

# North Dundas Drinking Water System

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Waterworks # 210000728  
System Category – Large Municipal Residential

## Annual Report

Township of North Dundas

Reporting Period of January 1<sup>st</sup> – December 31<sup>st</sup> 2023

Issued: February 27<sup>th</sup>, 2024

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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## Report Availability

As North Dundas' Drinking Water System is considered a large municipal residential system under O. Reg. 170/03, this report must be made available to the public. It can be found at the municipal office located at 636 St. Lawrence Street, Winchester, Ontario and on the Township's website (<https://www.northdundas.com>).

## Compliance Report Card

Compliance Event	# of Events
Ministry of Environment Inspections	0
Ministry of Labour Inspections	0
QEMS External Audit	1 (S1 Audit)
AWQI's/BWA	3/1
Non-Compliance	2
Spills	0
Watermain Breaks	5

## System Process Description

### Raw Source

North Dundas's Drinking Water System is supplied by a total of eight groundwater production wells located throughout the municipality.

Chesterville Well #5 is a 12.2 m deep drilled groundwater production well equipped with a submersible pump rated at 23 L/sec at 35 m total dynamic head (TDH). The well is located approximately 3.8 km west of Chesterville and 600 m north of Highway 43.

Chesterville Well #6 is a 12.2 m deep drilled groundwater production well equipped with a submersible pump rated at 30.3 L/sec at 34.1 m TDH. The well is located approximately 3.8 km west of Chesterville and 600 m north of Highway 43.

Winchester Well #1 is a 57.9 m deep drilled well equipped with a submersible pump rated at 8.7 L/s at 69.5 m TDH. The well is located in Winchester at the south end of St. Lawrence Street.

Winchester Well #5 is a 28.0 m deep drilled well equipped with a submersible pump rated at 7.6 L/s at 70 m TDH. The well is located west of Winchester, along County Road 31.

Winchester Well #6 is a 15.9 m deep drilled well equipped with a submersible pump rated at 8.3 L/s at 69.5 m TDH. The well is located west of Winchester, along Spruit Road.

Winchester Well Field #7 consists of three gravel packed wells (7a, 7b, 7c), each with a depth of 12-15 m and each equipped with a submersible pump rated at 11.4 L/s at 45 m TDH. The wells are located north east of Winchester along Thompson Road.

### Treatment

Sodium hypochlorite is used for both primary and secondary disinfection. Each treatment facility has two chemical feed pumps (one duty and one standby). Water leaving each treatment facility is continuously monitored for flow and free chlorine residual.

### Distribution

The distribution systems in both Chesterville and Winchester were originally constructed in 1960. Watermains installed prior to 1973 are composed of asbestos cement, while newer pipes are composed of ductile iron or PVC. The distribution system contains a total of approximately 50 kilometers of distribution piping. Chesterville and Winchester's distribution systems operate independently of one another.

Chesterville's elevated storage tank and reservoir accommodate Chesterville's peak hour demands and fire flows. The elevated tank is fabricated entirely of steel and has a storage capacity of 568 m<sup>3</sup>. The reservoir consists of two equally sized underground cells and a suction well with a total capacity of 530 m<sup>3</sup>.

Winchester's elevated storage tank and reservoir accommodate Winchester's peak hour demands and fire flows. The elevated tank is fabricated of steel and mounted on a concrete pedestal. It has a storage capacity of 2300 m<sup>3</sup>. The reservoir is an on-ground stainless steel baffled tank with an effective capacity of 400 m<sup>3</sup>.

#### Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag / Lavo

## Summary of Non-Compliance

### Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
April 19, 2023	161781	Winchester Treated Water (TW)	Well #7 TW Total Coliform Result: 3 CFU/100mL	Total Coliform Resample Results: Well #7 Treated: 0 CFU/100 mL Distribution: 0 CFU/100 mL	O. Reg. 170/03	Resampled Well #7 TW and one distribution sample.
June 7, 2023	162131	Winchester Distribution Water	Loss of Pressure	The West end of town (West of Howard Street) was isolated to reduce flow through the break at the intersection of Main St W and Bailey Ave. Approximately 167 units had no water service from approx. 9:30am - 3:00pm.	O. Reg. 170/03	A precautionary BWA was issued by the Township and OCWA to affected residents prior to service being restored. After repairs were completed, the affected area was flushed and sampled – all clear. EOHU rescinded the PBWA on June 9 <sup>th</sup> . Notices were hand delivered to affected residents/businesses.
July 12, 2023	162543	Winchester Distribution Water (DW)	DW Total Coliform Result: 1 CFU/100mL	Total Coliform Resample Results: DW 1: 0 CFU/100 mL DW 2: 0 CFU/100 mL DW 3: 0 CFU/100 mL	O. Reg. 170/03	Resampled distribution water at AWQI location, upstream and downstream.

### Non-Compliance

Legislation	requirement(s) system failed to meet	Corrective Action	Status
MDWL & DWWP	Loss of trending occurred at the Chesterville Reservoir due to widespread power outage caused by storm event. From 17:17 on April 5 <sup>th</sup> , 2023 to 16:58 on April 6 <sup>th</sup> , 2023	Chesterville Well #6 was supplying water to the Chesterville Reservoir. Chesterville Well #6 trending was accessible online and onsite. The chlorine residual of the water going to the reservoir during the power outage ranged from 0.77 mg/L to 2.64mg/L.	n/a
SDWA & MDWL	The treated flow meter at Chesterville's Reservoir failed at approximately 05:00 on June 12 <sup>th</sup> , 2023.	New flow meter was installed on December 6 <sup>th</sup> , 2023.	Complete

### Non-Compliance Identified in a Ministry Inspection

Legislation	Observation	Corrective Action	Status
None to report			

## Flows

### Raw Water Flows

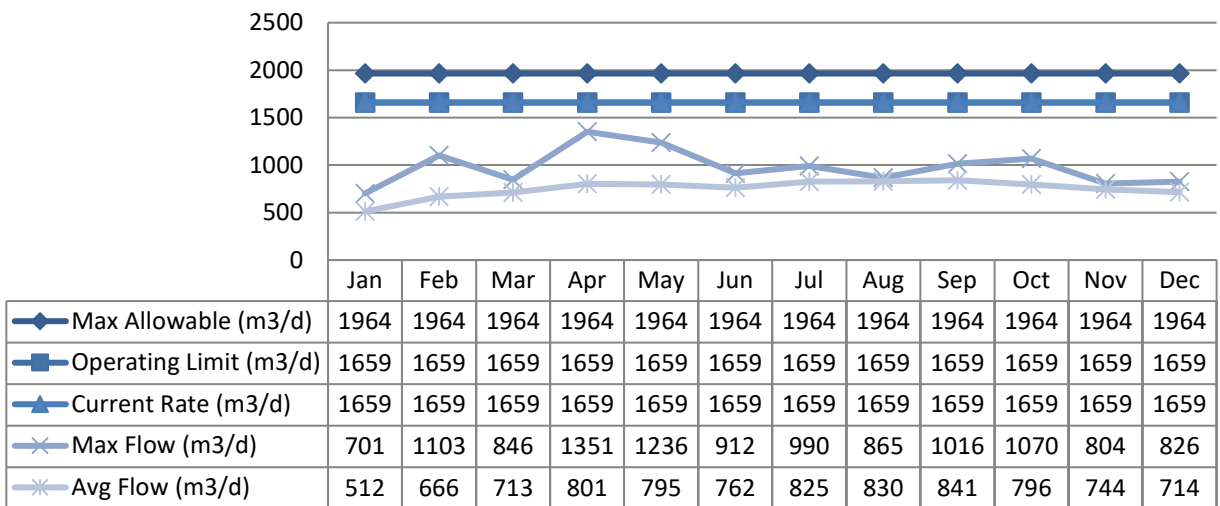
Raw water flows are regulated under the applicable Permit to Take Water (PTTW).

#### Chesterville Well #5 Raw Water Flows

Raw flow data for 2023 was submitted to the Ministry electronically under Permit #3380-AC3QF9. The confirmation can be found attached in Appendix A.

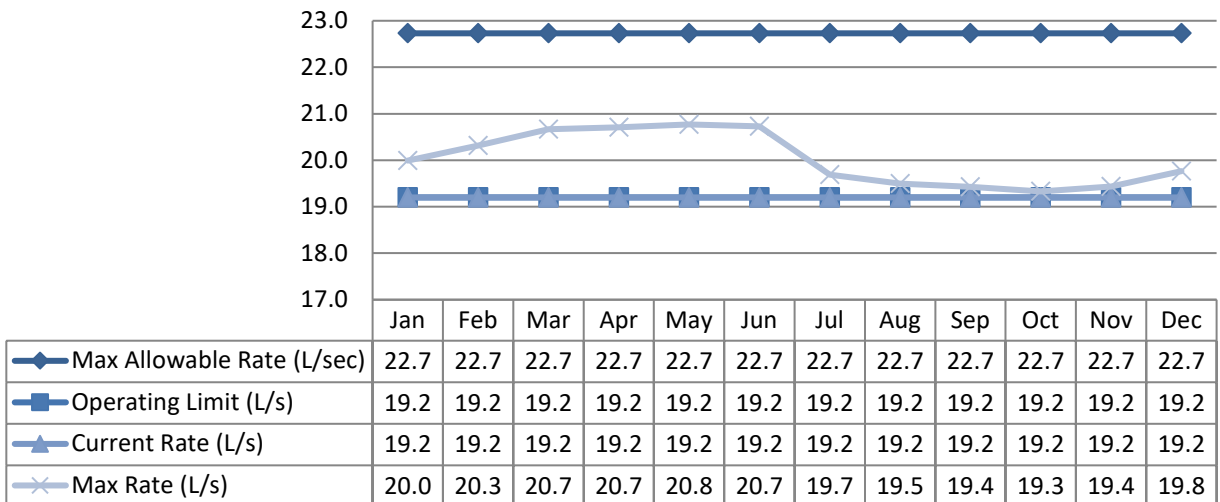
#### Chesterville Well #5 - Flows

Max. Allowable Flow - PTTW



#### Chesterville Well #5 - Maximum Flow Rates

Max. Allowable Rate - PTTW

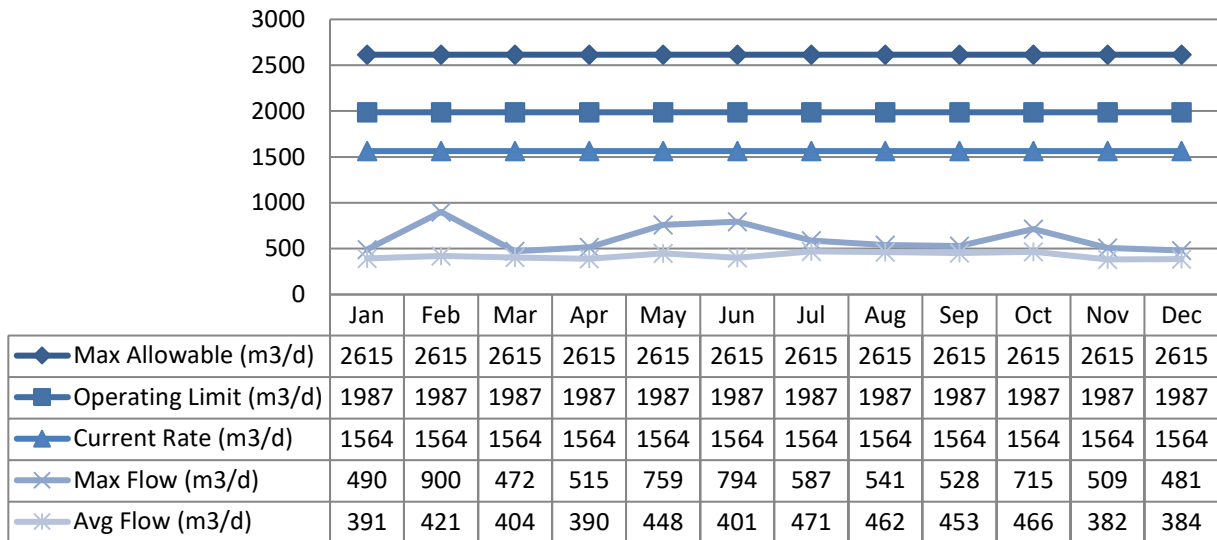


**Chesterville Well #6 Raw Water Flows**

Raw flow data for 2023 was submitted to the Ministry electronically under Permit #3380-AC3QF9. The confirmation can be found attached in Appendix A.

