rating methodology which will be applied to the findings of the Ministry's MRDWS inspection results starting in fiscal 2008/2009. The primary goals of introducing this type of assessment are to encourage ongoing improvement of these systems and to establish a way to measure their improvements.

The Ministry's Municipal Residential Drinking Water Inspection Protocol contains up to 14 inspection modules and consists of up to 117 regulatory questions. Those protocol questions are also linked to definitive guidance that Ministry inspectors use when conducting MRDWS inspections. The questions address a wide range of regulatory issues, from administrative procedures to drinking water quality monitoring. Additionally, the inspection protocol contains many other non-regulatory questions.

A team of drinking water specialists in the Ministry have assessed each of the inspection protocol regulatory questions to determine the risk of having a response in the negative (i.e. not complying with the regulatory framework) that would compromise the delivery of safe drinking water. This assessment was based on established provincial risk assessment principles, with each question receiving an assigned risk rating. Based on the number of areas where a system is deemed to be non-compliant during the inspection, and the significance of these areas to administrative, environmental, and health consequences, a risk-based inspection rating is calculated by the Ministry for each MRDWS.

A low inspection rating would not necessarily mean that the drinking water provided by that system is unsafe; however, it does indicate the degree to which there is room for improvement in meeting the province's regulatory requirements.

The inspection rating for a drinking water system will reflect the inspection results of the specific DWS for the reporting year. When the methodology is applied consistently over a period of years, it can serve as a comparative measure both provincially and in relation to the individual system. Each MRDWS and the public will be able to track its performance over time, which will encourage continuous improvement and allow systems to identify specific areas requiring attention.

Ontario Ministry of the Environment

This methodology for assessing inspection findings will be used as a tool to track progress towards the Chief Drinking Water Inspector's goal of achieving 100% compliance with the regulatory framework on a province-wide basis.

Determining Potential to Compromise the Delivery of Safe Water

As noted, each MRDWS Inspection Protocol question was assessed by MOE drinking water specialists to determine the potential to compromise the delivery of safe water using a risk management approach that is aligned with the Government of Ontario's Inspections, Investigations and Enforcement (II&E) Risk Management Framework which, in turn, is built on a universally accepted risk assessment method. Risk management is a systematic approach to identifying potential hazards; understanding the likelihood and consequences of the hazards; and taking steps to reduce their risk if necessary and as appropriate.

The Government of Ontario mandated the II&E Secretariat to address the specific challenges of managing risk in the context of Ontario's regulatory environment and across a variety of ministry program areas. The work of the II&E Secretariat resulted in the development of the II&E Risk Management Framework which has subsequently been adopted as the definitive risk management tool in the Ontario Public Service.

The II&E Risk Management Framework provides a formula to be used in the determination of risk:

$$\text{RISK} = \text{LIKELIHOOD (of the consequence occurring)} \times \text{CONSEQUENCE}$$

Every regulatory question in the MRDWS Inspection Protocol possess' a "likelihood (L)" and an assigned "consequence (C)" value as described in Table 1 and Table 2.

Table 1

Likelihood of Consequence Occurring	Likelihood Value
0% - 0.99% (Possible but highly unlikely)	0
1 – 10% (Unlikely)	1
11 – 49% (Possible)	2
50 – 89% (Likely)	3
90 – 100% (Almost Certain)	4

Ontario Ministry of the Environment

The consequence values (0 through 8) have been selected to align with other risk-based programs and projects currently under development or in use within the Ministry (as outlined in Table 2).

Table 2

Consequence	Consequence Value
Medium Administrative Consequence	1
Major Administrative Consequence	2
Minor Environmental Consequence	3
Minor Health Consequence	4
Medium Environmental Consequence	5
Major Environmental Consequence	6
Medium Health Consequence	7
Major Health Consequence	8

The Question Risk Rating for each MRDWS legislative inspection question is derived from an evaluation of every possible consequence and its corresponding likelihood of occurrence:

- All levels of consequence are evaluated for their potential to occur
- Greatest of all the combinations is selected

The Question Risk Rating quantifies the risk of non-compliance of each question relative to the others. Questions with higher values are those with a potentially more significant impact on drinking water safety and a higher likelihood of occurrence. The highest possible value would be 32 (4×8) and the lowest would be 0 (0×1).

Table 3 presents a sample Question Risk Rating determination.

