



# **SMOOTH ROCK FALLS DRINKING WATER SYSTEM 2025 ANNUAL COMPLIANCE AND SUMMARY REPORT**

Prepared by the Ontario Clean Water Agency  
on behalf of the Town of Smooth Rock Falls

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## INTRODUCTION

Municipalities throughout Ontario are required to comply with Ontario Regulation 170/03 made under the *Safe Drinking Water Act, 2002*. The Act was passed following recommendations made by Commissioner O'Conner after the Walkerton Inquiry. The Act's purpose is to protect human health through the control and regulation of drinking-water systems. O. Reg. 170/03 regulates drinking water testing, use of licensed laboratories, treatment requirements and reporting requirements.

O. Reg. 170/03 requires the owner to produce an Annual Report, under Section 11. This report must include the following:

1. Description of system and chemical(s) used
2. Description of any major expenses incurred to install, repair or replace equipment
3. Summary of all required testing
4. Summary of any adverse water quality reports and corrective actions

This Annual Report must be completed by February 28 of each year.

The regulation also requires a Summary Report which must be presented and accepted by Council by March 31 of each year for the preceding calendar year reporting period.

The report must list the requirements of the Act, its regulations, the system's Drinking Water Works Permit (DWWP), Municipal Drinking Water Licence (MDWL), Certificate of Approval (if applicable), and any Provincial Officer Order the system failed to meet during the reporting period. The report must also specify the duration of the failure, and for each failure referred to, describe the measures that were taken to correct the failure.

The *Safe Drinking Water Act, 2002* and the drinking water regulations can be viewed at the following website: <http://www.e-laws.gov.on.ca>.

To enable the Owner to assess the rated capacity of their system to meet existing and future planned water uses, the following information is also required in the report.

1. A summary of the quantities and flow rates of water supplied during the reporting period, including the monthly average and the maximum daily flows.
2. A comparison of the summary to the rated capacity and flow rates approved in the systems approval, drinking water works permit or municipal drinking water licence or a written agreement if the system is receiving all its water from another system under an agreement.

The two reports have been combined and presented to council as the Annual Compliance and Summary Report.

## SECTION 11 ANNUAL REPORT

### SYSTEM INFORMATION

Drinking-Water System Name:	SMOOTH ROCK FALLS DRINKING WATER SYSTEM
Drinking-Water System No.:	220007169
Drinking-Water System Owner:	The Corporation of the Town of Smooth Rock Falls
Drinking-Water System Category:	Large Municipal, Residential System
Population:	1,200
Reporting Period:	January 1 to December 31, 2025

### REPORT AVAILABILITY

Hard Copy Available at:	Smooth Rock Falls Municipal Office; 142 First Ave; Smooth Rock Falls ON POL 2B0
Electronic Copy Available:	<a href="http://www.townofsmoothrockfalls.ca/index.htm">http://www.townofsmoothrockfalls.ca/index.htm</a>
Public Notification via:	Public access/notice

### DESCRIPTION OF THE DRINKING WATER SYSTEM

The Smooth Rock Falls Drinking Water System is owned by the Corporation of the Town of Smooth Rock Falls. The treatment system and distribution system is operated by the Ontario Clean Water Agency. This subject system is not interconnected to any other drinking-water systems owned by different owners.

The treatment facility is a surface water treatment plant located next to the Mattagami River which serves as the plant's raw water source. It has a maximum rated capacity of 45 L/s or 3,897 m<sup>3</sup>/day. Water is drawn from the river through a 450 mm diameter intake pipe with 150 mm holes covered with 25 mm mesh which ensures minimal debris is carried into the wet well. The pipe is located 3.66 meters deep and extends 35 meters into the river. Water is gravity fed from the river to an underground wet well having an effective storage volume of 54.1 m<sup>3</sup> at an average river depth of 9.0 meters. The wet well is equipped with three low lift pumps each rated at 22.5 L/s that direct water to the treatment plant.

The treatment plant houses all the main operation facilities such as: two package treatment units, laboratory, garage, washrooms and storage areas. Water treatment consists of coagulation, flocculation, sedimentation, filtration, disinfection and pH control. Two flow meters, located at the inlet of the two package treatment units, monitor the water into the plant.

