

# DWCo. LTD

Dufferin Water Co. LTD  
13 Rose Ridge Lane  
Mono On  
L9W 5Y3  
Phone 519 942 5695 Fax 519 940  
3956

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04 February 2024

Township of Mulmur  
RR #2  
Lisle, ON  
L0M 1M0

**Attn: Tracy Atkinson, CAO**

Re: Mansfield Water System – Annual Summary Report for 2023

Dear John:

Attached is the 2023 Summary Report for the Mansfield Water System. This report was prepared by Dufferin Water Co. Ltd on behalf of the Township of Mulmur in accordance with Schedule 22 of O. Reg 170/03 filed under the Safe Drinking Water Act (SDWA).

The summary report is required to be prepared, not later than March 31 of each year for the preceding calendar year and given to the members of the municipal council; please ensure this distribution.

Also attached to this letter is a copy of the 2023 Annual Report for the Mansfield Water Supply System. This report should be made available to the public at the Municipal office and if possible on the township website.

If you have any questions regarding either report please call.

Regards,



Joe Miedema P. Eng.  
General Manager

## **Mansfield Water System Large Municipal Residential Drinking Water System**

### **Schedule 22 Summary Report**

**For the Period:  
January 01, 2023 to December 31, 2023**

**Prepared for the Township of Mulmur  
By Dufferin Water Co. Ltd**

## Introduction

Schedule 22 of O. Reg 170/03 requires the preparation by the water system owner of a “Summary Report for Municipalities.” This requirement only applies to large and small municipal residential systems. The Mansfield Water System is classified as a Large Municipal Residential Drinking Water System.

The Summary Report for the preceding year is to be issued by March 31 of the following year. This report was prepared by Dufferin Water Co. Ltd on behalf of the Township of Mulmur.

Distribution of the Summary Report is the responsibility of the owner. For a municipality that owns the water supply, all members of council are to receive the report. If the water system is owned by a municipal service board established under Section 195 of the Municipal Act, 2001 then all members of that board are to receive the report. Finally, if a water supply provides water to another municipality under contract, then the water supply owner shall, give by March 31 a copy of the Summary Report to the Municipality being supplied.

The contents of the Summary Report for the municipality must include the following:

1. A list of the requirements of the Safe Drinking Water Act and its regulations that the water system failed to meet during the reporting period, including the duration of the failure.
2. A list of the requirements of the water system’s Certificate of Approval that the water system failed to meet during the report period, including the duration of the failure.
3. A list of any Orders that the water system failed to meet during the report time frame, including the duration of the failure.
4. For each of the above failures, a description of the measures taken to correct the failure.
5. A summary of the quantities and flow rates of water supplied “including monthly average, maximum daily flows, and daily instantaneous peak flow rates.” (*Information is to enable the owner to assess the capability of the water system to meet existing and future demand*).
6. A statement that captures the comparison of the flow information to the rated capacity and flow rates stated in the water supply’s approval.

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## Issues of Non-Compliance

The following table lists the requirements of the Act, Regulations, System Approval (s) and any order that the system failed to meet at any time during the reporting period and measures taken to correct each failure:

<b>Drinking Water Legislation</b>	<b>Requirements the system failed to meet</b>	<b>Duration</b>	<b>Corrective Action(s)</b>	<b>Status</b>
Not Applicable				

## Assessment of System Flows and Rates of Water Taking

The following tables list the quantities and flow rates of the water supplied during this reporting period, including monthly average and maximum daily flows, daily instantaneous peak flow rates and a comparison to the rated capacity and flow rates specified in the system approval:

### *Well Number One*

**Approved Daily Volume: 326.88 cubic metres**

**Approved Flow Rate: 227 litres/minute**

Month	Average Daily Volume (m <sup>3</sup> )	Percent Of Approved Volume	Maximum Daily Volume (m <sup>3</sup> )	Percent Of Approved Volume
January	61	19%	110	34%
February	66	20%	139	43%
March	66	20%	163	50%
April	68	21%	119	36%
May	84	26%	171	52%
June	93	28%	198	61%
July	83	25%	144	44%
August	72	22%	135	41%
September	68	21%	166	51%
October	59	18%	93	28%
November	55	17%	82	25%
December	72	22%	103	32%

Flow control is in the form of a pressure reducing valve that is equipped to open and close when the well pump is energized. The valve limits the flow of water from the well and prevents the pump from exceeding the permitted flow rates. Average flow rate when this well is operating is 204 litres per minute.

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## *Well Number Two*

**Approved Daily Volume: 262.08 cubic metres**

**Approved Flow Rate: 182 litres/minute**

Month	Average Daily Volume (m <sup>3</sup> )	Percent Of Approved Volume	Maximum Daily Volume (m <sup>3</sup> )	Percent Of Approved Volume
January	15	6%	50	19%
February	14	5%	26	10%
March	11	4%	25	10%
April	9	4%	26	10%
May	22	8%	55	21%
June	30	11%	52	20%
July	27	10%	45	17%
August	24	9%	43	16%
September	22	8%	53	20%
October	19	7%	27	10%
November	18	7%	44	17%
December	23	9%	34	13%

Flow control is in the form of a pressure reducing valve that is equipped to open and close when the well pump is energized. The valve limits the flow of water from the well and prevents the pump from exceeding the permitted flow rates. Average flow rate when this well is operating is 108 litres per minute

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## **Well Number Three**

**Approved Daily Volume: 362.88 cubic metres**

**Approved Flow Rate: 252 litres/minute**

<b>Month</b>	<b>Average Daily Volume (m<sup>3</sup>)</b>	<b>Percent Of Approved Volume</b>	<b>Maximum Daily Volume (m<sup>3</sup>)</b>	<b>Percent Of Approved Volume</b>
<b>January</b>	1	0%	5	1%
<b>February</b>	0	0%	4	1%
<b>March</b>	0	0%	0	0%
<b>April</b>	0	0%	0	0%
<b>May</b>	0	0%	0	0%
<b>June</b>	0	0%	0	0%
<b>July</b>	0	0%	0	0%
<b>August</b>	0	0%	0	0%
<b>September</b>	0	0%	0	0%
<b>October</b>	0	0%	0	0%
<b>November</b>	0	0%	0	0%
<b>December</b>	0	0%	0	0%

Flow control is in the form of a pressure reducing valve that is equipped to open and close when the well pump is energized. The valve limits the flow of water from the well and prevents the pump from exceeding the permitted flow rates. Average flow rate when this well is operating is 246 litres per minute

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## *Distributed Water*

**Approved Daily Volume: 951.8 cubic metres**  
**Approved Flow Rate: 661 Litres per minute**

Month	Average Daily Volume (m <sup>3</sup> )	Percent Of Approved Volume	Maximum Daily Volume (m <sup>3</sup> )	Percent Of Approved Volume
January	75	8%	111	12%
February	79	8%	167	18%
March	78	8%	174	18%
April	78	8%	128	13%
May	107	11%	231	24%
June	124	13%	217	23%
July	111	12%	184	19%
August	94	10%	162	17%
September	92	10%	212	22%
October	78	8%	117	12%
November	75	8%	97	10%
December	100	11%	145	15%

Flow control is in the form of a pressure reducing valve located on the discharge side of each pressure pump. These valves limit the flow of treated water and prevents the distribution flow rate from exceeding the permitted flow rates. Average flow rate when pumps are operating is 330 litres per minute.