Wingham Drinking Water System
2025 Operation and Maintenance
Annual Report

PREPARED BY

Veolia Water
130 Wallace St.
Walkerton, On
N0G 2V0

TO

Township of North Huron,
274 Josephine St,
Wingham, ON
N0G 2W0

Resourcing the world

Table of Contents

List of Tables

1.0 INTRODUCTION AND BACKGROUND

The purpose of the Annual Report is to document the operation and maintenance data for the Wingham Drinking Water System for review by the Ministry of the Environment Conservation and Parks in accordance with O. Reg. 170/03. This report covers January 1, 2025 to December 31, 2025. A copy of this report will be submitted to the owner to be uploaded to the Township's website and can be supplied, free of charge, to interested parties upon request.

2.0 DESCRIPTION OF WATER SYSTEM

The Wingham Drinking Water System (DWS # **220001502**), is characterized as a "secure ground water" system and is classified as a large municipal residential system. The system consists of two wells – Well 3 with a rated capacity of 6537 m3/day and Well 4 with a rated capacity of 5270 m3/d. Treatment at both sites consists of chlorination (sodium hypochlorite) and iron sequestration (sodium silicate) treatment. The Well 3 system is located at 200 Water St. Well 4 is located at 23 Albert St. The distribution system serves the community of Wingham with a population of approximately 2950 residents, 1150 customer services and 29 km of various size and material water main.

The system is owned by the Corporation of the Township of North Huron and operated by Veolia Water Canada, the Operating Authority.

The Well 3 supply system consists of a 323 mm drilled to a depth of 102.1m fitted with a variable speed pump capable of pumping the volume specified in the MECP Permit to Take Water. The raw water consistently has substantial naturally occurring hardness and relatively high iron content that requires sequestering to prevent discoloration in the distribution system which is typical of all drilled wells in the area. Chlorine, (a critical process) and an iron sequestering agent are added to the raw water prior to entry into a baffled contact tank that satisfies the chlorine contact time required with adequate chlorine residual to disinfect.

From the contact tank/reservoir the water flows to the distribution/standpipe that maintains adequate system pressure. The well is cycled by a level controller that starts and stops the well 3/high lift pumps. Emergency power is supplied by a diesel generator that allows operation of the equipment during extended power interruptions. The treated drinking water is monitored for chlorine residual by on-line equipment connected to SCADA/auto dialer. The monitoring system will alert the on-call operator to respond if the set points are breached. The chlorine and turbidity analysis data levels are stored on a data logger.

The distribution system has elevated storage to maintain pressure. Critical processes to ensure safe water are adequate chlorination and maintenance of system pressure. The monitors activate an alarm through the auto-dialer if the set points are breached, as a critical feature well 3, high-lift 2 and well 4 are equipped with variable frequency drives that can be set to maintain system pressure setpoint in the event that the standpipe is not in service.

Well 4 is a 356 mm drilled well, 98.65 m deep, complete with a stainless-steel liner and equipped with a submersible vertical turbine pump, well level sensor to measure static level and provide well level monitoring. The system has been designed to operate to alternate the duty wells between well 3 and 4.

The well 4 house is equipped with a back-up diesel generator, sodium hypochlorite (2) and sodium silicate pump, a baffled chlorine contact tank equipped with 3 high lift pumps, on-line monitoring, alarm generation and auto-dialer.

Back-up power is supplied by one diesel standby generator with automatic transfer switch and double wall fuel tank.

The water quality is monitored and data-logged by a SCADA system with breaches of set-points going to an alarm dialer.

Disinfection is achieved on the Wingham well supply through the use of 12% sodium hypochlorite. In the well houses this chemical is added prior to the water entering the chlorine contact facilities at dosages high enough to achieve both primary and secondary disinfection objectives.

The distribution system is constructed with a combination of ductile iron, cast iron, PVC and high-density polyethylene piping with polyethylene, copper and galvanized steel services. There are known lead services, of which have been sampled at the initial plumbing sampling program, where no elevated levels were found due to the service material. The iron sequestering also has the dual purpose of corrosion control, coupled with very stable pH and substantial alkalinity and hardness that inhibits corrosion that controls lead corrosion. These services will be replaced when street reconstruction takes place.

