



OPTIONAL ANNUAL REPORT TEMPLATE

<b>Drinking-Water System Number:</b>	220000969
<b>Drinking-Water System Name:</b>	Rainy River Water System
<b>Drinking-Water System Owner:</b>	Corporation of the Town of Rainy River
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1, 2024, to December 31, 2024

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [X]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [ ]</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p><a href="http://www.rainyriver.ca">www.rainyriver.ca</a>  Town of Rainy River Municipal Office  Town of Rainy River Water Treatment Plant</p> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:  <input style="width: 100px; height: 20px;" type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</p> <p>Number of Interested Authorities you report to: <input style="width: 100px; height: 20px;" type="text"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</p>
---	--

**Note: For the following tables below, additional rows or columns may be added, or an appendix may be attached to the report**

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Town of Rainy River	220000969

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?  
Yes [X] No [ ]



Indicate how you notified system users that your annual report is available and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method \_\_\_\_\_

**Describe your Drinking-Water System**

The Town of Rainy River water is drawn from a surface water intake located in the Rainy River. The Rainy River is part of the Winnipeg River (Arctic) Watershed. The Water Treatment Plan is a Class II conventional surface water treatment plant that uses coagulation flocculation and sedimentation followed by filtration with a dual media anthracite/sand filter. Filtered water is then disinfected with chlorine gas within a dual chamber clear well with a storage capacity of 1,136 m<sup>3</sup>. The treated water is then pumped to the distribution system which serves approximately 925 people.

**List all water treatment chemicals used over this reporting period**

Aluminum Sulfate, Polyelectrolyte, Soda Ash & Chlorine Gas.

**Were any significant expenses incurred too?**

- Install required equipment
- Repair required equipment
- Replace required equipment

**Please provide a brief description and a breakdown of monetary expenses incurred**

Replace Ion Resin	\$28,000
High Lift Pump	\$33,000

**Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre**

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
Jan. 19, 2021	Sodium 20.0	26.0	ug/L	Lower Soda Ash	Jan. 19, 2021

**Microbiological testing done under Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.**

	Number of Samples	Range of E.coli or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)



<b>Raw</b>	49	0 - 326	16 - >2420		
<b>Treated</b>	49	0	0	49	1 - 3
<b>Distribution</b>	98	0	0	49	<1 - 1

**Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.**

	<b>Number of Grab Samples</b>	<b>Range of Results (min #)-(max #)</b>
<b>Turbidity</b>	8760	.11 – .30
<b>Chlorine</b>	8760	1.20 mg/L – 2.39 mg/L
<b>Fluoride (If the DWS provides fluoridation)</b>		

***NOTE:** For continuous monitors use 8760 as the number of samples.*

***NOTE:** Record the unit of measure if it is **not** milligrams per litre.*

**Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order, or other legal instrument.**

<b>Date of legal instrument issued</b>	<b>Parameter</b>	<b>Date Sampled</b>	<b>Result</b>	<b>Unit of Measure</b>

**Summary of Inorganic parameters tested during this reporting period or the most recent sample results**

<b>Parameter</b>	<b>Sample Date</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Exceedance</b>
<b>Antimony</b>	Jan. 10, 2024	<0.60	ug/L	No
<b>Arsenic</b>	Jan. 10, 2024	<1.0	ug/L	No
<b>Barium</b>	Jan. 10, 2024	13	ug/L	No
<b>Boron</b>	Jan. 10, 2024	<50	ug/L	No
<b>Cadmium</b>	Jan. 10, 2024	<0.10	ug/L	No
<b>Chromium</b>	Jan. 10, 2024	<1.0	ug/L	No
<b>Lead</b>	April 11, 2022	<1.0	ug/L	No
<b>Mercury</b>	Jan. 10, 2024	<0.100	ug/L	No
<b>Selenium</b>	Jan. 10, 2024	<1.0	ug/L	No
<b>Sodium</b>	Jan. 10, 2024	18.6	ug/L	No
<b>Uranium</b>	Jan. 10, 2024	<2.0	ug/L	No
<b>Fluoride</b>	Feb 19, 2021	<0.020	ug/L	No
<b>Nitrite</b>	Jan. 10, 2024	<0.010	ug/L	No
<b>Nitrate</b>	Jan. 10, 2024	0.191	ug/L	No

**Summary of Organic parameters sampled during this reporting period or the most recent sample results**

<b>Parameter</b>	<b>Sample Date</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Exceedance</b>