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Table 3

Does the Operator in Charge ensure that the equipment and processes are monitored, inspected and evaluated?							
Risk = Likelihood × Consequence							
C=1	C=2	C=3	C=4	C=5	C=6	C=7	C=8
Medium Administrative Consequence	Major Administrative Consequence	Minor Environmental Consequence	Minor Health Consequence	Medium Environmental Consequence	Major Environmental Consequence	Medium Health Consequence	Major Health Consequence
L=4 (Almost Certain)	L=1 (Unlikely)	L=2 (Possible)	L=3 (Likely)	L=3 (Likely)	L=1 (Unlikely)	L=3 (Likely)	L=2 (Possible)
R=4	R=2	R=6	R=12	R=15	R=6	R=21	R=16

Application of the Methodology to Inspection Results

Based on the results of a MRDWS inspection, an overall inspection risk rating is calculated. During an inspection, inspectors answer the questions that relate to regulatory compliance and input their responses as “yes”, “no” or “not applicable” into the Ministry’s Laboratory & Waterworks Inspection System (LWIS) database. A “no” response indicates non-compliance. The maximum number of regulatory questions asked by an inspector varies by system (e.g. distribution, stand-alone), type of inspection (e.g. focused, detailed), source type (e.g. groundwater, surface water) as each inspection is based on a list of questions targeted to that individual MRDWS.

The question risk ratings of all non-compliant answers are summed and divided by the sum of the question risk ratings of all questions asked (maximum question rating). The resulting inspection risk rating is subtracted from 100% to arrive at a Final Inspection Rating.

Table 4 provides a **sample** inspection rating for a hypothetical inspection of two questions. In this example, the risk value of all non-compliant responses is 2 and the maximum risk value of all the questions asked is 6. Based on the inspection findings, the MRDWS would have a Total Non-Compliance Rating of 33% (room for improvement) and a Total Inspection Rating of 66%.

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Table 4

Inspection Question	Likelihood Value	Consequence Value	Question Risk Rating	Compliant (Y-N-N/A)	Non-Compliance Rating
Does the Operator in Charge ensure that the equipment and processes are monitored, inspected and evaluated?	3 (Likely)	7 (Medium Health Consequence)	21	NO	21 / 21
Are all required microbiological water quality monitoring requirements being met?	2 (Possible)	8 (Major Health Consequence)	16	YES	0 / 16
Maximum Question Rating			37		
Inspection Risk Rating			21 / 37 = 56%		
Final Inspection Rating			100% - 56% = 44%		

The result of applying this risk-based methodology to inspection results is that the resulting rating accounts for a variety of non-compliance issues. A relatively low rating may result from incidents of non-compliance with one or two high risk requirements, or it may result from incidents of non-compliance with several medium or low risk requirements. Generally, it speaks to the overall efforts of a MRDWS to comply with all of the regulatory requirements that pertain to safe drinking water in the Province of Ontario.

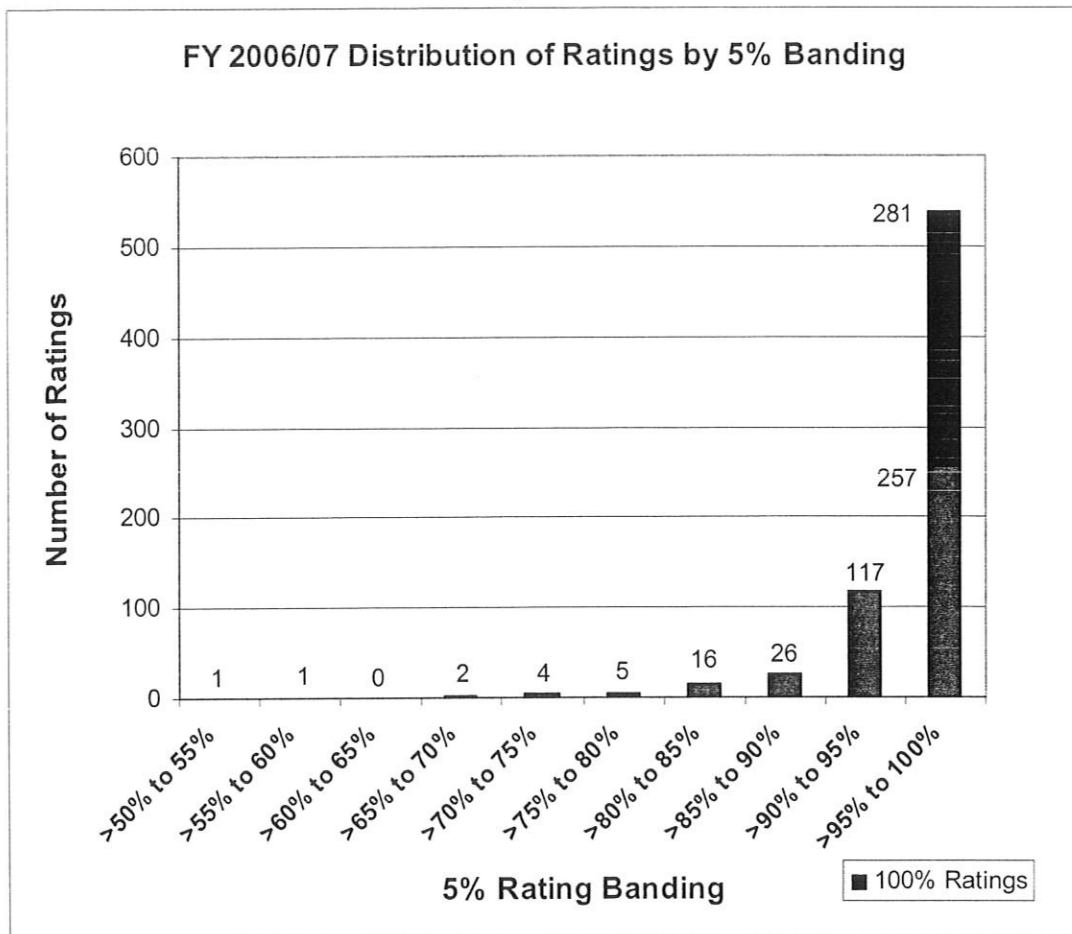
Application of the Proposed Methodology for Public Reporting

