

SUMMARY REPORT

ONTARIO REGULATION 170/03
SCHEDULE 22

DRAYTON DRINKING WATER SYSTEM

FOR THE PERIOD:
JANUARY 1, 2019 – DECEMBER 31, 2019

*Prepared for the Township of Mapleton
by the Ontario Clean Water Agency*



ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

SUMMARY REPORTS FOR MUNICIPALITIES

Period from: JANUARY 01, 2019 – DECEMBER 31, 2019

DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22

DRINKING-WATER SYSTEM NAME:	DRAYTON DRINKING WATER SYSTEM
DRINKING-WATER SYSTEM NUMBER:	220004064
DRINKING-WATER SYSTEM CATEGORY:	LARGE MUNICIPAL RESIDENTIAL
DRINKING-WATER WORKS PERMIT #:	105-201, Issue #4 - January 5, 2017
MUNICIPAL DRINKING WATER LICENCE #:	105-101, Issue #2 - November 23, 2015
PERMIT TO TAKE WATER #:	0758-98MLKT

REPORT:

This report is a summary of water quality information for the Drayton Water Supply, published in accordance with Schedule 22 of Ontario's Drinking-Water System Regulation 170/03 for the reporting period of **January 1, 2019 to December 31, 2019**.

This report was prepared by the Ontario Clean Water Agency on behalf of the Township of Mapleton.

Issues of Non-Compliance

The following outlines any instances when the DWS failed to meet the requirements of the Act, Regulations, System Approval(s) and any Order during this reporting period and the measures taken to correct each failure.

There were no instances of non-compliance this reporting year.

The Drayton Drinking Water System was last inspected by the Ministry of the Environment, Conservation, and Parks on May 15, 2019.

Please refer to the Section 11 Annual Report for the Drayton Drinking Water System for information regarding Adverse Water Quality Incident(s) which may have occurred during the reporting period.

SUMMARY REPORTS FOR MUNICIPALITIES

Period from: JANUARY 01, 2019 – DECEMBER 31, 2019

DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22

SYSTEM PERFORMANCE:

The following tables list the quantities and flow rates of the water supplied during the reporting period covered by this report, including each raw water well and the treated water system. It includes the monthly average, maximum daily flows and a comparison to the rated capacity and flow rates specified in the system approval.

Drayton Well Supply	Well #1	Well #2	Total Raw	Treated
Design Capacity (m ³ /day)	1964.16	1964.16	3928.32	3928.0
Approved Maximum Flow Rate (L/s)	22.73	22.73	-	-
Average Day Flow (m ³ /day)	340.75	347.55	-	410.67
Maximum Day Flow (m ³ /day)	682.01	559.12	-	1060.71
% Average Day Flow/Design Capacity	17.35%	17.69%	-	10.45%
% Maximum Day Flow/Design Capacity	34.72%	28.47%	-	27.00%
Average Peak Flow Rate (L/s)	20.91	19.18	-	-
Maximum Peak Flow Rate (L/s)	21.60	19.60	-	-
% Average Peak Flow Rate/Approved	91.99%	84.38%	-	-
% Maximum Peak Flow Rate/Approved	95.03%	86.23%	-	-

A review of flow information for the period of January 1, 2019 to December 31, 2019 indicates that:

- The maximum daily volume specified in the PTTW was not exceeded on any well.
- The drinking water system did not exceed the rated capacity for the maximum treated volume of treated water that flows from the treatment subsystem to the distribution system as specified in the MDWL.

Treated				
Month	Monthly Flow Total (m³/month)	Daily Flow Average (m³/day)	Daily Flow Maximum (m³/day)	Max Percent Rated Capacity (%)
January	11402.94	367.84	436.39	11.11
February	9947.74	355.28	406.02	10.34
March	12036.44	388.27	466.14	11.87
April	11047.06	368.24	497.48	12.66
May	11658.54	376.08	470.04	11.97
June	13543.49	451.45	638.32	16.25
July	14934.46	481.76	546.42	13.91

SUMMARY REPORTS FOR MUNICIPALITIES

Period from: JANUARY 01, 2019 – DECEMBER 31, 2019

DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22

August	13577.20	437.97	521.03	13.26
September	12618.14	420.60	534.39	13.60
October	12762.45	411.69	676.01	17.21
November	13889.53	463.32	1060.71	27.00
December	12466.78	402.15	455.22	11.59
Total	149894.80			
Avg		410.67		
Max			1060.71	27.00

The following tables outline the detailed flow summary for each Raw Water Well:

Table 3: Facility Flow Summary for Raw Water Source W1						
Well #1						
Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Max Percent Water Taking Limits (%)	Daily Flow Peak Flow Rate (L/sec)	Number of Days of Water Taking
January	647.38	107.90	371.29	18.90	21.00	6
February	8176.89	327.08	402.87	20.51	20.50	25
March	267.97	44.66	219.42	11.17	21.60	6
April	10024.77	358.03	490.23	24.96	20.70	28
May	3296.51	253.58	455.25	23.18	21.00	13
June	2418.00	268.67	502.27	25.57	21.20	9
July	13637.42	454.58	537.84	27.38	20.80	30
August	4258.04	304.15	519.41	26.44	21.30	14
September	12516.17	417.21	537.60	27.37	20.50	30
October	381.33	47.67	195.11	9.93	20.50	8
November	11309.87	434.99	682.10	34.73	20.80	26
December	4282.39	305.88	444.28	22.62	21.10	14
Total	71216.74					209
Avg		340.75			20.91	
Max			682.01	34.73	21.60	

SUMMARY REPORTS FOR MUNICIPALITIES

Period from: JANUARY 01, 2019 – DECEMBER 31, 2019

DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22

Table 4: Facility Flow Summary for Raw Water Source W2						
Well #2						
Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Max Percent Water Taking Limits (%)	Daily Flow Peak Flow Rate (L/sec)	Number of Days of Water Taking
January	10986.57	366.22	446.25	22.72	19.20	30
February	1918.03	191.80	418.54	21.31	19.20	10
March	12104.16	390.46	470.29	23.94	19.20	31
April	985.66	164.28	421.23	21.45	19.20	6
May	8516.35	340.65	466.93	23.77	19.60	25
June	11439.56	423.69	559.12	28.47	19.30	27
July	1258.91	157.36	536.60	27.32	19.30	8
August	9554.17	415.40	533.45	27.16	19.10	23
September	36.33	7.27	10.45	0.53	19.00	5
October	12684.53	409.18	505.58	25.74	19.20	31
November	2185.52	218.55	439.53	22.38	19.00	10
December	8265.69	344.40	466.40	23.75	18.80	24
Total	79935.48					230
Avg		347.55			19.18	
Max			559.12	28.47	19.60	