

TOWN OF FORT FRANCES
WATER SYSTEM
ANNUAL SUMMARY REPORT FOR 2008
(Schedule 22)

PERIOD OF JANUARY 01, 2008 TO DECEMBER 31, 2008

WATER WORKS #220000978

January 01st to December 31st, 2008 - C.C. of A. #3059-6YGRYK

TABLE OF CONTENTS

“A” - Requirements of the Safe Drinking Water Act (SDWA)	Page 3
“B” - Requirements of the Ontario Regulation 170/03 (Amended to O. Reg. 399/07)	Page 4
“C” - Certificate of Approval (C. of A.) #3059-6YGRYK Non- Compliance Issues	Page 5 – 7
“D” - Drinking Water System Inspection Report Non- Compliance Issues with Regulatory Requirements	Page 8
“E” - 2008 – Quantity and Flow Data	Page 8 – 9

APPENDIXES:

Appendix “A” – Certificate of Approval # 3059-6YGRYK	Page 10
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“A” - 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 licence 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 licence or approval issued or granted for the system under this Act.**

**“B” - Requirements of the Ontario Regulation 170/03
(Amended to O. Reg. 399/07)**

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 and any order that the system failed to meet at any time during the period covered by the report and specify the duration of the failure; and
- (b) for each failure referred to in clause (a), describe 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 and daily instantaneous peak flow rates.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system’s approval.

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.

**“C” - Certificate of Approval (C. of A.) #3059-6YGRYK
Non- Compliance Issues**

Compliance with Terms and Conditions – January 01 to December 31, 2008:

Introduction:

Please find in Appendix “A” the Certificate of Approval #3059-6YGRYK. The information below outlines each section of the Certificate of Approval and lists any non-compliance issues.

PART 1 – DRINKING-WATER SYSTEM DESCRIPTION:

1.1 to 1.2 Proposed Works and Existing Water Works:

There are no non-compliance issues that took place under this section in 2008.

PART 2 – DEFINITIONS AND INFORMATION:

2.1 to 2.2 Definitions and Information:

There are no non-compliance issues that took place under this section in 2008.

PART 3 - GENERAL:

3.1 to 3.4 Compliance:

There are no non-compliance issues that took place under this section in 2008.

3.5 Build, etc. in Accordance:

There are no non-compliance issues that took place under this section in 2008.

3.6 to 3.8 Interpretation:

There are no non-compliance issues that took place under this section in 2008.

3.9 to 3.10 Other legal Obligations:

There are no non-compliance issues that took place under this section in 2008.

3.11 to 3.13 Adverse Effects:

There are no non-compliance issues that took place under this section in 2008.

3.14 to 3.15 Change of Owner:

There are no non-compliance issues that took place under this section in 2008.

3.16 Inspections:

There are no non-compliance issues that took place under this section in 2008.

3.17 to 3.18 Information:

There are no non-compliance issues that took place under this section in 2008.

PART 4 - PREFORMANCE:

4.1 Rated Capacity:

There are no non-compliance issues that took place under this section in 2008.

4.2 to 4.3 Increase to Rated Capacity:

There are no non-compliance issues that took place under this section in 2008.

PART 5 – MONITORING AND RECORDING:

5.1 to 5.2 Flow Measuring Devices:

There are no non-compliance issues that took place under this section in 2008.

5.3 to 5.4 Calibration of Flow Measuring Equipment:

There are no non-compliance issues that took place under this section in 2008.

5.5 to 5.6 Additional Sampling – Management of Residue:

There are no non-compliance issues that took place under this section in 2008.

PART 6 – OPERATIONS AND MAINTENANCE:

6.1 to 6.3 Chemical Standards:

There are no non-compliance issues that took place under this section in 2008.

6.4 to 6.6 Operations Manual:

There are no non-compliance issues that took place under this section in 2008.

6.7 to 6.9 Drawings:

There are no non-compliance issues that took place under this section in 2008.

PART 7 – FUTURE ALTERATIONS:

7.1 Approved Future Alterations:

Not Applicable.

7.2 Certificate of Compliance:

Not Applicable.

PART 8 – STUDIES AND UPGRADES REQUIRED:

8.1 General:

There are no non-compliance issues that took place under this section in 2008.

8.2 Requirement not an approval:

There are no non-compliance issues that took place under this section in 2008.

PART 9 – RELIEF FROM REGULATORY REQUIREMENTS:

9.1 Relief from Regulatory Requirement:

Not Applicable.

9.2 Conditions in exchange for relief from regulatory requirements:

Not Applicable.

