



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

February 27, 2026

John Yungblut
Director of Public Works
Township of Huron-Kinloss
21 Queen Street
Ripley, ON, N0G 2R0

Re: Requirement under the Safe Drinking Water Act for a Summary Report

Dear Mr. Yungblut;

Attached is the 2025 Summary Report for the Lucknow Drinking Water System for January 1st to December 31st, 2025. This report has been completed in accordance with Section 11 and Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act.

This Summary Report is to be provided to the members of council by March 31st, 2026.

Section 12 of O. Reg. 170/03, requires the Annual Report required under Section 11 of O. Reg. 170/03 to be made available for inspection by any member of the public during normal business hours, without charge. The reports should be made available for inspection at the office of the Township, or at a location that is reasonably convenient to the users of the water system.

Please feel free to contact me should you require any additional information regarding these reports. I can be reached at 519-441-0441.

Sincerely,

Katelyn Barrowcliffe
Process and Compliance Technician
Midwest Region
Ontario Clean Water Agency

cc. Geoff Aitken, Township of Huron-Kinloss, Manager of Environment Services
Sam Smith, OCWA Regional Hub Manager
Paul Sherban, OCWA Senior Operations Manager
Maegan Garber, OCWA Safety, Process and Compliance Manager

Lucknow Drinking Water System

Waterworks # 220002663
System Category – Large Municipal Residential

Annual Drinking Water Report

Prepared For: The Township of Huron-Kinloss

Reporting Period of January 1 – December 31, 2025

Issued: February 27, 2026

Revision: 0

Operating Authority:



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Overview

This report fulfills requirements of Ontario Regulation 170/03 Section 11 and Schedule 22. The report must be made available to anyone that requests a copy of the report. By March 31, 2026 the report must be provided to members of municipal council.

Report Availability

This system does not serve more than 10 000 residences. The annual reports will be available to residents at the Township Office as well as on the Township website. Notification will be at the Township Office and copies provided free of charge if requested. The Township Office is located at 21 Queen Street, Ripley, Ontario, N0G 2R0

System Process Description

The Lucknow Drinking Water System serves the community of Lucknow located in the Township of Huron-Kinloss and services a population of approximately 1154. There are ten (10) Lucknow South properties located within the Township of Ashfield-Colborne-Wawanosh. Under By-Law 60-2014, the Township of Huron-Kinloss has an agreement with the Township of Ashfield-Colborne-Wawanosh whereby the Lucknow South distribution system is operated as part of the Lucknow Drinking Water System.

The Lucknow Drinking Water System (DWS) is supplied by two drilled bedrock wells. Well 4, located at 600 Havelock Street, is constructed with a 200-mm diameter steel casing and is approximately 54.8m deep. It is equipped with a vertical turbine pump rated at 14.41 L/s, with a 75-mm diameter discharge line connected to the well pump header. Well 5, located at 381 Delhi Street, also has a 200-mm diameter steel casing and is approximately 58.8 m deep. It is equipped with a submersible pump rated at 32.8 L/s at 66.1 m TDH, with a 150-mm diameter discharge line connected to the well pump header.

The system includes an elevated storage tank with a total capacity of 1,600 m³ and a top water level of 317.6 m. The tank is fitted with a 300-mm diameter combined inlet/outlet riser pipe. Emergency power for either well house can be supplied using a 100-kW portable diesel generator stored at the former Lucknow Fire Hall.

The distribution system consists of cast iron, ductile iron, and PVC mains. While the majority of the system is composed of 150 mm piping, main sizes range from 50 mm to 250 mm throughout the village. The 19.8 km network includes 65 fire hydrants and 4 blow-offs.

The Lucknow DWS operations are monitored and controlled through a Supervisory Control and Data Acquisition (SCADA) system, which communicates with the main controller, autodialer, and server at the Ripley Townip Office. As an added redundancy, each site is equipped with an independent autodialer to ensure alarms are communicated in the event of SCADA or communications failure. The SCADA system provides operators with real-time monitoring of supply and treatment equipment and allows remote operational control throughout the water system.

Well 4 – 600 Havelock St

To achieve primary and secondary disinfection requirements, the well house is equipped with two sodium hypochlorite pumps, one duty and one standby, with automatic switch over. Chlorine contact time is achieved through a 90 m long, 437 mm diameter chlorine contact watermain with a total volume of 34.5 m³. Additional on-site equipment includes a raw flow meter and a regulated treated water chlorine analyzer.

