

# Mississippi Mills Drinking Water System

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Waterworks # 220001290  
System Category – Large Municipal Residential

## Annual Water Report

Prepared For: Municipality of Mississippi Mills

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

This system does not serve more than 10,000 residence and the annual reports will be available to users at the Municipality of Mississippi Mills Office. Notification will be at the Municipal Office and copies provided free of charge if requested. The Municipality of Mississippi Mills is located at 3131 Old Perth Rd., Almonte, Ontario, K0A 1A0. View the Municipalities website at [www.mississippimills.ca](http://www.mississippimills.ca)

There are no additional drinking water systems that receive drinking water from this system.

## Compliance Report Card

Compliance Event	# of Events
Ministry of Environment Inspections	OCWA/Mississippi Mills Distribution – August 10, 2023 100% <ul style="list-style-type: none"> <li>One Non-Compliance noted in the report</li> </ul>
Ministry of Labour Inspections	No Inspections for the reporting period
QEMS External Audit	<u>OCWA</u> : One (1) External On-Site Audit <u>Municipality of Mississippi Mills</u> : One (1) External On-Site Audit
AWQI's/BWA	One (1) AWQI for the reporting period
Non-Compliance	There was no Non-Compliance for the reporting period.
Spills	There were no Spills during the reporting period.

## System Process Description

The Mississippi Mills Drinking Water System consists of 5 drilled wells located throughout the Ward of Almonte. The system supplies water to only the Ward of Almonte and is owned by The Corporation of the Municipality of Mississippi Mills. The Ontario Clean Water Agency is the Operating Authority.

Well 3 is located in the eastern portion of the Town, approximately 60 m north of Ottawa Street and Harold Street. Well 3 is contained in its own brick construction pump house and is equipped with a submersible turbine pump rated at a capacity of 9.6 L/s at 70.7m TDH. Disinfection is achieved through injection of sodium hypochlorite into the feeder main prior to the treated water being discharged into a chlorine contact tank.

Well 5 is located along Almonte Street (County Road 16) near the south west end of Town. Well 5 is contained in its own brick construction pump house and is equipped with a submersible vertical pump rated at a capacity of 7.7 L/s at 120.18m TDH. A VFD was also installed to assist in flow control, reduce water pressure and electrical demand. Disinfection is achieved through injection of sodium hypochlorite into the feeder main prior to the treated water being discharged into a chlorine contact tank.

Well 6 is located in Gemmill's Park in the south end of Town, immediately east of Highway 29. Well 6 is contained in its own brick construction pump house and is equipped with a turbine pump rated at a

capacity of 22.7 L/s at 101.2m TDH. A VFD assists with flow control, water pressure and electrical demand. Disinfection is achieved through injection of sodium hypochlorite into the feeder main prior to the treated water being discharged into a chlorine contact tank.

Wells 7 and 8 are located within a single pump house near the northeast edge of Town, along the north side of Paterson Street. Well 7 and 8 are enclosed within a single brick and aluminum clad vented watertight pump house. Each well is equipped with a vertical turbine pump rated at a capacity of 44.8 L/s at 69.0m TDH. Both pumps have a VFD installed to assist in flow control, water pressure and electrical demand. The pumps are located directly on top of the well casings. Disinfection is achieved through injection of liquid sodium hypochlorite into the feeder main of each well, prior to the treated water being discharged into a single chlorine contact chamber.

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
12 % Sodium Hypochlorite	Disinfection	Brenntag

## Summary of Non-Compliance

### Adverse Water Quality Incidents

Date	AWQI #	Location	Details	Legislation	Corrective Action Taken
2023/05/17	161972	All Wells	Sodium Exceedance at all wells	O.Reg 170/03	Resample with similar results

### Non-Compliance

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
There were no findings identified				

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

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
DWWP Schedule B	Directors Notification was not completed within the required 30 days.	February 18, 2023 to March 20, 2023	A process was put in place using software reminder functions.	Complete

## Flows

The Mississippi Mills Drinking Water System is operating on average under half the rated capacity.

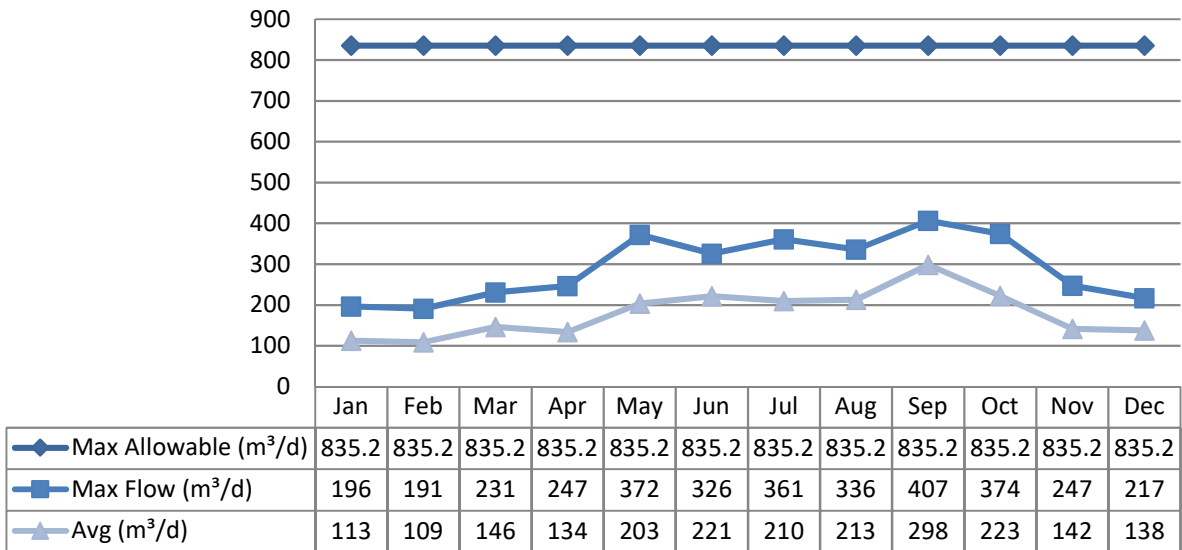
### Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water. 2023 Raw Flow Data was submitted to the Ministry electronically under permit #0568-9LUL2N. The confirmation is attached in Appendix A.

### Well 3

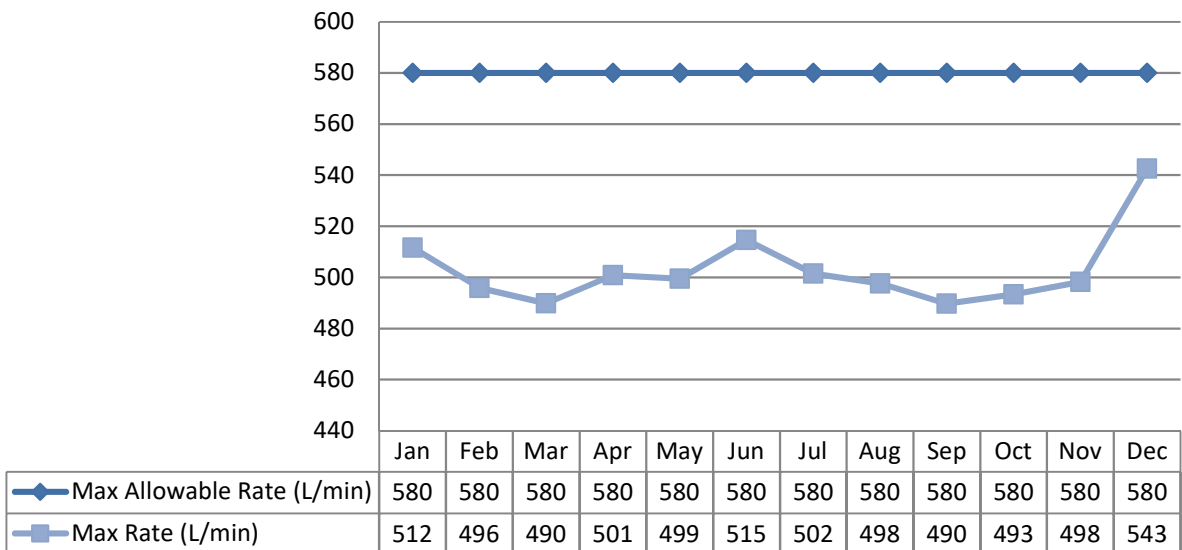
#### Total Monthly Flows (m<sup>3</sup>/d)