The individual MRDWS Total Inspection Ratings will be published, as a banded result, in the Ministry's Chief Drinking Water Inspector's Annual Report covering the current fiscal inspection year.

Figure 1 presents the results of the Fiscal 2006-2007 annual inspections using the 5% banding as described above. Using this method, individual DWS can determine how they compare against all the other inspected facilities without being exposed to individual facility results.

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Figure 1



Reporting Results to MRDWS Owners/Operators

A summary of inspection findings for each system will be generated in the form of a "**Ministry of the Environment - Inspection Summary Rating Record (IRR)**". The findings are grouped into the 14 possible modules of the inspection protocol which would provide the MRDWS owner/operator with information on the areas where they need to improve. The 14 modules are:

1. Source
2. Permit to Take Water
3. Capacity Assessment
4. Treatment Processes
5. Process Wastewater
6. Distribution System
7. Operations Manuals
8. Logbooks

Ontario Ministry of the Environment

9. Contingency and Emergency Planning
10. Consumer Relations
11. Certification and Training
12. Water Quality Monitoring
13. Reporting, Notification and Corrective Actions
14. Other Inspection Findings

Changes to the IRR Methodology Relative to Previous Fiscal Inspection Years

The Ministry of the Environment assured MRDWS stakeholders that the rating methodology would be reviewed every three years. This three year period concludes with the beginning of the current 2008/09 inspection year.

A comprehensive evaluation of the Inspection Rating model used to date revealed numerous areas for improvement:

- Chronic administrative issues & high ratings
- Specific situations ("grey areas") required Supervisor/Manager intervention
- Inspection ratings did not fully integrate detailed risk management principles

The consequence values that were assigned to each relevant regulatory question remained unchanged from April 1, 2005 to March 31, 2008. The rating methodology used over those three years has been modified and now represents an improved metric for the evaluation the risk/safety of operations at MRDWS. This improvement represents a continuous improvement initiative.

Another improvement for the current fiscal inspection year involves the distribution of both the Inspection Report and the IRR immediately at the conclusion of each MRDWS inspection.

Ministry of the Environment - Inspection Summary Rating Record (Reporting Year - 2011-2012)

DWS Name: FORT FRANCES DRINKING WATER SYSTEM
DWS Number: 220000978
DWS Owner: Fort Frances, The Corporation Of The Town Of
Municipal Location: Fort Frances

Regulation: O.REG 170/03
Category: Large Municipal Residential System
Type Of Inspection: Focused
Inspection Date: January 31, 2012
Ministry Office: Kenora Area Office

Maximum Question Rating: 541

Inspection Module	Non-Compliance Rating
Source	0 / 14
Capacity Assessment	0 / 30
Treatment Processes	0 / 77
Operations Manuals	0 / 28
Logbooks	0 / 14
Contingency/Emergency Planning	0 / 7
Certification and Training	0 / 28
Water Quality Monitoring	0 / 277
Reporting & Corrective Actions	0 / 66
Other Inspection Findings	0 / 0
TOTAL	0 / 541

Inspection Risk Rating 0.00%

FINAL INSPECTION RATING: 100.00%

Inspection Rating Record Generated On 14-MAR-12 (Inspection ID: 1-9B17H).

Ministry of the Environment - Detailed Inspection Rating Record (Reporting Year - 2011-2012)

DWS Name: FORT FRANCES DRINKING WATER SYSTEM
DWS Number: 220000978
DWS Owner: Fort Frances, The Corporation Of The Town Of
Municipal Location: Fort Frances

Regulation: O.REG 170/03
Category: Large Municipal Residential System
Type Of Inspection: Focused
Inspection Date: January 31, 2012
Ministry Office: Kenora Area Office

Maximum Question Rating: 541

Inspection Risk Rating	0.00%
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FINAL INSPECTION RATING:	100.00%
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Inspection Rating Record Generated On 14-MAR-12 (Inspection ID: 1-9B17H).