The raw water entering the plant is flash mixed with soda ash for pH/alkalinity adjustment and aluminum sulphate for coagulation before moving into the two package treatment units. A back up caustic soda feed system is available for pH adjustment if required. Each treatment unit consists of polymer injection into a coagulation/flocculation tank, a sedimentation tank with sludge removal, and dual media anthracite/silica sand filters. Filter backwashes occur

automatically based on differential head pressure or timer and the backwash water is directed to the sanitary sewer for disposal. Water off the filters is measured for turbidity using an on-line analyzer.

Treated water is injected with caustic soda for pH adjustment and sodium hypochlorite for primary disinfection before entering a two-celled clearwell having a storage volume of 715 m<sup>3</sup>. An on-line chlorine residual analyzer monitors the water as it goes to the high lift pumps. Two vertical turbine pumps, each rated at 45 L/s, and equipped with a flow meter, pump the water from the clearwell to the distribution system. Water leaving the treatment plant is treated with ammonium sulphate for chloramination prior to entering the distribution system. A 174 kW diesel generator and fuel storage tank are available to provide emergency power for the entire facility in the event of a power interruption.

The distribution system has a 2281 m<sup>3</sup> capacity water tower, 82 fire hydrants and 2 dead end locations equipped with bleeder.

The Smooth Rock Falls Water Treatment System is classified as a Large Municipal Residential Drinking Water System, which has approximately 782 service connections that serve an estimated population of 1,200 residents.

#### **WATER TREATMENT CHEMICALS USED**

- Sodium Hypochlorite - Disinfection by Chlorination
- Ammonium Sulphate - Disinfection by Chloramination
- Aluminum Sulphate - Coagulation/Flocculation
- Caustic Soda – pH Adjustment
- Polyelectrolyte (Polymer) - Coagulant Aid
- Sodium Carbonate (Soda Ash) – pH and Alkalinity Adjustment

All treatment chemicals are NSF/ANSI approved.

#### **MAJOR EXPENSES INCURRED TO INSTALL, REPAIR OR REPLACE EQUIPMENT**

##### ***Capital Work – 2025***

- Watermain Repairs
- Hydrant Repairs
- Chemical Pumps and Analyzer Parts
- Lifting Device Inspections
- Filter Valve Replacements
- Drum Pump Parts
- Electrical Transformer Replacement
- MDWL Renewal
- Confined Space Equipment Certification
- DWQMS Third Party Audit
- Generator Maintenance
- Fire Extinguisher Inspections
- Highlift Motor #1 and #2 Repairs
- Lowlift #2 Replacement
- Distribution Auto-Flusher Purchase
- Turbidity AWQI Corrective Actions
- Valve Turning Trailer Work

## REPORTING ADVERSE TEST RESULTS AND OTHER PROBLEMS

Details on the notices required 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 or	Sample Date	Details (Parameter, Limit, Result, Corrective Action, Date, etc.)
MAY 26	AWQI 168351 – CATEGORY 2 REPAIR / BWA	<p>There was a leak on the 2" service line for the Highway Maintenance Building (440 Highway 11). Unfortunately, locates and excavation could not be done in a timely manner and the water was shut off on May 5. There was a loss of pressure/supply for the one location prior to any excavation or repair. On May 26, the locates, excavation, and repairs were completed. A boil water advisory was issued for the affected lot.</p> <p>Corrective Action: The plumbing was left to flush overnight to help bring a good residual into the building. Samples were collected on May 27 and May 28. The results came back clean and the BWA was lifted on May 30, 2025.</p>
JULY 23	AWQI 169117 – CATEGORY 2 REPAIR / BWA	<p>There was construction in the Industrial Park to lower the depth of a small section of watermain to accommodate for a new roadside ditch. The site was excavated and an air gap was established for the work. Unfortunately one of the distribution valves would not seal completely and during the work the water level in the trench momentarily rose too high and made contact with the exposed watermain. The water level was lowered and the work continued. All parts were then disinfected and installed in their new position. There was a loss of pressure/supply for the one location (Gemini Power) during the work. A boil water advisory was issued for the site and pressure was restored.</p> <p>Corrective Action: There was no hydrant available downstream of the repair. Water was directed towards Gemini Power only. A hydrant upstream of the repair site was flushed and the service at Gemini was flushed for an extended period. Afterwards, two sets of samples were collected 24-48 hours apart. The results came back clean and the BWA was lifted on July 25, 2025.</p>