Well 5 – 381 Delhi St

To meet primary and secondary disinfection requirements, the well house is equipped with two sodium hypochlorite pumps, one duty and one standby, with automatic switch over. Chlorine contact time is achieved through a 230 m long, 437 mm chlorine contact watermain. Additional on-site equipment includes a raw flow meter, two (2) chlorine analyzers, one for pre-contact monitoring (non-regulated) and one for treated water monitoring (regulated).

Treatment Chemicals

Sodium Hypochlorite 12% is used to achieve primary and secondary disinfection in the Lucknow Drinking Water System. During the reporting period, approximately 500 L of sodium hypochlorite was used per month. Refer to Table 1 below for supplier information.

Table 1: Treatment Chemicals in the Lucknow Drinking Water System

Chemical Name	Use	Supplier
Sodium Hypochlorite 12%	Primary Treatment	Jutzi Water Technologies

Summary of Non-Compliance

Adverse Water Quality Incidents

Under the Safe Drinking Water Act, O. Reg 170/03, any adverse water quality incidents (AWQI) are required to be reported to the Ministry of the Environment, Conservation and Parks (MECP) and corrective action taken. Refer to Table 2 below for a summary of AWQI incidents in 2025.

Table 2: Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
There were no AWQI's reported during the reporting period.						

Non-Compliance

Under the Safe Drinking Water Act, O. Reg 170/03, any events where legislative requirements were not met are required to be reported to the MECP and corrective actions taken. Refer to Table 3 below for a summary of non-compliance incidents in 2025.

Table 3: Summary of Non-Compliance Incidents

Legislation	Requirement(s) system failed to meet	Duration of the failure (ie.	Corrective Action															
O. Reg 170/03 Schedule 6-5 (1)(i)	CL-17 analyzer faulting and thus not meeting continuous monitoring requirements	March 10, 2025 at 20:20 - March 11, 2025 at 10:00	The pre-contact analyzer readings were normal during this time, indicating primary disinfection occurred. The chlorine day tank indicated seven liters of sodium hypochlorite had been used during the time when the analyzer was not reading properly. This amount is typical of what would be used for a time period of that duration, concluding primary and secondary disinfection has been met. Residuals were taken at well house 5 at 10:17, which read 1.56mg/L, and further residuals taken throughout the distribution system were all within normal range.															
O. Reg 170/03 Schedule 6-5 (1)(i)	CL-17 analyzer faulting and thus not meeting continuous monitoring requirements	<ul style="list-style-type: none"> July 5th, 03:50 AM – July 7th, 04:13 AM: Analyzer flat lined at 1.48 mg/L. July 7th, 11:37 AM – July 8th, 10:06 AM: Analyzer flat lined at 1.46 mg/L. July 11th, 10:59 AM – July 14th, 11:16 AM: Analyzer flat lined at 1.39 mg/L. 	<p>The pre-contact analyzer readings were normal during these times, indicating primary disinfection occurred. Chlorine usage is recorded three times a week onsite and during each visit between July 7th to 14th the operator recorded typical volumes used. Operators were onsite July 7th, 9th, 11th and 14th in which a grab sample was collected from the regulatory analyzer to confirm the accuracy of the readings. See below for table detailing results from both the grab samples and the analyzer.</p> <table border="1" data-bbox="927 926 1453 1087"> <thead> <tr> <th></th> <th>Grab (mg/L)</th> <th>Analyzer (mg/L)</th> </tr> </thead> <tbody> <tr> <td>July 7th</td> <td>1.48</td> <td>1.48</td> </tr> <tr> <td>July 9th</td> <td>1.52</td> <td>1.53</td> </tr> <tr> <td>July 11th</td> <td>1.35</td> <td>1.38</td> </tr> <tr> <td>July 14th</td> <td>1.40</td> <td>1.41</td> </tr> </tbody> </table> <p>On July 9th the routine bacti samples were collected on the treated water and the raw water. These results were also satisfactory. Distribution residuals were collected on July 8th and July 11th (4 and 3). These residuals were all within normal/expected operating ranges.</p>		Grab (mg/L)	Analyzer (mg/L)	July 7th	1.48	1.48	July 9th	1.52	1.53	July 11th	1.35	1.38	July 14th	1.40	1.41
	Grab (mg/L)	Analyzer (mg/L)																
July 7th	1.48	1.48																
July 9th	1.52	1.53																
July 11th	1.35	1.38																
July 14th	1.40	1.41																
O.Reg 170/03 s. 6-1.1(3)	Turbidity was taken 48 days after the last sample, exceeding the 40-day requirement.	August 21, 2025	Operators have been reminded of the regulatory requirement to ensure turbidity sampling is completed at least 20 days after the previous sample and no more than 40 days. All operators will undergo additional training to reinforce sampling and sample calendar review practices/requirements															
O.Reg 170/03 s. 6-5 (1) 3	Continuous monitoring test results must be examined within 72 hours after tests are conducted. Results were not monitored in this time frame due to the Statutory Holiday and the certified operator not reviewing the test results during their holiday coverage.	October 10, 2025, 13:53 – October 14, 2025, 07:40	A discussion was held with Operators about the importance and requirement of the 72-hour trending review and to obtain back up from another operator if they are unable to fulfill their duties.															