Max Allowable PTTW



#### Monthly Rated Flows (L/min)

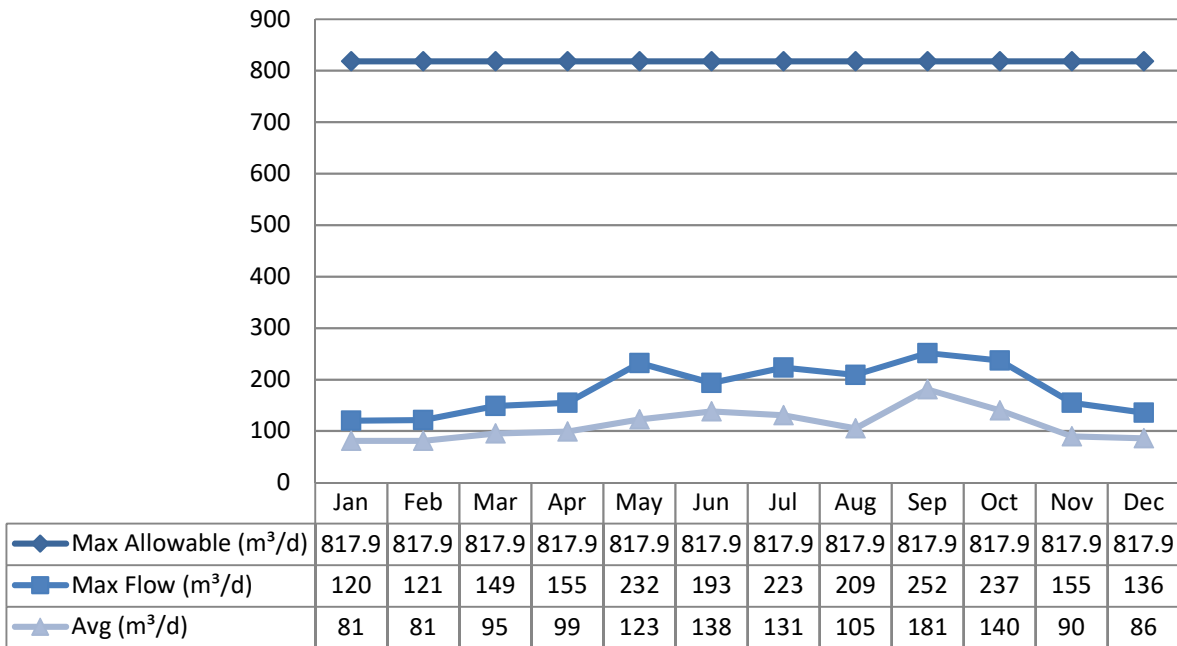
Max allowable rate - PTTW



**Well 5**

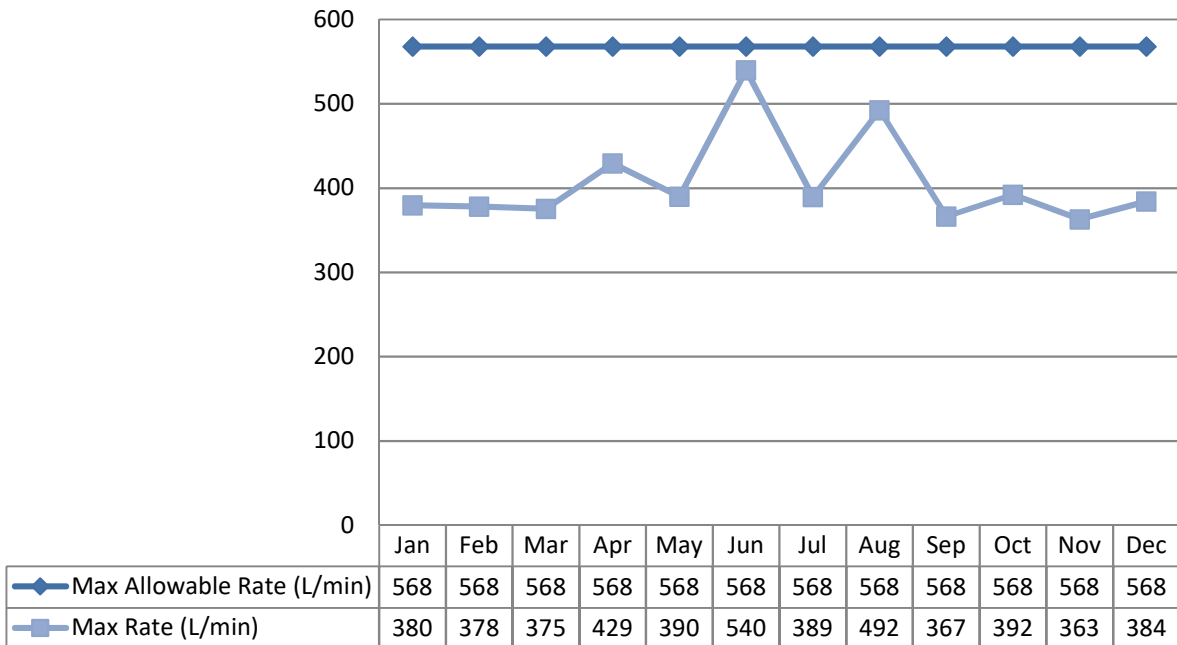
Total Monthly Flows (m<sup>3</sup>/d)

Max Allowable PTTW



Monthly Rated Flows (L/min)

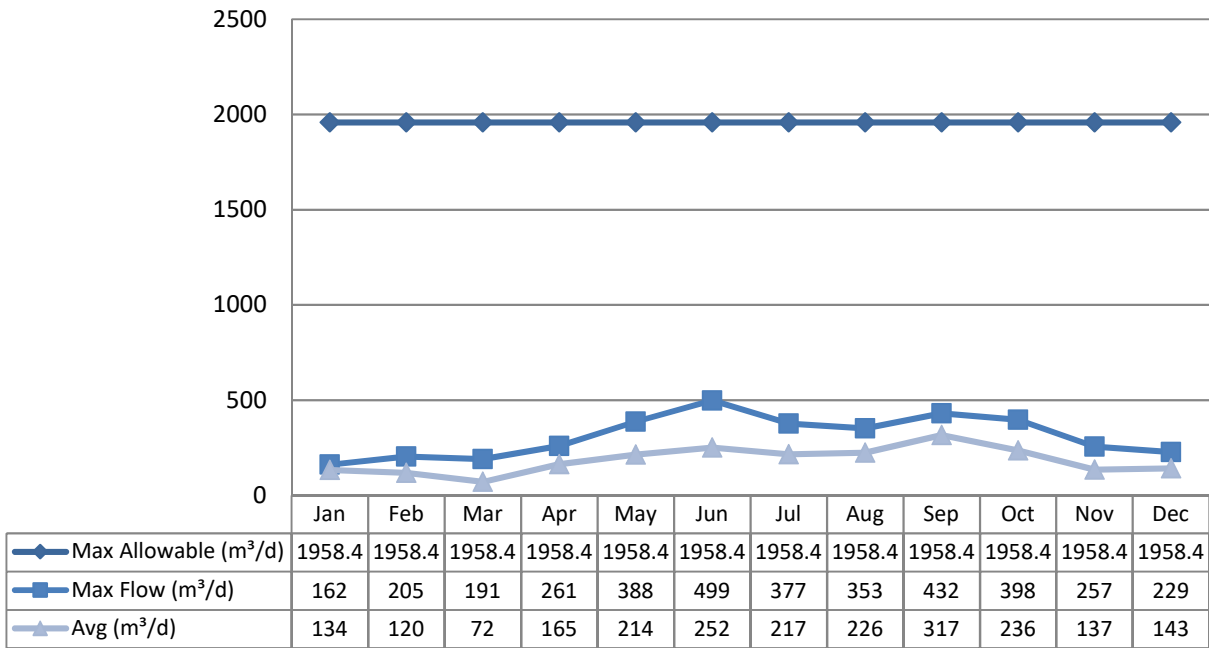
Max allowable rate – PTTW



**Well 6**

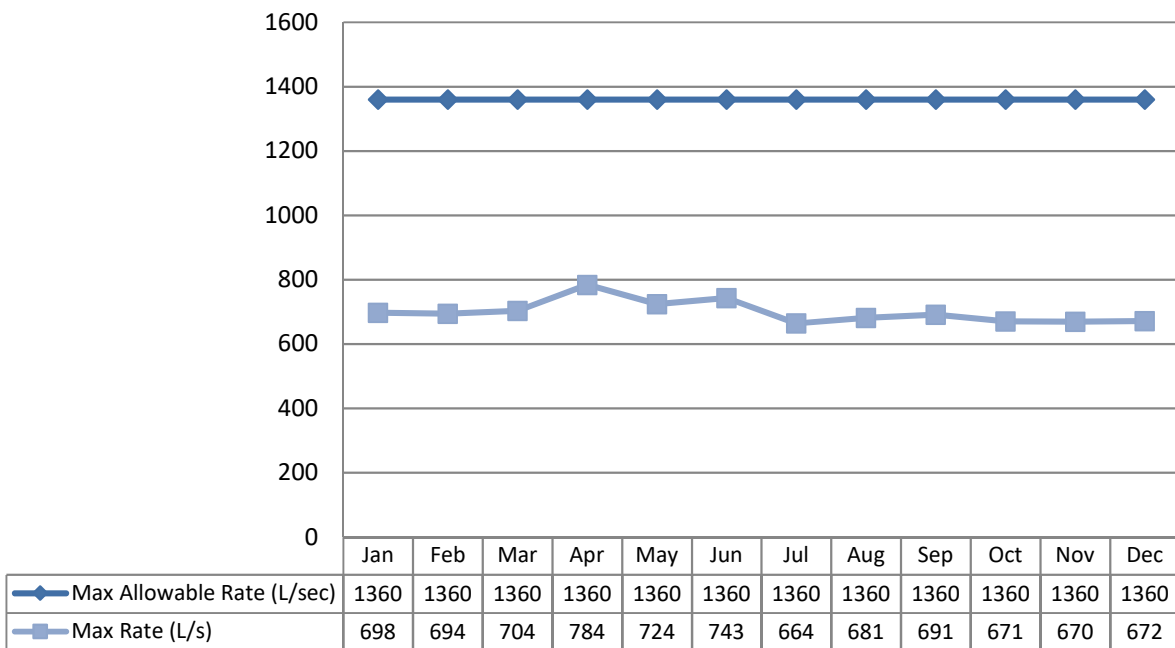
Total Monthly Flows (m<sup>3</sup>/d)

Max Allowable PTTW



Monthly Rated Flows (L/s)