The system has approximately 135 fire hydrants.

The chlorine dosages range varies with the chlorine demand of the raw water.
The free chlorine residual is monitored at the point of entry to the distribution system, by an on-line chlorine analyzer, with a target residual of > 1.00 mg/l and < 1.30 mg/l.

The Wingham well supply Operates on PTTW # 1450-B38HKS which expires on August 1, 2028 which allows 11,807 cubic meters per day to be pumped from the combined wells.

The Wingham Drinking Water System (treatment subsystem) has maximum flows as specified in the Municipal Drinking Water License (MDWL) 090-102, Issue 6 and Drinking Water Works Permit (DWWP) 090-202, Issue 6. The maximum total daily flow is 11,807 cubic meters per day.

The treated water is monitored by an on-line chlorine analyzer.

Typical system pressure ranges from 40 psi to 85 psi.

3.0 SUMMARY OF WATER QUALITY MONITORING

3.1 Water Treatment Equipment Operation and Monitoring

3.1.1 Point of Entry Chlorine Residual

Chlorine residuals are continuously measured using an online chlorine analyzer and verified for accuracy using hand-held HACH pocket colorimeter.

3.1.2 Distribution Chlorine Residual

Chlorine residuals in the distribution system are checked daily using a HACH pocket colorimeter. In 2025, 470 distribution chlorine residuals were recorded.

Table 1 *– Treated and Distribution Chlorine Residuals for Wingham Drinking Water System*

Table 1. Treated & Distribution Residuals for Wingham Drinking Water System																
Month	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Min**	**Max**	**Average**	**Count**
AVG W3 TW (POE) chlorine Residual mg/ L	1.22	1.33	1.41	1.59	1.66	1.54	1.57	1.45	1.60	1.70	1.55	1.58	**1.04**	**1.7**	**1.40**	**365**
AVG W4 TW (POE) chlorine Residual mg/ L	1.15	1.27	1.31	1.26	1.30	1.26	1.21	1.43	1.39	1.40	1.34	1.24	**1.02**	**1.82**	**1.30**	**365**
Average DW Residual mg/L	1.09	1.17	1.18	1.21	1.21	1.10	1.06	1.07	1.14	1.21	1.25	1.19	**0.74**	**1.67**	**1.19**	**470**

[a] – Results collected from January 1, 2025 – December 31, 2025

3.1.3 Turbidity

Treated Turbidity is measured daily using an online analyzer and raw water samples are analyzed using portable turbidimeters.

***Table 2** – Raw and Treated Water Turbidities for Wingham Drinking Water System*

Monthly Average Raw Water Turbidities			Treated Water Turbidities Well 3				Treated Water Turbidities Well 4			
Month	**Well 3**	**Well 4**	**Min**	**Max**	**Average**	**Count**	**Min**	**Max**	**Average**	**Count**
January	0.34	0.18	0.07	0.15	0.09	31.00	0.11	0.17	0.12	31.00
February	0.29	0.22	0.09	0.36	0.16	28.00	0.11	0.16	0.12	28.00
March	0.27	0.25	0.16	0.37	0.25	31.00	0.10	0.13	0.11	31.00
April	0.41	0.21	0.14	0.41	0.41	30.00	0.10	0.13	0.11	30.00
May	0.38	0.28	0.18	0.36	0.36	31.00	0.10	0.12	0.11	31.00
June	0.35	0.27	0.14	0.32	0.32	30.00	0.10	0.48	0.15	30.00
July	0.33	0.15	0.19	0.39	0.39	13.00	0.12	0.25	0.16	31.00
August	0.30	0.19	0.17	0.21	0.21	4.00	0.15	1.50	0.20	31.00
September	0.31	0.21	0.20	0.36	0.36	4.00	0.14	1.15	0.21	30.00
October	0.39	0.26	0.27	0.34	0.34	4.00	0.15	0.20	0.17	31.00
November	0.35	0.17	0.20	0.30	0.30	4.00	0.15	0.34	0.17	30.00
December	0.31	0.19	0.16	0.38	0.38	5.00	0.14	0.22	0.15	31.00
Min	0.27	0.15	0.07		0.09		0.10		0.11	
Max	0.41	0.28		0.41	0.41			1.50	0.21	
Average	0.34	0.21			0.30				0.15	
Count	54	51				215.00				365.00

[a] – Results collected from January 1, 2025 – December 31, 202

3.2 Microbiological Sampling

3.2.1 Raw Water Samples

Raw water samples are taken every week from both well 3 and well 4. In 2025, a total of 104 samples were collected and analyzed for each E. Coli and Total Coliforms. All E. Coli and Total Coliform results obtained were 0 cfu/100 ml in the raw water.

