

**THE TOWN OF RAINY RIVER  
MUNICIPAL WATER SYSTEM  
SUMMARY REPORT  
0. Reg. 170/03, Schedule 22**

**For The Period:**

**January 1, 2019 to December 31, 2019**

**Received by Municipal Office March 9, 2020**

**Prepared For:**

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**Prepared March 9, 2020 By:**

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**Summary Report  
Rainy River Water System 2018**

**Drinking Water Works Permit # 296-201 – Dated August 5, 2016**

**Municipal Drinking Water Licence # 296-101 – Dated August 5, 2016**

**Permit to Take Water # 1073-83VK8T – Dated August 5, 2016**

**Rate of taking shall not exceed a maximum of 1,715 litres per minute and 2,473,024 litres per day.**

**Permit is valid until December 4, 2029**

All sampling and analysis requirements have been met for the year 2019 in accordance with Reg. 170/03.

Microbiological

Reg. 169/03  
Amended to O. Reg. 17/04

Volatile Organics

Reg. 169/03  
Amended to O. Reg. 17/04

Inorganics

Reg. 169/03  
Amended to O. Reg. 17/04

Pesticides and PCB

Reg. 169/03  
Amended to O. Reg. 17/04

Reporting, Notification and Corrective Action

<b>NON COMPLIANCE WITH REGULATORY REQUIREMENTS</b>	<b>ACTIONS REQUIRED</b>	<b>ACTIONS TAKEN</b>
1. Where an activity has occurred that could introduce contamination, all parts of the drinking water system were not disinfected in accordance with Schedule B, Condition 2.3 of the Drinking Water Works Permit.	Effective immediately, operators must ensure that the ministry's Watermain Disinfection Procedure (WDP) is adhered to for all new watermain installations. Records must also be maintained in accordance with Section 4.0 of the WDP. Compliance with the WDP will be reassessed during the next inspection.	
2.		
3.		

## Capacity Assessment

The maximum rated capacity of the Plant is 28.6 L/S. In 2019, the maximum flow of water through the Water Treatment Plant was 30 L/S (i.e. 2,204 m<sup>3</sup> per day) or 8% over the rated capacity.

In 2019 the annual average daily flow was 10.72 L/S (i.e. 554 m<sup>3</sup> per day) or 38% of the capacity of the Plant.

Month	Flows	Highest Instantaneous Peak Flow	Average Daily Instantaneous Peak Flow	Percent of the Rated Capacity 28.6 L/S
January	14,647 m <sup>3</sup>	30.0 L/S	8.90 L/S	108% of rated capacity
February	13,939 m <sup>3</sup>	9.5 L/S	8.13 L/S	34% of rated capacity
March	16,992 m <sup>3</sup>	13.95 L/S	8.82 L/S	50% of rated capacity
April	13,545 m <sup>3</sup>	10.08 L/S	7.91 L/S	36% of rated capacity
May	13,208 m <sup>3</sup>	18.10 L/S	10.96 L/S	65% of rated capacity
June	14,494 m <sup>3</sup>	23.3 L/S	16.15 L/S	83% of rated capacity
July	16,074 m <sup>3</sup>	25.76 L/S	18.34 L/S	92% of rated capacity
August	16,056 m <sup>3</sup>	24.59 L/S	18.00 L/S	88% of rated capacity
September	12,156 m <sup>3</sup>	15.15 L/S	10.67 L/S	54% of rated capacity
October	11,178 m <sup>3</sup>	14.42 L/S	6.90 L/S	51% of rated capacity
November	10,985 m <sup>3</sup>	13.71 L/S	7.03 L/S	49% of rated capacity
December	12,027 m <sup>3</sup>	8.84 L/S	6.86 L/S	31% of rated capacity
Total Flows	165,301 m <sup>3</sup>		<u>Yearly Average Instantaneous Peak Flow</u>	
Average Monthly Flow	13,775 m <sup>3</sup>		10.72 L/S or 38% of rated capacity	61% of the rated capacity

The total flow for 2019 was 165,301 m<sup>3</sup>. The average monthly flow for 2019 was 472 m<sup>3</sup>. The average daily instantaneous peak flow rate was 10.72 L/S which is 38% of the plant's rated capacity.

The highest daily instantaneous peak flow rate was 30.0 L/S (distribution break). This instantaneous flow was 8% over the rated capacity of the plant.

Sodium result tested February 19, 2019      18.2 mg/L

Fluoride result tested February 19, 2019      < 0.020 ug/L

October 2019 running average for THM's was 64.65 ug/L