



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

WALTER'S FALLS
DRINKING WATER SYSTEM

Small Municipal Residential

SCHEDULE 22
SUMMARY REPORT

For the period of
JANUARY 1, 2019 TO DECEMBER 31, 2019

Prepared by the Ontario Clean Water Agency
For The Corporation of the Township of Chatsworth

Summary

This report is a summary of water quality and quantity information submitted in accordance with Schedule 22 of Ontario's Drinking Water System Regulation for the reporting period of January 1, 2019 to December 31, 2019 for the Walter's Falls Drinking Water System (DWS) located in the Township of Chatsworth. The summary includes the following information:

- Any requirements of the Act and Regulation, Orders or System Approval(s) that the system failed to meet during the reporting period and the measures taken to correct each failure.
- A summary of the quantities and flow rates of water supplied during the reporting period, including monthly averages and maximum daily flows.
- A comparison of the average and monthly maximum daily flows to the approved capacity specified in the System Approval.

Issues of Non-Compliance

A Ministry of Environment, Conservation & Parks (MECP) Drinking Water System Inspection was performed on July 22, 2019 for the period of July 9, 2018 to July 22, 2019. On January 8, 2020 the report for the inspection was issued, the Walter's Falls DWS received a total of four (4) non-compliances and an inspection rating of 86.38%. One (1) of the four (4) non-compliances has been appealed and is currently under review by the MECP.

The following is a summary of the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water license, and any orders applicable to the system that were not met at any time during the period covered by the report; as well as the duration of the failure and the measures that were taken to correct the failure:

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
2. The primary disinfection equipment was not equipped with alarms or shut-off mechanisms that satisfied the standards described in Section 1-6 (1) of Schedule 1 of Ontario Regulation 170/03.	2019/2020 inspection report period	Required Actions: <ul style="list-style-type: none"> • By March 17, 2020, the owner will provide the author of this report documentation that the raw water flow rate has an alarm to ensure proper primary disinfection as per O. Reg. 170(03 Schedule 1-6. Corrective Actions: <ul style="list-style-type: none"> • Raw water flowrate alarm was set on February 18, 2020 and notification provided to the MECP Inspector on February 18, 2020
3. The secondary disinfectant residual was not measured as required for the distribution system.	2019/2020 inspection report period	Required Actions: <p>The Operating Authority proactively notified the Ministry of the July 2019 occurrence and have undertaken corrective actions to ensure compliance with O. Reg. 170/03 7-2(5)&(6). Staff have received training on this regulatory requirement and the check sheets will remain at the water treatment plant at all times. No further action is required.</p> Corrective Actions: <ul style="list-style-type: none"> • No further action required.
4. The operations and maintenance manuals did not meet the requirements of the Drinking Water Works Permit and Municipal Drinking Water Licence issued under Part V of the SDWA.	2019/2020 inspection report period	Required Actions: <ul style="list-style-type: none"> • By March 17, 2020* the Operating Authority will submit to the author of this report a revised Walter's Falls DWS Operating and Instruction Manual to meet all requirements of Municipal Drinking Water Licence # 241-101, Issue 3, Schedule B, Condition 16.0.

*Note: The MECP will be amending the compliance dates for the inspection report once their internal review of the appeal is completed.

The following non-compliance has been appealed and is currently under review by the MECP:

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
1. The owner was not maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials.	2019/2020 inspection report period	Required Actions: <ul style="list-style-type: none"> • A) By March 3, 2020*, the owner shall provide the author of this report a statement or report prepared by a professional engineer or geoscientist that provides an assessment of the risk of surface water and other contaminants migrating along the casing of Well 1 and subsequently into the aquifer. • B) By March 17, 2020*, the owner shall provide the author of this report a plan to address any identified risk(s) of surface water and other contaminants migrating along the casing of Well 1 and subsequently into the aquifer.

*Note: The MECP will be amending the compliance dates for the inspection report once their internal review of the appeal is completed.

A summary of the grounds for the appeal is as follows:

- The MECP Hydrogeologist recommended that the owner retain services to assess the well situation and provide recommendations for actions/repairs if deemed appropriate.
- A review of raw water bacteriological data from years previous to July 9, 2018 compared to the results from the inspection period (July 9, 2018 to July 22, 2019) do not demonstrate results that are significantly different from previous years when the inspections deemed that the production well was being sufficiently maintained.
- The manner in which the well has and is being maintained, which has been acceptable in several previous inspections, has not changed.
- There were no instances of any bacteriological results greater than 0 cfu/100 mL for distribution water (no Adverse Water Quality Incidents - AWQIs) during the inspection period, and there were no statements from the inspector or Hydrogeologist regarding any instances of ponding or observations that the well was not being maintained properly.

