

# DWCo. LTD

Dufferin Water Co. LTD  
13 Rose Ridge Lane  
RR 5 Orangeville On  
L9W 2Z2  
Phone 519 942 5695 Fax 519 940 3956

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31 January 2011

Township of Amaranth  
RR #7  
Orangeville, ON  
L9W 2Z3

**Attn: Susan Stone, CAO**

Re: Waldemar Heights Water Supply System – Annual Summary Report for 2010

Dear Susan:

Attached is the 2010 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.

Also attached to this letter is a copy of the 2010 Annual Report for the Waldemar Heights Water Supply System. The report was prepared by Dufferin Water Co. Ltd on behalf of the Township of Amaranth and submitted to the Ministry of the Environment (MOE) as required by Section 11 of O. Reg 170/03. This report is required to be submitted to the MOE no later than February 28 of each year.

Section 12 of O. Reg 170/03 requires both the Summary Report and Annual Report to be made available for inspection by any member of the public during normal business hours, without charge. These reports should be made available for inspection at the office of the municipality or at a location that is reasonably convenient to the users of the water system.

If you have any questions regarding either report 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, 2010 to December 31, 2010**

**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 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*).

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>
No noted issues of non-compliance				

## 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 <sup>3</sup> )	Percent Of Approved Volume	Maximum Daily Volume (m <sup>3</sup> )	Percent Of Approved Volume	Peak Flow Rate (L/min)	Percent Of Approved Flow Rate
January	44.8	9	110	22	76	22
February	47.6	10	125	25	87	25
March	44.5	9	125	25	87	25
April	49.5	10	101	21	70	21
May	86.9	18	256	52	178	52
June	15.3	3	163	33	113	33
July	58.3	12	120	24	83	24
August	52.9	11	102	21	71	21
September	32.1	7	87	18	60	18
October	36.6	7	89	18	62	18
November	37.4	8	78	16	54	16
December	38.0	8	79	16	55	16

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.

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## *Well Number Two*

**Approved Daily Volume: 393 cubic metres**

**Approved Flow Rate: 273 L/minute**

Month	Average Daily Volume (m <sup>3</sup> )	Percent Of Approved Volume	Maximum Daily Volume (m <sup>3</sup> )	Percent Of Approved Volume	Peak Flow Rate (L/min)	Percent Of Approved Flow Rate
January	34.8	9	101	26	70	26
February	29.9	8	94	24	65	24
March	32.2	8	97	25	67	25
April	33.2	8	118	30	82	30
May	39	10	294	75	204	75
June	101.4	26	214	54	149	54
July	78.2	20	299	76	208	76
August	68.5	17	188	48	131	48
September	52.7	13	135	34	94	34
October	43.8	11	105	27	73	27
November	37.1	9	94	24	65	24
December	43.6	11	113	29	78	29

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.

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## *Well Number Three*

**Approved Daily Volume: 457.92 cubic metres**

**Approved Flow Rate: 318 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	Peak Flow Rate (L/min)	Percent Of Approved Flow Rate
January	In Reserve					
February						
March						
April						
May	8.2	2	238	52	165	52
June	In Reserve					
July						
August						
September						
October						
November						
December						

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.