

**Moose Creek Drinking Water System**  
**O. Reg 170/03 Schedule 22 - Summary Report for Municipalities**

This report is a summary of water quality information for the Moose Creek Water Treatment and Distribution System, published in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation (O. Reg. 170/03) for the reporting period of January 1, 2016 to December 31, 2016. Moose Creek's Drinking Water System is categorized as a Large Municipal Residential Drinking Water System.

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

**Who gets a copy of the Report:**

- In the case of a drinking-water system owned by a municipality, the members of the municipal council;
- In the case of a drinking-water system owned by a municipal service board established under section 195 of the Municipal Act, 2001, the members of the municipal service board; or
- In the case of a drinking-water system owned by a corporation, the board of directors of the corporation.

**What must the Report contain?**

The report must:

- (a) List the requirements of the Act, the regulations, the system's approval and any order that the system failed to meet at any time during the period covered by the report and specify the duration of the failure; and
- (b) for each failure referred to in clause (a), describe the measures that were taken to correct the failure.

The following table lists the requirements that the system failed to meet and the measures taken to correct the failure:

<b>Drinking Water Legislation</b>	<b>List the requirement(s) the system failed to meet</b>	<b>Specify the duration of the failure (i.e. date(s))</b>	<b>Describe the measures taken to correct the failure</b>	<b>Status (complete or outstanding)</b>
Safe Drinking Water Act	n/a			
Ontario Regulations	n/a			
Permit to Take Water # 4000-9YGLJP	n/a			
Drinking Water Works Permit # 182-203	n/a			
Municipal Drinking Water Licence # 182-103	n/a			
Provincial Officer's Order	n/a			

### **What else must the Report contain?**

The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

- a) A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows and daily instantaneous peak flow rates.
- b) A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval.

Attached please find the 2016 Performance Assessment Report and 2016 Annual Records of Water Taking for Moose Creek's Drinking Water System, which contain all required flow information.

### **When does the Report get submitted?**

If a report is prepared for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31, 2017.

## ONTARIO CLEAN WATER AGENCY WATER PLANT PERFORMANCE ASSESSMENT REPORT

MUNICIPALITY: TOWNSHIP OF NORTH STORMONT  
 PROJECT: MOOSE CREEK WTP  
 ORG. NUM.: 6608  
 WORKS NUM.: 220008033  
 DESCRIPTION: 3 WELL PUMPING SYSTEM C/W ELEVATED STORAGE  
DISINFECTION IS WITH SODIUM HYPOCHLORITE

YEAR: 2016  
 WATER SOURCE: GROUNDWATER  
 DESIGN CAPACITY: 896 m<sup>3</sup>/d

MONTH	SYSTEM FLOWS (TREATED)			TREATED		DISTRIBUTION		BACTI (INDICATE NO. OF SAMPLES)				RAW WATER	
	TOTAL FLOW (m <sup>3</sup> )	AVG DAY FLOW (m <sup>3</sup> )	MAX DAY FLOW (m <sup>3</sup> )	MIN FREE CL <sub>2</sub> RESID. (mg/L)	MAX FREE CL <sub>2</sub> RESID. (mg/L)	MIN FREE CL <sub>2</sub> RESID. (mg/L)	MAX FREE CL <sub>2</sub> RESID. (mg/L)	<i>E.coli</i> , TC, HPC				<i>E. coli</i>	
								Safe		Adverse			
								TREAT	DIST	TREAT	DIST	ABSENT	PRESENT
JAN	3,816	123	151	1.42	2.71	0.80	2.14	12	20	0	0	12	0
FEB	3,494	120	256	1.35	2.54	0.87	3.11	15	25	0	0	15	0
MAR	3,668	118	165	1.41	2.39	0.78	1.60	12	20	0	0	12	0
APR	3,974	132	443	1.36	2.34	0.86	1.39	12	20	0	0	12	0
MAY	5,717	184	327	1.29	2.15	0.71	1.84	15	25	0	0	15	0
JUN	6,274	209	350	1.25	2.68	1.00	2.16	12	20	0	0	12	0
JUL	6,190	200	436	1.34	3.81	1.18	2.08	12	20	0	0	12	0
AUG	6,075	196	313	0.68	2.95	1.44	2.44	15	25	0	0	15	0
SEP	4,076	136	203	1.03	3.61	0.87	1.98	12	20	0	0	12	0
OCT	4,842	156	382	1.44	4.58	0.75	1.60	15	25	0	0	15	0
NOV	4,079	136	196	0.90	2.97	0.84	1.71	12	20	0	0	12	0
DEC	4,776	154	219	1.34	3.22	0.54	1.66	12	20	0	0	12	0
TOTAL	56,981							156	260	0	0	156	0
AVG		155											
MIN				0.68		0.54							
MAX			443		4.58		3.11						
CRITERIA			<b>896</b>	<b>CT=0.32</b>		0.05	<b>4.00</b>						