**Chesterville Well #6 - Flows**

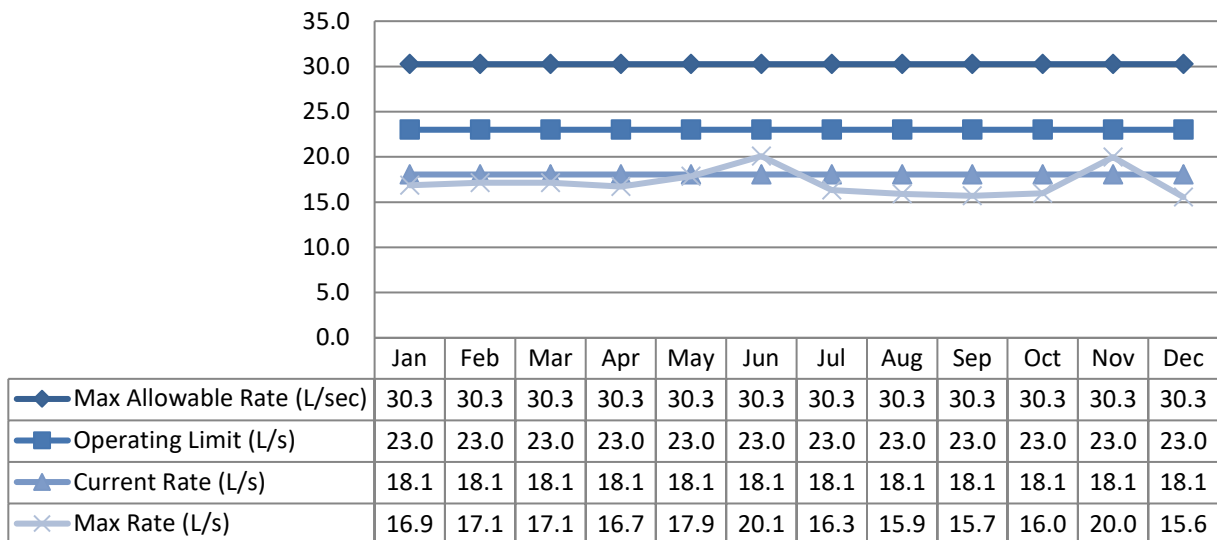
Max. Allowable Flow - PTTW



*\*Elevated Max Flow in February caused by a fire in Chesterville.*

**Chesterville Well #6 - Maximum Flow Rates**

Max. Allowable Rate - PTTW

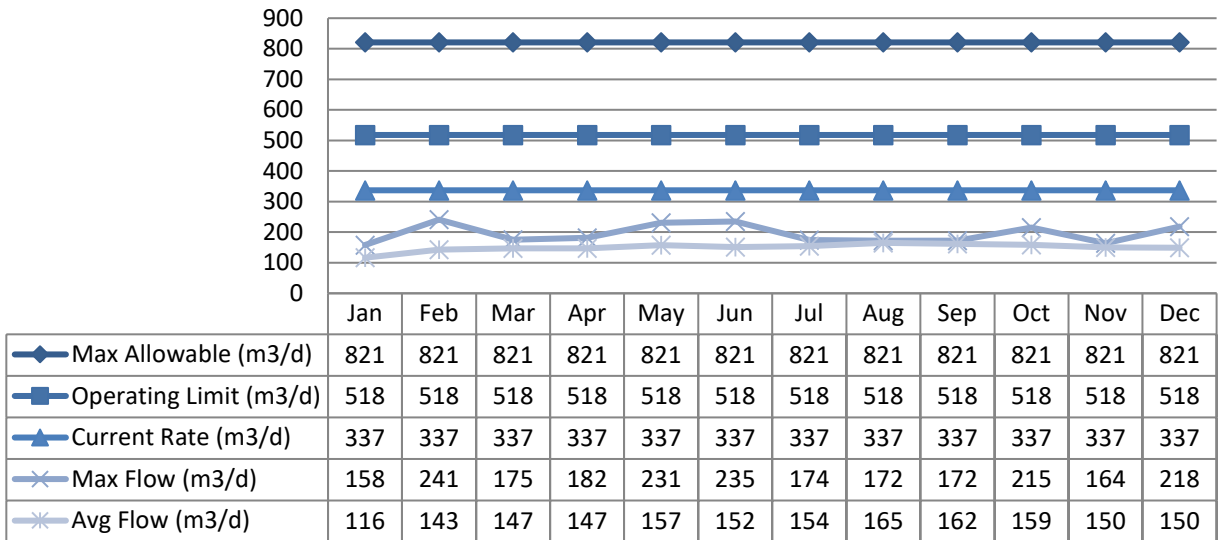


**Winchester Well #1 Raw Water Flows**

Raw flow data for 2023 was submitted to the Ministry electronically under Permit #4175-9C3GPW. The confirmation can be found attached in Appendix A.

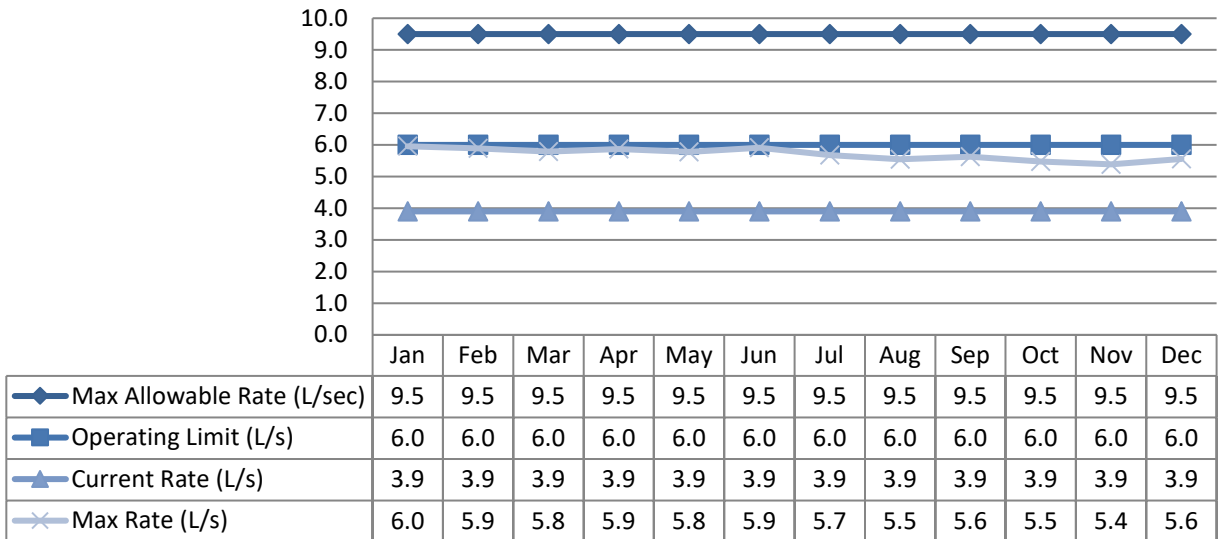
Winchester Well #1 - Flows

Max. Allowable Flow - PTTW



Winchester Well #1 - Maximum Flow Rates

Max. Allowable Rate - PTTW



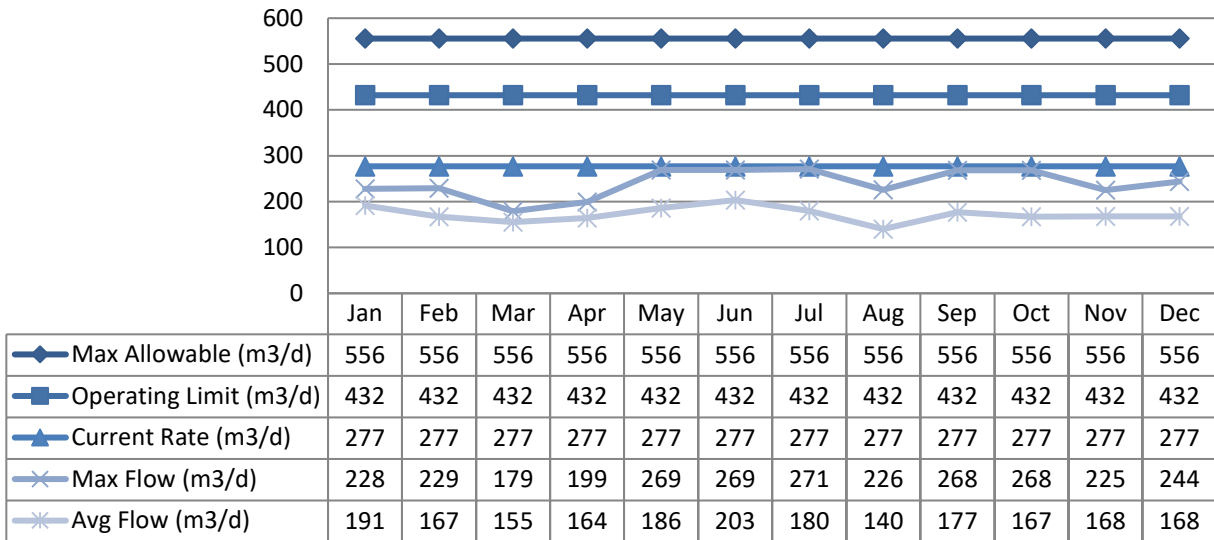


**Winchester Well #5 Raw Water Flows**

Raw flow data for 2023 was submitted to the Ministry electronically under Permit #0276-BMYKQT. The confirmation can be found attached in Appendix A.