<b>Alachlor</b>	Jan. 10, 2024	<0.050	ug/L	No
<b>Aldicarb</b>	Jan. 10, 2024	<1.0	ug/L	No
<b>Aldrin + Dieldrin</b>	Jan. 10, 2024	<0.040	ug/L	No
<b>Atrazine + N-dealkylated metabolites</b>	Jan. 10, 2024	<0.14	ug/L	No
<b>Azinphos-methyl</b>	Jan. 10, 2024	<0.100	ug/L	No
<b>Bendiocarb</b>	Jan. 10, 2024	<0.10	ug/L	No
<b>Benzene</b>	Jan. 10, 2024	<0.50	ug/L	No
<b>Benzo(a)pyrene</b>	Jan. 10, 2024	<0.0050	ug/L	No
<b>Bromoxynil</b>	Jan. 10, 2024	<0.050	ug/L	No
<b>Carbaryl</b>	Jan. 10, 2024	<0.050	ug/L	No
<b>Carbofuran</b>	Jan. 10, 2024	<0.0250	ug/L	No
<b>Carbon Tetrachloride</b>	Jan. 10, 2024	<0.20	ug/L	No
<b>Chlordane (Total)</b>	Jan. 10, 2024	<0.20	ug/L	No
<b>Chlorpyrifos</b>	Jan. 10, 2024	<0.10	ug/L	No
<b>Cyanazine</b>	Jan. 10, 2024	<0.10	ug/L	No
<b>Diazinon</b>	Jan. 10, 2024	<0.0250	ug/L	No
<b>Dicamba</b>	Jan. 10, 2024	<0.10	ug/L	No
<b>1,2-Dichlorobenzene</b>	Jan. 10, 2024	<0.50	ug/L	No
<b>1,4-Dichlorobenzene</b>	Jan. 10, 2024	<0.50	ug/L	No
<b>Dichlorodiphenyltrichloroethane (DDT) + metabolites</b>	Jan. 10, 2024	<0.20	ug/L	No
<b>1,2-Dichloroethane</b>	Jan. 10, 2024	<0.50	ug/L	No
<b>1,1-Dichloroethylene (vinylidene chloride)</b>	Jan. 10, 2024	<0.50	ug/L	No
<b>Dichloromethane</b>	Jan. 10, 2024	<1.0	ug/L	No
<b>2-4 Dichlorophenol</b>	Jan. 10, 2024	<0.30	ug/L	No
<b>2,4-Dichlorophenoxy acetic acid (2,4-D)</b>	Jan. 10, 2024	<0.50	ug/L	No
<b>Diclofop-methyl</b>	Jan. 10, 2024	<0.100	ug/L	No
<b>Dimethoate</b>	Jan. 10, 2024	<0.050	ug/L	No
<b>Dinoseb</b>	Jan. 10, 2024	<0.20	ug/L	No
<b>Diquat</b>	Jan. 10, 2024	<1.0	ug/L	No
<b>Diuron</b>	Jan. 10, 2024	<1.0	ug/L	No
<b>Glyphosate</b>	Jan. 10, 2024	<0.20	ug/L	No
<b>Heptachlor + Heptachlor Epoxide</b>	Jan. 10, 2024	<0.20	ug/L	No
<b>Lindane (Total)</b>	Jan. 10, 2024	<0.10	ug/L	No
<b>Malathion</b>	Jan. 10, 2024	<0.0250	ug/L	No
<b>Methoxychlor</b>	Jan. 10, 2024	<0.10	ug/L	No
<b>Metolachlor</b>	Jan. 10, 2024	<0.0250	ug/L	No
<b>Metribuzin</b>	Jan. 10, 2024	<0.100	ug/L	No
<b>Monochlorobenzene</b>	Jan. 10, 2024	<0.10	ug/L	No
<b>Paraquat</b>	Jan. 10, 2024	<1.0	ug/L	No
<b>Parathion</b>	Jan. 10, 2024	<1.0	ug/L	No
<b>Pentachlorophenol</b>	Jan. 10, 2024	<0.50	ug/L	No
<b>Phorate</b>	Jan. 10, 2024	<0.0250	ug/L	No
<b>Picloram</b>	Jan. 10, 2024	<0.10	ug/L	No



# Ontario Drinking-Water Systems Regulation O. Reg. 170/03

Polychlorinated Biphenyls(PCB)	Jan. 10, 2024	<0.30	ug/L	No
Prometryne	Jan. 10, 2024	<0.0250	ug/L	No
Simazine	Jan. 10, 2024	<0.100	ug/L	No
THM (NOTE: show latest annual average)	Jan. 10, 2024	87.35	ug/L	No
Temephos	Jan. 10, 2024	<0.50	ug/L	No
Terbufos	Jan. 10, 2024	<0.50	ug/L	No
Tetrachloroethylene	Jan. 10, 2024	<0.50	ug/L	No
2,3,4,6-Tetrachlorophenol	Jan. 10, 2024	<0.50	ug/L	No
Triallate	Jan. 10, 2024	<0.100	ug/L	No
Trichloroethylene	Jan. 10, 2024	<0.50	ug/L	No
2,4,6-Trichlorophenol	Jan. 10, 2024	<0.50	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Jan. 10, 2024	<0.20	ug/L	No
Trifluralin	Jan. 10, 2024	<0.10	ug/L	No
Vinyl Chloride	Jan. 10, 2024	<0.50	ug/L	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
Sodium 20.0	18.6	ug/L	Jan. 10, 2024
THM 100.0	97.3	ug/L	January 2024
THM 100.0	101	ug/L	February 2024
THM 100.0	56.0	ug/L	March 2024
THM 100.0	52.9	ug/L	April 2024
THM 100.0	131.0	ug/L	July 2024
THM 100.0	87.3	ug/L	October 2024
THM 100.0	33.8	ug/L	January 2025