**Incident or**
**Sample Date    Details (Parameter, Limit, Result, Corrective Action, Date, etc.)**

NOVEMBER 5

AWQI 170643 – TURBIDITY OVER 1 NTU

An operator noticed an unusual increase in process pH, when checking the chemical pumps they found the GFCI circuit that powers the Alum pump was tripped. The process pH had not reached the alarm state at that time. The failure of the Alum pump caused improper coagulation to occur and as a result the process turbidity began to rise. Filter #1 entered a rinse to waste mode as turbidity reached 0.30 NTU, however, there was an unknown issue that prevented Filter #2 from entering its rinse to waste mode. High turbidity water entered the Clearwell for approximately 36 minutes. Fortunately, prior to the issue reaching the Clearwell, the highlift pumps were off.

Corrective Action: Upon discovery of the issue, the operator manually closed the Clearwell influent valve and disabled the highlift pumps. The drinking water system was supported by the water tower while the Clearwell storage at the plant was drained out and will be refilled with properly treated, low turbidity water. A precautionary BWA was issued on November 6, to ensure water supply was maintained in the tower and fire suppression was not compromised. BWA notices were hand delivered to all buildings on November 5. Sampling began on November 6. Two sets of samples were collected 24-48 hours apart. The results came back clean and the BWA was lifted on November 8, 2025.

*Please refer to the original Notices of Adverse Test Results and Issue Resolution (Schedule 16) for full details*

**SCHEDULE 7 - OPERATIONAL TESTING WITH CONTINUOUS MONITORING**

Continuous Analyzers in Treatment Process	Number of Samples	Range of Results (min to max)	Unit of Measure	Standard
Turbidity (Filter #1)	8760	0.0 – 9.97	NTU	<1.0
Turbidity (Filter #2)	8760	0.0 – 10.0	NTU	<1.0
Chlorine (Free)	8760	0.24 – 3.00	mg/L	-

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

Effective backwash procedures, including filter to waste are in place to ensure that the effluent turbidity requirements are met all times. The plant is also programmed to rinse to waste as soon as the turbidity reaches 0.3 NTU, and will shut down at 1.0 NTU. Thus, the maximum results on Filter 1 and 2 is not representative of the water entering the clearwell.

## SCHEDULE 7 - OPERATIONAL TESTING IN THE DISTRIBUTION SYSTEM

	Number of Samples	Range of Results (min to max)	Unit of Measure	Standard
<b>Combined Chlorine</b>	364	0.89 – 2.91	mg/L	>0.25

**Note:** A total of seven operational checks for chlorine residual in the distribution system are required each week. The owner/operating authority can continue to test one sample per day or test four (4) samples one day and three (3) on a second day. The sample sets must be collected at least 48-hours apart and samples collected on the same day must be from different locations.

## SCHEDULE 10 - MICROBIOLOGICAL TESTING

Sample Type	Number of Samples	<i>E.coli</i> Results (min to max)	Total Coliform Results (min to max)	Number of HPC Samples	Range of HPC Results (min to max)
Raw	52	0 – 24	0 – 430	-	-
Treated	54	0 – 0	0 – 0	52	<10 – 10
Distribution	149	0 – 0	0 – 0	53	<10 – 10
MAC	-	0	0	-	-

Maximum Acceptable Concentration (MAC) applies only to treated or distribution samples

## SCHEDULE 13 - NITRATE AND NITRITE AT THE WATER TREATMENT PLANT

Date of Sample	Nitrate Result Value (mg/L)	Nitrite Result Value (mg/L)	Exceedance
January 7, 2025	0.12	<0.05	No
April 14, 2025	0.18	<0.05	No
July 7, 2025	<0.05	<0.05	No
October 15, 2025	<0.05	<0.05	No
MAC	10	1	-