3.2.2 Treated Water (Point of Entry) Samples

One treated water sample from the point of entry from Well 3 and Well 4 is taken every week and analyzed for E. Coli, Total Coliforms and for Heterotrophic Plate Count (HPC). A total of 104 treated water samples were collected and analyzed at Wells 3 and 4 for both E.Coli and Total Coliforms. Each E. Coli and total coliform result from the treated water was 0 cfu/100 ml. There were also 104 HPC samples collected from the Point of, all samples were found to be safe. Currently, there is no limit on HPC samples, HPC samples can be used as an indication of interior pipe conditions where flushing is required when there are positive results. All (104) samples were found to be safe, with 1 result >50cfu/100ml. The range of HPC results were <10-80 cfu/100 ml.

3.2.3 Distribution System Samples

Distribution samples are collected every week and tested for E. Coli, Total Coliform and for Heterotrophic Plate Count (HPC).
In 2025, a total of 156 distribution samples were collected and analyzed for both Total Coliforms and E.Coli; All samples were found to be safe. All E.Coli results from the treated water were 0cfu/100 ml. All Total Coliform Sample results were 0cfu/100ml, we had 0 AWQI results in 2025. There were a total of 52 HPC samples with ranges between <10-70 cfu/100 ml.

Table 3 *– Summary of Microbiological Results for Raw Water, Treated water and Distribution System*

Annual Sample Summary								
Sample Type	**TC Count**	**TC Adverse**	**EC count**	**EC Adverse**	**HPC count**	**HPC >50 (not adverse)**	**Total # Samples**	**Total Adverse**
Raw Water	104	0	104	0	N/A	N/A	208	0
Treated Water	104	0	104	0	104	0	312	0
Distribution	156	0	156	0	52	0	364	0
						Total	**884**	**0**

[a] – Results collected from January 1, 2025 – December 31, 2025

3.3 Chemical Sampling & Testing

3.3.1 Haloacetic Acids (HAA5)

In 2025 Samples for HAA5's were collected at the beginning of every quarter, Maximum acceptable concentration for HAA5's is 80 ug/L all samples were compliant to the limit in 2025.

Table 4 *– Haloacetic Acids*

HAA5	Ug/L									
Date	**Jan 14-25**		**Apr 8-25**		**Jul 8-25**		**Oct 14-25**			
	Well 3 DW	**Well 4**	**Well 3 DW**	**Well 4**	**Well 3 DW**	**Well 4**	**Well 3 DW**	**Well 4**	**Average Well 3**	**Average well 4**
Total HAA5	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Bromoacetic Acid	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Chloroacetic Acid	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Dichloroacetic Acid	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Dibromoacetic Acid	2	2	2	2	2	2	2	2	2	2
Trichloroacetic Acid	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Min	2	2	2	2	2	2	2	2	2	2
Max	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Average	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

[a] – Samples collected from Jan 11, Apr 15, Jul 8, and Oct 14, 2025 respectively

3.3.2 Lead. Alkalinity & pH

Schedule 15.1 of Ontario Regulation 170/03 requires that samples be taken during two seasons: Once between December 15 and April 15 and once between June 15 and October 15. North Huron is on the reduced schedule for Lead therefore it only has to be tested every 3 years, samples will be collected again in 2028**.**

Table 5 *– Lead Sampling Program Results for Wingham Drinking Water System*

DW Lead/pH /Alkalinity	Wingham			
Date	**Location**	**pH**	**Alkalinity mg/L as CaCO3**	**Lead ug/L**
Mar 6-25	Frances And Diagonal	7.79	230	0.03
Mar 6-25	Hydrant 295 William St	7.73	230	0.03
Sept 16-25	Frances And Diagonal	7.34	306	0.06
Sept 16-25	Leopold and Victoria	7.48	245	0.17
	MACS	**6.5-8.5**	**30-500**	
*Lead every 3 years due 2028				

[a] – Samples collected on March 6, 2025 and September 16, 2025 respectively.

