

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

This report is a summary of water quality information for Finch's Drinking Water 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. Finch'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 # 7327-83ZL7J	n/a			
Drinking Water Works Permit # 182-201	n/a			
Municipal Drinking Water Licence # 182-101	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 Finch'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: FINCH WATER SUPPLY  
 ORG. NUM.: 5811  
 WORKS NUM.: 210003912  
 DESCRIPTION: A TWO WELL SYSTEM EQUIPPED WITH AN AERATION TOWER, FILTRATION AND A CLEAR WELL  
 DISINFECTION IS WITH SODIUM HYPOCHLORITE.

YEAR: 2016  
 WATER SOURCE: GROUNDWATER  
 DESIGN CAPACITY: 777.6 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	5,926	191	265	0.54	2.57	0.73	1.90	12	20	0	0	8	0
FEB	5,429	187	413	0.47	2.40	0.57	1.82	15	25	0	0	10	0
MAR	5,652	182	221	0.47	2.51	0.90	1.89	12	20	0	0	8	0
APR	5,586	186	223	0.50	2.60	0.88	1.99	12	20	0	0	8	0
MAY	8,161	263	884	0.48	2.58	0.61	1.74	15	25	0	0	10	0
JUN	7,489	250	449	0.40	2.36	0.42	1.36	12	20	0	0	8	0
JUL	7,390	238	465	0.40	2.35	0.44	1.80	12	20	0	0	8	0
AUG	7,730	249	437	0.40	2.17	0.42	1.59	15	25	0	0	10	0
SEP	7,311	244	311	0.43	2.29	0.39	2.15	12	20	0	0	8	0
OCT	7,077	228	346	0.40	3.00	0.50	2.88	12	25	0	0	10	0
NOV	6,041	201	254	0.34	2.90	0.39	1.51	12	20	0	0	8	0
DEC	6,516	210	268	0.39	3.00	0.65	2.17	12	20	0	0	8	0
TOTAL	80,308							153	260	0	0	104	0
AVG		219											
MIN				0.34		0.39							
MAX			884		3.00		2.88						
CRITERIA				CT 0.32		0.05	4.00						

COMMENTS: MAX. DAY FLOW INCLUDE DAYS THAT HYDRANTS WERE FLUSHED.

## Facility Flow Summary

Drinking-Water System Number: 210003912  
 Drinking-Water System Name: FINCH DRINKING WATER SYSTEM  
 Drinking-Water System Owner: Title Holder: Municipality  
 Drinking-Water System Category: Large Municipal Residential  
 Municipal Drinking Water License: 182-101  
 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: 7327-83ZL7J

Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	2848.00	91.87	264.00	7.94
Feb	2606.00	89.86	213.00	7.96
Mar	3038.00	98.00	202.00	7.98
Apr	3116.00	103.87	222.00	7.98
May	4882.00	157.48	580.00	7.90
Jun	1362.00	45.40	281.00	7.89
Jul	3195.00	103.06	334.00	7.93
Aug	3721.00	120.03	309.00	7.75
Sep	5128.00	170.93	320.00	7.85
Oct	4604.00	148.52	361.00	7.84
Nov	2330.00	77.67	234.00	7.96
Dec	3195.00	103.06	236.00	7.81
<b>Total</b>	40025.00			
<b>Avg</b>	3335.42	109.15		
<b>Max</b>	5128.00		580.00	7.98
<b>Criteria</b>			777.00	9.00

## Facility Flow Summary

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 Drinking-Water System Owner: Title Holder: Municipality  
 Drinking-Water System Category: Large Municipal Residential  
 Municipal Drinking Water License: 182-101  
 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: 7327-83ZL7J

Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	3258.00	105.10	226.00	8.47
Feb	2987.00	103.00	285.00	8.90
Mar	2784.00	89.81	198.00	8.48
Apr	2638.00	87.93	231.00	8.48
May	3525.00	113.71	408.00	8.70
Jun	6362.00	212.07	460.00	8.42
Jul	4420.00	142.58	478.00	8.39
Aug	4259.00	137.39	450.00	8.38
Sep	2415.00	80.50	280.00	8.36
Oct	2706.00	87.29	351.00	8.31
Nov	3909.00	130.30	257.00	8.47
Dec	3539.00	114.16	277.00	8.47
<b>Total</b>	42802.00			
<b>Avg</b>	3566.83	116.99		
<b>Max</b>	6362.00		478.00	8.90
<b>Criteria</b>			777.00	9.00