MAC – Maximum Acceptable Concentration

## SCHEDULE 13 - TOTAL TRIHALOMETHANES IN THE DISTRIBUTION SYSTEM

Date of Sample	Result (ug/L)	Running Four Quarter Average	Exceedance
January 7, 2025	39.9	49.9	No
April 14, 2025	39.9	53.2	No
July 7, 2025	127	63.4	No
October 15, 2025	59.1	66.5	No

Maximum Acceptable Concentration (MAC) for Trihalomethanes = 100 ug/L Four Quarter Running Average

## SCHEDULE 13 – HALOACETIC ACIDS (HAA) IN THE DISTRIBUTION SYSTEM

Date of Sample	Result (ug/L)	Running Four Quarter Average	Exceedance
January 7, 2025	28	51.8	No
April 14, 2025	21	46.5	No
July 7, 2025	123	53.8	No
October 15, 2025	42	53.5	No

Maximum Acceptable Concentration (MAC) for Haloacetic Acids = 80 ug/L Four Quarter Running Average

## SCHEDULE 13 – SODIUM AT WATER TREATMENT PLANT

Date of Sample	Result (mg/L)	Maximum Acceptable Concentration	Exceedance
October 24, 2023	52.4	20	Yes (AWQI 163919)
October 30, 2023	59.8	20	Yes - Resample

**Note:** sample required every 60 months

## SCHEDULE 13 – FLUORIDE TESTED AT WATER TREATMENT PLANT

Date of Sample	Result (mg/L)	Maximum Acceptable Concentration	Exceedance
October 24, 2023	<0.05	1.5	No

**Note:** sample required every 60 months

## SCHEDULE 15.1 – LEAD IN THE DISTRIBUTION

The Smooth Rock Falls drinking water system qualified for the 'Exemption from Plumbing Sampling' as described in section 15.1-5 (9) and 15.1-5 (10) of Ontario Regulation 170/03.

As such, the system was required to test for total alkalinity and pH in two distribution samples collected during the periods of December 15 to April 15 and June 15 to October 15. This testing is required in every 12-month period with lead testing in every third 12-month period.

Sampling Dates	Number of Samples	Range of Results (min to max)		
		Lead (ug/L)	pH	Alkalinity (mg/L)
<b>Winter Period</b>				
April 10, 2023	2	<0.1 – <0.1	6.94 – 7.04	43 – 49
January 7, 2025	2	-	6.79 – 6.85	63 – 76
<b>Summer Period</b>				
October 4, 2023	2	<0.1 – <0.1	7.02 – 7.10	67 – 68
July 7, 2025	2	-	7.23 – 7.30	75 – 77

MAC for lead is 10 ug/L

## SCHEDULE 23 - INORGANIC PARAMETERS SAMPLED AT THE WATER TREATMENT PLANT

Sample Date: October 15, 2025

Parameter	Result	MAC	MAC Exceedance	1/2 MAC Exceedance
Antimony	<0.5	6.0	No	No
Arsenic	<0.5	10.0	No	No
Barium	5	1000.0	No	No
Boron	11	5000.0	No	No
Cadmium	<0.1	5.0	No	No
Chromium	<1	50.0	No	No
Mercury	<0.1	1.0	No	No
Selenium	<0.2	50.0	No	No
Uranium	<0.5	20.0	No	No

MAC – Maximum Acceptable Concentration

No inorganic parameter(s) exceeded half the standard found in Schedule 2 of the Ontario Drinking Water Standard (ODWS) during the reporting period

## SCHEDULE 24 - ORGANIC PARAMETERS SAMPLED AT THE WATER TREATMENT PLANT

Sample Date: October 15, 2025

Parameter	Result	MAC	MAC Exceedance	1/2 MAC Exceedance
1,1-Dichloroethylene	<0.3	14	No	No
1,2-Dichlorobenzene	<0.2	200	No	No
1,2-Dichloroethane	<0.2	5	No	No
1,4-Dichlorobenzene	<0.3	5	No	No
2,3,4,6-Tetrachlorophenol	<0.3	100	No	No
2,4,6-Trichlorophenol	<0.2	5	No	No
2,4-D (2,4-Dichlorophenoxy acetic acid)	<0.287	100	No	No
2,4-Dichlorophenol	<0.2	900	No	No
Alachlor	<0.257	5	No	No
Atrazine + N-dealkylated metabolites	<0.5	5	No	No
Azinphos-methyl	<0.193	20	No	No
Benzene	<0.1	1	No	No
Benzo(a)pyrene	<0.01	0.01	No	No*
Bromoxynil	<0.0766	5	No	No
Carbaryl	<0.5	90	No	No
Carbofuran	<0.5	90	No	No