Non-Compliance Identified in a Ministry Inspection

The routine MECP Inspections have an Inspection Rating Record. This record evaluates the system to provide information for the owner/operator on areas that need to be improved. The particular areas that were evaluated for the Lucknow Drinking Water System were: Capacity Assessment, Certification and Training, Distribution System, Logbooks, Operations Manuals, Reporting and Corrective Actions, Source, Treatment Processes, and Water Quality Monitoring. The Lucknow Drinking Water System inspection was conducted on June 12th, 2025 by Robert Graham of the Ministry of the Environment, Conservation and Parks (MECP). The inspection review period was May 4, 2024 to June 12, 2025. An inspection rating of 97.61% was received. Refer to Table 4 below for non-compliances identified in the report.

Table 4: *Non-Compliances Identified in a Ministry Inspection*

Item #	Issue Identified in Report/Order	Required Action Identified in Report	Comply by Date as per the Report	Status
NC-1	The owner of the donor system was not in compliance with all agreements made under subsection 5(4) of O. Reg. 170/03.	No further action is required respecting the missed Lead sampling by Veolia at this time. The Owner and Operating Authority of the Lucknow DWS are reminded to ensure that all regulatory Lead sampling is completed by operators of the South Lucknow DS.	N/A	N/A

Flows

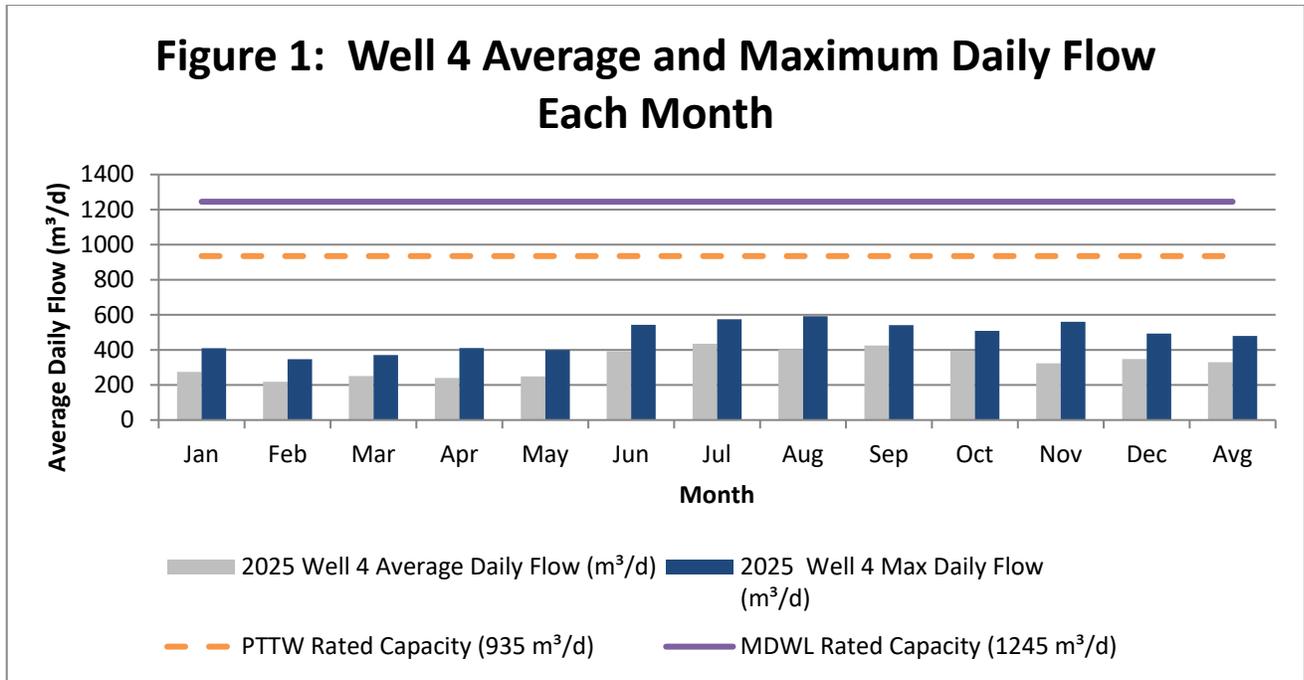
The raw and treated water flows are regulated under the Permit to Take Water (PTTW # 5315-CK476V) and Municipal Drinking Water Licence (MDWL #087-103). The 2025 daily raw flows were submitted to the Ministry electronically under the PTTW number. A copy of the data that was submitted is attached in Appendix A.