3.3.1 Inorganics

One treated water sample is taken every 36 months and tested for inorganics. The most recent samples for the Wingham Drinking Water System were collected on May 14, 2024 and submitted to the laboratory for analysis of inorganics as listed in Schedule 23. All parameters were found to be within compliance. Inorganic Schedule 23 samples will be collected next in May 2027. Results from 2024 can be found it **Table 6**

Table 6 *– provides a summary of the Inorganic Schedule 23 from 2024*

Water Works Name:	Wingham Well Supply
Well No. (if applicable):	Well # 4 & # 3
Year:	**2024**
Serviced Population:	2845
Laboratories Which Performer Analyses:	SGS Lakefield Research
Water Works #:	220001502

Schedule 23	Analysis				Maximum Allowable
	Date	Well 3	Well4		Level
Parameter	(MM/DD/YY)	(ug/L)	(ug/L)		(ug/L)
Antimony	May 14-24	0.6	0.6	<MDL	6
Arsenic	May 14-24	1.7	2.9		25
Barium	May 14-24	150	46.3		1000
Boron	May 14-24	24	31		5000
Cadmium	May 14-24	0.003	0.003	<MDL	5
Chromium	May 14-24	0.08	0.08	<MDL	50
Mercury	May 14-24	0.01	0.01	<MDL	1
Selenium	May 14-24	0.10	0.04	<MDL	10
Uranium	May 14-24	0.988	0.925		20

[a] – Results collected May 14, 2024

3.3.3 Organics

One treated water sample is taken every 36 months and tested for schedule 24 organic parameters. The most recent samples were collected on May 14, 2024. All parameters were found to be within compliance. Schedule 24 Samples will be collected again in May of 2027. 2024 sample results can be found in **Table 7.**

Table 7 *– Schedule 24 Results for Wingham Drinking Water System*

Water Works Name:				Wingham Well Supply		
Well No. (if applicable):				Well # 4 & # 3		
Year:				**2024**		
Serviced Population:				2845		
Laboratories Which Performer Analyses:				SGS Lakefield Research		
Water Works #:				220001502		
Schedule 24	Analysis					Maximum
	Date	Well 3		Well 4		Allowable Level
Parameter	(MM/DD/YY)	(ug/L)		(ug/L)		(ug/L)
Benzene	May 14-24	0.32	<MDL	0.32	<MDL	1
Carbon Tetrachloride	May 14-24	0.17	<MDL	0.17	<MDL	2
1,2-Dichlorobenzene	May 14-24	0.41	<MDL	0.41	<MDL	200
1,4-Dichlorobenzene	May 14-24	0.36	<MDL	0.36	<MDL	5
1,1-Dichloroethylene	May 14-24	0.33	<MDL	0.33	<MDL	14
1,2-Dichloroethane	May 14-24	0.35	<MDL	0.35	<MDL	5
Dichloromethane	May 14-24	0.35	<MDL	0.35	<MDL	50
Monochlorobenzene	May 14-24	0.3	<MDL	0.3	<MDL	80
Tetrachloroethylene	May 14-24	0.35	<MDL	0.35	<MDL	10
Trichloroethylene	May 14-24	0.44	<MDL	0.44	<MDL	5
Vinyl Chloride	May 14-24	0.17	<MDL	0.17	<MDL	1
Diquat	May 14-24	1	<MDL	1	<MDL	70
Paraquat	May 14-24	1	<MDL	1	<MDL	10
Glyphosate	May 14-24	1	<MDL	1	<MDL	280
Polychlorinated Biphenyls	May 14-24	0.04	<MDL	0.04	<MDL	3
Benzo(a)pyrene	May 14-24	0.004	<MDL	0.004	<MDL	0.01
Alachlor	May 14-24	0.02	<MDL	0.02	<MDL	5
Atrazine+N-dealkylated metabolites	May 14-24	0.01	<MDL	0.01	<MDL	5
Atrazine	May 14-24	0.01	<MDL	0.01	<MDL	
De-ethylated atrazine	May 14-24	0.01	<MDL	0.01	<MDL	
Azinphos-methyl	May 14-24	0.05	<MDL	0.05	<MDL	20
Carbaryl	May 14-24	0.05	<MDL	0.05	<MDL	90
carbofuran	May 14-24	0.01	<MDL	0.01	<MDL	90
Chlorpyrifos	May 14-24	0.02	<MDL	0.02	<MDL	90
Diazinon	May 14-24	0.02	<MDL	0.02	<MDL	20