Refer to the Section 11 Annual Report for a summary of any Adverse Water Quality Incident(s) which occurred during the reporting period.

Assessment of Flowrates and Quantity of Water Supplied

The following table summarizes the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows as well as a comparison of the summary to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water license.

As per Municipal Drinking Water License (MDWL) 241-101 (Issue Number: 3, expires November 19, 2020), the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed a rated capacity of 655.2 m³/day.

Table 1. Treated Water Monthly Average and Maximum Daily Flows and Comparison to Rated Capacity for 2019

2019	Treated Water Flow			
	Average Flow (m ³ /day)	Percent of Rated Capacity <small>(MDWL Rated Capacity 655.2 m³/day)</small>	Maximum Flow (m ³ /day)	Percent of Rated Capacity <small>(MDWL Rated Capacity 655.2 m³/day)</small>
January	13.4	2.0%	25.0	3.8%
February	15.4	2.4%	31.0	4.7%
March	21.0	3.2%	31.0	4.7%
April	26.6	4.1%	50.0	7.6%
May	26.6	4.1%	62.0	9.5%
June	32.3	4.9%	61.3	9.4%
July	38.9	5.9%	73.0	11.1%
August	33.7	5.1%	50.0	7.6%
September	28.4	4.3%	43.0	6.6%
October	28.8	4.4%	51.0	7.8%
November	30.9	4.7%	80.8	12.3%
December	25.4	3.9%	34.4	5.3%

Please refer to Appendix A for the raw water flow and flow rate data for Well 1 and Well 2.

Appendix A

Walter's Falls Drinking Water System

Water taking permitted as per PTTW #2581-8C4JRW

Flow & Flowrates for Well 1 & 2

Facility Flow Summary

Drinking-Water System Number: 220007034
 Drinking-Water System Name: WALTER'S FALLS DRINKING WATER SYSTEM
 Drinking-Water System Owner: Title Holder: Corporation/Company
 Drinking-Water System Category: Small Municipal Residential
 Municipal Drinking Water License: 241-101
 Period being reported: 01/2019 12/2019

Raw Water

Raw Water (Source Name) Well 1
Source Type: Drilled
Drinking Water Permit to Take Water No: 2581-8C4JRW

Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	576.00	18.58	30.00	7.12
Feb	542.50	19.38	30.00	7.14
Mar	639.40	20.63	29.00	7.24
Apr	741.00	24.70	40.00	8.15
May	758.90	24.48	41.00	9.94
Jun	822.00	27.40	40.00	7.04
Jul	964.00	31.10	51.70	6.96
Aug	886.80	28.61	40.30	6.94
Sep	750.30	25.01	40.00	6.93
Oct	770.00	24.84	40.00	6.92
Nov	790.00	26.33	51.30	6.93
Dec	755.00	24.35	28.50	9.15
Total	8995.90	295.40	461.80	90.44
Avg	749.66	24.62	38.48	7.54
Max	964.00	31.10	51.70	9.94
Criteria			818.20	

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 Drinking-Water System Owner: Title Holder: Corporation/Company
 Drinking-Water System Category: Small Municipal Residential
 Municipal Drinking Water License: 241-101
 Period being reported: 01/2019 12/2019

Raw Water

Raw Water (Source Name) Well 2
Source Type: Drilled
Drinking Water Permit to Take Water No: 2581-8C4JRW

Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	8.10	0.26	5.00	7.12
Feb	5.30	0.20	3.00	7.02
Mar	7.00	0.23	4.00	7.06
Apr	5.00	0.17	3.00	7.02
May	13.90	0.46	8.00	7.00
Jun	15.00	0.50	8.00	7.04
Jul	12.00	0.39	6.00	6.96
Aug	13.00	0.42	10.00	6.91
Sep	9.00	0.30	5.00	6.93
Oct	10.60	0.34	5.50	6.87
Nov	5.60	0.19	3.10	6.86
Dec	7.40	0.24	3.80	6.78
Total	111.90	3.69	64.40	83.55
Avg	9.33	0.31	5.37	6.96
Max	15.00	0.50	10.00	7.12
Criteria				