Lucknow Well 4

The total volume of treated water produced in 2025 was 120,532.94 m³, compared to 106,776.30 m³ reported by the previous operating authority in 2024. The Lucknow Well 4 pumps water from the onsite well where the flow is measured using the raw water totalizer located inside the well house. This measurement represents the raw water volume for the Permit to Take Water (PTTW) and the treated water for the rated capacity for the Municipal Drinking Water Licence (MDWL). The PTTW limits the flow to 935 m³/d where as the MDWL limits the flow to 1245 m³/d. At no time did the flow exceed the limits established under the PTTW or MDWL.

In 2025, the average daily flow for Well 4 was 329.47 m³, compared to 291.74 reported in 2024. The maximum daily flow recorded from Well 4, in 2025, was 591.73 m³, compared to 577.30 m³ reported in 2024. Figure 1 below details the average daily flow and maximum daily flow from Well 4 during the reporting period. The system operated at 35.23% of its rated capacity, 4% higher than last year.

Figure 1: Well 4 Average and Maximum Daily Flow

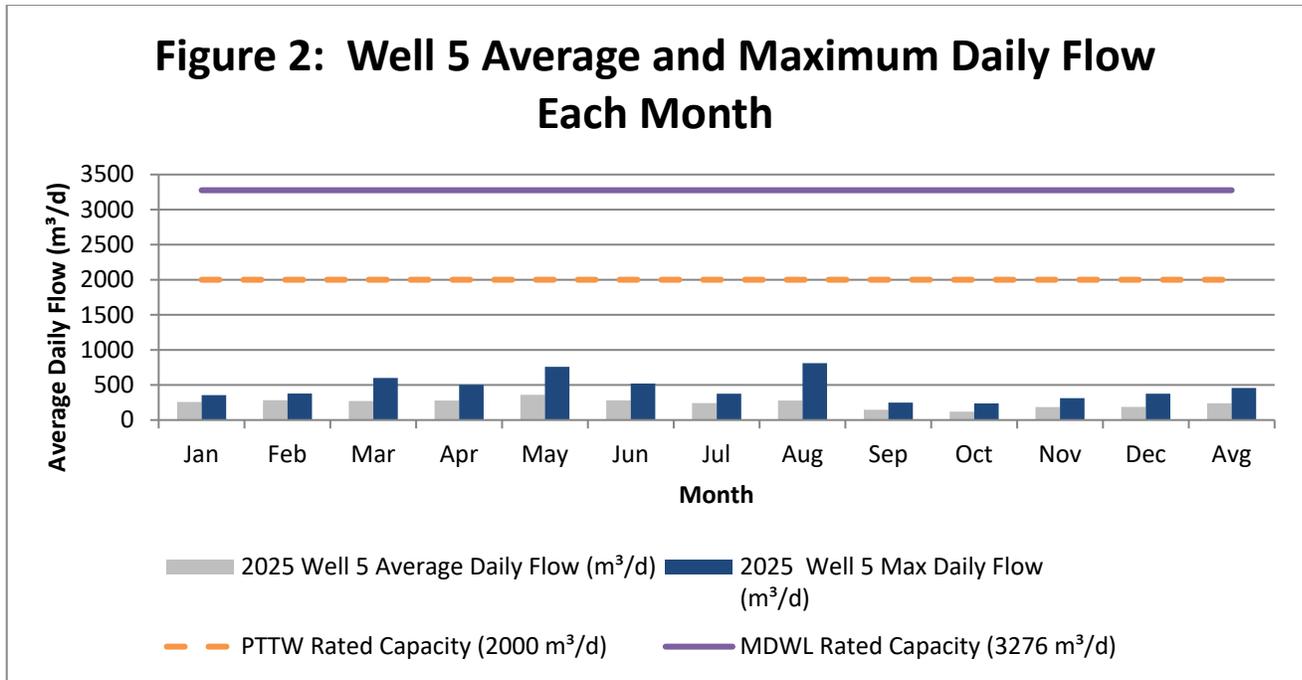


Lucknow Well 5

The total volume of treated water produced in 2025 was 87,710.42 m³, compared to 12,294 m³ reported in 2024 by the previous operating authority. The Lucknow Well 5 pumps water from the onsite well where the flow is measured using the raw water totalizer located inside the well house. This measurement represents the raw water volume for the Permit to Take Water (PTTW) and the treated water for the rated capacity for the Municipal Drinking Water Licence (MDWL). The PTTW limits the flow to 2000 m³/d where as the MDWL limits the flow to 3276 m³/d.

In 2025, the average daily flow for Well 5 was 240.20 m³, compared to 291.74 m³ reported in 2024. The maximum daily flow for Well 5 in 2025 was 810.67 m³, compared to 844.00 m³ reported in 2024. Figure 2 below details the average daily flow and maximum daily flow from Well 4 during the reporting period. The system operated at 7.33% of its rated capacity compared to 19.8% in 2024.

Figure 2: Well 5 Average and Maximum Daily Flow