Schedule 24	Analysis					Maximum
	Date	Well 3		Well 4		Allowable Level
Parameter	(MM/DD/YY)	(ug/L)		(ug/L)		(ug/L)
Dimethoate	May 14-24	0.06	<MDL	0.06	<MDL	20
Diuron	May 14-24	0.03	<MDL	0.03	<MDL	150
Malathion	May 14-24	0.02	<MDL	0.02	<MDL	190
Metolachlor	May 14-24	0.01	<MDL	0.01	<MDL	50
Metribuzin	May 14-24	0.02	<MDL	0.02	<MDL	80
Phorate	May 14-24	0.01	<MDL	0.01	<MDL	2
Prometryne	May 14-24	0.03	<MDL	0.03	<MDL	1
Simazine	May 14-24	0.01	<MDL	0.01	<MDL	10
Terbufos	May 14-24	0.01	<MDL	0.01	<MDL	1
Triallate	May 14-24	0.01	<MDL	0.01	<MDL	230
Trifluralin	May 14-24	0.02	<MDL	0.02	<MDL	45
2,4-dichlorophenoxyacetic acid	May 14-24	0.19	<MDL	0.19	<MDL	100
Bromoxynil	May 14-24	0.33	<MDL	0.33	<MDL	5
Dicamba	May 14-24	0.2	<MDL	0.2	<MDL	120
Diclofop-methyl	May 14-24	0.4	<MDL	0.4	<MDL	9
MCPA (mg/L)	May 14-24	0.00012	<MDL	0.00012	<MDL	0.1
Picloram	May 14-24	1	<MDL	1	<MDL	190
2,4-dichlorophenol	May 14-24	0.15	<MDL	0.15	<MDL	900
2,4,6-trichlorophenol	May 14-24	0.25	<MDL	0.25	<MDL	5
2,3,4,6-tetrachlorophenol	May 14-24	0.2	<MDL	0.2	<MDL	100
Pentachlorophenol	May 14-24	0.15	<MDL	0.15	<MDL	60

[a] – Samples collected on May 14, 2024

3.3.5 Nitrate & Nitrite
One treated water sample is taken every three months and tested for nitrate and nitrite. The Ontario Drinking Water Quality Standard (ODWQS) has set a Maximum Allowable Concentration (MAC) of 1 mg/L for nitrites and 10 mg/L for nitrates. The results were found to be within compliance. Refer to **Table 8** for a summary of Nitrate and Nitrite results

3.3.4 Trihalomethanes
One distribution sample is taken every three months from a point in the distribution system and tested for Trihalomethanes (THMs). The Ontario Drinking Water Quality Standard (ODWQS) have set a Maximum Allowable Concentration (MAC) of 100µg/L for this parameter and it's expressed as a running annual average. In 2025, the average THM was found to be 6.4µg/L, which is well below the MAC. Refer to **Table 8** for the summary of Trihalomethane results.

Table 8 *– Nitrate, Nitrite and THM Results at Wingham Drinking Water System*

Treated Drinking Water - Nitrites and Nitrates POE Well 3									O.Reg 169				
Date		**Jan 14-25**		**Apr 8-25**		**Jul 8-25**		**Oct 14-25**	**Min**	**Max**	**Avg**	**MAC**	**1/2 MAC**
NO2	<	0.003	<	0.003	<	0.03	<	0.003	**0.003**	**0.030**	**0.010**	**1**	**0.5**
NO3		0.011		0.009		0.008		0.011	**0.008**	**0.011**	**0.010**	**10**	**5**
NO2+NO3		0.011		0.009		0.008		0.011	**0.008**	**0.011**	**0.010**	**10**	**5**