**“D” - Drinking Water System Inspection Report
Non- Compliance Issues with Regulatory Requirements**

The Ministry of the Environment staff last inspected the Town of Fort Frances' Water Treatment Plant and Water Distribution System on February 4 and 5, 2009. At this time the Town has not yet received the Drinking Water System Inspection Report from the M.O.E. for this inspection. Once it is received it will be presented to Council under separate cover.

“E” - 2008 – Quantity and Flow Data

Rated capacity of the Water Treatment Plant as per the Certificate of Approval #3059-6YGRYK (June 1st, 2007 to December 31st, 2008) – Maximum Flow Rate of 12,000 L/min. and Maximum Daily Volume of 17,000 m³/day.

The Town has never exceeded the maximum flow rate or maximum daily volume during the reporting period of January 1, 2008 to December 31, 2008.

For **Raw** Water the maximum flow rate of 8.12 m³ /min. (8,120 L/min.) which was recorded on February 14, 2008 and the maximum daily volume of 8,190 m³/day was recorded on August 16, 2008, which is approximately 68% and 48%, respectively of the plant's maximum capacity.

The maximum day flow rate for **Treated** Water was 8.86 m³/min. (8,860 L/min.) recorded on August 21, 2008 and the maximum daily volume of 7,140 m³/day was recorded August 27, 2008. The maximum day flow rate and the maximum daily volume represent approximately 74% and 42%, respectively of our plant's maximum capacity.

Quantities and flows were lower during this period due to a water restriction being imposed from May to September 2008 due to the Water Tower (Elevated Storage Tank) being off line for improvements; interior protective lining system, exterior overcoating, safety upgrades and miscellaneous repairs.

See Table 1 on Page 9.

Table 1 – Summary of Quantities and Flow Rates of Water in 2008 from the Water Treatment Plant

RAW FLOWS				
Month	Total Unit 1000 (m³)	Daily Average Unit 1000 (m³)	Max Day Unit 1000 (m³)	Max Daily Instantaneous Peak Flow Rate (m³/min.)
January	187.24	6.04	6.44 Jan 05/08	5.93 Jan 26/08
February	193.73	6.68	8.08 Feb 24/08	8.12 Feb 14/08
March	213.47	6.89	7.84 Mar 04/08	7.34 Mar 05/08
April	203.22	6.77	7.17 Apr 06/08	7.47 Apr 27/08
May	208.84	6.74	7.42 May 17/08	7.46 May 06/08
June	173.41	5.78	7.32 Jun 03/08	6.06 Jun 22/08
July	195.98	6.32	7.31 Jul 06/08	5.96 Jul 13/08
August	209.48	6.76	8.19 Aug 16/08	6.40 Aug 14/08
September	194.70	6.49	7.57 Sept 03/08	7.73 Sept 20/08
October	187.80	6.06	6.63 Oct 05/08	6.63 Oct 12/08
November	155.72	5.19	5.47 Nov 01/08	3.68 Nov 25/08
December	145.42	4.69	5.28 Dec 06/08	5.42 Dec 20/08
Yearly Totals	2269.01	6.20	8.19 Aug 16/08	8.12 Feb 14/08

TREATED FLOWS				
Month	Total Unit 1000 (m³)	Daily Average Unit 1000 (m³)	Max Day Unit 1000 (m³)	Max Daily Instantaneous Peak Flow Rate (m³/min.)
January	137.49	4.44	5.05 Jan 25/08	4.82 Jan 23/08
February	129.81	4.48	6.67 Feb 21/08	6.49 Feb 29/08
March	134.27	4.33	4.60 Mar 25/08	7.84 Mar 05/08
April	125.82	4.19	4.49 Apr 14/08	6.20 Apr 22/08
May	140.27	4.52	5.39 May 24/08	6.71 May 11/08
June	131.45	4.38	5.71 Jun 03/08	7.68 Jun 04/08
July	144.32	4.66	5.12 Jul 08/08	5.60 Jul 10/08
August	167.83	5.41	7.14 Aug 27/08	8.86 Aug 21/08
September	133.50	4.45	6.05 Sept 03/08	7.05 Sept 03/08
October	127.30	4.11	4.72 Oct 04/08	5.01 Oct 24/08
November	114.95	3.83	4.35 Nov 30/08	4.59 Nov 06/08
December	126.45	4.08	5.23 Dec 21/08	8.30 Dec 06/08
Yearly Totals	1613.46	4.41	7.14 Aug 27/08	8.86 Aug 21/08

Appendix “A”

Certificate of Approval #3059-6YGRYK