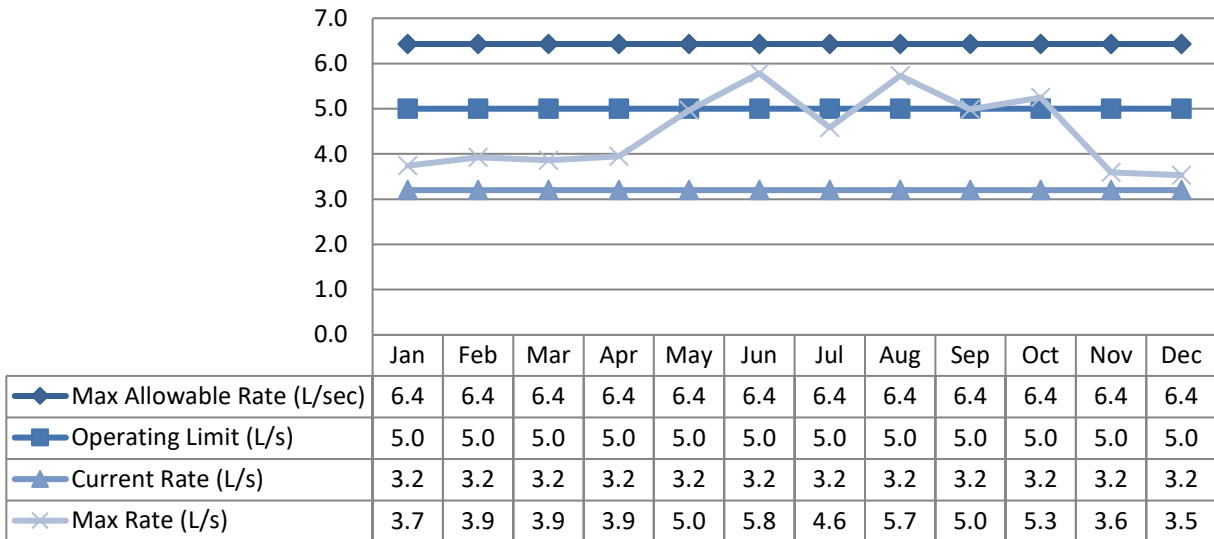
**Winchester Well #5 - Flows**

Max. Allowable Flow - PTTW



**Winchester Well #5 - Maximum Flow Rates**

Max. Allowable Rate - PTTW

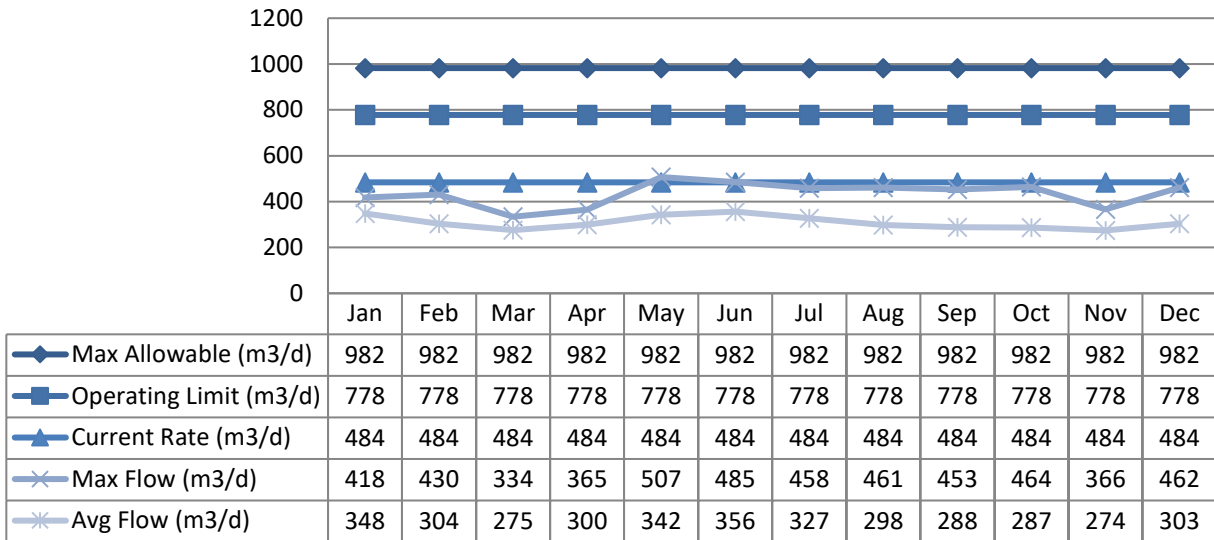


**Winchester Well #6 Raw Water Flows**

Raw flow data for 2023 was submitted to the Ministry electronically under Permit #0088-9C3JG4. The confirmation can be found attached in Appendix A.

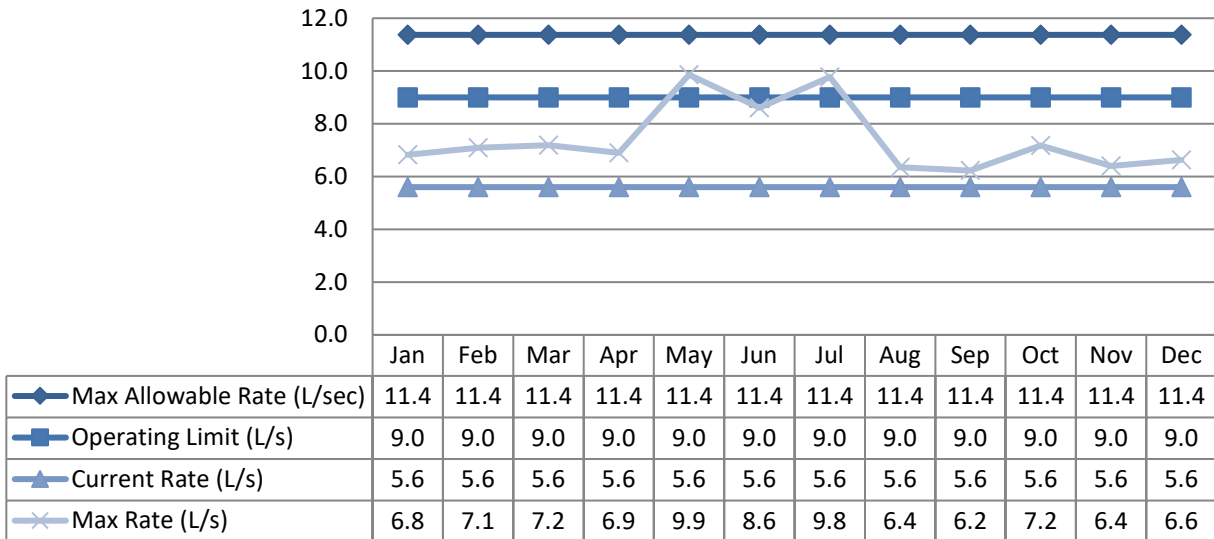
**Winchester Well #6 - Flows**

Max. Allowable Flow - PTTW



**Winchester Well #6 - Maximum Flow Rates**

Max. Allowable Rate - PTTW

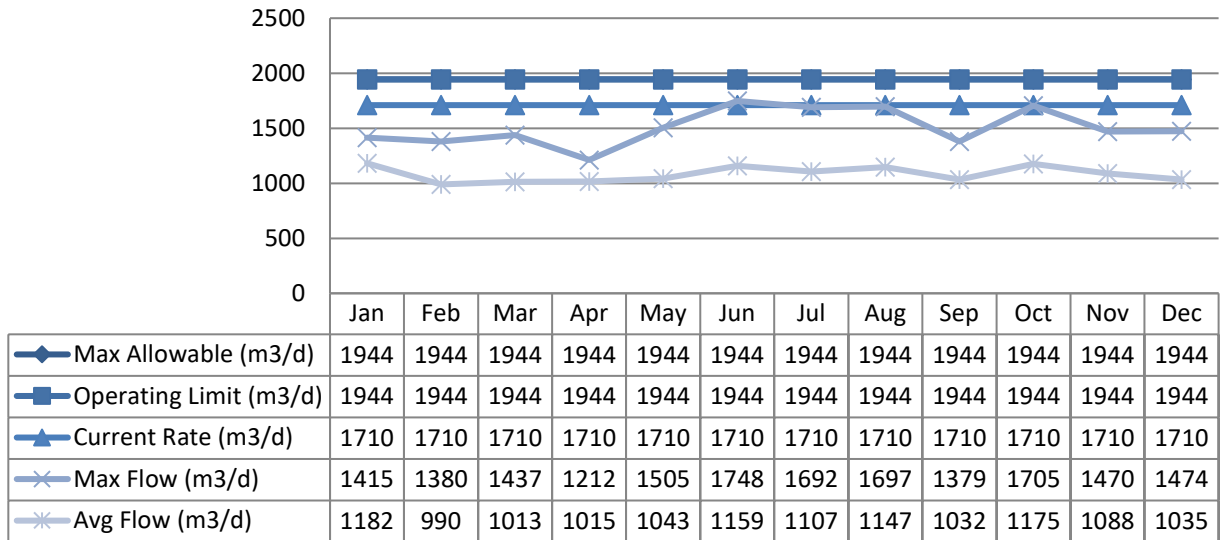


**Well Field #7 Raw Water Flows**

Raw flow data for 2023 was submitted to the Ministry electronically under Permit #6328-BMYJUS. The confirmation can be found attached in Appendix A.