Agenda Item # 10.1 ...

2012- tonnage at landfill site- up-dated March 1st, 2012

5 Year Average

2011

5 Year Average

2012

MONTH	Residential Waste		ICI Waste		Community Waste		Non Com Material		2011 Total Tonne	2007 to 2011 Total Tonne	2012 Total Tonne	Total Fees	2007 to 2011 Fees	Total Fees	2012-2011 Tonnes	2012-2011 Fees
	tonnes	%	tonnes	%	tonnes	%	tonnes	%								
JAN	142.26	36.32	238.74	60.95	10.69	2.73	0.00		418.43	346.33	391.69	\$20,714.03	\$15,588.52	\$20,495.48	-26.74	-\$218.55
FEB	115.26	34.45	210.66	62.96	8.66	2.39	0.00		311.33	289.64	334.58	\$15,825.13	\$13,528.30	\$17,382.70	23.25	\$1,557.57
MAR		#DIV/0!		#DIV/0!		#DIV/0!			400.14	427.20	0.00	\$21,246.91	\$20,622.52		-400.14	-\$1,246.91
APRIL		#DIV/0!		#DIV/0!		#DIV/0!			513.17	614.25	0.00	\$27,639.06	\$29,898.82		-513.17	-\$2,639.06
MAY		#DIV/0!		#DIV/0!		#DIV/0!			765.97	725.95	0.00	\$40,902.27	\$35,046.32		-765.97	-\$40,902.27
JUNE		#DIV/0!		#DIV/0!		#DIV/0!			672.28	721.62	0.00	\$32,497.41	\$35,851.73		-672.28	-\$32,497.41
JULY		#DIV/0!		#DIV/0!		#DIV/0!			553.77	712.57	0.00	\$30,279.15	\$36,493.50		-553.77	-\$30,279.15
AUG		#DIV/0!		#DIV/0!		#DIV/0!			806.88	646.08	0.00	\$45,033.12	\$32,517.70		-806.88	-\$45,033.12
SEPT		#DIV/0!		#DIV/0!		#DIV/0!			613.97	619.27	0.00	\$33,605.87	\$30,007.48		-613.97	-\$33,605.87
OCT		#DIV/0!		#DIV/0!		#DIV/0!			612.80	623.34	0.00	\$33,130.66	\$31,195.82		-612.80	-\$33,130.66
NOV		#DIV/0!		#DIV/0!		#DIV/0!			692.64	567.74	0.00	\$33,980.90	\$27,502.39		-692.64	-\$33,980.90
DEC		#DIV/0!		#DIV/0!		#DIV/0!			421.30	383.14	0.00	\$19,811.03	\$20,929.91		-421.30	-\$19,811.03
Average per month	128.76	#DIV/0!	224.70	#DIV/0!	9.68	#DIV/0!	0.00		565.22	556.43	60.52	\$29,555.46	\$27,431.92			
Total	257.52		449.40		19.35		0.00		6782.68	6677.13	726.27	\$354,665.54	\$329,183.01		-6,056.41	-\$316,787.36

Town of Fort Frances Tonnage

2012

Forecasted

Budgeted

Difference

Residential Tonnage 257.52 3.99%
ICI Tonnage 449.40 6.97%
Coverage material 0.00

f/n:p: 2010Janlandfillsitedata2010



Aircraft Landings 2012
As of March 1st, 2012 - Airport Statistics - Page 1

Month	Bearskin Flights			Bearskin Passengers			Government			Private			Med-I-vacs			International			Commercial			Totals			Variance 2012-2011
	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	2012	2010	2011	
January	90	87	93	447	364	354	0	1	0	4	0	3	41	35	44	3	3	5	50	49	45	188	175	190	-2
February	90	83	80	465	384	380	0	0	0	16	3	7	45	39	45	5	10	4	41	44	40	197	179	176	21
March		88	97		377	381		12	4		6	21		36	45		9	9		61	56	0	212	232	-232
1/4 Total	180	258	270	912	1125	1115	0	13	4	20	9	31	86	110	134	8	22	18	91	154	141	385	566	598	-213
April		92	77		375	329		10	0		5	26		43	30		7	4		83	55	0	240	192	-192
May		95	96		446	374		9	13		14	38		42	46		41	37		82	83	0	283	313	-313
June		98	92		328	429		6	5		8	64		48	47		69	104		99	95	0	328	407	-407
1/2 Total	180	543	535	912	2274	2247	0	38	22	20	36	159	86	243	257	8	139	163	91	418	374	385	1417	1510	-912
July		96	92		381	389		10	2		34	52		39	35		70	97		75	72	0	324	350	-350
August		98	90		395	373		17	0		28	38		39	42		53	62		81	71	0	316	303	-303
September		93	88		389	312		5	4		8	42		52	42		38	53		94	80	0	290	309	-309
3/4 Total	180	830	805	912	3439	3321	0	70	28	20	106	291	86	373	376	8	300	375	91	668	597	385	2347	2472	-962
October		93	88		412	371		17	5		27	36		31	61		20	19		55	72	0	243	281	-281
November		92	93		425	492		4	2		19	9		34	46		3	4		60	52	0	212	206	-206
December		82	78		289	325		0	0		5	4		51	39		1	6		45	46	0	184	173	-173
Total	180	1097	1064	912	4565	4509	0	91	35	20	157	340	86	489	522	8	324	404	91	828	767	385	2986	3132	-660

