

# SUMMARY REPORT

ONTARIO REGULATION 170/03  
SECTION 22

## BAXTER DISTRIBUTION SYSTEM



FOR THE PERIOD:  
JANUARY 1, 2022 – DECEMBER 31, 2022

*Prepared for the Corporation of the Township of Essa  
by the Ontario Clean Water Agency*

This report was prepared in accordance with the requirements of [O.Reg 170/03, Schedule 22, Summary Reports for Municipalities](#) for the following system and reporting period:

<b>Drinking-Water System Number:</b>	220004064
<b>Drinking-Water System Name:</b>	Baxter Distribution System
<b>Drinking-Water System Owner:</b>	The Corporation of the Township of Essa
<b>Drinking-Water System Category:</b>	Small Municipal Residential
<b>Period being reported:</b>	January 1, 2022 – December 31, 2022

## 1. Issue(s) of Non-Compliance

A Ministry of Environment, Conservation and Parks (MECP) Drinking Water System Inspection was conducted on May 10, 2022 for the period covering July 1, 2021 to May 10, 2022. On September 13, 2022 the Inspection Report was issued and an Inspection Summary Rating Record (IRR) of 100% was received.

The following is a summary of non-compliances noted in the MECP Inspection Report, as well as the duration and the measures that were taken to correct the non-compliance. If any self-reported non-compliances were included in the inspection report, they will be noted in Table 1.

**Table 1. Non-Compliances and Corrective Actions noted in the 2021/2022 MECP Inspection Report**

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
N/A	N/A	N/A

The following table (Table 2) is a summary of any incidents that the Operating Authority interpreted as instances where any requirements of the Act, the regulations, the system's approval, drinking water works permit (DWWP), municipal drinking water licence (MDWL), and any orders applicable were not met. The Operating Authority reported the following incidents to the MECP and confirmation of whether the incidents are considered non-compliances are noted in the MECP Inspection Report and included in Table 1.

**Table 2. Self-Reported Incidents and Corrective Actions for the Reporting Period**

Incident	Duration	Corrective Actions
N/A	N/A	N/A

For information on any Adverse Water Quality Incident(s) that may have occurred during the reporting period, please refer to the Baxter Distribution System Annual Report (Section 11).

## 2. Assessment of Flowrates and Quantity of Water Supplied

In 2017, Baxter Drinking Water System became a stand-alone distribution system receiving treated water from the Raymond A. Ultrafiltration Plant owned by the Town of Collingwood. Treated water is transported via a water transmission main (pipeline) that stretches from the Town of Collingwood to Alliston, in the Township of New Tecumseth. The Township of Essa has an agreement with the Township of New Tecumseth to receive 100 m<sup>3</sup>/day from the pipeline. Since treated water is supplied to the distribution system, Baxter DS does not have a Permit to Take Water as it does not draw from a raw water source.

The following tables (Table 3 and 4) summarize the quantities and flowrates of water received from the New Tecumseth Pipeline and then supplied to the Baxter Distribution System during the reporting period, including average and maximum day volumes as well as a comparison to the allowable takings approved in the system's approval, DWWP or MDWL.

### 2.1 Treated Water

<b>Municipal Drinking Water License (MDWL):</b>	118-102 (Issue Number: 4)
<b>Allowable Rated Capacity:</b>	Not Applicable
<b>Allowable Flowrate into Treatment System:</b>	Not Applicable

The applicable MDWL does not contain an allowable rated capacity or allowable flowrate into the treatment system. Rated capacity is assessed based on the contractual agreement between the Township of Essa and the Township of New Tecumseth, which stipulates that the Baxter Distribution System may take up to 100 m<sup>3</sup>/day of treated water from the transmission pipeline.

**Table 3. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to the New Tecumseth Pipeline Allowable Daily Takings and Total Volume for 2022**

Timeframe	Average Daily Takings (m <sup>3</sup> /day)	Maximum Daily Takings (m <sup>3</sup> /day)	Total Volume Taken (m <sup>3</sup> )
January	27.1	39.3	839.4
February	26.1	31.6	731.6
March	26.7	42.2	826.5
April	28.7	58.0	862.2
May	43.1	77.4	1,336.3
June	38.6	97.5	1,159.2
July	37.0	60.1	1,145.9
August	38.0	58.1	1,178.0
September	30.8	48.3	922.9
October	27.2	37.3	842.8
November	26.5	32.3	796.1

Timeframe	Average Daily Takings (m <sup>3</sup> /day)	Maximum Daily Takings (m <sup>3</sup> /day)	Total Volume Taken (m <sup>3</sup> )
December	26.6	35.1	823.6
<b>2022</b>	<b>31.4</b>	<b>97.50</b>	<b>11,464.5</b>

A review of flow information for the reporting period indicates that the Baxter distribution system operated within the allowable taking volume (100 m<sup>3</sup>/day) stipulated in the contract between the Township of Essa and the Township of New Tecumseth. During the reporting period the average and maximum daily taking values from the transmission pipeline ranged between 31.6% and 97.5%, of the allowable daily flow.

## 2.2 Distribution Water

**Table 4. Distribution Water Annual and Monthly Average and Total Flow for 2022**

2022 Flow from the Baxter Pumphouse to the Distribution System		
Timeframe	Average Daily Flow (m <sup>3</sup> /day)	Total Flow (m <sup>3</sup> /day)
January	23.7	735.0
February	23.2	649.0
March	23.8	737.0
April	26.3	790.0
May	40.6	1,258.0
June	35.3	1,060.0
July	35.0	1,085.0
August	34.6	1,072.0
September	28.2	845.0
October	24.2	750.0
November	23.5	705.0
December	23.2	720.0
<b>2022</b>	<b>28.5</b>	<b>10,406.00</b>

The applicable MDWL and contract do not list a maximum allowable limit for flow or flowrate of water that flows into the distribution system.