

# Newington Drinking Water System

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Waterworks # 220008051  
System Category – Large Municipal Residential

## 2025 Annual Water Report

Prepared For: Township of South Stormont

Reporting Period of January 1<sup>st</sup> – December 31<sup>st</sup> 2025

Issued: February 18, 2026

Revision: 0

Operating Authority:



This report has been prepared to satisfy the annual reporting requirements in O.Reg 170/03 Section 11 and Schedule 22

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## Revision History

Date	Revision #	Revision Notes
February 18, 2026	0	Issued Annual Report

## Report Availability

This system does not serve more than 10,000 residence and the annual reports will be available to residents at the Township of South Stormont municipal office, located at 2 Mille Roches Road, Long Sault, ON. The report is also available on the Township website ([www.southstormont.ca](http://www.southstormont.ca)).

## Compliance Report Card

Compliance Event	# of Events
Ministry of Environment Inspections	January 23, 2025 Inspection Rating - 100%
Ministry of Labour Inspections	0
QEMS External Audit	Treatment -Certificate of Accreditation issued May 30, 2025 Full scope and Desk top audits completed Distribution – Desktop Audit and Onsite Audit Complete
AWQI's/BWA	0
Non-Compliance	0
Spills	0
Watermain Breaks	0
Community Complaints	0

## System Process Description

### Raw Source

The Newington DWS draws groundwater from two wells. The wells are operated in series. The first well, known as the “Kraft” well is the primary source of water. It is a dug well which was originally installed in 1937. In dry periods, when the water level hits a minimum depth in the Kraft Well, the pump in the second well, the “Fairgrounds” well, is activated to pump water to the Kraft Well. The Fairgrounds Well is a drilled well originally installed in 1979.

## Treatment

Disinfection is supplied by sodium hypochlorite. The metering pump rate is set to correspond with the groundwater pumping rate and the chlorine residual in the distribution system. Two filter banks (North and South) comprised of 3 filters each, only one filter bank operates at any given time and the other is isolated. Pumping is activated by a pressure drop in the distribution system. It maintains pressure by pressure tanks attached to the distribution system feeder main. A 21 m length of 600 mm diameter pipe between the plant and the distribution system provides additional chlorine contact time prior to the first user. Treated water leaving the plant is continuously monitored for flow, chlorine residual and turbidity.

### Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Sanisol

## Distribution

The distribution system that serves the Village of Newington consist of approximately 2.9 km of 4" PVC distribution piping. The system is a looped with two flushing ports and one flushing line. The system includes shut-off valves for isolation. Pressure within the distribution system is created and maintained through the use of pneumatic tanks located within the Water Treatment Plant.

## Summary of Non-Compliance

### Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
There were no adverse Water Quality incidents reported during the reporting period.						

### Non-Compliance

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
There were no non-compliance incidents reported during the reporting period.				

### Non-Compliance Identified in a Ministry Inspection:

Legislation	requirement(s) system failed to meet	duration of the failure	Corrective Action	Status
There was no actions identified in the received inspection report.				

## Community Complaints

Date	Location	Brief Detail	Corrective Action
There was no Community Complaints in 2025.			