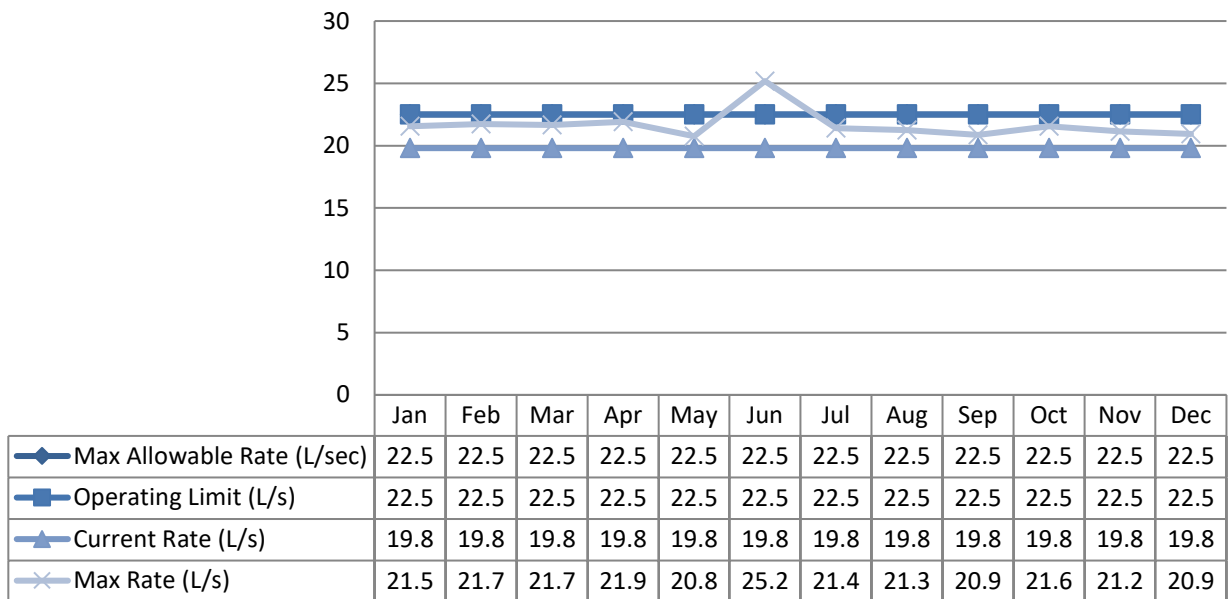
**Winchester Well Field #7 - Flows**

Max. Allowable Flow - PTTW



**Winchester Well Field #7 - Maximum Flow Rates**

Max. Allowable Rate - PTTW



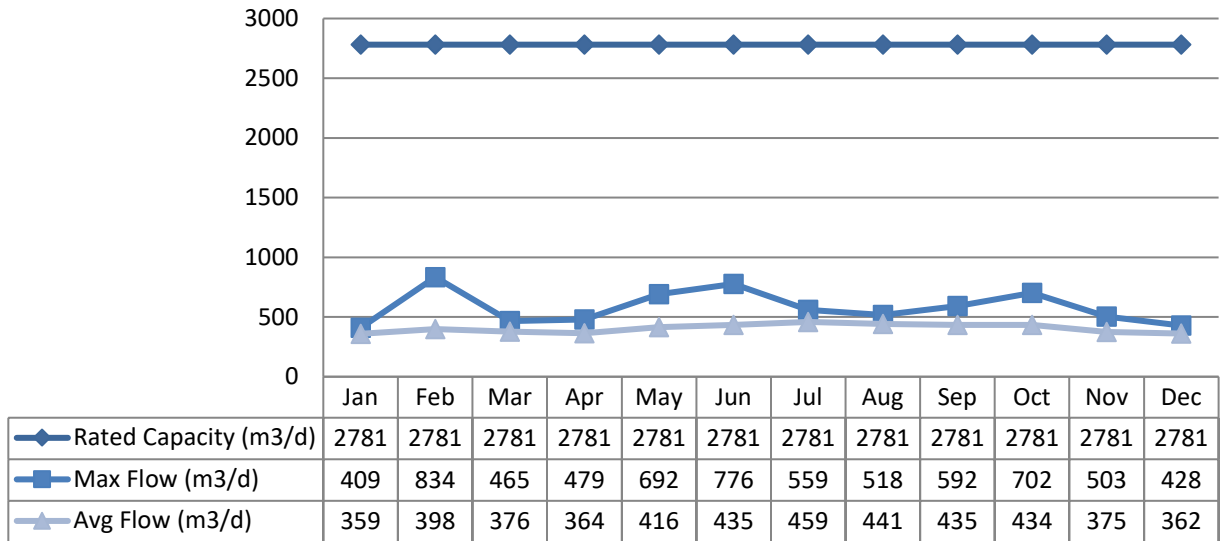
\* Well #7 – June Max Rate above 22.5 L/s caused by brief spikes of less than 1 minute.

**Treated Water Flows**

Treated water flows are regulated under the Municipal Drinking Water Licence (MDWL).

Chesterville Reservoir - Daily Treated Flows

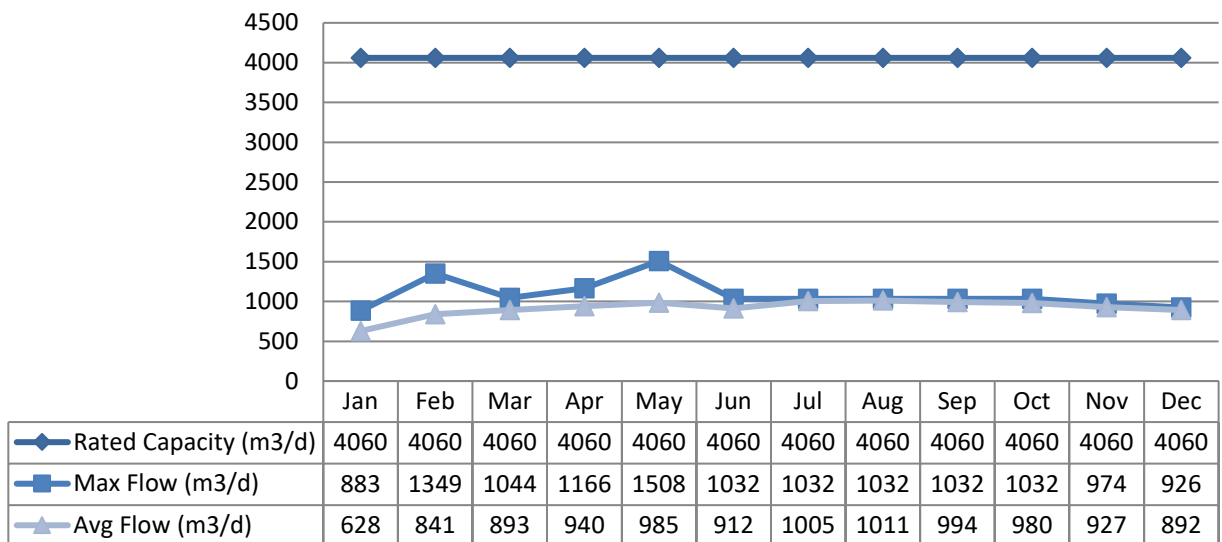
Rated Capacity - MDWL



*\*Chesterville Reservoir Treated Water Flow meter not operational from June 12 to December 6, 2023 - Daily Treated Flows Calculated based on run times and average flow rate of 14.5 L/s.*