Treated Drinking Water - Nitrites and Nitrates POE Well 4									O.Reg 169				
Date		**Jan 14-25**		**Apr 8-25**		**Jul 8-25**		**Oct 14-25**	**Min**	**Max**	**Avg**	**MAC**	**1/2 MAC**
NO2	<	0.003	<	0.003		0.007	<	0.003	**0.003**	**0.007**	**0.004**	**1**	**0.5**
NO3		0.006		0.006	<	0.006	<	0.011	**0.006**	**0.011**	**0.007**	**10**	**5**
NO2+NO3		0.006		0.006		0.007	<	0.011	**0.006**	**0.011**	**0.008**	**10**	**5**

Distribution Drinking Water - Trihalomethanes												
Date	**Jan 14-25**		**Apr 8-25**		**Jul 8-25**		**Oct 14-25**	**Min**	**Max**	**Average**	**MAC**	**1/2 MAC**
THMs (total)	5.1		4.6		8.8		7.1	**4.6**	**8.8**	**6.4**	**100**	**50**
Bromodichloromethane	1.4		1.2		1.9		1.6	**1.2**	**1.9**	**1.5**		
Bromoform	0.34	<	0.34	<	0.34	<	0.34	**0.340**	**0.340**	**0.340**		
Chloroform	3.3		2.9		6.2		4.90	**2.9**	**6.2**	**4.3**		
Dibromochloromethane	0.47		0.48		0.66		0.56	**0.5**	**0.7**	**0.5**		

[a] – Samples collected on January 14nd, April 8nd, July 8th and Oct 14th 2025 respectively.

3.3.6 Sodium

One water sample is collected every 60 months and tested for Sodium. O. Reg 170/03 has set a Maximum Acceptable concentration (MAC) of 20 mg/L for Sodium which requires the Medical Office of Health be notified if the concentration exceeds the MAC. These samples were collected on January 10, 2023 and were found to be 13.1 mg/L at Well 3 and 15.1 mg/L at Well 4. Results for 2025 treated fluoride samples can be found in **Table 9.** The next samples will be collected in 2028.

3.3.7 Fluoride

One water sample is collected at least once in every 60 months and tested for Fluoride. The Ontario Drinking Water Quality Standards (ODWQS) have set a MAC of 1.5 mg/L. These samples were collected on January 10, 2023 and were found to be 0.96 mg/L at Well 3 and 0.98 mg/L at Well 4, which is within compliance. Results for 2025 treated fluoride samples can be found in **Table 9.** The next samples will be collected in 2028.

Table 9 *– Sodium and Fluoride Treated*

TW Sodium/ Fluoride			
Date	**Location**	**Fluoride**	**Sodium**
Jan 10-23	**Well 3 POE**	0.96	13.1
	Well 4 POE	0.98	15.1
Treated MAC		1.5	**20**
	Min	0.96	13.1
	Max	0.98	15.1
	Average	1.0	14.1

[a] – Samples collected for treated water Jan 10, 2023

4.0 WATER AND CHEMICAL USAGE

4.1 Chemical Usage

Refer to **Table 10.** From January 1, 2025 to December 31, 2025, 877.3 kg of sodium hypochlorite was used to ensure proper disinfection in the distribution system with an average dosage of 2.56 mg/L between the two wells.