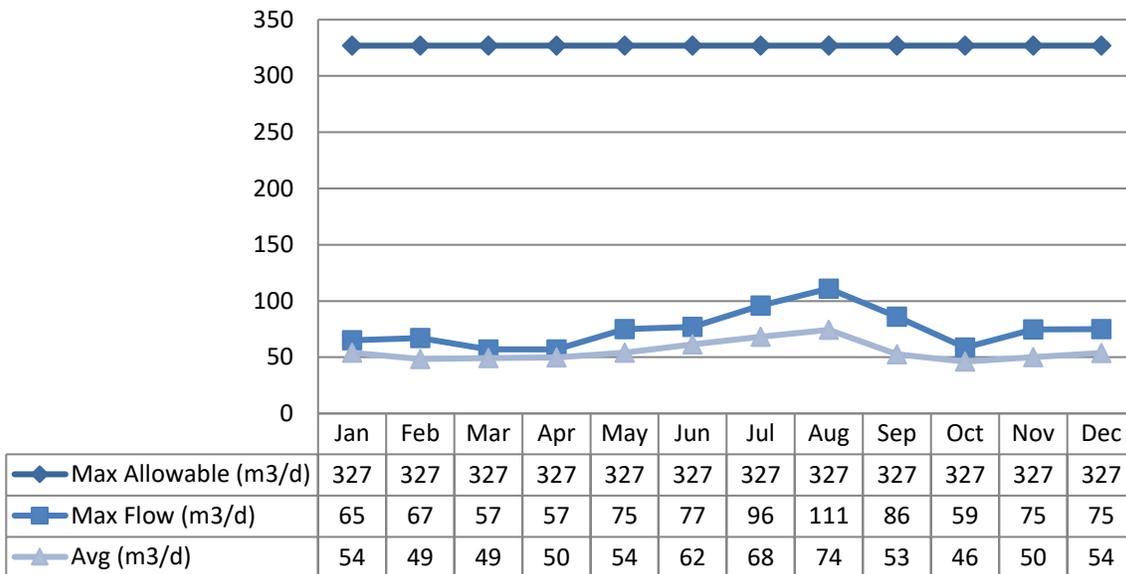
## Flows

### Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water. Raw flow data for 2025 was submitted to the Ministry electronically under Permit #P-5764-9XYMDS. The submission confirmation can be found attached in Appendix A.

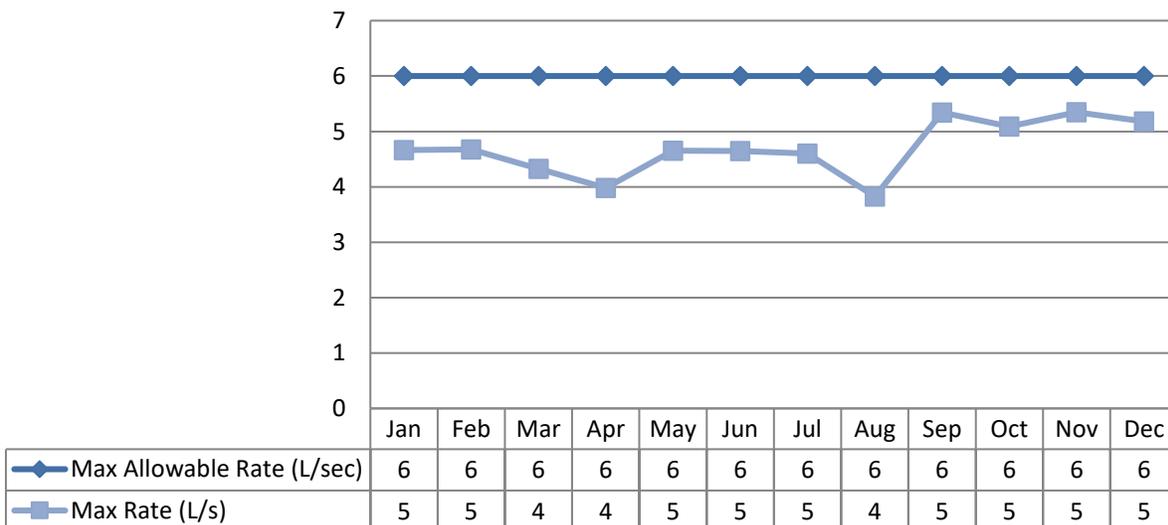
#### Kraft Well Flows (m3/d)

Max Allowable Flow PTTW



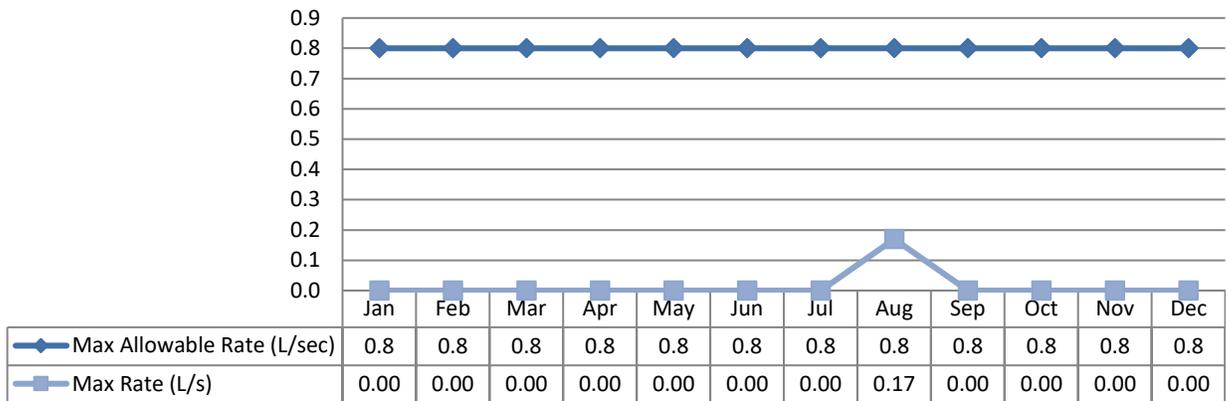
#### Kraft Well – Maximum Flow Rate (L/s)