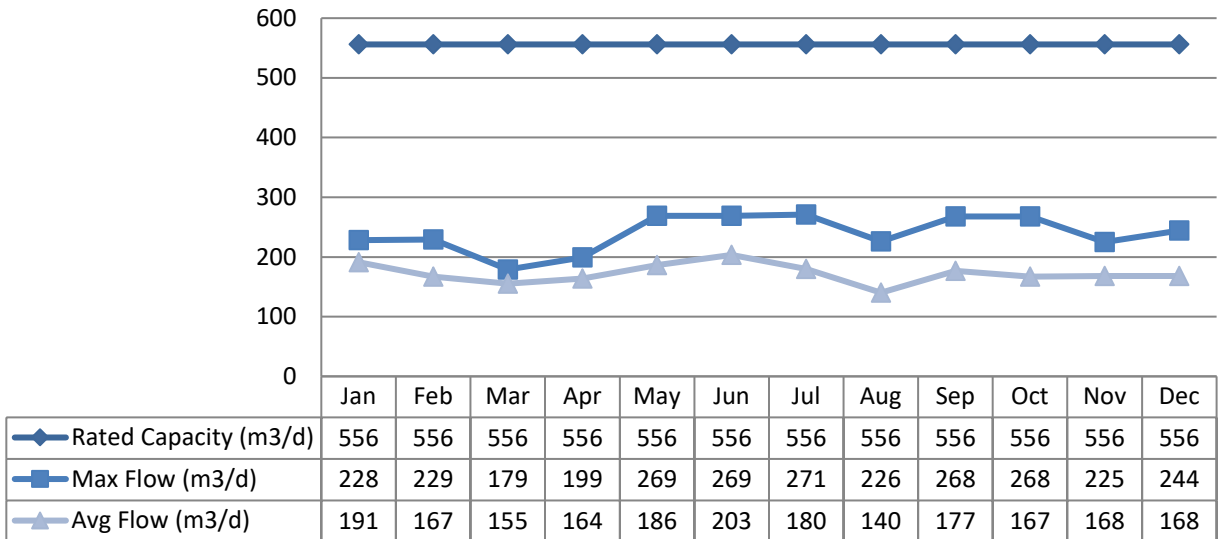
Winchester Reservoir - Treated Flows

Rated Capacity - MDWL



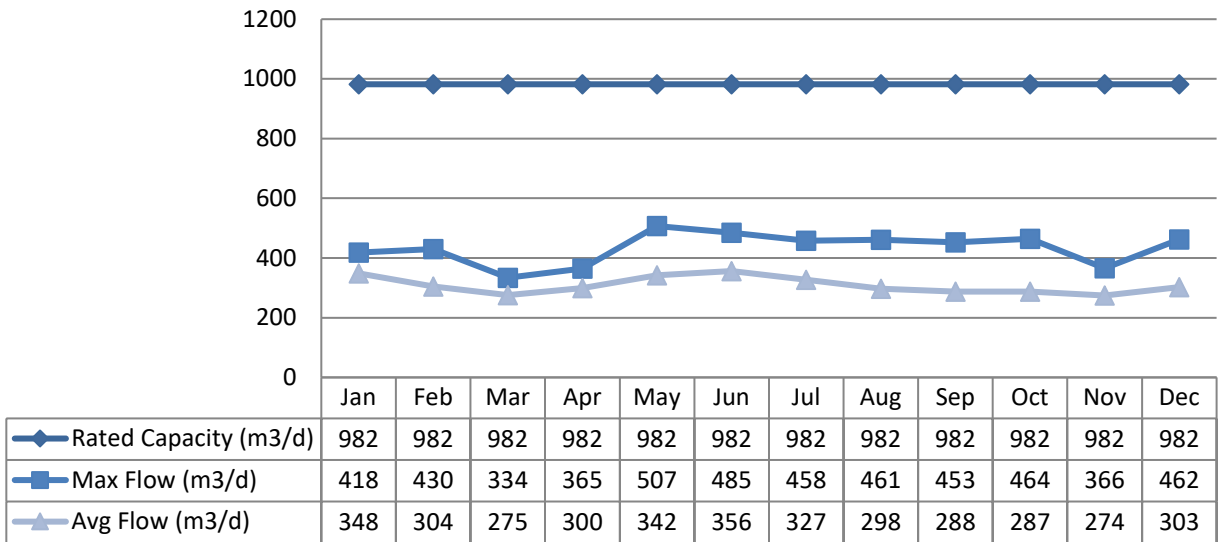
Winchester Well #5 - Treated Flows

Rated Capacity - MDWL



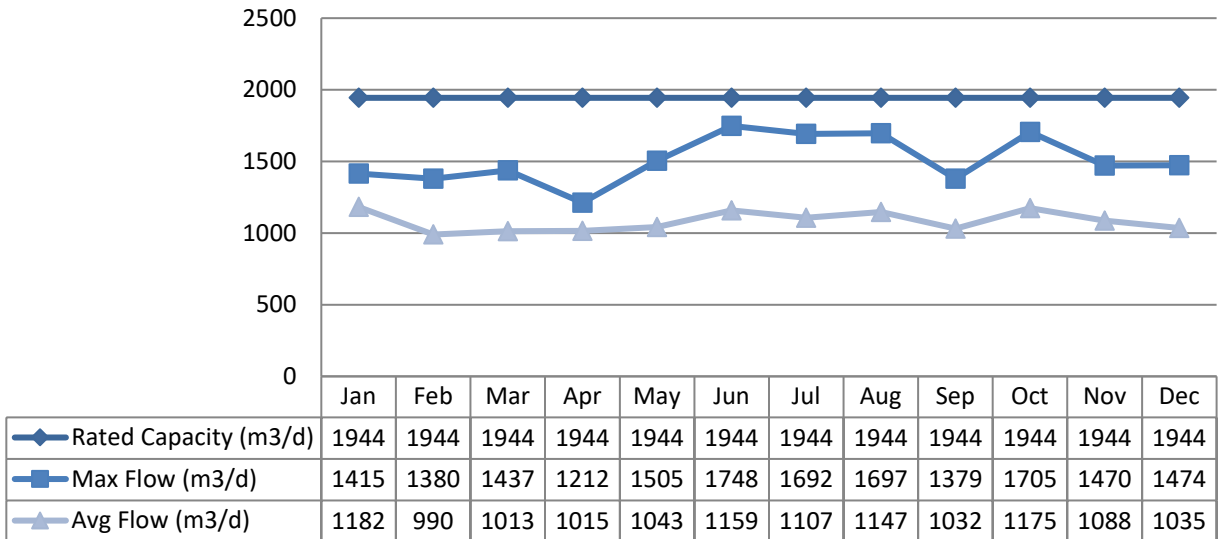
Winchester Well #6 - Treated Flows

Rated Capacity - MDWL

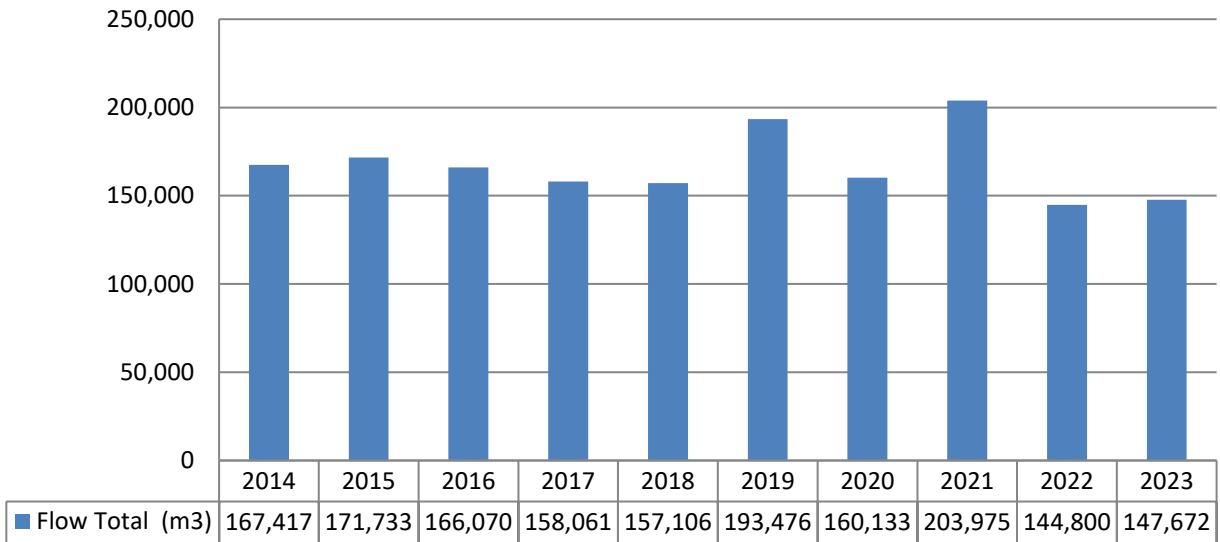


Winchester Well Field #7 - Treated Flows

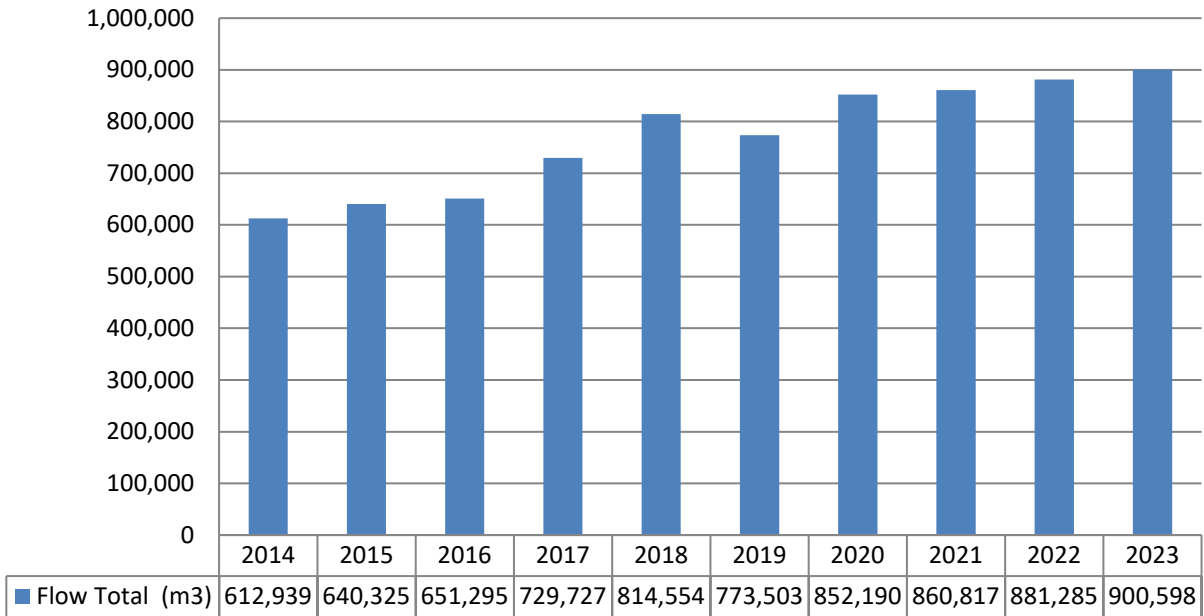
Rated Capacity - MDWL



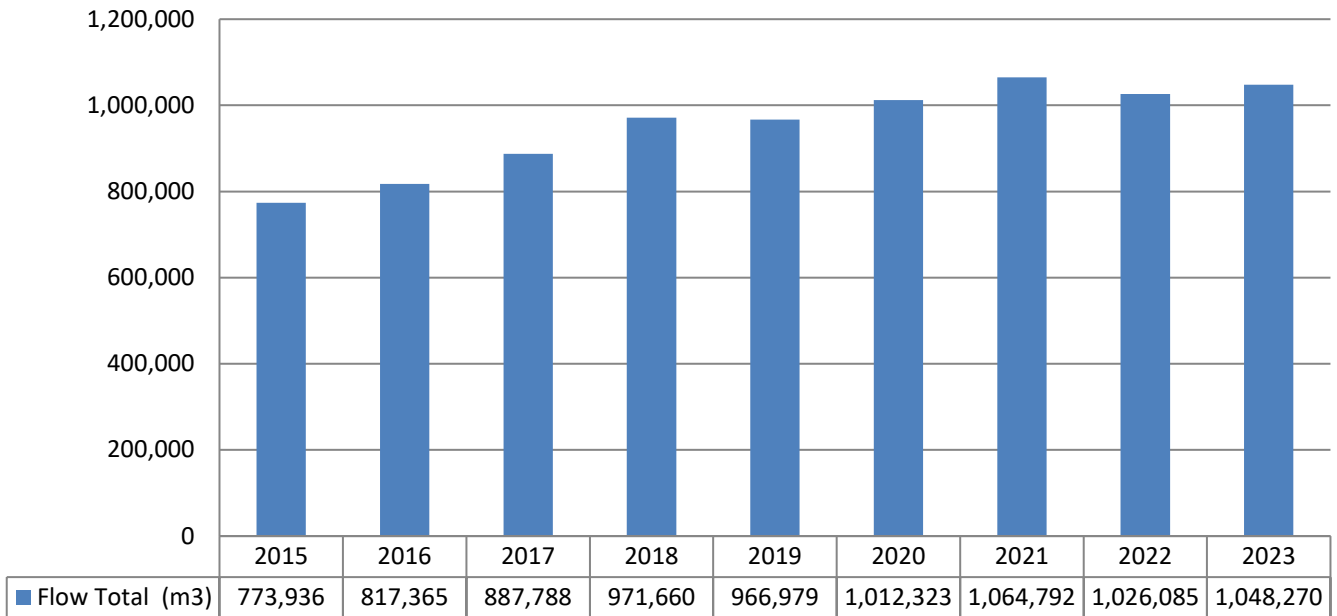
Chesterville DWS - Annual Total Flow Comparison



Winchester DWS - Annual Total Flow Comparison



North Dundas DWS - Annual Total Flow Comparison



## Regulatory Sample Results Summary

### Microbiological Testing

	No. of Samples Collected	Range of E.Coli Results		Range of Total Coliform Results		Range of HPC Results	
		Min	Max	Min	Max	Min	Max
Raw Water	415	0	1	0	17	n/a	n/a
Treated Water	260	0	0	0	3	< 2	500
Distribution Water	212	0	0	0	1	< 2	8

### Operational Testing

	No. of Samples Collected	Range of Results	
		Minimum	Maximum
Turbidity, In-House (NTU) - RW1 (WW1)	12	0.25	0.66
Turbidity, In-House (NTU) - RW2 (WW5)	12	0.17	0.75
Turbidity, In-House (NTU) - RW3 (WW6)	12	0.10	0.55
Turbidity, In-House (NTU) - RW4 (WW7A)	12	0.11	0.47
Turbidity, In-House (NTU) - RW5 (WW7B)	12	0.10	0.39
Turbidity, In-House (NTU) - RW6 (WW7C)	12	0.23	0.80
Turbidity, In-House (NTU) - RW8 (CW5)	12	0.08	0.73
Turbidity, In-House (NTU) - RW9 (CW6)	12	0.24	0.80
Free Chlorine Residual, On-Line (mg/L) - TW1 (CWRes)	8760	0.79	2.28
Free Chlorine Residual, On-Line (mg/L) - TW2 (WWRes)	8760	0.65	3.70
Free Chlorine Residual, On-Line (mg/L) - TW3 (WW5)	8760	0.50	4.10
Free Chlorine Residual, On-Line (mg/L) - TW4 (WW6)	8760	0.53	2.66
Free Chlorine Residual, On-Line (mg/L) - TW5 (WW7)	8760	0.52	3.55
Free Chlorine Residual, On-Line (mg/L) - DW1 (WW)	8760	0.47	2.59
Free Chlorine Residual, On-Line (mg/L) - DW3 (CW)	8760	0.55	1.85
Free Chlorine Residual, In-House (mg/L) - DW1 (WW)	60	0.67	2.00
Free Chlorine Residual, In-House (mg/L) - DW2 (WW)	53	0.61	1.81
Free Chlorine Residual, In-House (mg/L) - DW3 (CW)	58	0.81	2.01
Free Chlorine Residual, In-House (mg/L) - DW4 (CW)	53	0.84	2.22

NOTE: Spikes recorded by on-line instrumentation may result from 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 O. Reg. 170/03. Sodium and Fluoride are required to be tested every 60 months. Nitrate and Nitrite are tested quarterly, and metals are tested every 36 months as required under O. Reg. 170/03. In the event any parameter exceeds half the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- MDL = Below the laboratory detection level

\*Note: 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.

