

DWCo. LTD

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

28 February 2024

Township of Amaranth
374028 6th Line
Laurel, ON
L0N 1L0

Attn: Nicole Martin, CAO/Clerk

Re: Waldemar Heights Water Supply System - Summary Report for 2023

Dear Susan:

Attached is the 2022 Summary Report for the Waldemar Heights Water Supply System. This report was prepared by Dufferin Water Co. Ltd on behalf of the Township of Amaranth 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.

If you have any questions please call.

Regards,



Joe Miedema P. Eng.
General Manager

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Waldemar Heights Water Supply 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 Amaranth
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 Waldemar Heights Water Supply 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 Amaranth.

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 permit 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*).

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:

| Drinking Water Legislation | Requirements the system failed to meet | Duration | Corrective Action(s) | Status |
|--|---|-----------------|-----------------------------|---------------|
| No noted issues of non-compliance during last inspection period. | | | | |

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Assessment of System Flows and Rates of Water Taking

The following table lists 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: 491 cubic metres

Approved Flow Rate: 341 L/minute

| Month | Average Daily Volume (m ³) | Percent Of Approved Volume | Maximum Daily Volume (m ³) | Percent Of Approved Volume |
|-----------|--|----------------------------|--|----------------------------|
| January | 30.2 | 6% | 58 | 12% |
| February | 30.0 | 6% | 59 | 12% |
| March | 52.1 | 11% | 104 | 21% |
| April | 66.3 | 14% | 116 | 24% |
| May | 95.3 | 19% | 201 | 41% |
| June | 95.9 | 20% | 266 | 54% |
| July | 56.1 | 11% | 163 | 33% |
| August | 42.8 | 9% | 136 | 28% |
| September | 39.9 | 8% | 94 | 19% |
| October | 67.4 | 14% | 349 | 71% |
| November | 42.1 | 9% | 79 | 16% |
| December | 38.8 | 8% | 111 | 23% |

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. Instantaneous flow during operation of this well is 312 Litres per minute

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Well Number Two

Approved Daily Volume: 393 cubic metres

Approved Flow Rate: 273 L/minute

| Month | Average Daily Volume (m ³) | Percent Of Approved Volume | Maximum Daily Volume (m ³) | Percent Of Approved Volume |
|-----------|--|----------------------------|--|----------------------------|
| January | 0.2 | 0% | 2 | 1% |
| February | 0.0 | 0% | 0 | 0% |
| March | 0.0 | 0% | 0 | 0% |
| April | 0.0 | 0% | 0 | 0% |
| May | 0.0 | 0% | 0 | 0% |
| June | 0.0 | 0% | 0 | 0% |
| July | 0.0 | 0% | 0 | 0% |
| August | 0.0 | 0% | 0 | 0% |
| September | 0.0 | 0% | 0 | 0% |
| October | 0.0 | 0% | 0 | 0% |
| November | 0.0 | 0% | 0 | 0% |
| December | 0.0 | 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. Instantaneous flow during operation of this well is 235 Litres per minute

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Well Number Three

Approved Daily Volume: 457.92 cubic metres

Approved Flow Rate: 318 litres/minute

| Month | Average Daily Volume (m³) | Percent Of Approved Volume | Maximum Daily Volume (m³) | Percent Of Approved Volume |
|------------------|---|-----------------------------------|---|-----------------------------------|
| January | 30.7 | 7% | 64 | 14% |
| February | 31.6 | 7% | 60 | 13% |
| March | 8.8 | 2% | 59 | 13% |
| April | 0.3 | 0% | 6 | 1% |
| May | 0.5 | 0% | 10 | 2% |
| June | 56.9 | 12% | 261 | 57% |
| July | 46.5 | 10% | 76 | 17% |
| August | 38.4 | 8% | 69 | 15% |
| September | 44.3 | 10% | 125 | 27% |
| October | 53.5 | 12% | 217 | 47% |
| November | 33.9 | 7% | 65 | 14% |
| December | 36.1 | 8% | 100 | 22% |

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. Instantaneous flow during operation of this well is 305 Litres per minute

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Treated Water to Distribution

Approved Daily Volume: 1342 cubic metres

Approved Flow Rate: 932 litres/minute

| Month | Average Daily Volume (m³) | Percent Of Approved Volume | Maximum Daily Volume (m³) | Percent Of Approved Volume |
|------------------|---|-----------------------------------|---|-----------------------------------|
| January | 60.2 | 4% | 91 | 7% |
| February | 60.6 | 5% | 106 | 8% |
| March | 55.2 | 4% | 90 | 7% |
| April | 59.5 | 4% | 82 | 6% |
| May | 91.5 | 7% | 198 | 15% |
| June | 146.1 | 11% | 263 | 20% |
| July | 98.2 | 7% | 156 | 12% |
| August | 75.9 | 6% | 111 | 8% |
| September | 78.7 | 6% | 126 | 9% |
| October | 108.7 | 8% | 479 | 36% |
| November | 65.8 | 5% | 119 | 9% |
| December | 70.6 | 5% | 241 | 18% |

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 prevent the distribution flow rate from exceeding the permitted flow rates. Average flow rate when pumps are operating is 120 litres per minute.