Parameter	Result	MAC	MAC Exceedance	1/2 MAC Exceedance
Carbon Tetrachloride	<0.2	2	No	No
Chlorobenzene (Monochlorobenzene)	<0.5	80	No	No
Chlorpyrifos	<0.193	90	No	No
Diazinon	<0.193	20	No	No
Dicamba	<0.067	120	No	No
Dichloromethane (Methylene Chloride)	<1	50	No	No
Diclofop-methyl	<0.0957	9	No	No
Dimethoate	<0.193	20	No	No
Diquat	<0.4	70	No	No
Diuron	<0.5	150	No	No
Glyphosate	<10	280	No	No
Malathion	<0.193	190	No	No
MCPA (2-methyl-4-chlorophenoxyacetic acid)	<4.79	100	No	No
Metolachlor	<0.129	50	No	No
Metribuzin	<0.129	80	No	No
Paraquat	<0.2	10	No	No
Pentachlorophenol	<0.3	60	No	No
Phorate	<0.129	2	No	No
Picloram	<0.067	190	No	No
Prometryne	<0.0643	1	No	No
Simazine	<0.193	10	No	No
Terbufos	<0.129	1	No	No
Tetrachloroethylene	<0.3	10	No	No
Total PCBs	<0.05	3	No	No
Triallate	<0.129	230	No	No
Trichloroethylene	<0.2	5	No	No
Trifluralin	<0.129	45	No	No
Vinyl Chloride	<0.1	1	No	No

Note\*: Benzo(a)pyrene – Schedule 13-5 of O. Reg. 170/03 requires increased frequency of sampling if an analytical result obtained for any of the parameters listed in Schedule 24 exceeds one half of the MAC. The Ministry has set the reporting detection limit (RDL) for Benzo[a]pyrene at 50 per cent or more of the MAC, due to the limitations of the current analytical methods to achieve lower detection limits. The RDL for benzo[a]pyrene is 0.01 ug/L. For this parameter, a licenced laboratory must be able to achieve a method detection limit (MDL) at least equal to the RDL. A positive result above their MDL would trigger increased frequency of sampling, but a result equal to their MDL would not.

MAC – Maximum Acceptable Concentration

No organic parameter(s) exceeded half the standard found in Schedule 2 of the ODWS during the reporting period

**ADDITIONAL TESTING AND SAMPLING**

There are no requirements for additional sampling and testing

**SCHEDULE 22 - SUMMARY REPORTS FOR MUNICIPALITIES**

This report is a summary of water quality information for the Smooth Rock Falls Water Treatment System. It is published in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation 170/03 for the reporting period of January 1 to December 31, 2025 and must be submitted to members of council.

The report must include:

- Any requirements the system failed to meet during the reporting period
- A summary of quantities and flow rates and a comparison to the imposed limits

**PERMITS AND LICENCES**

Municipal Drinking Water Licence (MDWL)	217-101 Issued February 27, 2021
Drinking Water Works Permit (DWWP)	217-201 Issued February 27, 2021
Permit to Take Water (PTTW)	1214-B9EPWK Expires February 19, 2029

**REQUIREMENTS THE SYSTEM FAILED TO MEET**

Compliance with the Safe Drinking Water Act involves conforming to the system's approval and any order issued at any time during the period covered by this report. The duration of the failure and details of the actions that were taken to correct the failure must be described.

The following table lists, to my knowledge, the requirements of the Act, its Regulations, the system's Approvals and any Provincial Officer Order issued during the 2025 reporting period.