Based on the 2021 Census, the total per capita water use, which includes residential, industrial, commercial and other uses of water provided by public utilities averaged 0.401 m³ per day which equates to approximately 168,905.2 m³ per year. This indicates that the system’s total treated water volume is above the estimated per capita water use.

Regulatory Sample Results Summary

Microbiological Testing

To meet regulatory requirements, raw water (RW) is sampled weekly and tested for E.coli and Total Coliforms. There are no regulatory limits for raw water samples; however, concentrations for Total Coliform and E. coli are expected to be zero for the groundwater source. Treated water (TW) and distribution water (DW) are sampled weekly and test for E. coli, Total Coliforms and heterotrophic plate count (HPC). The regulatory limit for Total Coliform and E. coli is zero, heterotrophic plate count (HPC) does not have a limit. Refer to Table 5 below for a summary of testing results.

Table 5: Microbiological Testing Summary

	No. of Samples Collected	Range of E.Coli Results (mpn/100mL)		Range of Total Coliform Results		No. of HPC Samples Collected	Range of HPC Results (cfu/mL)	
		Min	Max	Min	Max		Min	Max
Raw Water – Well 4	52	0.00	0.00	0.00	0.00	N/A	N/A	N/A
Raw Water – Well 5	52	0.00	0.00	0.00	0.00	N/A	N/A	N/A
TW – Well 4	52	0.00	0.00	0.00	0.00	52	10.00	10.00
TW – Well 5	52	0.00	0.00	0.00	0.00	52	10.00	10.00
Distribution Water	158	0.00	0.00	0.00	0.00	104	10.00	10.00

Operational Testing

As per the Safe Drinking Water Act, O. Reg 170/03, raw water turbidity is required to be monitored monthly with an objective of less than 1 NTU. Free chlorine residuals are required to be continuously monitored with an online chlorine analyzer. Free chlorine residuals are also monitored throughout the distribution system to ensure adequate secondary disinfection is provided. The regulatory requirement for free chlorine residual is a minimum of 0.05 mg/L with an objective of 0.20 mg/L throughout the distribution system. Refer to Table 6 for turbidity and free chlorine residual results.