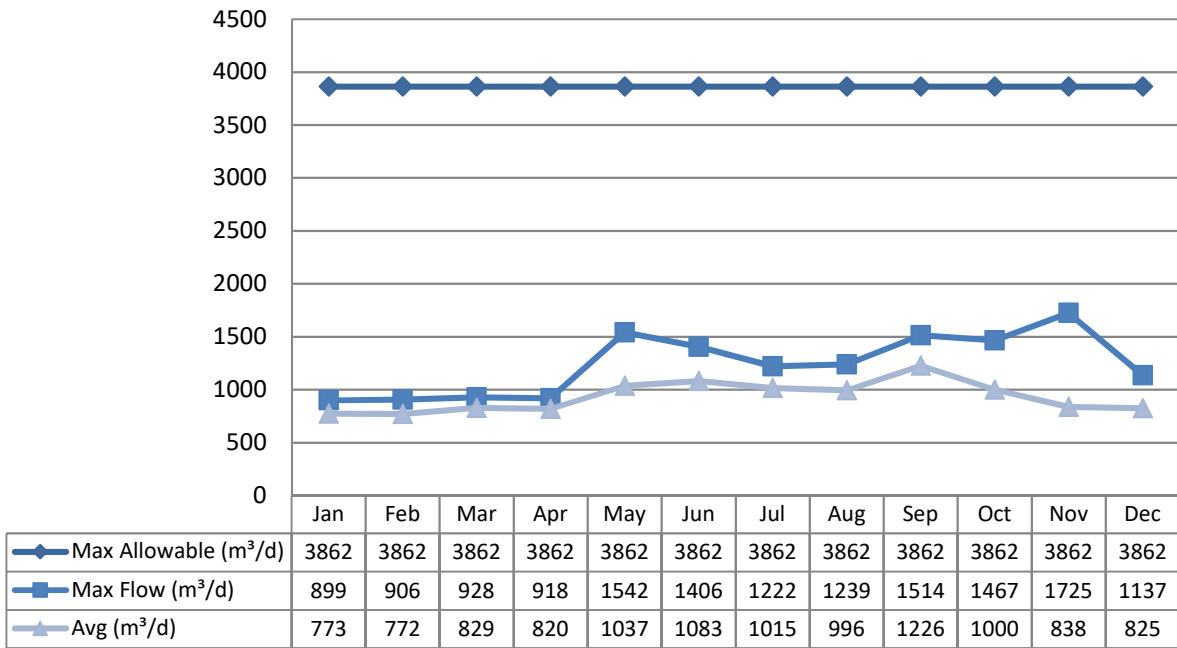
Max allowable rate – PTTW



**Well 7**

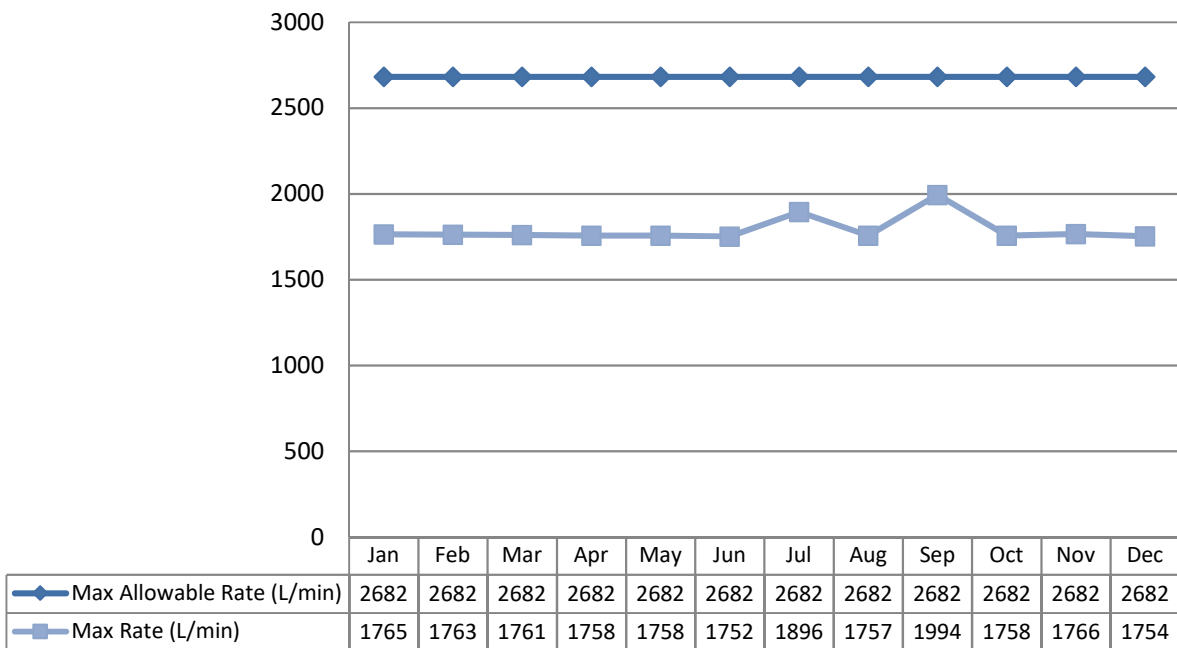
Total Monthly Flows (m<sup>3</sup>/d)

Max Allowable PTTW



Monthly Rated Flows (L/min)

Max allowable rate - PTTW

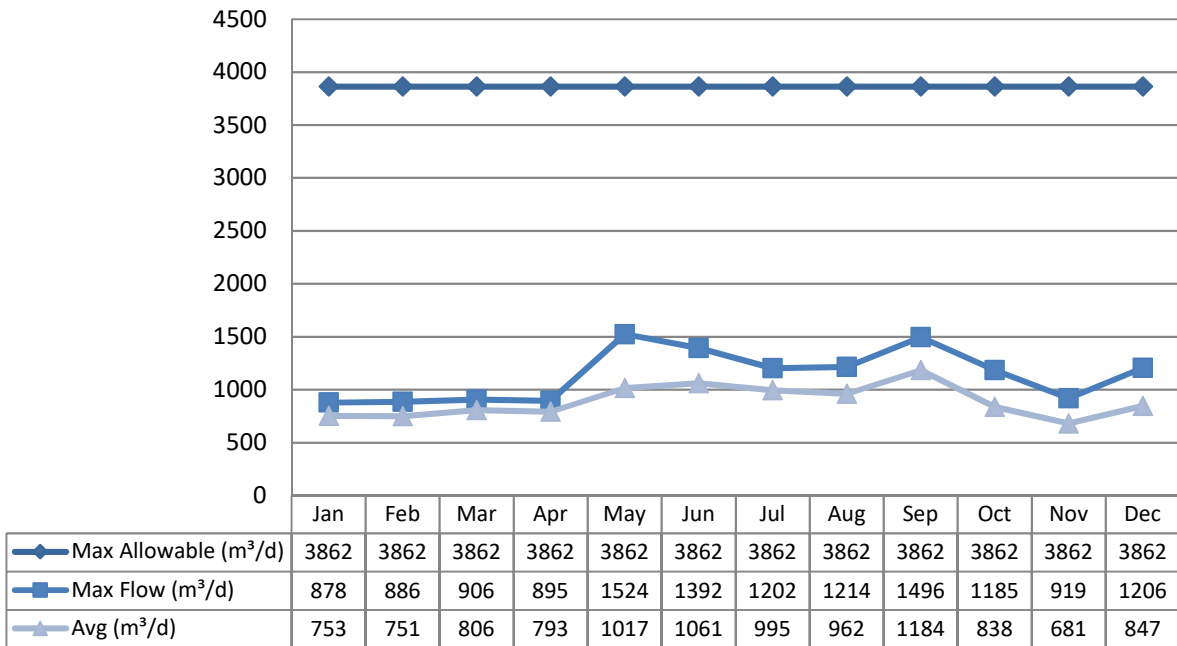




**Well 8**

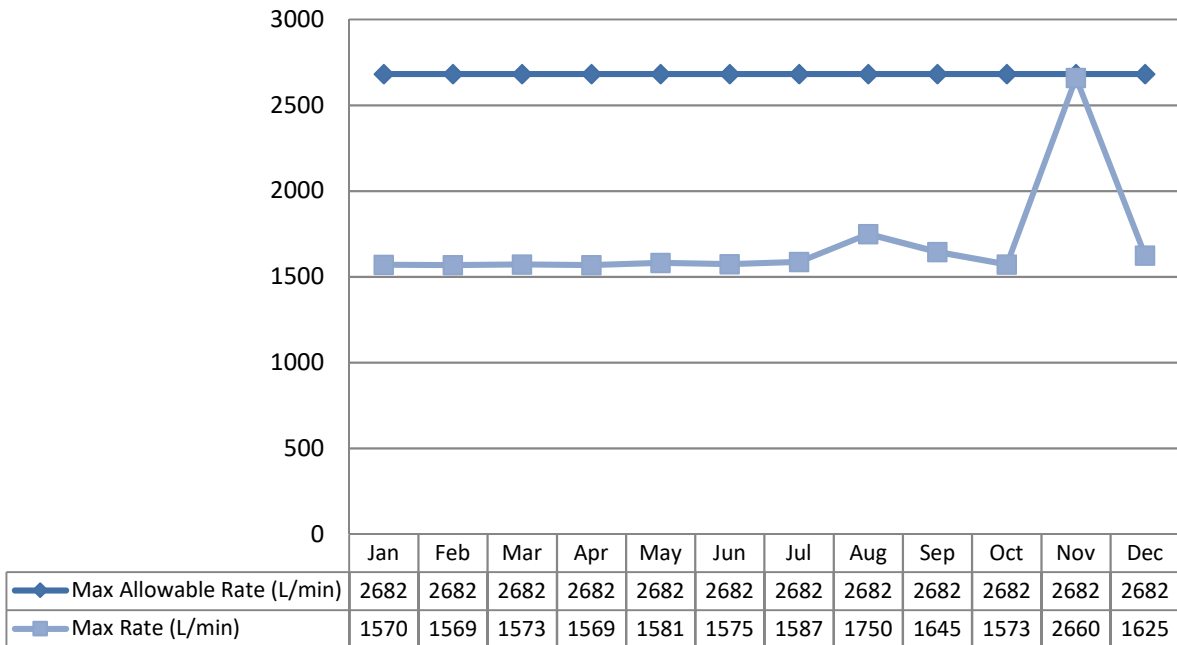
Total Monthly Flows (m<sup>3</sup>/d)

Max Allowable PTTW



Monthly Rated Flows (L/min)

Max allowable rate - PTTW

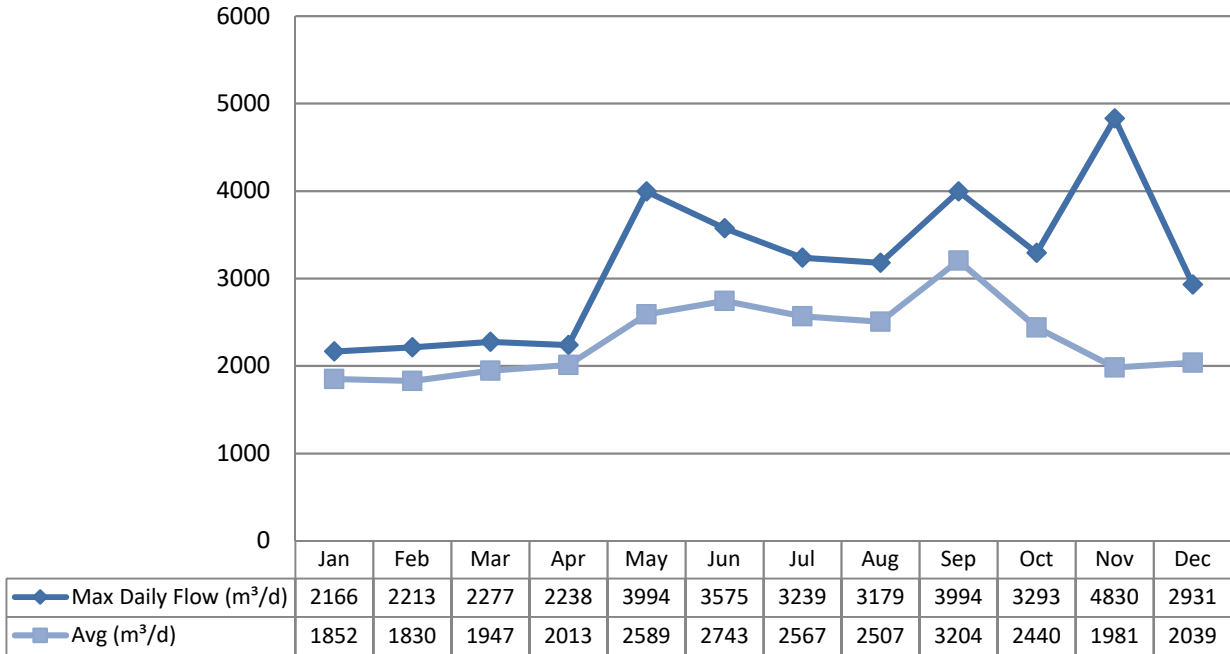


### System Water Flows

The System Water flows are regulated under the Municipal Drinking Water Licence.