COMMENTS: MAX. DAY FLOWS INCLUDE FIRE HYDRANT FLUSHING (SPRING & FALL)

## Facility Flow Summary

Drinking-Water System Number: 220008033  
 Drinking-Water System Name: MOOSE CREEK DRINKING WATER SYSTEM  
 Drinking-Water System Owner: Title Holder: Municipality  
 Drinking-Water System Category: Large Municipal Residential  
 Municipal Drinking Water License: 182-103  
 Period being reported: January 1 - December 31, 2016

### Raw Water

Raw Water (Source Name) Raw Well #1  
 Source Type: Drilled  
 Drinking Water Permit to Take Water No: 4000-9YGLJP

Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	2400.00	77.42	97.00	5.44
Feb	2208.00	76.14	164.00	5.48
Mar	2318.00	74.77	103.00	5.48
Apr	2496.00	83.20	277.00	5.46
May	3462.00	111.68	206.00	5.26
Jun	3914.00	130.47	222.00	5.24
Jul	3844.00	124.00	273.00	5.13
Aug	3750.00	120.97	192.00	5.04
Sep	2523.00	84.10	127.00	5.11
Oct	3026.00	97.61	238.00	5.19
Nov	2524.00	84.13	122.00	5.33
Dec	2990.00	96.45	141.00	5.29
<b>Total</b>	35455.00			
<b>Avg</b>	2954.58	96.75		
<b>Max</b>	3914.00		277.00	5.48
<b>Criteria</b>			650.00	7.43

## Facility Flow Summary

Drinking-Water System Number: 220008033  
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 Drinking-Water System Owner: Title Holder: Municipality  
 Drinking-Water System Category: Large Municipal Residential  
 Municipal Drinking Water License: 182-103  
 Period being reported: January 1 - December 31, 2016

### Raw Water

Raw Water (Source Name) Raw Well #2  
 Source Type: Drilled  
 Drinking Water Permit to Take Water No: 4000-9YGLJP

Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	644.00	20.77	53.00	3.15
Feb	611.00	21.07	98.00	3.14
Mar	712.00	22.97	61.00	3.14
Apr	874.00	29.13	171.00	3.14
May	1179.00	38.03	129.00	3.13
Jun	1653.00	55.10	139.00	3.10
Jul	1260.00	40.65	124.00	3.09
Aug	1594.00	51.42	121.00	3.07
Sep	1038.00	34.60	80.00	3.07
Oct	1193.00	38.48	115.00	3.09
Nov	837.00	27.90	74.00	3.11
Dec	891.00	28.74	79.00	3.11
<b>Total</b>	12486.00			
<b>Avg</b>	1040.50	34.07		
<b>Max</b>	1653.00		171.00	3.15
<b>Criteria</b>			298.00	3.45

## Facility Flow Summary

Drinking-Water System Number: 220008033  
 Drinking-Water System Name: MOOSE CREEK DRINKING WATER SYSTEM  
 Drinking-Water System Owner: Title Holder: Municipality  
 Drinking-Water System Category: Large Municipal Residential  
 Municipal Drinking Water License: 182-103  
 Period being reported: January 1 - December 31, 2016

### Raw Water

Raw Water (Source Name) Raw Well #3  
 Source Type: Drilled  
 Drinking Water Permit to Take Water No: 4000-9YGLJP

Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	796.00	25.68	58.00	3.38
Feb	704.00	24.28	57.00	3.40
Mar	658.00	21.23	54.00	3.40
Apr	629.00	20.97	64.00	3.40
May	958.00	30.90	124.00	3.39
Jun	756.00	25.20	85.00	3.37
Jul	1138.00	36.71	171.00	3.35
Aug	780.00	25.16	121.00	3.33
Sep	543.00	18.10	59.00	3.35
Oct	687.00	22.90	148.00	3.35
Nov	753.00	25.10	75.00	3.36
Dec	930.00	30.00	86.00	3.37
<b>Total</b>	9332.00			
<b>Avg</b>	777.67	25.52		
<b>Max</b>	1138.00		171.00	3.40
<b>Criteria</b>			298.00	3.45