Table 6: Turbidity and Free Chlorine Residual Monitoring

Parameter	No. of Samples Collected	Range of Results	
		Minimum	Maximum
Turbidity, grab (NTU) – RW Well 4	13	0.16	0.45
Turbidity, grab (NTU) – RW Well 5	13	0.11	0.52
Free Chlorine Residual, On-Line (mg/L) – Well 4 TW	8760	0.40	3.05
Free Chlorine Residual, On-Line (mg/L) – Well 5 TW	8760	1.09	2.71
Free Chlorine Residual, grab (mg/L) - DW	368	1.10	1.98

Inorganic Parameters

Inorganic parameters are required to be tested every 36 months as required under O. Reg. 170/03. Sodium and fluoride are sampled every 60 months. Nitrate and nitrite must be tested quarterly, as outlined in O. Reg. 170/03. If any inorganic parameter (excluding sodium and fluoride) exceeds half of the maximum allowable concentration, that parameter is then required to be sampled quarterly. All inorganic parameters, with the exception of sodium and fluoride, were last sampled on June 18, 2024. These inorganics are scheduled to be sampled again June 2027. Sodium was last tested on July 27, 2021 and is due for sampling again in 2026. Fluoride was last sampled on September 6, 2022. The fluoride results exceeded the MAC due to naturally occurring fluoride in the aquifers. These exceedances were reported to the Grey Bruce Health Unit and the Ministry’s Spills Action Centre (AWQI # 159910 and 159911) the next sampling is scheduled for 2027. Refer to Table 7 below for additional details.

Table 7: Inorganic Parameter Testing

Treated Water (TW) Parameter	Sample Date (yyyy/mm/dd)	Sample Results – Well 4	Sample Results – Well 5	MAC (µg/L)	Number of Exceedances	
					MAC	½ MAC
Antimony: Sb (ug/L) - TW	2024/06/18	0.6 < MDL	0.6 < MDL	6	0	0
Arsenic: As (ug/L) - TW	2024/06/18	4.3	4.8	10	0	0
Barium: Ba (ug/L) - TW	2024/06/18	269	277	1000	0	0
Boron: B (ug/L) - TW	2024/06/18	34	34	5000	0	0
Cadmium: Cd (ug/L) - TW	2024/06/18	0.004	0.012	5	0	0
Chromium: Cr (ug/L) - TW	2024/06/18	0.10	0.15	50	0	0
Mercury: Hg (ug/L) - TW	2024/06/18	0.01 < MDL	0.01 < MDL	1	0	0
Selenium: Se (ug/L) - TW	2024/06/18	0.09	0.09	50	0	0
Uranium: U (ug/L) - TW	2024/06/18	0.958	0.782	20	0	0
Additional Inorganics						
Fluoride (mg/L) - TW	2022/09/06	1.69, 1.76	1.59, 1.70	1.5	4	n/a
Nitrite (mg/L) - TW	2025/02/04	0.003 <MDL	0.003 <MDL	1	0	0
Nitrite (mg/L) - TW	2025/04/14	0.003 <MDL	0.003 <MDL	1	0	0
Nitrite (mg/L) - TW	2025/07/15	0.003 <MDL	0.003 <MDL	1	0	0
Nitrite (mg/L) - TW	2025/10/20	0.003 <MDL	0.003 <MDL	1	0	0
Nitrate (mg/L) - TW	2025/02/04	0.007	0.006	10	0	0

Nitrate (mg/L) - TW	2025/04/14	0.008	0.006	10	0	0
Nitrate (mg/L) - TW	2025/07/15	0.008	0.006	10	0	0
Nitrate (mg/L) - TW	2025/10/20	0.007	0.006	10	0	0
Sodium: Na (mg/L) - TW	2021/07/27	11.1	12.8	200*	N/A	n/a

MAC = Maximum Allowable Concentration as per O.Reg 169/03

MDL = Below the laboratory method detection level

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 20 mg/L. The local Medical Officer of Health should be notified mg/L 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 diet

Summary of Lead Testing

Schedule 15.1 sampling is required under O. Reg 170/03. This includes sampling for lead, alkalinity and pH. The Lucknow Drinking Water System is under reduced sampling. As such, no residential plumbing samples are required to be collected. Monitoring the pH and alkalinity in the distribution system is essential to ensure adequate buffering for corrosion control and to minimize exposure to metals such as lead. Refer to Table 8 below.

