



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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February 17th, 2017

Patty Sinnamon
CAO
The Corporation of the Township of Chatsworth
R.R. #1
Chatsworth, Ontario
N0H 1G0

Re: Safe Drinking Water Act, O. Reg. 170/03 Schedule 22 Summary Report

Ms. Sinnamon,

Attached is the 2016 Summary Report for the **Chatsworth Water Treatment Plant**. This report has been completed based on the information we have in our records and in accordance with Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act, which requires a Summary Report to be prepared not later than March 31st of each year for the preceding calendar year. This report covers the period of January 1, 2016 to December 31, 2016.

After your review and inclusion of any additional information, this Summary Report must be provided to the members of the municipal council. The report is not intended for distribution to the Ministry of the Environment and Climate Change.

Section 12 of O. Reg. 170/03, requires both the Summary Report and the Annual Report to be made available for inspection by any member of the public during normal business hours, without charge. The reports should be made available for inspection at the office of the municipality, or at a location that is reasonably convenient to the users of the water system, as indicated in the Section 11 Annual Report, as required by Section 12 (4) of O.Reg 170/03.

Sincerely,

A handwritten signature in black ink, appearing to read 'Scott Craggs', written over a light blue rectangular background.

Scott Craggs
Senior Operations Manager
West Highlands Hub
Ontario Clean Water Agency

SC/lb

cc: Lisa Benoit, PCT



**Ontario Clean Water Agency
Agence Ontarienne Des Eaux**

CHATSWORTH WATER TREATMENT

Large Municipal Residential Drinking Water System

SCHEDULE 22 SUMMARY REPORT

For the period of:
JANUARY 1, 2016 TO DECEMBER 31, 2016

Prepared by the Ontario Clean Water Agency

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 01, 2016 to December 31, 2016 for the Chatsworth Water Treatment Plant, located in the Township of Chatsworth.

The summary includes:

1. 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.
2. A summary of the quantities and flow rates of water supplied during the reporting period, including monthly averages and maximum daily flows.
3. A comparison of the average and monthly maximum daily flows to the approved capacity specified in the System Approval.

ISSUES OF NON-COMPLIANCE

There was one issue of non-compliance for the inspection period of June 24, 2015 to September 30, 2016 – an inspection rating of 97.58% was received.

The following tables list the requirements of the Act, Regulations, System Approval (s) and any Order that the system failed to meet during the reporting period and the measures taken to correct each failure:

Drinking Water Legislation	Requirement(s) the system failed to meet	Duration	Corrective Action(s)	Status

Part V of SDWA	All water quality monitoring requirements imposed by the Municipal Drinking Water Licence and/or Drinking Water Works Permit were not being met.	Nov 20, 2015 to Sept 30, 2016	By No later than December 15, 2016 the municipality shall: 1. Contact the UV manufacturer to provide correspondence indicating a deciphering breakdown of the original calibration/verification document provided. 2. Contact MOECC Approvals to provide direction as to what is acceptable for calibration and monthly checks based on the UV unit being used, and whether application can be made for alternative language in Schedule E, so that practical compliance options are available, as has been done with other municipal drinking water systems who brought this to Approvals attention during the draft stage of licence renewal. This may include proposing additional checks in lieu of checking reference sensors, which can be discussed with Approvals. 3. Provide a written plan to the Provincial Officer authoring this report to address the monthly UV reference checks and every three year Master Reference Assembly calibration. 4. Ensure the CT calculation posted within the pumphouse includes all calculations used in the CT process and reflects the log removal achieved for both UV and chlorination, and all calculations and page references/with explanation used in deriving the log removals being claimed to meet the requirements within Schedule E of the Licence. In addition, provide a copy of the entire CT calculation to the Provincial Officer authoring this report.	Completed Dec 8, 2016
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Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
No Incidents to Report in 2016					

ASSESSMENT OF FLOW RATES AND QUANTITIES OF WATER SUPPLIED

The following table lists the quantities and flow rates of the water supplied during the reporting period covered by this report, including monthly average and maximum daily flows and a comparison to the rated capacity and flow rates specified in the system approval:

Summary of Raw Water Flows – Chatsworth Pumphouse

Chatsworth - Well # 1 & 2 combined

MDWL (Rated Capacity 763.0 m³/day)

MONTH	Avg. Daily Volume m ³	% Of Approved Volume	MAX Daily Volume m ³ /d	% Of Approved Volume
JANUARY	118.10	15.48	238.00	31.19
FEBRUARY	118.03	15.47	216.00	28.31

MARCH	113.32	14.85	234.00	30.67
APRIL	122.10	16.00	248.00	32.50
MAY	141.65	18.56	301.00	39.45
JUNE	142.37	18.66	227.00	29.75
JULY	144.61	18.95	325.00	42.60
AUGUST	138.97	18.21	288.00	37.75
SEPTEMBER	118.77	15.57	259.00	33.94
OCTOBER	141.35	18.53	271.00	35.52
NOVEMBER	121.80	15.96	236.00	30.93
DECEMBER	115.68	15.16	261.00	34.21

Please refer to Appendix A for the PTTW flow and flow rate data for Well 1 and Well 2

APPENDIX A

Chatsworth Drinking Water System

Water taking permitted as per **PTTW # 3802-9L2JFM**

Flow & Flowrates for Well 1 & 2

Location:

RW – Raw Water – Well #1
RW – Raw Water – Well #2

Facility Flow Summary

Drinking-Water System Number: 210003011
 Drinking-Water System Name: CHATSWORTH DRINKING WATER SYSTEM
 Drinking-Water System Owner: Title Holder: Corporation/Company
 Drinking-Water System Category: Large Municipal Residential
 Municipal Drinking Water License: 241-102
 Period being reported: 01/2016 12/2016

Raw Water					
Raw Water (Source Name)		Raw Water - Well 1			
Source Type:		Drilled			
Drinking Water Permit to Take Water No:		3802-9L2JFM			
Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/min)	Daily Flow Peak Flow Rate (L/sec)
Jan	1945.00	62.74	236.00		7.25
Feb	1777.00	63.46	202.00		7.06
Mar	3499.00	112.87	234.00		7.02
Apr	1119.00	37.30	232.00		6.85
May	1716.00	55.35	232.00		6.84
Jun	2569.00	85.63	227.00		7.01
Jul	332.00	10.71	152.00		6.62
Aug	4099.00	132.23	288.00		6.90
Sep	692.00	23.07	259.00		6.55
Oct	3231.00	104.23	271.00		7.06
Nov	223.00	7.69	186.00		6.49
Dec	795.00	26.50	214.00		6.92
Total	21997.00				
Avg		60.15			
Max			288.00		7.25
Criteria			818.21		9.48

Facility Flow Summary

Drinking-Water System Number: 210003011
 Drinking-Water System Name: CHATSWORTH DRINKING WATER SYSTEM
 Drinking-Water System Owner: Title Holder: Corporation/Company
 Drinking-Water System Category: Large Municipal Residential
 Municipal Drinking Water License: 241-102
 Period being reported: 01/2016 12/2016

Raw Water					
Raw Water (Source Name)		Raw Water - Well 2			
Source Type:		Drilled			
Drinking Water Permit to Take Water No:		3802-9L2JFM			
Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/min)	Daily Flow Peak Flow Rate (L/sec)
Jan	1716.00	57.20	217.00		7.19
Feb	1646.00	56.76	216.00		7.16
Mar	14.00	0.45	6.00		
Apr	2544.00	84.80	248.00		7.18
May	2675.00	86.29	301.00		7.17
Jun	1702.00	56.73	213.00		7.08
Jul	4151.00	133.90	325.00		7.22
Aug	209.00	6.74	110.00		7.05
Sep	2871.00	95.70	230.00		7.06
Oct	1151.00	38.37	228.00		7.18
Nov	3431.00	114.37	236.00		7.10
Dec	2791.00	93.03	261.00		7.82
Total	24901.00				
Avg		68.70			
Max			325.00		7.82
Criteria			818.21		9.48