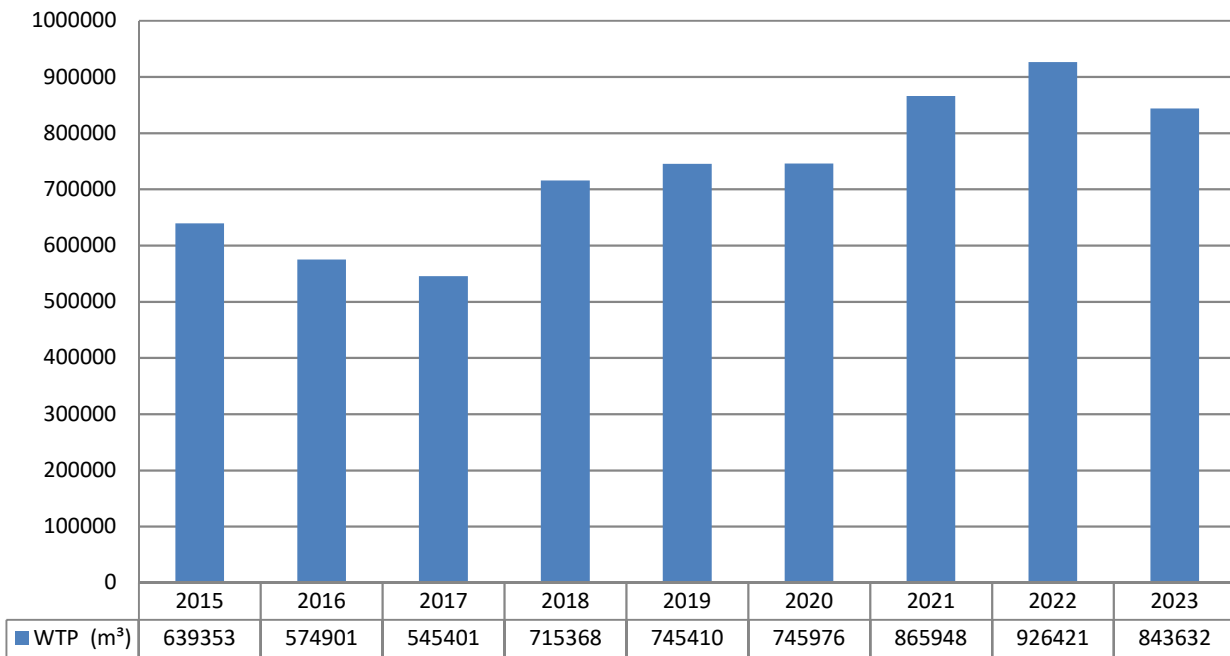
#### Monthly Flows

Rated Capacity - MDWL



#### Annual Total Flow Comparison

Total Annual m³



## Regulatory Sample Results Summary

### Microbiological Testing

	No. of Samples Collected *	Range of E.Coli Results		Range of Total Coliform Results		No. of HPC Samples Collected	Range of HPC Results	
		Min	Max	Min	Max		Min	Max
MMills DWS RW Well 3	52	0	2	0	2			
MMills DWS RW Well 5	52	0	0	0	0			
MMills DWS RW Well 6	52	0	0	0	3			
MMills DWS RW Well 7	53	0	0	0	2			
MMills DWS RW Well 8	51	0	0	0	2			
MMills DWS TW Well 3	53	0	0	0	0	53	2	50
MMills DWS TW Well 5	52	0	0	0	0	52	2	2
MMills DWS TW Well 6	52	0	0	0	0	52	2	6
MMills DWS TW Wells 7&8 combined	51	0	0	0	0	51	2	18
Distribution	208	0	0	0	0	208	2	4

\* Number of Samples collected varies due to the individual well being Out of Service for Maintenance

### Operational Testing

	No. of Samples Collected	Range of Results	
		Minimum	Maximum
Free Chlorine Residual, On-Line (mg/L) - TW3	8760	0.03	2.17
Free Chlorine Residual, On-Line (mg/L) - TW5	8760	0.33	2.0
Free Chlorine Residual, On-Line (mg/L) - TW7/8	8760	0.50	2.01
Free Chlorine Residual, On-Line (mg/L) - TW6	8760	0.59	2.0
Free Chlorine Residual, TW Field (mg/L) Lab Upload - TW3	63	0.83	1.48
Free Chlorine Residual, TW Field (mg/L) Lab Upload - TW5	61	0.70	1.85
Free Chlorine Residual, TW Field (mg/L) Lab Upload - TW7/8	60	1.04	1.46
Free Chlorine Residual, TW Field (mg/L) Lab Upload - TW6	61	0.81	1.48
Free Chlorine Residual, On-Line (mg/L) - DW	8760	0.08	1.91
Free Chlorine Residual, DW Field (mg/L) Lab Upload - DW	217	0.76	1.58

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

### Inorganic Parameters

These parameters are tested as a requirement under O.Reg 170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested every 36 months as required 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
- BDL = Below the laboratory detection level

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Antimony: Sb (ug/L) - TW3	2023/10/10	< 0.1	6.0	No	No
Antimony: Sb (ug/L) - TW5	2023/10/10	< 0.1	6.0	No	No
Antimony: Sb (ug/L) - TW6	2023/10/10	< 0.1	6.0	No	No
Antimony: Sb (ug/L) - TW7/8	2023/10/10	< 0.1	6.0	No	No
Arsenic: As (ug/L) - TW3	2023/10/10	< 0.1	10.0	No	No
Arsenic: As (ug/L) - TW5	2023/10/10	< 0.1	10.0	No	No
Arsenic: As (ug/L) - TW6	2023/10/10	0.1	10.0	No	No
Arsenic: As (ug/L) - TW7/8	2023/10/10	< 0.1	10.0	No	No
Barium: Ba (ug/L) - TW3	2023/10/10	113.0	1000.0	No	No
Barium: Ba (ug/L) - TW5	2023/10/10	147.0	1000.0	No	No
Barium: Ba (ug/L) - TW6	2023/10/10	86.0	1000.0	No	No
Barium: Ba (ug/L) - TW7/8	2023/10/10	152.0	1000.0	No	No
Boron: B (ug/L) - TW3	2023/10/10	244.0	5000.0	No	No
Boron: B (ug/L) - TW5	2023/10/10	46.0	5000.0	No	No
Boron: B (ug/L) - TW6	2023/10/10	266.0	5000.0	No	No
Boron: B (ug/L) - TW7/8	2023/10/10	164.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW3	2023/10/10	<0.015	5.0	No	No
Cadmium: Cd (ug/L) - TW5	2023/10/10	< 0.015	5.0	No	No
Cadmium: Cd (ug/L) - TW6	2023/10/10	< 0.015	5.0	No	No
Cadmium: Cd (ug/L) - TW7/8	2023/10/10	< 0.015	5.0	No	No
Chromium: Cr (ug/L) - TW3	2023/10/10	< 1.0	50.0	No	No
Chromium: Cr (ug/L) - TW5	2023/10/10	< 1.0	50.0	No	No
Chromium: Cr (ug/L) - TW6	2023/10/10	< 1.0	50.0	No	No
Chromium: Cr (ug/L) - TW7/8	2023/10/10	< 1.0	50.0	No	No
Mercury: Hg (ug/L) - TW3	2023/10/10	< 0.04	1.0	No	No
Mercury: Hg (ug/L) - TW5	2023/10/10	< 0.02	1.0	No	No
Mercury: Hg (ug/L) - TW6	2023/10/10	< 0.02	1.0	No	No
Mercury: Hg (ug/L) - TW7/8	2023/10/10	< 0.02	1.0	No	No
Selenium: Se (ug/L) - TW3	2023/10/10	< 1.0	50.0	No	No
Selenium: Se (ug/L) - TW5	2023/10/10	< 1.0	50.0	No	No
Selenium: Se (ug/L) - TW6	2023/10/10	< 1.0	50.0	No	No
Selenium: Se (ug/L) - TW7/8	2023/10/10	< 1.0	50.0	No	No
Uranium: U (ug/L) - TW3	2023/10/10	0.44	20.0	No	No
Uranium: U (ug/L) - TW5	2023/10/10	0.66	20.0	No	No
Uranium: U (ug/L) - TW6	2023/10/10	0.74	20.0	No	No
Uranium: U (ug/L) - TW7/8	2023/10/10	1.08	20.0	No	No
<b>Additional Inorganics</b>					
Fluoride (mg/L) - TW3	2023/02/14	< 0.1	1.5	No	No
Fluoride (mg/L) - TW5	2022/02/14	< 0.1	1.5	No	No
Fluoride (mg/L) - TW6	2023/02/14	0.3	1.5	No	No
Fluoride (mg/L) - TW7/8	2023/02/14	0.2	1.5	No	No
Nitrite (mg/L) - TW3	2023/02/14	0.06	1.0	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Nitrite (mg/L) - TW3	2023/05/15	< 0.05	1.0	No	No
Nitrite (mg/L) - TW3	2023/08/15	<0.05	1.0	No	No
Nitrite (mg/L) - TW3	2023/11/15	< 0.05	1.0	No	No
Nitrite (mg/L) - TW5	2023/02/14	0.07	1.0	No	No
Nitrite (mg/L) - TW5	2023/05/15	<0.05	1.0	No	No
Nitrite (mg/L) - TW5	2023/08/15	< 0.05	1.0	No	No
Nitrite (mg/L) - TW5	2023/11/15	< 0.05	1.0	No	No
Nitrite (mg/L) - TW6	2023/02/14	0.06	1.0	No	No
Nitrite (mg/L) - TW6	2023/05/15	< 0.05	1.0	No	No
Nitrite (mg/L) - TW6	2023-08-15	< 0.05	1.0	No	No
Nitrite (mg/L) - TW6	2023/11/15	< 0.05	1.0	No	No
Nitrite (mg/L) - TW7/8	2023/02/14	< 0.05	1.0	No	No
Nitrite (mg/L) - TW7/8	2023/05/15	< 0.05	1.0	No	No
Nitrite (mg/L) - TW7/8	2023-08-15	< 0.05	1.0	No	No
Nitrite (mg/L) - TW7/8	2023/11/15	< 0.05	1.0	No	No
Nitrate (mg/L) - TW3	2023/02/14	0.14	10.0	No	No
Nitrate (mg/L) - TW3	2023/05/15	0.11	10.0	No	No
Nitrate (mg/L) - TW3	2023-08-15	0.2	10.0	No	No
Nitrate (mg/L) - TW3	2023/11/15	0.34	10.0	No	No
Nitrate (mg/L) - TW5	2023/02/14	0.29	10.0	No	No
Nitrate (mg/L) - TW5	2023/05/15	0.38	10.0	No	No
Nitrate (mg/L) - TW5	2023-08-15	0.34	10.0	No	No
Nitrate (mg/L) - TW5	2023/11/15	0.29	10.0	No	No
Nitrate (mg/L) - TW6	2023/02/14	0.35	10.0	No	No
Nitrate (mg/L) - TW6	2023/05/15	0.24	10.0	No	No
Nitrate (mg/L) - TW6	2023-08-15	0.5	10.0	No	No
Nitrate (mg/L) - TW6	2023/11/15	0.61	10.0	No	No
Nitrate (mg/L) - TW7/8	2023/02/14	1.22	10.0	No	No
Nitrate (mg/L) - TW7/8	2023/05/15	1.37	10.0	No	No
Nitrate (mg/L) - TW7/8	2023-08-15	1.34	10.0	No	No
Nitrate (mg/L) - TW7/8	2023/11/15	1.0	10.0	No	No
Sodium: Na (mg/L) - TW3	2023/11/15	38.9	20*	Yes	Yes
Sodium: Na (mg/L) - TW5	2023/11/15	53.5	20*	Yes	Yes
Sodium: Na (mg/L) - TW6	2023/11/15	33.7	20*	Yes	Yes
Sodium: Na (mg/L) - TW7/8	2023/11/15	43.7	20*	Yes	Yes

\*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

\*\* Sodium was reported as an AWQI in 2023\*\*

#### Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg 170/03. This system is under the plumbing

exemption. No plumbing samples were collected.