## Chesterville Reservoir

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Antimony: Sb (ug/L) - TW	2021/01/14	<MDL 0.9	6.0	No	No
Arsenic: As (ug/L) - TW	2021/01/14	0.9	10.0	No	No
Barium: Ba (ug/L) - TW	2021/01/14	177.0	1000.0	No	No
Boron: B (ug/L) - TW	2021/01/14	15.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2021/01/14	<MDL 0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2021/01/14	0.32	50.0	No	No
Mercury: Hg (ug/L) - TW	2021/01/14	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2021/01/14	<MDL 0.04	50.0	No	No
Uranium: U (ug/L) - TW	2021/01/14	0.561	20.0	No	No
<b>Additional Inorganics</b>					
Fluoride (mg/L) - TW	2022/01/12	<MDL 0.1	1.5	No	No
Nitrite (mg/L) - TW	2023/01/09	0.1	1.0	No	No
Nitrite (mg/L) - TW	2023/04/03	<MDL 0.05	1.0	No	No
Nitrite (mg/L) - TW	2023/06/05	0.06	1.0	No	No
Nitrite (mg/L) - TW	2023/07/10	<MDL 0.05	1.0	No	No
Nitrite (mg/L) - TW	2023/10/10	<MDL 0.05	1.0	No	No
Nitrate (mg/L) - TW	2023/01/09	0.1	10.0	No	No
Nitrate (mg/L) - TW	2023/04/03	0.13	10.0	No	No
Nitrate (mg/L) - TW	2023/06/05	0.27	10.0	No	No
Nitrate (mg/L) - TW	2023/07/10	0.19	10.0	No	No
Nitrate (mg/L) - TW	2023/10/10	0.06	10.0	No	No
Sodium: Na (mg/L) - TW	2022/01/24	18.0	20*	n/a	n/a

**Winchester Reservoir**

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Antimony: Sb (ug/L) - TW	2021/01/14	<MDL 0.9	6.0	No	No
Arsenic: As (ug/L) - TW	2021/01/14	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2021/01/14	111.0	1000.0	No	No
Boron: B (ug/L) - TW	2021/01/14	173.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2021/01/14	0.004	5.0	No	No
Chromium: Cr (ug/L) - TW	2021/01/14	0.21	50.0	No	No
Mercury: Hg (ug/L) - TW	2021/01/14	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2021/01/14	0.15	50.0	No	No
Uranium: U (ug/L) - TW	2021/01/14	0.591	20.0	No	No
<b>Additional Inorganics</b>					
Fluoride (mg/L) - TW	2022/01/17	0.3	1.5	No	No
Nitrite (mg/L) - TW	2023/01/03	<MDL 0.1	1.0	No	No
Nitrite (mg/L) - TW	2023/04/11	0.07	1.0	No	No
Nitrite (mg/L) - TW	2023/07/04	<MDL 0.05	1.0	No	No
Nitrite (mg/L) - TW	2023/10/10	<MDL 0.05	1.0	No	No
Nitrate (mg/L) - TW	2023/01/03	<MDL 0.1	10.0	No	No
Nitrate (mg/L) - TW	2023/04/11	<MDL 0.05	10.0	No	No
Nitrate (mg/L) - TW	2023/07/04	<MDL 0.05	10.0	No	No
Nitrate (mg/L) - TW	2023/10/10	<MDL 0.05	10.0	No	No
Sodium: Na (mg/L) - TW	2022/01/24	55.6	20*	n/a	n/a

**Winchester Well #5**

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Antimony: Sb (ug/L) - TW	2021/01/14	<MDL 0.9	6.0	No	No
Arsenic: As (ug/L) - TW	2021/01/14	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2021/01/14	90.6	1000.0	No	No
Boron: B (ug/L) - TW	2021/01/14	706.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2021/01/14	<MDL 0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2021/01/14	0.9	50.0	No	No
Mercury: Hg (ug/L) - TW	2021/01/14	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2021/01/14	0.17	50.0	No	No
Uranium: U (ug/L) - TW	2021/01/14	0.074	20.0	No	No
<b>Additional Inorganics</b>					
Fluoride (mg/L) - TW	2022/01/31	<MDL 0.1	1.5	No	No
Nitrite (mg/L) - TW	2023/01/03	<MDL 0.1	1.0	No	No
Nitrite (mg/L) - TW	2023/04/11	<MDL 0.05	1.0	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Nitrite (mg/L) - TW	2023/07/04	<MDL 0.05	1.0	No	No
Nitrite (mg/L) - TW	2023/10/10	<MDL 0.05	1.0	No	No
Nitrate (mg/L) - TW	2023/01/03	<MDL 0.1	10.0	No	No
Nitrate (mg/L) - TW	2023/04/11	<MDL 0.05	10.0	No	No
Nitrate (mg/L) - TW	2023/07/04	<MDL 0.05	10.0	No	No
Nitrate (mg/L) - TW	2023/10/10	0.05	10.0	No	No
Sodium: Na (mg/L) - TW	2022/02/03	144.0	20*	n/a	n/a

### Winchester Well #6

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Antimony: Sb (ug/L) - TW	2021/01/14	<MDL 0.9	6.0	No	No
Arsenic: As (ug/L) - TW	2021/01/14	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2021/01/14	59.3	1000.0	No	No
Boron: B (ug/L) - TW	2021/01/14	119.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2021/01/14	0.008	5.0	No	No
Chromium: Cr (ug/L) - TW	2021/01/14	0.22	50.0	No	No
Mercury: Hg (ug/L) - TW	2021/01/14	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2021/01/14	0.04	50.0	No	No
Uranium: U (ug/L) - TW	2021/01/14	1.22	20.0	No	No
<b>Additional Inorganics</b>					
Fluoride (mg/L) - TW	2022/01/31	0.1	1.5	No	No
Nitrite (mg/L) - TW	2023/01/03	<MDL 0.1	1.0	No	No
Nitrite (mg/L) - TW	2023/04/11	0.06	1.0	No	No
Nitrite (mg/L) - TW	2023/07/04	0.07	1.0	No	No
Nitrite (mg/L) - TW	2023/10/10	<MDL 0.05	1.0	No	No
Nitrate (mg/L) - TW	2023/01/03	0.8	10.0	No	No
Nitrate (mg/L) - TW	2023/04/11	1.2	10.0	No	No
Nitrate (mg/L) - TW	2023/07/04	0.38	10.0	No	No
Nitrate (mg/L) - TW	2023/10/10	<MDL 0.05	10.0	No	No
Sodium: Na (mg/L) - TW	2022/02/03	20.9	20*	n/a	n/a

### Winchester Well Field #7

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Antimony: Sb (ug/L) - TW	2021/01/14	<MDL 0.9	6.0	No	No
Arsenic: As (ug/L) - TW	2021/01/14	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2021/01/14	81.8	1000.0	No	No
Boron: B (ug/L) - TW	2021/01/14	34.0	5000.0	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Cadmium: Cd (ug/L) - TW	2021/01/14	0.011	5.0	No	No
Chromium: Cr (ug/L) - TW	2021/01/14	0.15	50.0	No	No
Mercury: Hg (ug/L) - TW	2021/01/14	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2021/01/14	0.22	50.0	No	No
Uranium: U (ug/L) - TW	2021/01/14	0.982	20.0	No	No
<b>Additional Inorganics</b>					
Fluoride (mg/L) - TW	2022/01/31	<MDL 0.1	1.5	No	No
Nitrite (mg/L) - TW	2023/01/03	<MDL 0.1	1.0	No	No
Nitrite (mg/L) - TW	2023/04/11	<MDL 0.05	1.0	No	No
Nitrite (mg/L) - TW	2023/07/04	<MDL 0.05	1.0	No	No
Nitrite (mg/L) - TW	2023/10/10	<MDL 0.05	1.0	No	No
Nitrate (mg/L) - TW	2023/01/03	0.2	10.0	No	No
Nitrate (mg/L) - TW	2023/04/11	0.12	10.0	No	No
Nitrate (mg/L) - TW	2023/07/04	0.22	10.0	No	No
Nitrate (mg/L) - TW	2023/10/10	0.06	10.0	No	No
Sodium: Na (mg/L) - TW	2022/01/31	9.9	20*	n/a	n/a

#### Schedule 15 Sampling:

The Schedule 15 Sampling is required under O. Reg. 170/03. This system is under a reduced sampling schedule. No plumbing samples were collected.

#### **Chesterville Distribution**

Distribution System	Number of Sampling Points	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
			Minimum	Maximum		
Alkalinity (mg/L)	4	4	242	276	n/a	n/a
pH	4	4	7.36	7.9	n/a	n/a
Lead (ug/l)	2	2	0.03	0.05	10	0

#### **Winchester Distribution**

Distribution System	Number of Sampling Points	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
			Minimum	Maximum		
Alkalinity (mg/L)	4	4	226	321	n/a	n/a
pH	4	4	7.2	7.5	n/a	n/a
Lead (ug/l)	2	2	0.06	0.09	10	0

#### **Organic Parameters**

These parameters are tested 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.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- MDL = Below the laboratory detection level