Fort Frances Airport- Page 2 - Fuel Sales - As of March 1st, 2012																
Fuel Sales Recap - 2012																
	100LL		Jet Trk		Jet Cab		Month	Year								
	Liters	Total	Liters	Total	Liters	Total										
Month																
January	0	0	10,252	10,252	0	0	10,252	10,252	7,308	7,308	10,971	15,989	29,926	16,283	16,095	2,944
February	435	435	6,483	16,735	0	0	6,918	17,170	3,687	10,995	5,782	13,135	21,134	11,782	11,104	3,231
March									10,390	21,385	15,539	9,612	27,435	19,969	16,589	-10,390
April									5,294	26,679	24,825	10,676	22,466	28,609	18,374	-5,294
May									19,790	46,469	25,375	24,033	30,287	47,258	29,349	-19,790
June									25,723	72,192	27,768	22,395	35,995	40,736	30,523	-25,723
July									19,124	91,316	30,455	24,925	33,390	44,875	30,554	-19,124
August									21,467	112,783	33,139	28,250	40,177	41,630	32,933	-21,467
September									22,511	135,294	23,363	18,937	28,822	30,341	24,795	-22,511
October									13,677	148,971	15,033	21,304	16,631	28,020	18,933	-13,677
November									6,785	155,756	17,747	10,754	16,951	16,842	13,816	-6,785
December									2,446	158,202	7,641	7,596	13,083	14,733	9,100	-2,446

TOWN OF FORT FRANCES
Operations and Facilities Division - Environmental Area - Operations Statistics
(February 2012)

STAFFING:

See Operations Statistics (February) 2012 prepared by M. Strachan, Superintendent of Transportation

OVERTIME HOURS - Equivalent Straight Time Hours

See Operations Statistics (February) 2012 prepared by M. Strachan, Superintendent of Transportation

WATER DISTRIBUTION:

Water Main Breaks:

- Number of water main breaks: Two (2)
 - Colonization Rd. W. - 1600 blk. and Church St. 200 blk.

Hydrant Repairs:

- Number of hydrant repairs: None

Hydrant Replacements:

- Number of hydrant replacements: None

Hydrant Installations (NEW):

- Number of new hydrant installations: None

Main Valve Repairs:

- Number of water main valve repairs: None

Water Service Breaks:

- Number of water service breaks: None

Water Service Repairs:

- Number of water service breaks: One (1)
 - 110 First St. E.

Water Service Turn "Off/On":

- Number of water service turn "Off/On": Thirteen (13)
 - 110 First St. E., 546 Second St. E., 1205 Elizabeth St. E., 1003 Colonization Rd. W., 313 Kerr Pl. (2),
 - 814 Minnie Ave., 401 King's Hwy., 1242 Colonization Rd. W., 646 First St. W., 912 Sixth St. E.,
 - 1016 Cornwall Ave. and 909 Portage Ave. N.

Frozen Water Services:

- Number of frozen water services: None



Water Meter Installations/Replacements:

- Number of water meter installations/replacements: None

Backflow Preventer Installations/Replacements:

- Number of backflow preventer installations/replacements: None

Backflow Prevention - Testing:

- Number of backflow preventers tested: None

Other Information:

- Summarized final costs for invoicing, associated with private works
- February 7 to 9, 2012 - P. Lemesurier and G. Wiedenhoeft attended a Operation & Maintenance of Water Distribution Systems course at the Keewaytinook Centre in Dryden.
- February 15, 2012 - M. Allen, P. Lemesurier & G. Wiedenhoeft attended the mandatory MOE Drinking Water course "Treating and Distributing Safe Drinking Water". Course held at the Memorial Sportsplex, Fort Frances.
- February 27, 2012 - Delivered notice of disconnect to customers for delinquent water accounts.