Distribution System	Number of Sampling Points	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
			Minimum	Maximum		
Alkalinity (mg/L)	6	6	278	298	N/A	N/A
pH	6	6	6.92	7.11	N/A	N/A
Lead (mg/l)	6	6	0.00029	0.00253	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.

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Alachlor (ug/L) - TW3	2023/10/10	<MDL 0.3	5.00	No	No
Alachlor (ug/L) - TW5	2023/10/10	<MDL 0.3	5.00	No	No
Alachlor (ug/L) - TW7/8	2023/10/10	<MDL 0.3	5.00	No	No
Alachlor (ug/L) - TW6	2023/10/10	<MDL 0.3	5.00	No	No
Azinphos-methyl (ug/L) - TW3	2023/10/10	<MDL 1.0	20.00	No	No
Azinphos-methyl (ug/L) - TW5	2023/10/10	<MDL 1.0	20.00	No	No
Azinphos-methyl (ug/L) - TW7/8	2023/10/10	<MDL 1.0	20.00	No	No
Azinphos-methyl (ug/L) - TW6	2023/10/10	<MDL 1.0	20.00	No	No
Benzene (ug/L) - TW3	2023/10/10	<MDL 0.5	1.00	No	No
Benzene (ug/L) - TW5	2023/10/10	<MDL 0.5	1.00	No	No
Benzene (ug/L) - TW7/8	2023/10/10	<MDL 0.5	1.00	No	No
Benzene (ug/L) - TW6	2023/10/10	<MDL 0.5	1.00	No	No
Benzo(a)pyrene (ug/L) - TW3	2023/10/10	<MDL 0.006	0.01	No	No
Benzo(a)pyrene (ug/L) - TW5	2023/10/10	<MDL 0.006	0.01	No	No
Benzo(a)pyrene (ug/L) - TW7/8	2023/10/10	<MDL 0.006	0.01	No	No
Benzo(a)pyrene (ug/L) - TW6	2023/10/10	<MDL 0.006	0.01	No	No
Bromoxynil (ug/L) - TW3	2023/10/10	<MDL 0.5	5.00	No	No
Bromoxynil (ug/L) - TW5	2023/10/10	<MDL 0.5	5.00	No	No
Bromoxynil (ug/L) - TW7/8	2023/10/10	<MDL 0.5	5.00	No	No
Bromoxynil (ug/L) - TW6	2023/10/10	<MDL 0.5	5.00	No	No
Carbaryl (ug/L) - TW3	2023/10/10	<MDL 3.0	90.00	No	No
Carbaryl (ug/L) - TW5	2023/10/10	<MDL 3.0	90.00	No	No
Carbaryl (ug/L) - TW7/8	2023/10/10	<MDL 3.0	90.00	No	No
Carbaryl (ug/L) - TW6	2023/10/10	<MDL 3.0	90.00	No	No
Carbofuran (ug/L) - TW3	2023/10/10	<MDL 1.0	90.00	No	No
Carbofuran (ug/L) - TW5	2023/10/10	<MDL 1.0	90.00	No	No
Carbofuran (ug/L) - TW7/8	2023/10/10	<MDL 1.0	90.00	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
Carbofuran (ug/L) - TW6	2023/10/10	<MDL 1.0	90.00	No	No
Carbon Tetrachloride (ug/L) - TW3	2023/10/10	<MDL 0.2	2.00	No	No
Carbon Tetrachloride (ug/L) - TW5	2023/10/10	<MDL 0.2	2.00	No	No
Carbon Tetrachloride (ug/L) - TW7/8	2023/10/10	<MDL 0.2	2.00	No	No
Carbon Tetrachloride (ug/L) - TW6	2023/10/10	<MDL 0.2	2.00	No	No
Chlorpyrifos (ug/L) - TW3	2023/10/10	<MDL 0.5	90.00	No	No
Chlorpyrifos (ug/L) - TW5	2023/10/10	<MDL 0.5	90.00	No	No
Chlorpyrifos (ug/L) - TW7/8	2023/10/10	<MDL 0.5	90.00	No	No
Chlorpyrifos (ug/L) - TW6	2023/10/10	<MDL 0.5	90.00	No	No
Diazinon (ug/L) - TW3	2023/10/10	<MDL 1.0	20.00	No	No
Diazinon (ug/L) - TW5	2023/10/10	<MDL 1.0	20.00	No	No
Diazinon (ug/L) - TW7/8	2023/10/10	<MDL 1.0	20.00	No	No
Diazinon (ug/L) - TW6	2023/10/10	<MDL 1.0	20.00	No	No
Dicamba (ug/L) - TW3	2023/10/10	<MDL 1.0	120.00	No	No
Dicamba (ug/L) - TW5	2023/10/10	<MDL 1.0	120.00	No	No
Dicamba (ug/L) - TW7/8	2023/10/10	<MDL 1.0	120.00	No	No
Dicamba (ug/L) - TW6	2023/10/10	<MDL 1.0	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW3	2023/10/10	<MDL 0.5	200.00	No	No
1,2-Dichlorobenzene (ug/L) - TW5	2023/10/10	<MDL 0.5	200.00	No	No
1,2-Dichlorobenzene (ug/L) - TW7/8	2023/10/10	<MDL 0.5	200.00	No	No
1,2-Dichlorobenzene (ug/L) - TW6	2023/10/10	<MDL 0.5	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW3	2023/10/10	<MDL 0.5	5.00	No	No
1,4-Dichlorobenzene (ug/L) - TW5	2023/10/10	<MDL 0.5	5.00	No	No
1,4-Dichlorobenzene (ug/L) - TW7/8	2023/10/10	<MDL 0.5	5.00	No	No
1,4-Dichlorobenzene (ug/L) - TW6	2023/10/10	<MDL 0.5	5.00	No	No
1,2-Dichloroethane (ug/L) - TW3	2023/10/10	<MDL 0.5	5.00	No	No
1,2-Dichloroethane (ug/L) - TW5	2023/10/10	<MDL 0.5	5.00	No	No
1,2-Dichloroethane (ug/L) - TW7/8	2023/10/10	<MDL 0.5	5.00	No	No
1,2-Dichloroethane (ug/L) - TW6	2023/10/10	<MDL 0.5	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW3	2023/10/10	<MDL 0.5	14.00	No	No
1,1-Dichloroethylene (ug/L) - TW5	2023/10/10	<MDL 0.5	14.00	No	No
1,1-Dichloroethylene (ug/L) - TW7/8	2023/10/10	<MDL 0.5	14.00	No	No
1,1-Dichloroethylene (ug/L) - TW6	2023/10/10	<MDL 0.5	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW3	2023/10/10	<MDL 5.0	50.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW5	2023/10/10	<MDL 5.0	50.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW7/8	2023/10/10	<MDL 5.0	50.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW6	2023/10/10	<MDL 5.0	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW3	2023/10/10	<MDL 0.2	900.00	No	No
2,4-Dichlorophenol (ug/L) - TW5	2023/10/10	<MDL 0.2	900.00	No	No
2,4-Dichlorophenol (ug/L) - TW7/8	2023/10/10	<MDL 0.2	900.00	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
2,4-Dichlorophenol (ug/L) - TW6	2023/10/10	<MDL 0.2	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW3	2023/10/10	<MDL 1.0	100.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW5	2023/10/10	<MDL 1.0	100.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW7/8	2023/10/10	<MDL 1.0	100.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW6	2023/10/10	<MDL 1.0	100.00	No	No
Diclofop-methyl (ug/L) - TW3	2023/10/10	<MDL 0.9	9.00	No	No
Diclofop-methyl (ug/L) - TW5	2023/10/10	<MDL 0.9	9.00	No	No
Diclofop-methyl (ug/L) - TW7/8	2023/10/10	<MDL 0.9	9.00	No	No
Diclofop-methyl (ug/L) - TW6	2023/10/10	<MDL 0.9	9.00	No	No
Dimethoate (ug/L) - TW3	2023/10/10	<MDL 1.0	20.00	No	No
Dimethoate (ug/L) - TW5	2023/10/10	<MDL 1.0	20.00	No	No
Dimethoate (ug/L) - TW7/8	2023/10/10	<MDL 1.0	20.00	No	No
Dimethoate (ug/L) - TW6	2023/10/10	<MDL 1.0	20.00	No	No
Diquat (ug/L) - TW3	2023/10/10	<MDL 5.0	70.00	No	No
Diquat (ug/L) - TW5	2023/10/10	<MDL 5.0	70.00	No	No
Diquat (ug/L) - TW7/8	2023/10/10	<MDL 5.0	70.00	No	No
Diquat (ug/L) - TW6	2023/10/10	<MDL 5.0	70.00	No	No
Diuron (ug/L) - TW3	2023/10/10	<MDL 5.0	150.00	No	No
Diuron (ug/L) - TW5	2023/10/10	<MDL 5.0	150.00	No	No
Diuron (ug/L) - TW7/8	2023/10/10	<MDL 5.0	150.00	No	No
Diuron (ug/L) - TW6	2023/10/10	<MDL 5.0	150.00	No	No
Glyphosate (ug/L) - TW3	2023/10/10	<MDL 25.0	280.00	No	No
Glyphosate (ug/L) - TW5	2023/10/10	<MDL 25.0	280.00	No	No
Glyphosate (ug/L) - TW7/8	2023/10/10	<MDL 25.0	280.00	No	No
Glyphosate (ug/L) - TW6	2023/10/10	<MDL 25.0	280.00	No	No
Malathion (ug/L) - TW3	2023/10/10	<MDL 5.0	190.00	No	No
Malathion (ug/L) - TW5	2023/10/10	<MDL 5.0	190.00	No	No
Malathion (ug/L) - TW7/8	2023/10/10	<MDL 5.0	190.00	No	No
Malathion (ug/L) - TW6	2023/10/10	<MDL 5.0	190.00	No	No
Metolachlor (ug/L) - TW3	2023/10/10	<MDL 3.0	50.00	No	No
Metolachlor (ug/L) - TW5	2023/10/10	<MDL 3.0	50.00	No	No
Metolachlor (ug/L) - TW7/8	2023/10/10	<MDL 3.0	50.00	No	No
Metolachlor (ug/L) - TW6	2023/10/10	<MDL 3.0	50.00	No	No
Metribuzin (ug/L) - TW3	2023/10/10	<MDL 3.0	80.00	No	No
Metribuzin (ug/L) - TW5	2023/10/10	<MDL 3.0	80.00	No	No
Metribuzin (ug/L) - TW7/8	2023/10/10	<MDL 3.0	80.00	No	No
Metribuzin (ug/L) - TW6	2023/10/10	<MDL 3.0	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW3	2023/10/10	<MDL 0.5	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW5	2023/10/10	<MDL 0.5	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW7/8	2023/10/10	<MDL 0.5	80.00	No	No