**Chesterville Reservoir**

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Alachlor (ug/L) - TW1	2021/01/14	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW1	2021/01/14	<MDL 0.01	5.0	No	No
Azinphos-methyl (ug/L) - TW1	2021/01/14	<MDL 0.05	20.0	No	No
Benzene (ug/L) - TW1	2021/01/14	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (ug/L) - TW1	2021/01/14	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW1	2021/01/14	<MDL 0.33	5.0	No	No
Carbaryl (ug/L) - TW1	2021/01/14	<MDL 0.05	90.0	No	No
Carbofuran (ug/L) - TW1	2021/01/14	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (ug/L) - TW1	2021/01/14	<MDL 0.17	2.0	No	No
Chlorpyrifos (ug/L) - TW1	2021/01/14	<MDL 0.02	90.0	No	No
Diazinon (ug/L) - TW1	2021/01/14	<MDL 0.02	20.0	No	No
Dicamba (ug/L) - TW1	2021/01/14	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (ug/L) - TW1	2021/01/14	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (ug/L) - TW1	2021/01/14	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (ug/L) - TW1	2021/01/14	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (ug/L) - TW1	2021/01/14	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW1	2021/01/14	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (ug/L) - TW1	2021/01/14	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW1	2021/01/14	<MDL 0.19	100.0	No	No
Diclofop-methyl (ug/L) - TW1	2021/01/14	<MDL 0.4	9.0	No	No
Dimethoate (ug/L) - TW1	2021/01/14	<MDL 0.06	20.0	No	No
Diquat (ug/L) - TW1	2021/01/14	<MDL 1.0	70.0	No	No
Diuron (ug/L) - TW1	2021/01/14	<MDL 0.03	150.0	No	No
Glyphosate (ug/L) - TW1	2021/01/14	<MDL 1.0	280.0	No	No
Malathion (ug/L) - TW1	2021/01/14	<MDL 0.02	190.0	No	No
Metolachlor (ug/L) - TW1	2021/01/14	<MDL 0.01	50.0	No	No
Metribuzin (ug/L) - TW1	2021/01/14	<MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW1	2021/01/14	<MDL 0.3	80.0	No	No
Paraquat (ug/L) - TW1	2021/01/14	<MDL 1.0	10.0	No	No
PCB (ug/L) - TW1	2021/01/14	<MDL 0.04	3.0	No	No
Pentachlorophenol (ug/L) - TW1	2021/01/14	<MDL 0.15	60.0	No	No
Phorate (ug/L) - TW1	2021/01/14	<MDL 0.01	2.0	No	No
Picloram (ug/L) - TW1	2021/01/14	<MDL 1.0	190.0	No	No
Prometryne (ug/L) - TW1	2021/01/14	<MDL 0.03	1.0	No	No
Simazine (ug/L) - TW1	2021/01/14	<MDL 0.01	10.0	No	No
Terbufos (ug/L) - TW1	2021/01/14	<MDL 0.01	1.0	No	No
Tetrachloroethylene (ug/L) - TW1	2021/01/14	<MDL 0.35	10.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW1	2021/01/14	<MDL 0.2	100.0	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
Triallate (ug/L) - TW1	2021/01/14	<MDL 0.01	230.0	No	No
Trichloroethylene (ug/L) - TW1	2021/01/14	<MDL 0.44	5.0	No	No
2,4,6-Trichlorophenol (ug/L) - TW1	2021/01/14	<MDL 0.25	5.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW	2021/01/14	<MDL 0.12	100.0	No	No
Trifluralin (ug/L) - TW1	2021/01/14	<MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L) - TW1	2021/01/14	<MDL 0.17	1.0	No	No

### Winchester Reservoir

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Alachlor (ug/L) - TW2	2021/01/14	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW2	2021/01/14	<MDL 0.01	5.0	No	No
Azinphos-methyl (ug/L) - TW2	2021/01/14	<MDL 0.05	20.0	No	No
Benzene (ug/L) - TW2	2021/01/14	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (ug/L) - TW2	2021/01/14	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW2	2021/01/14	<MDL 0.33	5.0	No	No
Carbaryl (ug/L) - TW2	2021/01/14	<MDL 0.05	90.0	No	No
Carbofuran (ug/L) - TW2	2021/01/14	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (ug/L) - TW2	2021/01/14	<MDL 0.17	2.0	No	No
Chlorpyrifos (ug/L) - TW2	2021/01/14	<MDL 0.02	90.0	No	No
Diazinon (ug/L) - TW2	2021/01/14	<MDL 0.02	20.0	No	No
Dicamba (ug/L) - TW2	2021/01/14	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (ug/L) - TW2	2021/01/14	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (ug/L) - TW2	2021/01/14	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (ug/L) - TW2	2021/01/14	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (ug/L) - TW2	2021/01/14	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW2	2021/01/14	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (ug/L) - TW2	2021/01/14	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW2	2021/01/14	<MDL 0.19	100.0	No	No
Diclofop-methyl (ug/L) - TW2	2021/01/14	<MDL 0.4	9.0	No	No
Dimethoate (ug/L) - TW2	2021/01/14	<MDL 0.06	20.0	No	No
Diquat (ug/L) - TW2	2021/01/14	<MDL 1.0	70.0	No	No
Diuron (ug/L) - TW2	2021/01/14	<MDL 0.03	150.0	No	No
Glyphosate (ug/L) - TW2	2021/01/14	<MDL 1.0	280.0	No	No
Malathion (ug/L) - TW2	2021/01/14	<MDL 0.02	190.0	No	No
Metolachlor (ug/L) - TW2	2021/01/14	<MDL 0.01	50.0	No	No
Metribuzin (ug/L) - TW2	2021/01/14	<MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW2	2021/01/14	<MDL 0.3	80.0	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
Paraquat (ug/L) - TW2	2021/01/14	<MDL 1.0	10.0	No	No
PCB (ug/L) - TW2	2021/01/14	<MDL 0.04	3.0	No	No
Pentachlorophenol (ug/L) - TW2	2021/01/14	<MDL 0.15	60.0	No	No
Phorate (ug/L) - TW2	2021/01/14	<MDL 0.01	2.0	No	No
Picloram (ug/L) - TW2	2021/01/14	<MDL 1.0	190.0	No	No
Prometryne (ug/L) - TW2	2021/01/14	<MDL 0.03	1.0	No	No
Simazine (ug/L) - TW2	2021/01/14	<MDL 0.01	10.0	No	No
Terbufos (ug/L) - TW2	2021/01/14	<MDL 0.01	1.0	No	No
Tetrachloroethylene (ug/L) - TW2	2021/01/14	<MDL 0.35	10.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW2	2021/01/14	<MDL 0.2	100.0	No	No
Triallate (ug/L) - TW2	2021/01/14	<MDL 0.01	230.0	No	No
Trichloroethylene (ug/L) - TW2	2021/01/14	<MDL 0.44	5.0	No	No
2,4,6-Trichlorophenol (ug/L) - TW2	2021/01/14	<MDL 0.25	5.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW	2021/01/14	<MDL 0.12	100.0	No	No
Trifluralin (ug/L) - TW2	2021/01/14	<MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L) - TW2	2021/01/14	<MDL 0.17	1.0	No	No

### Winchester Well #5

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Alachlor (ug/L) - TW3	2021/01/14	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW3	2021/01/14	<MDL 0.01	5.0	No	No
Azinphos-methyl (ug/L) - TW3	2021/01/14	<MDL 0.05	20.0	No	No
Benzene (ug/L) - TW3	2021/01/14	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (ug/L) - TW3	2021/01/14	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW3	2021/01/14	<MDL 0.33	5.0	No	No
Carbaryl (ug/L) - TW3	2021/01/14	<MDL 0.05	90.0	No	No
Carbofuran (ug/L) - TW3	2021/01/14	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (ug/L) - TW3	2021/01/14	<MDL 0.17	2.0	No	No
Chlorpyrifos (ug/L) - TW3	2021/01/14	<MDL 0.02	90.0	No	No
Diazinon (ug/L) - TW3	2021/01/14	<MDL 0.02	20.0	No	No
Dicamba (ug/L) - TW3	2021/01/14	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (ug/L) - TW3	2021/01/14	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (ug/L) - TW3	2021/01/14	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (ug/L) - TW3	2021/01/14	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (ug/L) - TW3	2021/01/14	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW3	2021/01/14	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (ug/L) - TW3	2021/01/14	<MDL 0.15	900.0	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW3	2021/01/14	<MDL 0.19	100.0	No	No
Diclofop-methyl (ug/L) - TW3	2021/01/14	<MDL 0.4	9.0	No	No
Dimethoate (ug/L) - TW3	2021/01/14	<MDL 0.06	20.0	No	No
Diquat (ug/L) - TW3	2021/01/14	<MDL 1.0	70.0	No	No
Diuron (ug/L) - TW3	2021/01/14	<MDL 0.03	150.0	No	No
Glyphosate (ug/L) - TW3	2021/01/14	<MDL 1.0	280.0	No	No
Malathion (ug/L) - TW3	2021/01/14	<MDL 0.02	190.0	No	No
Metolachlor (ug/L) - TW3	2021/01/14	0.03	50.0	No	No
Metribuzin (ug/L) - TW3	2021/01/14	<MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW3	2021/01/14	<MDL 0.3	80.0	No	No
Paraquat (ug/L) - TW3	2021/01/14	<MDL 1.0	10.0	No	No
PCB (ug/L) - TW3	2021/01/14	<MDL 0.04	3.0	No	No
Pentachlorophenol (ug/L) - TW3	2021/01/14	<MDL 0.15	60.0	No	No
Phorate (ug/L) - TW3	2021/01/14	<MDL 0.01	2.0	No	No
Picloram (ug/L) - TW3	2021/01/14	<MDL 1.0	190.0	No	No
Prometryne (ug/L) - TW3	2021/01/14	<MDL 0.03	1.0	No	No
Simazine (ug/L) - TW3	2021/01/14	<MDL 0.01	10.0	No	No
Terbufos (ug/L) - TW3	2021/01/14	<MDL 0.01	1.0	No	No
Tetrachloroethylene (ug/L) - TW3	2021/01/14	<MDL 0.35	10.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW3	2021/01/14	<MDL 0.2	100.0	No	No
Triallate (ug/L) - TW3	2021/01/14	<MDL 0.01	230.0	No	No
Trichloroethylene (ug/L) - TW3	2021/01/14	<MDL 0.44	5.0	No	No
2,4,6-Trichlorophenol (ug/L) - TW3	2021/01/14	<MDL 0.25	5.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW	2021/01/14	<MDL 0.12	100.0	No	No
Trifluralin (ug/L) - TW3	2021/01/14	<MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L) - TW3	2021/01/14	<MDL 0.17	1.0	No	No

### Winchester Well #6

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Alachlor (ug/L) - TW4	2021/01/14	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW4	2021/01/14	<MDL 0.01	5.0	No	No
Azinphos-methyl (ug/L) - TW4	2021/01/14	<MDL 0.05	20.0	No	No
Benzene (ug/L) - TW4	2021/01/14	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (ug/L) - TW4	2021/01/14	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW4	2021/01/14	<MDL 0.33	5.0	No	No
Carbaryl (ug/L) - TW4	2021/01/14	<MDL 0.05	90.0	No	No
Carbofuran (ug/L) - TW4	2021/01/14	<MDL 0.01	90.0	No	No