Table 10 *– Chemical Usage at Wingham Drinking Water System*

Township of North Huron - Wingham Well Supply - 2025 Chemical Usage Summary								
Site	**Well #3**				**Well #4**			
Month	**Chlorine used (Kg)**	**Cl Dosage**	**Silicate (L)**	**Silicate Dosage**	**Chlorine used (Kg)**	**Cl Dosage**	**Silicate (L)**	**Silicate Dosage**
January	53.7	2.82	239.9	5.72	17.0	2.71	77.1	5.11
February	48.4	2.41	252.3	5.02	14.9	2.63	82.5	5.40
March	54.8	1.51	301.6	5.22	14.3	2.83	72.7	5.19
April	43.3	2.36	231.8	4.84	20.9	2.49	120.0	5.40
May	54.3	2.38	304.8	5.21	32.5	2.57	177.1	5.45
June	58.3	2.36	323.3	5.35	31.6	2.61	181.0	5.65
July	58.7	3.63	332.1	7.90	25.4	2.81	120.5	5.43
August	46.2	2.37	254.5	5.11	23.1	2.89	112.5	5.51
September	51.9	2.51	280.6	5.38	28.5	2.87	139.8	5.69
October	43.9	2.34	250.1	5.24	24.8	2.55	133.7	5.51
November	41.6	2.17	258.2	5.26	21.7	2.81	116.6	5.78
December	45.0	2.18	280.8	5.31	22.3	2.75	115.9	5.40
Total	600.2	29.04	3309.9	65.55	277.1	32.51	1449.6	65.54
Min	41.6	1.51	231.8	4.84	14.3	2.49	72.7	5.11
Max	58.7	3.63	332.1	7.90	32.5	2.89	181.0	5.78
Avg	50.0	2.42	275.8	5.46	23.1	2.71	120.8	5.46

[a] – Results collected from January 1, 2025 – December 31, 2025

4.2 Annual Flows

A summary of the water supplied to the distribution system in 2025 is provided in **Table 11.** This Table provides a breakdown of the flow provided to the distribution system.
Flow meters were calibrated in 2025 by Advanced Meter Service and were found to be acceptable. The Flow meters will be calibrated again 2026.

Table 11 *– Treated Water Flows for Wingham Drinking Water System*

Wingham Water - 2 wells Combined Totals			Wingham Water - Max Flow Summary	
Month	**Total Flow m3**	**Max Daily Flow**	**Well 3**	**Well 4**
January	26831	1327	888	439
February	25762	1717	1060	657
March	28335	1461	809	652
April	27468	1319	864	455
May	31940	1720	1058	662
June	29990	1859	944	915
July	31536	1341	880	461
August	30935	1551	1071	480
September	31457	2249	1383	866
October	26965	1358	925	433
November	29402	1741	1085	656
December	34106	1889	1178	711
Total	354727	19532	12145	7387
Min	25762	1319	809	433
Max	34106	2249	1383	915
Avg	29561	1628	1012.1	616

Table 12 *– Water Taking Summary*

Permit to Take Water 1450-B38HKS Compliance Report - 2025					
Maximum Amount of Taking Permitted					
	Max/Day on Permit		Peak Flow	%of Limit	
Well #3 (in m3)	6537	m3	1383	21.2	%
Well #4 (in m3)	5270	m3	915	17.4	%
Average Annual Amount of Taking Permitted					
Well #3 (in m3)	6537	m3	647	9.9	%
Well #4 (in m3)	5270	m3	325	6.2	%
Municipal Drinking Water License 090-102 Issue 6 - Capacity Report 2025					
Total Peak Flow and average daily flow of all wells combined					
	Maximum		Actual	%of Cap	
Capacity (m3/d)	11808	m3	1969	16.7	%
Average Daily flow (m3/Day)	11808	m3	972	8.2	%

[a] – Results collected from January 1, 2025 – December 31, 2025

5.0 IMPROVEMENTS TO SYSTEM AND ROUTINE & PREVENTATIVE MAINTENANCE

The following summarizes water system improvements and routine and preventative maintenance for the Wingham Drinking Water System:

- Routine & corrective maintenance as per computerized maintenance system
  - Hydrant flushing
  - Analyzer calibration and cleanings
  - Flow meter verification
  - Alarm testing
  - Generator Test runs
- Well 3 turbidity analyzer failed - removed and ordered new one for well 4
- Well 3 generator taken off wheels and installed an automatic transfer switch

6.0 MINISTRY OF THE ENVIRONMENT INSPECTIONS AND REGULATORY ISSUES

The most recent Ministry of Environment inspection was completed by David Dominelli from Sept 24 2025 - November 25, 2025.

There were no non-compliances noted and the final inspection rating was 100%

7.0 EMERGENT ISSUES

There are no emergency issues to report at this time

Report Completed by: Veolia Water
For More information please contact:
Scott Gowan, Project Manager
Veolia Water Canada, Inc.
130 Wallace St PO Box 220, Walkerton On, N0G 2V0
Tel 1-519-881-1474
scott.gowan@veolia.com
www.veoliawaterna.com