	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
Monochlorobenzene (Chlorobenzene) (ug/L) - TW6	2023/10/10	<MDL 0.5	80.00	No	No
Paraquat (ug/L) - TW3	2023/10/10	<MDL 1.0	10.00	No	No
Paraquat (ug/L) - TW5	2023/10/10	<MDL 1.0	10.00	No	No
Paraquat (ug/L) - TW7/8	2023/10/10	<MDL 1.0	10.00	No	No
Paraquat (ug/L) - TW6	2023/10/10	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW3	2023/10/10	<MDL 0.05	3.00	No	No
PCB (ug/L) - TW5	2023/10/10	<MDL 0.05	3.00	No	No
PCB (ug/L) - TW7/8	2023/10/10	<MDL 0.05	3.00	No	No
PCB (ug/L) - TW6	2023/10/10	<MDL 0.05	3.00	No	No
Pentachlorophenol (ug/L) - TW3	2023/10/10	<MDL 0.2	60.00	No	No
Pentachlorophenol (ug/L) - TW5	2023/10/10	<MDL 0.2	60.00	No	No
Pentachlorophenol (ug/L) - TW7/8	2023/10/10	<MDL 0.2	60.00	No	No
Pentachlorophenol (ug/L) - TW6	2023/10/10	<MDL 0.2	60.00	No	No
Phorate (ug/L) - TW3	2023/10/10	<MDL 0.3	2.00	No	No
Phorate (ug/L) - TW5	2023/10/10	<MDL 0.3	2.00	No	No
Phorate (ug/L) - TW7/8	2023/10/10	<MDL 0.3	2	No	No
Phorate (ug/L) - TW6	2023/10/10	<MDL 0.3	2	No	No
Picloram (ug/L) - TW3	2023/10/10	<MDL 5.0	190	No	No
Picloram (ug/L) - TW5	2023/10/10	<MDL 5.0	190	No	No
Picloram (ug/L) - TW7/8	2023/10/10	<MDL 5.0	190	No	No
Picloram (ug/L) - TW6	2023/10/10	<MDL 5.0	190	No	No
Prometryne (ug/L) - TW3	2023/10/10	<MDL 0.1	1	No	No
Prometryne (ug/L) - TW5	2023/10/10	<MDL 0.1	1	No	No
Prometryne (ug/L) - TW7/8	2023/10/10	<MDL 0.1	1	No	No
Prometryne (ug/L) - TW6	2023/10/10	<MDL 0.1	1	No	No
Simazine (ug/L) - TW3	2023/10/10	<MDL 0.5	10	No	No
Simazine (ug/L) - TW5	2023/10/10	<MDL 0.5	10	No	No
Simazine (ug/L) - TW7/8	2023/10/10	<MDL 0.5	10	No	No
Simazine (ug/L) - TW6	2023/10/10	<MDL 0.5	10	No	No
Terbufos (ug/L) - TW3	2023/10/10	<MDL 0.5	1	No	No
Terbufos (ug/L) - TW5	2023/10/10	<MDL 0.5	1	No	No
Terbufos (ug/L) - TW7/8	2023/10/10	<MDL 0.5	1	No	No
Terbufos (ug/L) - TW6	2023/10/10	<MDL 0.5	1	No	No
Tetrachloroethylene (ug/L) - TW3	2023/10/10	<MDL 0.5	10	No	No
Tetrachloroethylene (ug/L) - TW5	2023/10/10	<MDL 0.5	10	No	No
Tetrachloroethylene (ug/L) - TW7/8	2023/10/10	<MDL 0.5	10	No	No
Tetrachloroethylene (ug/L) - TW6	2023/10/10	<MDL 0.5	10	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW3	2023/10/10	<MDL 0.2	100	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW5	2023/10/10	<MDL 0.2	100	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW7/8	2023/10/10	<MDL 0.2	100	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
2,3,4,6-Tetrachlorophenol (ug/L) - TW6	2023/10/10	<MDL 0.2	100	No	No
Triallate (ug/L) - TW3	2023/10/10	<MDL 10.0	230	No	No
Triallate (ug/L) - TW5	2023/10/10	<MDL 10.0	230	No	No
Triallate (ug/L) - TW7/8	2023/10/10	<MDL 10.0	230	No	No
Triallate (ug/L) - TW6	2023/10/10	<MDL 10.0	230	No	No
Trichloroethylene (ug/L) - TW3	2023/10/10	<MDL 0.5	5	No	No
Trichloroethylene (ug/L) - TW5	2023/10/10	<MDL 0.5	5	No	No
Trichloroethylene (ug/L) - TW7/8	2023/10/10	<MDL 0.5	5	No	No
Trichloroethylene (ug/L) - TW6	2023/10/10	<MDL 0.5	5	No	No
2,4,6-Trichlorophenol (ug/L) - TW3	2023/10/10	<MDL 0.2	5	No	No
2,4,6-Trichlorophenol (ug/L) - TW5	2023/10/10	<MDL 0.2	5	No	No
2,4,6-Trichlorophenol (ug/L) - TW7/8	2023/10/10	<MDL 0.2	5	No	No
2,4,6-Trichlorophenol (ug/L) - TW6	2023/10/10	<MDL 0.2	5	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW3	2023/10/10	<MDL 10.0	100	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW5	2023/10/10	<MDL 10.0	100	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW7/8	2023/10/10	<MDL 10.0	100	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW6	2023/10/10	<MDL 10.0	100	No	No
Trifluralin (ug/L) - TW3	2023/10/10	<MDL 0.5	45	No	No
Trifluralin (ug/L) - TW5	2023/10/10	<MDL 0.5	45	No	No
Trifluralin (ug/L) - TW7/8	2023/10/10	<MDL 0.5	45	No	No
Trifluralin (ug/L) - TW6	2023/10/10	<MDL 0.5	45	No	No
Vinyl Chloride (ug/L) - TW3	2023/10/10	<MDL 0.2	1	No	No
Vinyl Chloride (ug/L) - TW5	2023/10/10	<MDL 0.2	1	No	No
Vinyl Chloride (ug/L) - TW7/8	2023/10/10	<MDL 0.2	1	No	No
Vinyl Chloride (ug/L) - TW6	2023/10/10	<MDL 0.2	1	No	No
<b>Distribution Water</b>					
Trihalomethane: Total (ug/L) Annual Running Average - DW	2023	15.0	100	No	No
HAA Total (ug/L) Annual Running Average - DW	2023	5.3	80.0	No	No

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

BDL = Below the laboratory detection level

### Additional Legislated Samples

The following two tables are the sample results from additional samples collected at Well 5:

The first table contains the results of samples collected because the adjoining lands where once used for storage of electrical transformers and hydro poles. The transformers and hydro poles are no longer stored at the adjoining

lands but sampling will continue. Please note that these samples are Raw Water and not Treated Water. There is no MAC / IMAC (Maximum Acceptable Concentration / Interim Maximum Acceptable Concentration) for raw water but the treated water MAC /IMAC have been provided for reference.

The second table contains the results of samples collected due to the wells' proximity to the decommissioned wastewater treatment lagoons. These results help to assess the integrity of the lagoon cells.

Raw Water: Well 5 Parameter	Unit of Measure	Sample Date	Result Value	ODWS	
				MAC	IMAC
Arsenic	ug/L	July 18, 2023	<0.0001		25.0
Chromium	ug/L	July 18, 2023	<0.001	50	
PCBs (Polychlorinated Biphenyls)	ug/L	July 18, 2023	<0.05		3.0

Treated Water Parameter	Unit of Measure	Treated Water: Well 5 Annual Average 2023
TKN (Total Kjeldahl Nitrogen)	mg/L	<0.1
Total Phosphorus	mg/L	<0.02
o-Phosphate (O-PO4)	mg/L	0.003
Dissolved Reactive Phosphorus	mg/L	<0.003
NH3 + NH4 as N	mg/L	<0.014

## Major Maintenance Summary

WO #	Description
3482801	Capital Mississippi Mills Annual Tower Safety Inspection
3574099	Capital Well 8 Contactor Failure/Replacement
3620662	Capital Chlorination Panel Parts (Critical spares)
3622875	Capital Elevated Tank Transmitter
3201928	Capital Chlorine Injector Check Valves
3245763	Capital Capital Controls SCADA Deficiency
3290438	Capital Well 6 VFD Control Issues
3382937	Capital Antenna Boosters
3385679	Capital 2022 Annual Engineers Monitoring Report
3625550	Capital Well 8 VFD Troubleshooting/Repair
3662068	Capital SAI Global Annual External Audit

WO #	Description
3662775	Well 8 VFD Troubleshooting and Repair

## Distribution Highlights

Distribution Highlights were provided by the Municipality of Mississippi Mills.

### Compliance Report Card

In August 2023, the MECP completed a focused on-site inspection for the distribution system. The inspection risk report rating was 100%. A desktop QMS External Audit was completed and for the distribution system there were no applicable non-conformances.

### Maintenance and Operations

The following programs and activities were completed in 2023:

- The water main flushing program (spring and fall)
- Valve exercising continued
- A complete leak detection program was undertaken
- Routine inspections
- Radio frequency meter upgrades/replacements
- Several repairs – watermains, valves, hydrants, PRV, services, and curb stops.

### Commissioning



The following projects were commissioned in 2023:

- Princess Street watermain
- Little Bridge Street, Brae Street watermains (Downtown reconstruction project final Phase 4)

### Planning Initiatives

- Union Street North Infrastructure Upgrade Design
- Mercer/Marshall Infrastructure Upgrade Design
- Pressure Zone Study
- County Road 29 Watermain Looping Design

## Appendix A - WTRS Data and Submission Confirmation



Ministry of the Environment,  
Conservation and Parks

| [WT DATA](#) | [USER PROFILE](#) | [CONTACT US](#) | [HELP](#) | [HOME](#) | [LOGOUT](#) |

Location: [WTRS](#) / [WT DATA](#) / [Edit Submitted WT Records](#) WTRS-WT-008

**Water Taking Data submitted successfully.**

**Confirmation:**

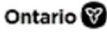
Thank you for submitting your water taking data online.