## SUMMARY OF REQUIREMENTS THE SYSTEM FAILED TO MEET

Legislation	Requirement(s) the System Failed to Meet, Corrective Actions and Status
O. REG 170/03 SCHEDULE 10-2 (3)	<p>HETEROTROPHIC PLATE COUNT ANALYSIS WAS NOT COMPLETED ON A DISTRIBUTION SAMPLE FOR THE WEEK OF JUNE 30, 2025</p> <p>June 30 – A new operator was attempting to rotate the HPC location for analysis, however, they mistakenly selected the raw water sample for the HPC analysis. As a result, no distribution sample was analyzed for HPC on the week of June 30, 2025. For the month of June, HPC was still completed on more than 25% (4 out of 13) distribution samples.</p> <p>Corrective Action: The new operator was notified of the mistake and was explained about the requirements. An OIC will be reviewing the chain of custodies prior to shipping.</p>

## SUMMARY OF FLOW RATES

For the purpose of enabling the owner of the system to assess the rated capacity of their system to meet existing and future planned water uses, the following information is also required in the report. Under schedule 22-2(3) of Ontario Regulation 170/03, the Summary Report must include the following:

1. A summary of the quantities and flow rates of water supplied, including the monthly average and the maximum daily flows
2. A comparison of both the average and maximum flow rate summary to the rated capacity approved in the systems approval, drinking water works permit or municipal drinking water licence

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 the total monthly volumes. A comparison of the water data is made to the rated capacity and flow rates specified in the system’s Municipal Drinking Water Licence.

## DAILY RAW WATER USAGE SUMMARY

	Maximum (L/min)	Maximum (m <sup>3</sup> /d)	Average (m <sup>3</sup> /d)	Total Usage (m <sup>3</sup> )
January	969	1,270	1,183	36,680
February	1,045	1,264	1,169	32,726
March	1,013	1,264	1,254	38,877
April	1,013	1,288	1,061	31,843
May	1,008	1,303	1,094	33,903
June	1,039	956	855	25,659
July	1,003	1,042	881	27,324
August	1,013	1,044	890	27,582
September	1,184	1,136	952	28,547
October	1,087	1,036	895	27,741
November	1,142	1,290	1,063	31,876
December	1,017	1,175	1,067	33,091

## DAILY VOLUME OF TREATED WATER INTO THE DISTRIBUTION SYSTEM

	Total Usage (m <sup>3</sup> )	Average (m <sup>3</sup> /d)	Maximum (m <sup>3</sup> /d)	% Rated Capacity
January	27,165	876	1,056	22.5
February	23,808	850	1,059	21.8
March	28,884	932	1,030	23.9
April	26,089	870	1,102	22.3
May	28,803	929	1,224	23.8
June	22,482	749	945	19.2
July	23,618	762	915	19.6
August	23,517	784	964	20.1
September	25,574	852	1,095	21.9
October	24,359	786	927	20.2
November	26,478	883	1,131	22.6
December	27,786	896	1,023	23.0

## SUMMARY OF FLOW COMPARISON

### COMPARISON OF RAW FLOWS TO SYSTEM'S PERMIT TO TAKE WATER

<b>Permit to Take Water Limits (PTTW) - maximum</b>	<b>3,897 m<sup>3</sup>/day</b>	<b>3,592 L/min</b>
Average Daily Flow for 2025	1,030 m <sup>3</sup> /day	715 L/min
Maximum Daily Flow for 2025	1,303 m <sup>3</sup> /day	1,184 L/min
Total Raw Water Used in 2025	375,849 m <sup>3</sup>	-

### COMPARISON OF TREATED FLOWS TO SYSTEM'S MUNICIPAL DRINKING WATER LICENCE

<b>Rated Capacity of the Plant (MDWL)</b>	<b>3,897 m<sup>3</sup>/day</b>	-
Average Daily Flow for 2025	845 m <sup>3</sup> /day	21.7 % of the rated capacity
Maximum Daily Flow for 2025	1,224 m <sup>3</sup> /day	31.4 % of the rated capacity
Total Treated Water Produced in 2025	308,563 m <sup>3</sup> /a	-

Based on the information above, the plant is able to meet the demands of the consumers.