Table 8: Schedule 15.1 Sampling Results

Distribution System	Number of Sampling Points	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
			Minimum	Maximum		
Alkalinity (mg/L)	3	6	227	235	n/a	n/a
pH	3	6	6.62	7.45	n/a	n/a
Lead (ug/l)	3	6	0.05	0.96	10	0

Organic Parameters

Organic parameters are tested in the system every 36 months 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. All organics were last sampled on June 18, 2024, organics are scheduled to be sampled again in June 2027. Organic parameter test results for treated water are listed below in Table 9.

Disinfection byproducts including Trihalomethanes and Haloacetic acids are tested quarterly in the distribution system. Results are listed in Table 9 below.

Table 9: Organic Parameter Testing

Treated Water (TW)	Sample Date (yyyy/mm/dd)	Sample Results – Well 4	Sample Result – Well 5	MAC (ug/L)	Number of Exceedances	
					MAC	1/2 MAC
Benzene	2024/06/18	0.32 < MDL	0.32 < MDL	1	0	0
Carbon Tetrachloride	2024/06/18	0.17 < MDL	0.17 < MDL	2	0	0
1,2-Dichlorobenzene	2024/06/18	0.41 < MDL	0.41 < MDL	200	0	0
1,4-Dichlorobenzene	2024/06/18	0.36 < MDL	0.36 < MDL	5	0	0
1,1-Dichloroethylene	2024/06/18	0.33 < MDL	0.33 < MDL	14	0	0
1,2-Dichloroethane	2024/06/18	0.35 < MDL	0.35 < MDL	5	0	0
Dichloromethane	2024/06/18	0.35 < MDL	0.35 < MDL	50	0	0
Monochlorobenzene	2024/06/18	0.3 < MDL	0.3 < MDL	80	0	0
Tetrachloroethylene	2024/06/18	0.35 < MDL	0.35 < MDL	10	0	0
Trichloroethylene	2024/06/18	0.44 < MDL	0.44 < MDL	5	0	0
Vinyl Chloride	2024/06/18	0.17 < MDL	0.17 < MDL	1	0	0
Diquat	2024/06/18	1 < MDL	1 < MDL	70	0	0

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Paraquat	2024/06/18	1 < MDL	1 < MDL	10	0	0
Glyphosate	2024/06/18	1 < MDL	1 < MDL	280	0	0
Polychlorinated Biphenyls	2024/06/18	0.04 < MDL	0.04 < MDL	3	0	0
Benzo(a)pyrene	2024/06/18	0.004 < MDL	0.004 < MDL	0.01	0	0
Alachlor	2024/06/18	0.02 < MDL	0.02 < MDL	5	0	0
Atrazine+N-dealkylated metabolites	2024/06/18	0.01 < MDL	0.01 < MDL	5	0	0
Atrazine	2024/06/18	0.01 < MDL	0.01 < MDL	--	0	0
Desethyl Atrazine	2024/06/18	0.01 < MDL	0.01 < MDL	--	0	0