Permit Number: 8175-AQPHAB  
Permit Holder: THE CORPORATION OF THE TOWN OF MISSISSIPPI MILLS.  
Received on: Jan 16, 2024 10:46 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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TOWN OF MISSISSIPPI MILLS | 2024/01/16  
version: v4.5.0.21 (build#: 22)  
Last modified: 2018/09/18

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# MISSISSIPPI MILLS DRINKING WATER SYSTEM / M Mills DWS RW Well 3

## Yearly Summary (Flow) 2023

Annual Values and Summary												Units: cubic meters per day
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	120.10	0.00	115.23	124.45	240.25	244.91	140.22	231.88	316.73	290.74	218.77	142.90
2	127.28	0.00	160.83	151.66	247.59	326.24	148.00	249.87	281.71	279.81	241.94	117.60
3	141.06	63.32	167.41	138.52	218.64	283.42	223.23	253.95	314.88	291.49	133.34	139.32
4	196.28	136.48	136.05	142.85	140.45	271.72	295.08	158.35	384.71	260.51	148.15	133.23
5	134.47	89.01	153.56	78.95	168.08	289.92	178.71	213.57	346.95	360.22	247.30	185.26
6	122.69	164.92	97.72	68.00	156.02	279.74	212.53	204.83	406.68	293.01	134.32	183.35
7	133.18	121.22	231.36	73.57	196.36	138.93	249.57	176.00	293.23	271.40	134.26	175.41
8	144.02	40.32	162.75	0.00	218.95	270.32	163.96	202.47	318.21	252.25	135.06	216.74
9	143.10	94.32	141.81	0.00	110.83	143.26	240.23	277.98	328.72	270.55	121.31	113.00
10	138.69	88.27	160.40	0.00	162.70	267.75	267.99	233.52	313.80	374.22	111.45	111.10
11	108.31	88.27	180.81	81.75	199.84	151.43	186.80	174.38	245.04	315.81	117.09	163.70
12	109.23	150.00	160.83	152.78	190.41	301.26	160.99	144.44	162.65	170.17	115.05	196.91
13	152.12	149.69	151.28	149.88	185.79	239.58	188.10	149.84	236.25	200.42	120.49	130.77
14	140.24	115.32	167.35	173.37	199.14	190.19	228.66	163.83	282.62	241.34	155.55	115.10
15	121.59	114.24	137.36	129.95	229.29	150.45	147.66	180.25	286.28	253.62	118.13	112.74
16	139.12	180.24	141.01	106.93	177.50	234.36	135.34	208.23	283.29	211.67	126.22	159.07
17	133.35	140.40	146.11	184.04	271.55	150.10	262.99	212.32	281.03	155.78	131.46	121.16
18	122.90	109.43	118.35	142.71	241.70	163.90	161.80	150.31	391.72	235.65	134.44	135.64
19	110.02	87.36	130.75	150.47	157.76	241.84	217.32	161.87	229.61	141.81	135.53	90.75
20	113.91	135.33	130.32	163.03	143.05	249.95	227.89	196.15	261.99	150.35	193.48	96.89
21	93.54	109.78	148.18	178.54	162.19	220.40	152.81	261.19	302.24	117.06	121.72	105.28
22	119.04	117.02	137.84	150.38	244.59	180.68	169.28	226.66	285.71	132.69	96.77	131.28
23	153.21	191.02	120.30	161.22	214.42	234.58	207.63	196.96	263.50	204.67	140.25	167.41
24	114.90	134.58	194.77	149.75	187.71	201.76	231.75	187.33	309.38	144.56	129.53	134.99
25	154.29	105.68	135.85	168.50	192.26	268.94	163.09	336.33	279.87	110.60	126.80	131.28
26	108.23	73.24	122.41	179.48	242.65	202.33	157.09	153.19	357.93	122.01	137.84	92.90
27	101.73	129.79	193.96	156.25	140.45	153.12	189.94	189.75	328.91	179.12	135.65	202.90
28	0.00	120.64	127.67	165.40	277.09	203.09	250.05	249.25	253.62	170.28	134.13	150.85
29	0.00		129.82	246.68	164.01	196.35	344.38	292.93	310.61	243.31	127.86	94.91
30	0.00		115.49	243.55	251.69	189.90	361.06	265.30	294.52	194.75	132.39	107.41
31	0.00		122.99		371.95		242.06	292.44		266.96		113.52
<b>Min</b>	0.00	0.00	97.72	0.00	110.83	138.93	135.34	144.44	162.65	110.60	96.77	90.75
<b>Mean</b>	112.79	108.92	146.47	133.76	203.38	221.35	209.88	212.75	298.41	222.80	141.88	137.85
<b>Max</b>	196.28	191.02	231.36	246.68	371.95	326.24	361.06	336.33	406.68	374.22	247.30	216.74

**Legend:** '---' Missing Data                      '+' No Day

# MISSISSIPPI MILLS DRINKING WATER SYSTEM / M Mills DWS RW Well 5

## Yearly Summary (Flow) 2023

Annual Values and Summary												Units:	cubic meter per day
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	76.96	108.64	73.38	79.93	148.88	152.00	106.06	50.25	199.89	181.95	139.86	92.63	
2	77.64	71.14	102.26	96.61	154.61	138.85	91.08	145.11	176.94	175.33	152.82	74.10	
3	86.69	76.77	107.15	87.91	137.55	175.99	137.80	155.94	197.86	185.07	83.99	87.35	
4	120.36	87.39	85.89	91.19	87.38	168.90	184.51	87.95	242.23	176.49	93.32	83.55	
5	83.24	76.70	96.92	57.73	104.20	179.84	113.17	0.00	159.36	228.91	155.27	116.57	
6	75.44	104.63	61.53	115.56	96.58	170.01	131.74	0.00	123.78	185.50	84.61	114.55	
7	82.50	76.26	148.68	109.44	121.28	116.26	153.84	0.00	187.89	171.75	79.72	109.72	
8	89.52	84.59	103.69	93.26	135.02	167.78	101.26	18.08	183.52	159.12	84.49	135.52	
9	89.33	70.70	90.26	86.74	81.51	88.90	150.86	0.00	208.83	170.79	75.59	70.46	
10	89.32	56.06	101.41	72.16	102.66	166.48	166.58	0.00	199.27	236.94	69.34	69.21	
11	67.47	56.06	114.48	86.84	126.64	94.30	116.38	80.69	155.34	198.36	72.80	98.17	
12	68.26	95.13	101.46	94.42	119.76	193.21	100.08	89.56	99.21	106.50	71.26	118.14	
13	95.23	94.88	113.72	93.31	0.00	148.89	116.50	93.21	148.17	125.02	74.43	78.00	
14	87.76	74.54	112.21	107.21	0.00	120.31	141.44	101.98	178.56	150.28	96.47	72.13	
15	76.16	73.34	91.24	51.37	131.62	93.66	91.46	109.96	180.71	157.99	75.93	70.76	
16	87.40	115.60	93.46	66.04	111.91	146.74	83.66	164.31	179.07	134.89	80.63	99.47	
17	83.62	89.88	96.56	112.68	175.65	93.61	164.42	136.85	177.59	99.73	81.42	75.47	
18	78.37	69.90	78.49	155.07	151.86	102.12	98.33	96.92	251.50	150.45	82.98	84.66	
19	70.20	55.97	86.63	92.83	99.39	157.25	136.53	126.47	145.98	89.82	83.61	56.41	
20	72.23	85.87	86.05	100.62	89.93	158.90	142.72	125.01	165.48	94.67	120.70	61.32	
21	59.23	69.58	95.12	110.34	101.93	139.49	96.03	166.79	203.65	73.95	77.11	66.07	
22	75.23	74.31	90.30	92.15	153.76	114.80	106.30	144.46	185.12	83.09	96.25	82.58	
23	96.42	121.47	80.77	99.84	97.97	148.39	129.65	124.16	166.71	127.97	87.14	105.17	
24	72.67	85.98	126.95	92.59	156.94	125.83	139.76	118.41	182.06	88.97	84.25	84.56	
25	90.66	67.69	88.68	99.46	122.06	167.80	101.91	208.81	176.02	69.09	78.87	82.39	
26	69.07	71.40	79.41	111.65	154.15	143.79	98.22	97.05	205.59	76.38	85.87	58.42	
27	85.95	82.98	125.91	103.98	88.84	98.60	104.24	118.68	214.45	111.21	84.36	124.61	
28	68.23	77.06	84.52	102.39	175.01	127.77	155.50	160.55	159.14	105.69	81.66	93.93	
29	71.02		83.40	154.24	182.55	120.98	212.57	185.25	192.35	151.27	71.88	59.41	
30	87.46		77.84	150.84	159.07	119.68	223.46	171.32	184.47	113.71	83.84	67.02	
31	72.39		78.11		231.73		153.92	183.49		168.92		70.82	
<b>Min</b>	59.23	55.97	61.53	51.37	0.00	88.90	83.66	0.00	99.21	69.09	69.34	56.41	
<b>Mean</b>	80.84	81.23	95.37	98.95	122.59	138.04	130.64	105.20	181.02	140.32	89.68	85.91	
<b>Max</b>	120.36	121.47	148.68	155.07	231.73	193.21	223.46	208.81	251.50	236.94	155.27	135.52	

Legend: '---' Missing Data    '+' No Day

# MISSISSIPPI MILLS DRINKING WATER SYSTEM / MMills DWS RW Well 6

## Yearly Summary (Flow) 2023

Annual Values and Summary												
Units:												cubic meter per day
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	130.20	178.91	123.54	134.07	252.03	253.94	127.68	242.59	336.31	309.12	235.45	152.02
2	130.83	119.76	172.64	162.02	179.44	361.58	152.33	261.05	297.82	294.74	257.30	124.61
3	146.00	129.73	179.47	147.14	135.30	293.80	229.73	264.83	333.29	314.84	152.75	146.96
4	160.89	146.85	144.25	154.00	145.94	282.03	308.48	166.47	407.00	280.88	0.00	141.08
5	140.87	129.15	146.22	100.85	174.12	300.24	184.86	223.77	372.49	384.84	0.00	195.89
6	127.45	176.00	98.10	194.64	162.22	284.71	219.65	212.90	431.55	311.79	142.31	195.69
7	139.13	128.57	138.33	183.61	203.18	194.19	257.75	182.74	315.81	289.06	134.49	174.14
8	151.30	141.57	0.00	156.55	227.19	280.81	169.46	211.21	339.45	268.02	142.58	228.66
9	150.41	119.15	91.47	145.65	134.49	149.49	251.82	292.88	351.28	287.14	127.59	118.48
10	150.18	94.14	77.82	121.06	171.68	278.58	278.59	244.49	334.99	397.61	116.93	116.19
11	113.55	94.14	191.07	130.74	211.88	157.38	194.19	181.92	261.15	336.92	122.62	164.64
12	114.80	0.00	98.18	166.63	201.25	320.58	166.94	149.89	167.29	180.12	120.19	190.11
13	160.44	0.00	0.00	155.85	196.03	249.86	194.36	156.06	249.82	211.54	126.12	137.07
14	147.94	26.22	89.96	180.21	210.61	198.27	237.45	170.08	300.96	253.86	162.27	122.34
15	128.73	101.44	0.00	134.73	247.21	156.57	152.96	186.38	304.69	267.52	123.34	119.18
16	147.48	194.17	0.00	110.65	192.41	224.10	139.87	219.98	302.20	226.77	131.53	167.79
17	142.41	154.73	91.11	161.04	287.36	156.71	272.09	229.40	299.71	170.02	136.78	127.61
18	129.34	117.70	0.00	256.47	259.73	171.03	160.12	162.08	423.56	253.14	140.27	142.58
19	90.02	94.34	0.00	156.22	166.46	273.07	227.71	211.77	245.66	151.65	141.20	95.11
20	121.25	144.52	18.92	168.46	151.39	499.01	238.53	210.27	255.58	160.18	200.05	101.53
21	99.55	116.87	4.85	142.08	158.58	233.68	160.35	283.87	342.60	124.09	128.38	111.22
22	126.66	125.21	5.97	156.17	257.58	191.29	177.64	240.08	305.51	140.28	139.92	138.74
23	162.25	204.95	53.92	167.11	232.48	248.01	216.01	210.06	280.54	215.31	147.66	177.59
24	122.14	144.55	0.00	155.19	262.47	213.22	237.47	199.17	328.11	152.47	136.40	142.93
25	155.96	113.29	0.00	174.85	203.71	284.06	171.98	352.57	296.68	116.38	133.27	112.78
26	116.45	83.25	0.00	187.25	217.52	233.29	164.09	148.86	383.27	128.00	145.04	82.02
27	144.36	138.95	43.36	168.87	148.35	164.37	197.97	199.73	346.84	187.63	142.07	214.31
28	114.76	128.86	54.30	173.56	292.70	213.64	259.88	270.01	266.53	178.79	137.59	159.18
29	119.14		139.92	260.59	305.32	499.12	358.27	312.27	323.95	254.87	135.58	99.74
30	146.85		129.58	255.14	265.40	196.09	377.43	286.45	310.14	199.02	141.18	112.70
31	122.46		131.23		387.67		253.54	309.17		282.62		118.86
<b>Min</b>	90.02	0.00	0.00	100.85	134.49	149.49	127.68	148.86	167.29	116.38	0.00	82.02
<b>Mean</b>	133.99	119.54	71.75	165.38	214.25	252.09	217.39	225.58	317.16	236.43	136.70	142.96
<b>Max</b>	162.25	204.95	191.07	260.59	387.67	499.12	377.43	352.57	431.55	397.61	257.30	228.66