WATER TREATMENT PLANT:

- See Water Treatment Plant monthly report for maintenance activities.
- Mike Allen at Water Treatment Plant for training and to assist in maintenance activities.
- February 15, 2012 - R. White, B. Webb & K. Munro attended the mandatory MOE Drinking Water course "Treating and Distributing Safe Drinking Water". Course held at the Memorial Sportsplex, Fort Frances.
- February 27, 2012 - Completed Water Treatment Plant and Water Tower monthly facility inspection.

SEWERAGE COLLECTION:

Wastewater Main Backups:

- Number of wastewater main backup: None

Sewer Service Repairs:

- Number of sewer service repairs: None

Other Information:

- Cleaned eight (8) plugged sewer services at the following locations:
 - 220 Scott St., 831 Armit Ave., 318 Second St. E., 540 Second St. W., 525 Second St. E.,
 - 620 Scott St., 1108 Second St. E. and 279 McIrvine Rd.
- I & I Study: KGS Group finalizing report on their finding.
- Sewer main flushing (Dead Ends) - Area 10

Private Works:

- CCTV inspected and traced various building sewer services.
- Performed locates for other utilities.

WASTE-WATER TREATMENT FACILITY:

- In receipt of the Wastewater Treatment Facility Monthly Report for February 2012.

WASTE MANAGEMENT:

Garbage Collection:

- Number of complaints regarding garbage collection:
 - Town - 0 complaints, Asselin's - 3 complaints

Sanitary Landfill (Waste Disposal Site):

Landfill Scales functioning properly during this period.

- Amount of residential waste delivered to the landfill:
 - 115,260 kgs (115.26 tonnes)
- Amount of ICI waste delivered to the landfill:
 - 210,660 kgs (210.66 tonnes)
- February 16, 2012 - Booster antenna for wireless debit machine installed.

Recycling:

- Number of complaints regarding recycled materials:
 - Town - 0 complaints, Asselin's - 0 complaint
- Amount of recycled waste diverted from the landfill:
 - 36,350 kgs (36.35 tonnes) Metro

Prepared By: _____

[Signature]

Environmental & Facilities Superintendent

Date: _____

12-03-2012

OPERATIONS AND FACILITIES DIVISION - PUBLIC WORKS AREA
OPERATIONS STATISTICS
February 2012

STAFFING

The following table is a breakdown of lost man shifts during the month:

	2011	2012
WSIB	19.00	0.00
WI/LTD	0.00	0.00
SICK DAYS	12.44	10.63
COMPASSIONATE LEAVE	0.00	0.00
FLOATERS	12.50	10.25
VACATION	16.50	34.00
BANKED TIME USED	16.44	5.75
OFF	1.00	0.50
STATUTORY HOLIDAYS	28.00	29.00
TOTAL	105.88	90.13



OVERTIME HOURS

Equivalent Straight Time Hours:

	2011	2012	2011	2012
	Feb	Feb	Year To	Year To
			Date	Date
ADMINISTRATION	0.00	0.00	0.00	0.00
CAPITAL	0.00	0.00	0.00	0.00
ENGINEERING	0.00	0.00	0.00	0.00
INTERDEPARTMENTAL	0.00	0.00	8.00	0.75
PRIVATE WORK	8.00	0.00	8.00	1.50
RECYCLE/GARBAGE	5.50	0.75	21.50	0.75
ROADS	14.50	3.00	455.50	48.75
SEWER COLLECTION	16.00	11.00	33.50	19.00
SIDEWALKS	0.00	0.00	42.25	0.00
STORES	0.00	6.00	33.00	18.00
VEHICLE & EQUIPMENT	37.50	3.00	149.50	11.50
WATER TREATMENT PLANT	13.75	17.25	30.75	37.00
WATER DISTRIBUTION	63.75	36.25	66.00	64.50
WATER TOWER	0.00	0.00	0.00	0.00
TOTAL	159.00	77.25	848.00	201.75

**TRANSPORTATION REPORT
February 2012**

ROADS:

Storm Water Management – Water:

- Steamed catch basins to get water moving in warm weather
- Cleaned ice and snow from catch basins

Storm Water Management – Rural:

Hard Top Maintenance:

- Levelled utility cuts – twice weekly
- Pothole patching as required

Loose Top Maintenance:

Roadside Maintenance:

- Trimmed trees in lanes in the West End and North End of Town

Winter Control:

- Two (2) events – February 20th and 26th
- Plowed roads, parking lots and lanes as required
- Applied sand/salt to roads as required
- Removed snow from the Downtown area
- Removed snow from Municipal parking lots
- Removed snow from OPP/Fire Department parking lots
- Removed snow at Emergency Crossing on Victoria Avenue at CN Tracks
- Removed snow from the Underpass and Overpass
- Removed snow from the Memorial Sports Centre Parking Lots
- Removed snow from Boulevards along King's Hwy. from Central Ave to McIrvine
- Removed snow piles at lanes
- Removed snow from Blvd at businesses and Churches outside downtown area
- Pushed up piles at Snow Dump daily
- Removed snow piles in cul de sacs and at dead ends

Traffic Operations:

- Repaired and replaced signs as required

Regular Maintenance:

- Garbage pickup - Tuesday and Friday - Downtown and Public Works Shop
- Assisted Engineering with locates and CCTV inspections
- Assisted with tasks at Civic Centre as required
- Maintenance checks at Civic Centre as required
- Repaired any deficiencies found in Routine Road Patrols

Buildings and Grounds:

- Cleaned Shop as required
- Cleaned vehicles and equipment as required
- Installed new shower in PW bathroom/change room
- Continued with repairs to Men's shower in Public Works washroom/change area
- Cleaned snow and ice from solar panels at Public Works building, Memorial Sports Centre, Water Treatment Plant and Day Care Centre one (1) time

Private Work:

Private Crossings:

Sidewalks – Winter:

- Removed snow from Civic Centre sidewalks and applied ice melt as required
- Cleaned snow from Underpass sidewalk and Downtown corners – applied ice melt or sand/salt as required
- Plowed all sidewalks as required
- Cut down ice on Underpass sidewalks with Bobcat

Vehicles and Equipment:

- Preventive Maintenance - pre-trip inspections 5:30 -7:30 a.m. Monday to Friday
- Regular scheduled maintenance of all vehicles and equipment
- Maintenance and repairs of Airport, Fire Dept., WTP, Rec. Dept., Day Care, Handi-Van and Civic Centre vehicles as required

Sewer and Water:

- Provided labour and equipment for Water Distribution and Sewer Collection repairs and maintenance
- Handed out "Water Turn Off Advisories", "Drinking Water Advisories" and "Lifting of Drinking Water Advisories" when required
- Issued "Delinquent Account Notices" and turned off water for non-compliance as required
- Vacuum Excavated to repair curb stop at 110 Third Street East on February 1st.
- Flushed some dead end sewer mains

Public Relations:

Interdepartmental:

- Brian Henttonen provided coverage at the Memorial Sports Centre as an attendant for the week of February 27th to March 2nd.
- Hauled zamboni snow from the Memorial Sports Centre two (2) times

Recycling:

- Emptied glass recycling bin as required
- Pushed up piles in recycling building as required
- Loaded recycling trailer two (2) times
- Emptied bins from drop off centre as required

Training:

Health & Safety:

- A Workplace Inspection was done at the Water Treatment Plant on February 27th
- A Workplace Inspection was done at the Water Tower on February 27th
- A Workplace Inspection was done at the Public Works Building on February 29th
- A Health and Safety Tailgate Talk was held in the Public Works Building Shop on February 29th



Milt Strachan,
Superintendent of Transportation
/sch- March 7, 2012

WASTE DISPOSAL SITE MONTHLY INSPECTION FORM

MONTH: February 2012 INSPECTION DATE/TIME: March 14, 2012 @ 1:20 p.m.

OPERATOR: Tom Veert

TOWN OF FORT FRANCES REPRESENTATIVE: Douglas Herr



	YES	NO
1) Adequate signs posted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2) Scavaging	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3) Operating According to Conditions on Certificate of Approval	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SATISFACTORY UNSATISFACTORY

4) Compaction of Refuse	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5) Cover of Refuse	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6) Housekeeping of Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7) Working Face	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8) Number of Dumping Areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9) Segregation of Refuse	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10) Controlling Litter	<input checked="" type="checkbox"/>	<input type="checkbox"/>

GENERAL COMMENTS:

1. Garbage Disposal Area – Keep garbage covered on a regular basis. Town contacted AbitibiBowater to commence hauling of sludge for cover material all of next week. Garbage turn around area is in satisfactory condition.

2. Steel Refuge Area: Turn around area becoming a little sloppy, contractor to scrap off occasionally.

3. Propane tank disposal area: satisfactory condition.

4. Appliance Refuge Area: satisfactory condition.

Agenda Item # 10.5 ...

5. Wood Refuge: Wood refuge turn around area in satisfactory condition. Beginning to get a little sloppy, ground thawing out.
6. Weigh scale operating well since the last inspect.

c.c. Tom Veert, Contractor
Doug Brown, Manager Operations & Facilities

P:Landfill Inspection Form - February 2012



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Fort Frances WPCP
200 McIrvine Rd
PO Box 712
Fort Frances, Ontario
P9A 3N1
Tel: 807-274-3121
Fax: 807-274-8381

March 12, 2012

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
February 2012 Monthly Report

As per the operating agreement, the attached document is the February 2012 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".