Max allowable rate - PTTW



Fairgrounds Well– Maximum Flow Rate (L/s)

Max allowable rate - PTTW

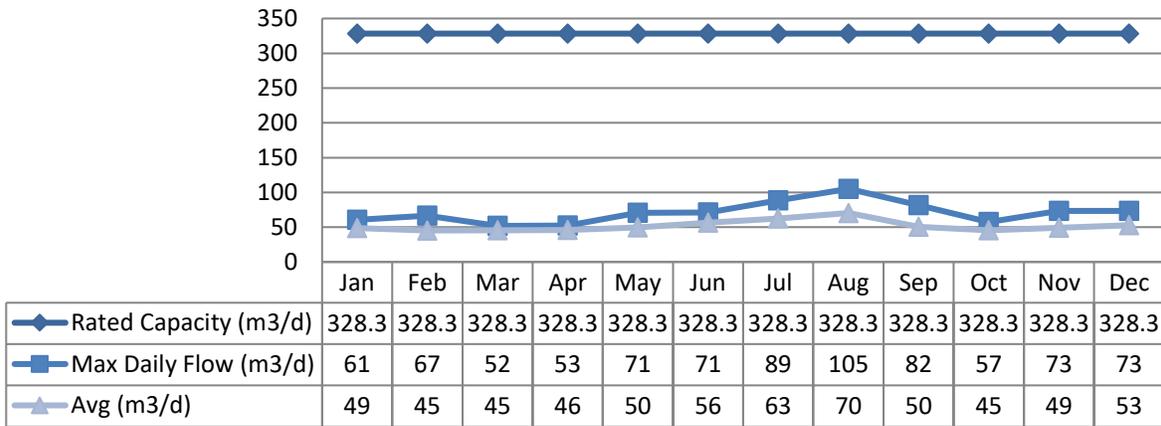


Treated Water Flows

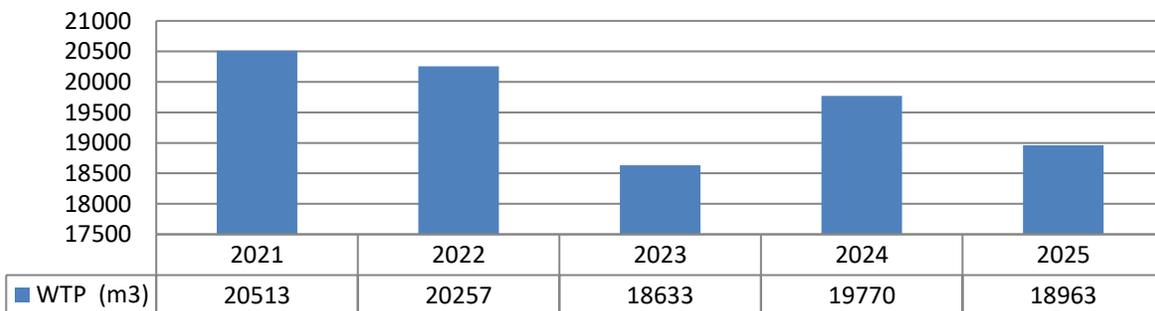
The Treated Water flows are regulated under the Municipal Licence.

Treated Flows

Rated Capacity - MDWL



Annual Total Flow Comparison



\*Fairgrounds Well total annual flow from August 2025 is 3.2 m<sup>3</sup>.

## Regulatory Sample Results Summary

### Microbiological Testing

	# of Samples Collected	Range of E.Coli		Range of Total Coliform Results		# of HPC Samples	Range of HPC Results	
		Min	Max	Min	Max		Min	Max
Raw Well #2 (Fairgrounds)	6	0	0	0	0	0	N/A	N/A
Raw Well #1 (Kraft)	52	0	0	0	0	0	N/A	N/A
Treated Water	52	0	0	0	0	52	<2	2
Distribution System	95	0	0	0	0	51	<2	4

### Operational Testing

Parameter & Sample Type	No. of Samples Collected	Range of Results		
		Minimum	Average	Maximum
Turbidity; On-Line (NTU)- Filter	8760	0.01	0.03	0.03
Turbidity; In-House (NTU)- RW1 Kraft Well	12	0.22	0.34	0.46
Total Chlorine Residual; In-House (mg/L)- TW	52	1.04	1.52	1.90
Free Chlorine Residual; In-House (mg/L)- TW	130	0.93	1.54	1.90
Free Chlorine Residual; On-Line (mg/L)- TW	8760	0.42	1.52	1.86