**Legend:** '---' Missing Data      '+' No Day



# MISSISSIPPI MILLS DRINKING WATER SYSTEM / MMills DWS RW Well 7

## Yearly Summary (Flow) 2023

Annual Values and Summary												Units:	cubic meter per day
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	774.26	809.76	749.61	788.08	753.58	1405.89	870.89	1011.33	1302.12	1188.22	1200.81	851.75	
2	792.11	774.46	732.66	810.96	778.67	1354.23	897.81	1074.28	1162.06	1180.12	1271.74	817.41	
3	861.22	771.76	908.78	818.06	865.19	1268.01	1019.84	789.30	1286.95	1208.35	891.78	899.21	
4	886.63	776.62	807.78	746.86	823.28	1268.05	1221.79	830.87	1514.34	1128.61	833.23	788.73	
5	737.09	778.13	823.69	740.41	911.26	1391.05	1023.96	1009.80	1364.05	1192.70	1511.44	940.81	
6	742.76	894.09	681.05	778.12	859.84	1188.94	1148.00	980.34	1399.66	1169.39	927.63	938.35	
7	870.52	715.63	826.56	872.62	952.75	987.14	1048.82	885.66	1251.24	1127.50	718.71	905.50	
8	833.67	786.08	895.14	837.61	932.73	1147.27	1080.78	962.24	1241.92	1100.21	801.31	991.36	
9	844.08	715.86	891.53	828.02	877.03	932.61	1152.90	1151.83	1292.62	1128.72	769.97	924.45	
10	705.94	740.57	880.78	811.65	903.11	1272.08	1211.20	1009.44	1297.27	1466.75	776.18	817.73	
11	711.45	740.57	927.55	826.93	951.65	1047.17	1034.66	853.11	1131.44	1296.37	778.34	800.62	
12	708.16	845.83	874.72	865.99	1021.90	1170.48	906.93	853.03	970.25	871.21	778.88	921.67	
13	829.10	833.31	922.06	781.96	956.81	1005.07	978.36	914.78	1010.90	746.14	720.09	741.14	
14	757.94	773.74	876.78	901.31	1017.55	939.07	963.61	999.31	1176.63	758.98	824.62	717.77	
15	738.99	722.49	835.00	782.92	1134.70	916.62	926.62	889.93	1210.42	799.30	715.56	718.70	
16	823.16	906.36	779.14	828.37	1204.80	1068.45	842.04	1017.17	1203.50	882.08	736.92	869.01	
17	701.29	796.10	847.43	871.91	1183.83	898.02	1071.70	926.08	1196.33	718.25	740.13	740.12	
18	719.28	755.47	770.00	715.84	1076.47	986.80	1029.56	1006.07	1435.53	774.09	764.49	822.72	
19	714.24	710.68	899.01	743.86	950.52	1223.78	1084.70	1046.26	1123.32	796.90	789.78	696.15	
20	720.07	741.17	858.34	807.85	798.42	1107.70	1007.42	973.81	1117.47	817.07	910.27	753.02	
21	746.36	738.38	843.09	836.65	921.33	1100.08	935.64	1154.41	1296.25	780.38	717.84	764.71	
22	761.20	717.91	825.12	877.92	1078.17	1129.10	967.95	992.05	1210.47	842.56	771.80	754.21	
23	810.04	693.17	778.74	865.25	1190.26	1088.32	991.23	956.12	1139.98	983.73	692.21	902.38	
24	740.21	734.59	823.44	918.32	1171.76	964.33	1002.99	861.19	1281.01	804.13	735.00	822.54	
25	741.66	828.52	850.74	864.42	1206.14	848.83	930.71	1076.18	1185.67	827.36	776.96	696.20	
26	694.90	736.85	848.01	888.48	1145.36	957.57	949.90	894.90	1250.65	800.55	1724.95	801.58	
27	766.22	804.46	899.50	846.92	1053.48	961.85	924.84	1047.78	1220.76	902.47	767.66	1136.93	
28	745.48	760.86	767.48	814.10	1230.28	939.45	1065.98	1092.78	1084.57	884.06	741.19	754.65	
29	795.43		806.07	778.22	1336.47	935.72	1072.58	1238.69	1232.79	1398.14	12.19	804.66	
30	899.44		723.17	762.96	1322.11	990.48	1128.39	1148.95	1200.26	1266.13	746.06	746.02	
31	791.01		760.73		1542.22		984.27	1220.42		1162.55		745.49	
<b>Min</b>	694.90	693.17	681.05	715.84	753.58	848.83	842.04	789.30	970.25	718.25	12.19	696.15	
<b>Mean</b>	773.03	771.55	829.47	820.42	1037.15	1083.14	1015.36	995.75	1226.35	1000.10	838.26	825.34	
<b>Max</b>	899.44	906.36	927.55	918.32	1542.22	1405.89	1221.79	1238.69	1514.34	1466.75	1724.95	1136.93	

**Legend:** '---' Missing Data                      '+' No Day

# MISSISSIPPI MILLS DRINKING WATER SYSTEM / MMills DWS RW Well 8

## Yearly Summary (Flow) 2023

Annual Values and Summary												Units:	cubic meter per day	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	755.16	788.42	727.47	768.72	731.19	1392.45	1021.49	987.12	1279.97	1164.86	138.68	863.13		
2	771.17	753.88	695.74	792.38	760.21	1336.58	877.57	1053.17	1139.64	1157.36	71.36	828.54		
3	842.46	750.05	781.56	802.31	844.18	1246.23	996.25	764.92	1276.50	1185.17	535.11	912.16		
4	867.58	751.98	789.54	728.31	805.12	1250.46	1201.99	806.38	1496.37	1101.89	663.10	802.25		
5	718.43	756.66	802.61	719.45	889.93	1370.15	1001.38	987.93	1334.25	1166.03	153.10	959.10		
6	724.09	873.02	657.52	757.57	841.06	1167.89	1113.52	958.31	1377.35	1138.53	636.30	957.08		
7	848.88	698.18	805.88	854.80	933.40	962.11	1024.39	863.81	1229.54	1100.28	717.97	924.47		
8	817.48	764.86	873.93	822.52	913.59	1125.48	1041.95	937.42	1199.67	1061.63	801.01	748.61		
9	822.01	695.00	866.92	810.22	854.76	911.12	1120.06	1133.31	1271.47	1101.46	620.86	942.95		
10	687.02	719.74	859.34	795.17	880.62	1250.99	1179.05	966.48	1276.24	785.73	760.71	836.08		
11	692.13	719.74	906.07	809.65	931.65	1022.52	998.83	828.91	1106.67	717.81	780.66	821.81		
12	688.61	824.91	853.42	844.37	998.75	1145.00	870.91	828.76	952.23	843.09	781.04	948.69		
13	805.82	816.16	904.06	766.22	936.45	978.88	949.56	890.01	998.66	727.47	722.22	761.85		
14	737.82	752.94	852.37	750.36	997.00	914.39	938.92	977.96	1154.61	719.48	828.60	742.86		
15	721.99	701.91	813.82	764.14	1117.88	891.74	894.66	859.68	1187.87	694.38	719.96	742.57		
16	799.82	885.67	758.25	809.32	1184.55	1046.65	820.85	995.25	1180.76	848.86	739.42	899.41		
17	687.73	776.33	847.43	852.54	1166.58	876.23	1050.32	905.16	1175.21	689.37	744.30	764.39		
18	698.82	735.53	752.42	690.59	1053.85	961.54	1005.90	981.42	885.13	754.04	768.59	812.45		
19	693.83	690.95	875.04	724.50	926.62	1202.42	1052.70	1018.06	1012.15	778.16	795.42	729.46		
20	699.40	721.35	840.72	788.22	777.68	1085.27	986.43	658.82	1091.93	786.63	918.76	797.61		
21	725.58	718.44	822.15	813.95	897.31	1077.90	908.51	1132.92	1272.33	757.67	722.92	810.52		
22	740.32	697.70	804.10	857.76	1059.86	1106.55	947.22	968.05	1188.27	816.29	778.67	799.64		
23	789.29	673.30	757.87	845.46	1170.23	1066.08	970.70	930.56	1120.80	965.02	688.00	954.96		
24	722.70	712.73	806.23	895.02	1153.52	938.33	982.22	835.74	1259.15	778.74	741.54	870.25		
25	720.97	807.10	831.12	753.68	1189.62	823.20	910.12	1044.17	1163.79	789.70	786.93	734.02		
26	674.26	716.38	827.86	868.07	1127.39	929.37	926.16	873.07	1231.63	767.51	790.24	844.30		
27	745.28	783.79	882.70	826.22	1029.17	940.22	903.99	1017.31	1198.81	880.06	777.68	1206.30		
28	725.61	740.30	745.22	790.19	1212.57	914.68	1037.32	1072.16	1062.29	841.01	751.48	796.23		
29	776.93		786.50	754.36	1319.56	915.15	1047.58	1214.37	1210.36	102.98	734.45	849.04		
30	878.33		704.30	739.07	1301.46	969.66	1103.26	1123.38	1177.73	312.42	758.30	790.22		
31	770.01		741.72		1524.20		959.66	1195.47		432.93		790.82		
<b>Min</b>	674.26	673.30	657.52	690.59	731.19	823.20	820.85	658.82	885.13	102.98	71.36	729.46		
<b>Mean</b>	753.21	750.97	805.61	793.17	1017.10	1060.64	994.95	961.62	1183.71	837.63	680.91	846.51		
<b>Max</b>	878.33	885.67	906.07	895.02	1524.20	1392.45	1201.99	1214.37	1496.37	1185.17	918.76	1206.30		

**Legend:** '---' Missing Data      '+' No Day