Kelly Cunningham
Senior Operator

For Larry Wachter
Operations Manager

**The Corporation of the Town of Fort Frances
Wastewater Treatment Plant
(Sewage Plant)
February 2012 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 February 2012; 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.

FEBRUARY 2012 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	2.6 mg/L	25 mg/L	15 mg/L	12.5 kg/d	225 kg/d	135 kg/d
Suspended Solids	8.1 mg/L	25 mg/L	15 mg/L	39.3 kg/d	225 kg/d	135 kg/d
Total Phosphorus	0.22 mg/L	1.0 mg/L	1.0 mg/L	1.09 kg/d	9 kg/d	9 kg/d
Ammonia as N	0.89 mg/L					
Nitrite as N	0.16 mg/L					
Nitrate as N	6.16 mg/L					
Total Cl ₂ Residual		<0.01 mg/L (when in use)				
E-Coli		8.8 count/100 ml (geometric mean)		200 cnt/100ml (geometric mean)		E-coli not to exceed 150 organisms/100ml (monthly geometric mean density)
pH				pH range 7.1 to 7.8; average pH was 7.5		
Temperature degrees C				Temperatures ranged from 9.0-10.0 average temperature of effluent at 9.3		

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 February was 4,854.2 m³/day; representing 54% of the design average flow. Total treated flow for the month was 140,772 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	370 +/- @ 8.0% + 410 @ 11%	Litres
Alum	19.5 +/- @ 75 %	Cubic meters
Polymer	40 Bags (1000 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 headcell and grit snail as needed
- Greased GBT, mechanical bar screen and grit snail. Lubricated drive chain on grit snail and bar screen
- Hot water flushed alum lines
- Regular cleaning of head works EW basket strainer
- Exercised portable generators
- Painted new floor grates by garage door
- Pulled and cleaned both grit pumps
- Changed oil all blowers
- Greased all blowers
- Regular cleaning of seal water strainer TFP 9-5
- Cleaned grit from head works inlet channel
- Replaced air filter on blowers 2
- Removed 40L of debris from Headcell inlet
- Hosed grit snail and teacup and removed debris
- Replaced belt exhaust fan EF 03
- Painted lifting capacity on all crane beams
- Repaired garage floor drain
- Installed new GBT belt
- Replaced one upper wash box gasket on the GBT

Pump Stations:

- Ran all gen sets
- Cleaned all seal water strainers
- Central avenue lift station pumps 2 and 3 isolation valves were exercised successfully
- Bell repaired a faulty communication line at Fifth St. lift station
- Plowed snow as required

OPERATIONAL ISSUES

The facility met all operational requirements for the month.

SLUDGE SUMMARY

The volume directed to the gravity belt thickener totaled 680.7 m³ for the month. Hammond Landscaping (Certificate of Approval Hauler # 11000025801) hauled/transported 210.5 m³ (average 11.1 m³/load) to the agricultural drying bed. The Organic Soil Conditioning site has a valid Certificate of Approval - number S-71048-31.

COMPLAINTS

BY-PASS REPORT(S)

There were no by-pass events during the report period.

COMMENTS

Plant power consumption for the month was 685 (x 180 multiplier) kWh.
The inlet to the headcell was cleaned and 40L of debris was removed.

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 2012						Usage % Plant Capacity	Sludge Volume Hauled M3	Removal Efficiency	
	Avg. Day Flow m3	Max Day Flow m3	Total Treated Volume ML	Total		Total Volume ML			CBOD5 Suspended Solids Total Phosphorus	
				ByPass Volume ML	Volume ML					
January	5023.5	5582	155729			155729	56%	186.2		
February	4854.2	5248	140772			140772	54%	210.5		
March							0%			
April							0%			
May							0%			
June							0%			
July							0%			
August							0%			
September							0%			
October							0%			
November							0%			
December							0%			
Sum					0	296501		396.7		
Average	4939		148251			148251	55%			
Max		5582	155729			155729				
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	67.4	2.3	11.3	144.5	7.5	37.7	2.5	0.19	0.93	10.1	6.6	7.9				
February	70.6	2.6	12.5	147.7	8.1	39.3	2.3	0.22	1.09	8.8	7.1	7.8				
March																
April																
May																
June																
July																
August																
September																
October																
November																
December																
Average	69.0	2.5	11.9	146.1	7.8	38.5	2.4	0.2	1.0	9.5	6.9	7.9				
Max	70.6	2.6	12.5	147.7	8.1	39.3	2.5	0.22	1.09	10.1	7.1	7.9				
C of A		2.5	225		25	225		1	9	150	6	9.5				