Treated Water (TW)	Sample Date (yyyy/mm/dd)	Sample Result – Well 4	Sample Result – Well 5	MAC (ug/L)	Number of Exceedances	
					MAC	1/2 MAC
Azinphos-methyl	2024/06/18	0.05 < MDL	0.05 < MDL	20	0	0
Carbaryl	2024/06/18	0.05 < MDL	0.05 < MDL	90	0	0
Carbofuran	2024/06/18	0.01 < MDL	0.01 < MDL	90	0	0
Chlorpyrifos	2024/06/18	0.02 < MDL	0.02 < MDL	90	0	0
Diazinon	2024/06/18	0.02 < MDL	0.02 < MDL	20	0	0
Dimethoate	2024/06/18	0.06 < MDL	0.06 < MDL	20	0	0
Diuron	2024/06/18	0.03 < MDL	0.03 < MDL	150	0	0
Malathion	2024/06/18	0.02 < MDL	0.02 < MDL	190	0	0
Metolachlor	2024/06/18	0.01 < MDL	0.01 < MDL	50	0	0
Metribuzin	2024/06/18	0.02 < MDL	0.02 < MDL	80	0	0
Phorate	2024/06/18	0.01 < MDL	0.01 < MDL	2	0	0
Prometryne	2024/06/18	0.03 < MDL	0.03 < MDL	1	0	0
Simazine	2024/06/18	0.01 < MDL	0.01 < MDL	10	0	0
Terbufos	2024/06/18	0.01 < MDL	0.01 < MDL	1	0	0
Triallate	2024/06/18	0.01 < MDL	0.01 < MDL	230	0	0
Trifluralin	2024/06/18	0.02 < MDL	0.02 < MDL	45	0	0
2,4-Dichlorophenoxyacetic acid	2024/06/18	0.19 < MDL	0.19 < MDL	100	0	0
Bromoxynil	2024/06/18	0.33 < MDL	0.33 < MDL	5	0	0
Dicamba	2024/06/18	0.20 < MDL	0.20 < MDL	120	0	0
Diclofop-methyl	2024/06/18	0.40 < MDL	0.40 < MDL	9	0	0
MCPA	2024/06/18	0.00012 < MDL	0.00012 < MDL	0.1	0	0
Picloram	2024/06/18	1 < MDL	1 < MDL	190	0	0
2,4-Dichlorophenol	2024/06/18	0.15 < MDL	0.15 < MDL	900	0	0
2,4,6-Trichlorophenol	2024/06/18	0.25 < MDL	0.25 < MDL	5	0	0
2,3,4,6-Tetrachlorophenol	2024/06/18	0.20 < MDL	0.20 < MDL	100	0	0
Pentachlorophenol	2024/06/18	0.15 < MDL	0.15 < MDL	60	0	0
Distribution Water						
Trihalomethane: Total (ug/L) Annual Average	2025		8.99	100.0	0	0
Haloacetic Acid: Total (ug/L) Annual Average	2025		5.3	80.0	0	0

MAC = Maximum Allowable Concentration as per O. Reg 169/03

MDL = Below the laboratory method detection level

Additional Legislated Samples

In accordance with O. Reg. 170/03, if any inorganic parameter (excluding sodium and fluoride) exceeds half of the Maximum Acceptable Concentration (MAC), quarterly sampling is required. Although arsenic results collected on June 18, 2024 did not exceed the half-MAC, quarterly sampling has continued to maintain consistency with the practices of the previous operating authority and to continue to monitor changes in the concentrations. 2025 results show that Well 5 exceeded the half-MAC during the first three quarters, while Well 4 has remained below this threshold. The 2025 arsenic results are summarized in Table 10 below.

Table 10: Arsenic Results

TW Well 4	# Samples	Arsenic (ug/L)	Half MAC (ug/L)
Q1	1	4.4	5
Q2	1	4.6	
Q3	1	4.3	
Q4	1	3.4	
TW Well 5	# Samples	Arsenic (ug/L)	
Q1	1	5.3	
Q2	1	6.3	
Q3	1	5.2	
Q4	1	4.4	

Major Maintenance and Capital Summary

The Lucknow Drinking Water System completed repairs and replacements as listed below in Table 11. These represent the major expenses incurred in 2025.

Table 11: Major Maintenance

Item	Description
1	Well 4 and Well 5 heaters replaced
2	Completed annual calibrations of analyzers and flow meters
3	Well 5 chlorine analyzer replaced
4	Both Well houses chlorine boards repaired multiple times due to leaks
5	Well 4 chlorine pump 2, roller assembly and stenner tube replaced
6	Well 4 treated water sample tap repaired due to leak
7	New service installed on Sommerville st
8	New service installed for Music in the Fields at 1138 Campbell st
9	Service leak repaired on Montgomery st
10	Gough st reconstruction project completed

11	Private watermain commissioned for the Lucknow Kinsmen building off Campbell st
12	Tower Inspection completed by Landmark
13	Watermain break repaired on Montgomery st

Revision History

Date	Revision #	Revisionn Notes
2026-02-23	0	Issued Report

Appendix A
PTTW Reporting

WTRS Regulatory Reporting Confirmation



Ministry of the Environment,
Conservation and Parks

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WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 5315-CK476V
Permit Holder: TOWNSHIP OF HURON-KINLOSS.
Received on: Feb 17, 2026 9:18 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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