NOTE: spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg 170/03

### Inorganic Parameters

These parameters are tested as a requirement under 170/03. Sodium and Fluoride are required to be tested every 60 months. Nitrate and Nitrite are tested quarterly and the metals are tested annually as required under 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg 169/03
- MDL = Method Detection Limit

Treated Water	Sample Date (yyyy/mm/dd)	Result	MAC	Exceedance	
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW	2025/05/07	< MDL 0.1	6	No	No
Arsenic: As (ug/L) - TW	2025/05/07	< MDL 0.1	10	No	No
Barium: Ba (ug/L) - TW	2025/05/07	42	1000	No	No
Boron: B (ug/L) - TW	2025/05/07	6	5000	No	No
Cadmium: Cd (ug/L) - TW	2025/05/07	< MDL 0.015	5	No	No
Chromium: Cr (ug/L) - TW	2025/05/07	< MDL 1	50	No	No
Mercury: Hg (ug/L) - TW	2025/05/07	< MDL 0.02	1	No	No
Selenium: Se (ug/L) - TW	2025/05/07	< MDL 1	50	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Result	MAC	Exceedance	
				MAC	1/2 MAC
Uranium: U (ug/L) - TW	2025/05/07	0.38	20	No	No
<b>Additional Inorganics</b>					
Nitrate : (mg/L) - TW	2025/01/08	7	10	No	Yes
Nitrate : (mg/L) - TW	2025/02/05	6.85	10	No	Yes
Nitrate : (mg/L) - TW	2025/02/12	6.87	10	No	Yes
Nitrate : (mg/L) - TW	2025/03/05	6.75	10	No	Yes
Nitrate : (mg/L) - TW	2025/04/09	7.48	10	No	Yes
Nitrate : (mg/L) - TW	2025/05/05	7.58	10	No	Yes
Nitrate : (mg/L) - TW	2025/05/07	7.6	10	No	Yes
Nitrate : (mg/L) - TW	2025/06/02	7.67	10	No	Yes
Nitrate : (mg/L) - TW	2025/07/09	7.77	10	No	Yes
Nitrate : (mg/L) - TW	2025/08/05	8.48	10	No	Yes
Nitrate : (mg/L) - TW	2025/08/21	8.87	10	No	Yes
Nitrate : (mg/L) - TW	2025/09/04	9.23	10	No	Yes
Nitrate : (mg/L) - TW	2025/10/08	8.86	10	No	Yes
Nitrate : (mg/L) - TW	2025/11/03	9.17	10	No	Yes
Nitrate : (mg/L) - TW	2025/11/18	9.3	10	No	Yes
Nitrate : (mg/L) - TW	2025/12/01	9.13	10	No	Yes
Nitrite : (mg/L) - TW	2025/02/12	<MDL 0.05	1	No	No
Nitrite : (mg/L) - TW	2025/05/07	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW	2025/08/21	0.08	1	No	No
Nitrite : (mg/L) - TW	2025/11/18	0.05	1	No	No
Sodium / Na (mg/L) - TW	2022/05/09	15.7	20*	No	Yes

\*There is no "MAC" for Sodium. 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.

#### Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg 170/03. This system is under reduced sampling. Lead samples are to be collected in 2028. Lead samples have been collected in 2025.

Distribution System	Number of Sampling Points	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
			Minimum	Maximum		
Alkalinity (mg/L)	2	2	239	243	N/A	N/A
pH	2	2	7.53	7.70	N/A	N/A
Lead (ug/l)	2	2	0.18	0.23	10	0