	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
Carbon Tetrachloride (ug/L) - TW4	2021/01/14	<MDL 0.17	2.0	No	No
Chlorpyrifos (ug/L) - TW4	2021/01/14	<MDL 0.02	90.0	No	No
Diazinon (ug/L) - TW4	2021/01/14	<MDL 0.02	20.0	No	No
Dicamba (ug/L) - TW4	2021/01/14	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (ug/L) - TW4	2021/01/14	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (ug/L) - TW4	2021/01/14	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (ug/L) - TW4	2021/01/14	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (ug/L) - TW4	2021/01/14	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW4	2021/01/14	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (ug/L) - TW4	2021/01/14	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW4	2021/01/14	<MDL 0.19	100.0	No	No
Diclofop-methyl (ug/L) - TW4	2021/01/14	<MDL 0.4	9.0	No	No
Dimethoate (ug/L) - TW4	2021/01/14	<MDL 0.06	20.0	No	No
Diquat (ug/L) - TW4	2021/01/14	<MDL 1.0	70.0	No	No
Diuron (ug/L) - TW4	2021/01/14	<MDL 0.03	150.0	No	No
Glyphosate (ug/L) - TW4	2021/01/14	<MDL 1.0	280.0	No	No
Malathion (ug/L) - TW4	2021/01/14	<MDL 0.02	190.0	No	No
Metolachlor (ug/L) - TW4	2021/01/14	0.14	50.0	No	No
Metribuzin (ug/L) - TW4	2021/01/14	<MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW4	2021/01/14	<MDL 0.3	80.0	No	No
Paraquat (ug/L) - TW4	2021/01/14	<MDL 1.0	10.0	No	No
PCB (ug/L) - TW4	2021/01/14	<MDL 0.04	3.0	No	No
Pentachlorophenol (ug/L) - TW4	2021/01/14	<MDL 0.15	60.0	No	No
Phorate (ug/L) - TW4	2021/01/14	<MDL 0.01	2.0	No	No
Picloram (ug/L) - TW4	2021/01/14	<MDL 1.0	190.0	No	No
Prometryne (ug/L) - TW4	2021/01/14	<MDL 0.03	1.0	No	No
Simazine (ug/L) - TW4	2021/01/14	<MDL 0.01	10.0	No	No
Terbufos (ug/L) - TW4	2021/01/14	<MDL 0.01	1.0	No	No
Tetrachloroethylene (ug/L) - TW4	2021/01/14	<MDL 0.35	10.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW4	2021/01/14	<MDL 0.2	100.0	No	No
Triallate (ug/L) - TW4	2021/01/14	<MDL 0.01	230.0	No	No
Trichloroethylene (ug/L) - TW4	2021/01/14	<MDL 0.44	5.0	No	No
2,4,6-Trichlorophenol (ug/L) - TW4	2021/01/14	<MDL 0.25	5.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW	2021/01/14	<MDL 0.12	100.0	No	No
Trifluralin (ug/L) - TW4	2021/01/14	<MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L) - TW4	2021/01/14	<MDL 0.17	1.0	No	No

**Winchester Wellfield #7**

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Alachlor (ug/L) - TW5	2021/01/14	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW5	2021/01/14	<MDL 0.01	5.0	No	No
Azinphos-methyl (ug/L) - TW5	2021/01/14	<MDL 0.05	20.0	No	No
Benzene (ug/L) - TW5	2021/01/14	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (ug/L) - TW5	2021/01/14	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW5	2021/01/14	<MDL 0.33	5.0	No	No
Carbaryl (ug/L) - TW5	2021/01/14	<MDL 0.05	90.0	No	No
Carbofuran (ug/L) - TW5	2021/01/14	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (ug/L) - TW5	2021/01/14	<MDL 0.17	2.0	No	No
Chlorpyrifos (ug/L) - TW5	2021/01/14	<MDL 0.02	90.0	No	No
Diazinon (ug/L) - TW5	2021/01/14	<MDL 0.02	20.0	No	No
Dicamba (ug/L) - TW5	2021/01/14	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (ug/L) - TW5	2021/01/14	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (ug/L) - TW5	2021/01/14	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (ug/L) - TW5	2021/01/14	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (ug/L) - TW5	2021/01/14	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW5	2021/01/14	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (ug/L) - TW5	2021/01/14	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW5	2021/01/14	<MDL 0.19	100.0	No	No
Diclofop-methyl (ug/L) - TW5	2021/01/14	<MDL 0.4	9.0	No	No
Dimethoate (ug/L) - TW5	2021/01/14	<MDL 0.06	20.0	No	No
Diquat (ug/L) - TW5	2021/01/14	<MDL 1.0	70.0	No	No
Diuron (ug/L) - TW5	2021/01/14	<MDL 0.03	150.0	No	No
Glyphosate (ug/L) - TW5	2021/01/14	<MDL 1.0	280.0	No	No
Malathion (ug/L) - TW5	2021/01/14	<MDL 0.02	190.0	No	No
Metolachlor (ug/L) - TW5	2021/01/14	<MDL 0.01	50.0	No	No
Metribuzin (ug/L) - TW5	2021/01/14	<MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW5	2021/01/14	<MDL 0.3	80.0	No	No
Paraquat (ug/L) - TW5	2021/01/14	<MDL 1.0	10.0	No	No
PCB (ug/L) - TW5	2021/01/14	<MDL 0.04	3.0	No	No
Pentachlorophenol (ug/L) - TW5	2021/01/14	<MDL 0.15	60.0	No	No
Phorate (ug/L) - TW5	2021/01/14	<MDL 0.01	2.0	No	No
Picloram (ug/L) - TW5	2021/01/14	<MDL 1.0	190.0	No	No
Prometryne (ug/L) - TW5	2021/01/14	<MDL 0.03	1.0	No	No
Simazine (ug/L) - TW5	2021/01/14	<MDL 0.01	10.0	No	No
Terbufos (ug/L) - TW5	2021/01/14	<MDL 0.01	1.0	No	No
Tetrachloroethylene (ug/L) - TW5	2021/01/14	<MDL 0.35	10.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW5	2021/01/14	<MDL 0.2	100.0	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
Triallate (ug/L) - TW5	2021/01/14	<MDL 0.01	230.0	No	No
Trichloroethylene (ug/L) - TW5	2021/01/14	<MDL 0.44	5.0	No	No
2,4,6-Trichlorophenol (ug/L) - TW5	2021/01/14	<MDL 0.25	5.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW	2021/01/14	<MDL 0.12	100.0	No	No
Trifluralin (ug/L) - TW5	2021/01/14	<MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L) - TW5	2021/01/14	<MDL 0.17	1.0	No	No

Distribution samples are tested quarterly for THM's and HAA's in accordance with O. Reg. 170/03.

### Chesterville Distribution

	Sample Year	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
<b>Distribution Water</b>					
Trihalomethane (THM): Total (ug/L) Annual Running Average - DW	2023	39.1	100	No	No
Haloacetic Acid (HAA): Total (ug/L) Annual Running Average - DW	2023	12.8	80	No	No

### Winchester Distribution

	Sample Year	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
<b>Distribution Water</b>					
Trihalomethane (THM): Total (ug/L) Annual Running Average - DW	2023	26.0	100	No	No
Haloacetic Acid (HAA): Total (ug/L) Annual Running Average - DW	2023	< 5.3	80	No	No

### Additional Legislated Samples

No additional sampling required.

## Major Maintenance Summary

Description
<ul style="list-style-type: none"> <li>- Completed cleaning &amp; rehabilitation of Well #6 (Chesterville)</li> <li>- New treated water flow meter installed at reservoir (Chesterville)</li> <li>- New main valve installed at reservoir (Chesterville)</li> <li>- Replaced UPS batteries at Well 5/6 (Chesterville)</li> <li>- Replaced generator battery at Well 5/6 (Chesterville)</li> <li>- Replaced pressure regulator on valve at reservoir (Chesterville)</li> <li>- Replaced chlorine pump head at Well #5 (Chesterville)</li> <li>- Replaced chlorine pump head at Well #6 (Chesterville)</li> <li>- New service installed on Erin St. (Chesterville)</li> <li>- Repaired service lateral on King St. (Chesterville)</li> <li>- Repaired service lateral at the park (Chesterville)</li> <li>- Repaired water main valve at corner of Queen St. and Industrial Dr. (Chesterville)</li> <li>- Repaired hydrant on corner of South St. W. and Main St. (Chesterville)</li> <li>- Rebuilt 4 hydrants on Church St., South St., Thompson Rd. and Elizabeth Dr. (Chesterville)</li> <li>- Completed annual generator maintenance (Chesterville &amp; Winchester)</li> <li>- New chlorine analyzer installed at Well #1 (Winchester)</li> <li>- Replaced chlorine pump at Well #5 (Winchester)</li> <li>- Replaced distribution chlorine analyzer at Ottawa St. SPS (Winchester)</li> <li>- Replaced chlorine analyzer at reservoir (Winchester)</li> <li>- Replaced fittings on chlorine tank at Well #5 (Winchester)</li> <li>- Replaced UPS at Well #6 (Winchester)</li> <li>- Replaced generator battery at Well # 6 (Winchester)</li> <li>- Replaced exterior sump pump at reservoir (Winchester)</li> <li>- Installed new motor controller circuit board in PAX mixer panel at tower (Winchester)</li> <li>- Replaced water main valve at corner of Main St. and Louise St. (Winchester)</li> <li>- Replaced water main valve on Main St. to arena (Winchester)</li> <li>- Repaired service leak &amp; replaced stand post on Lancaster St. (Winchester).</li> <li>- Repaired service breaks on Main St. caused by construction (Winchester)</li> <li>- Repaired water main break at arena &amp; issued PBWA (Winchester)</li> <li>- Repaired water main break on Main St. (Winchester)</li> <li>- Repaired water main break on corner of arena and curling club (Winchester)</li> <li>- Repaired water main break on Henderson Cres. (Winchester)</li> <li>- Repaired stand post at public school (Winchester)</li> <li>- Replaced 4 curb stops on Main St. &amp; St-Lawrence St. (Winchester)</li> <li>- Rebuilt 4 hydrants on Louise St., Sesame St., Clarence St. &amp; Main St. E. (Winchester)</li> <li>- Repaired 2 hydrants on Bailey St. &amp; Main St. W. (Winchester)</li> </ul>

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## **Appendix A - WTRS Submission Confirmation**



**Water Taking Data submitted successfully.**

**Confirmation:**

Thank you for submitting your water taking data online.

Permit Number: 3380-AC3QF9  
Permit Holder: THE CORPORATION OF THE TOWNSHIP OF NORTH DUNDAS.  
Received on: Feb 8, 2024 3:11 PM

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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NORTH2 DUNDAS2 | 2024/02/08  
version: v4.5.0.21 (build#: 22)  
Last modified: 2018/09/18



**Water Taking Data submitted successfully.**

**Confirmation:**

Thank you for submitting your water taking data online.

Permit Number: 4175-9C3GPW  
Permit Holder: THE CORPORATION OF THE TOWNSHIP OF NORTH DUNDAS.  
Received on: Feb 8, 2024 3:17 PM

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version: v4.5.0.21 (build#: 22)  
Last modified: 2018/09/18



**Water Taking Data submitted successfully.**

**Confirmation:**

Thank you for submitting your water taking data online.

Permit Number: 0276-BMYKQT  
Permit Holder: THE CORPORATION OF THE TOWNSHIP OF NORTH DUNDAS.  
Received on: Feb 8, 2024 3:20 PM

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**Water Taking Data submitted successfully.**

**Confirmation:**

Thank you for submitting your water taking data online.

Permit Number: 0088-9C3JG4

Permit Holder: THE CORPORATION OF THE TOWNSHIP OF NORTH DUNDAS.

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**Confirmation:**

Thank you for submitting your water taking data online.

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