## Organic Parameters

These parameters are tested annually as a requirement under O.Reg 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
1,1-Dichloroethylene (ug/L)-TW	2025/05/07	< MDL 0.5	14	No	No
1,2-Dichlorobenzene (ug/L)-TW	2025/05/07	< MDL 0.5	200	No	No
1,2-Dichloroethane (ug/L)-TW	2025/05/07	< MDL 0.5	5	No	No
1,4-Dichlorobenzene (ug/L)-TW	2025/05/07	< MDL 0.5	5	No	No
2,3,4,6-Tetrachlorophenol (ug/L)-TW	2025/05/07	< MDL 0.2	100	No	No
2,4,6-Trichlorophenol (ug/L)-TW	2025/05/07	< MDL 0.2	5	No	No
2,4-Dichlorophenol (ug/L)-TW	2025/05/07	< MDL 0.2	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)-TW	2025/05/07	< MDL 1	100	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)-TW	2025/05/07	< MDL 10	100	No	No
Alachlor (ug/L) -TW	2025/05/07	< MDL 0.3	5	No	No
Atrazine + N-dealkylated metabolites (ug/L)-TW	2025/05/07	< MDL 0.5	5	No	No
Azinphos-methyl (ug/L)-TW	2025/05/07	< MDL 1	20	No	No
Benzene (ug/L)-TW	2025/05/07	< MDL 0.5	1	No	No
Benzo(a)pyrene (ug/L)-TW	2025/05/07	< MDL 0.006	0.01	No	Yes
Bromoxynil (ug/L)-TW	2025/05/07	< MDL 0.5	5	No	No
Carbaryl (ug/L)-TW	2025/05/07	< MDL 3	90	No	No
Carbofuran (ug/L) -TW	2025/05/07	< MDL 1	90	No	No
Carbon Tetrachloride (ug/L) -TW	2025/05/07	< MDL 0.2	2	No	No
Chlorpyrifos (ug/L) -TW	2025/05/07	< MDL 0.5	90	No	No
Diazinon (ug/L)-TW	2025/05/07	< MDL 1	20	No	No
Dicamba (ug/L)-TW	2025/05/07	< MDL 1	120	No	No
Dichloromethane (Methylene Chloride) (ug/L)-TW	2025/05/07	< MDL 5	50	No	No
Diclofop-methyl (ug/L)-TW	2025/05/07	< MDL 0.9	9	No	No
Dimethoate (ug/L)-TW	2025/05/07	< MDL 1	20	No	No
Diquat (ug/L)-TW	2025/05/07	< MDL 5	70	No	No
Diuron (ug/L)-TW	2025/05/07	< MDL 5	150	No	No
Glyphosate (ug/L)-TW	2025/05/07	< MDL 25	280	No	No
Malathion (ug/L)-TW	2025/05/07	< MDL 5	190	No	No
Metolachlor (ug/L)-TW	2025/05/07	< MDL 3	50	No	No
Metribuzin (ug/L)-TW	2025/05/07	< MDL 3	80	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)-TW	2025/05/07	< MDL 0.5	80	No	No
Paraquat (ug/L)-TW	2025/05/07	< MDL 1	10	No	No
PCB (ug/L)-TW	2025/05/07	< MDL 0.05	3	No	No
Pentachlorophenol (ug/L)-TW	2025/05/07	< MDL 0.2	60	No	No
Phorate (ug/L)-TW	2025/05/07	< MDL 0.3	2	No	No
Picloram (ug/L)-TW	2025/05/07	< MDL 5	190	No	No
Prometryne (ug/L)-TW	2025/05/07	< MDL 0.1	1	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No of Exceedances	
				MAC	1/2 MAC
Simazine (ug/L)-TW	2025/05/07	< MDL 0.5	10	No	No
Terbufos (ug/L)-TW	2025/05/07	< MDL 0.5	1	No	No
Tetrachloroethylene (ug/L)-TW	2025/05/07	< MDL 0.5	10	No	No
Triallate (ug/L) -TW	2025/05/07	< MDL 10	230	No	No
Trichloroethylene (ug/L)-TW	2025/05/07	< MDL 0.5	5	No	No
Trifluralin (ug/L)-TW	2025/05/07	< MDL 0.5	45	No	No
Vinyl Chloride (ug/L)-TW	2025/05/07	< MDL 0.2	1	No	No
HAA Total (ug/L) Annual Average	2025	5.075	80	No	No
Trihalomethane: Total (ug/L) Annual Average	2025	6	100	No	No

### Additional Legislated Samples

There was no additional sampling required.

### **Major Maintenance Summary**

Date	Description
There was no major maintenance in the reporting period.	

### Distribution Maintenance

Date	Location Reference	Category	Details	Corrective Repair
There was no distribution maintenance in the reporting period.				

## Appendix A - WTRS Data and Submission Confirmation



Ministry of the Environment,  
Conservation and Parks

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Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#) WTRS-WT-008

**Water Taking Data submitted successfully.**

**Confirmation:**

Thank you for submitting your water taking data online.

Permit Number: 7334-DNZNMB  
Permit Holder: THE CORPORATION OF THE TOWNSHIP OF SOUTH STORMONT.  
Received on: Feb 3, 2026 11:36 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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**Water Taking Data submitted successfully.**

**Confirmation:**

Thank you for submitting your water taking data online.

Permit Number: 5764-9XYMDS  
Permit Holder: THE CORPORATION OF THE TOWNSHIP OF SOUTH STORMONT.  
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