

February 22<sup>nd</sup>, 2021

Ken Loveland  
CAO/Clerk  
Corporation of the Township of Southwold  
35663 Fingal Line  
Fingal, ON N0L 1K0

**Re: Annual Summary Report as required by Safe Drinking Water Act**

Dear Mr. Loveland;

Attached is the 2020 Summary Report for the Southwold Distribution System for January 1<sup>st</sup> to December 31<sup>st</sup>, 2020. This report is completed in accordance with Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act.

This Summary Report is to be provided to the members of the Southwold Municipal Council. Please ensure this distribution by March 31, 2021.

We recently forwarded a copy of the 2020 Annual Report for the Southwold Distribution System required under Section 11 of O. Reg. 170/03. Section 12 of O. Reg. 170/03, requires both the Summary Report and the Annual Report 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 township, or at a location that is reasonably convenient to the users of the water system.

Please feel free to contact me should you require any additional information regarding these reports. I can be reached at 226-374-4349.

Sincerely,



Maegan Garber  
Process and Compliance Technician (OCWA)

cc. Mike Taylor, Senior Operations Manager (OCWA)  
Dale LeBritton, Regional Hub Manager (OCWA)  
Cindy Sigurdson, Safety, Process and Compliance Manager (OCWA)



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

**Annual Summary Report  
For the  
Southwold Distribution System  
2020**

**Prepared for the Township of Southwold**

**By the Ontario Clean Water Agency**

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3	<b>Corrective Actions</b>  Schedule 22-2 (2)(b) For each requirement referred to in section 2 that was not met, specify the duration of the failure and the measures that were taken to correct the failure.	2
4	<b>Flow Summary</b> Schedule 22-2 (3)  1. A summary of the quantities and flow rates of the water supplied during the period covered by the report  2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.	2
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## **SECTION 1: Overview**

This summary report for the Southwold Distribution System (DS) is published in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation for the reporting period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2020. The Southwold DS is categorized as a Large Municipal Residential Drinking Water System.

The Southwold DS operated in accordance with the Municipal Drinking Water Licence 055-101 and Drinking Water Works Permit 055-201.

This report was prepared by the Ontario Clean Water Agency on behalf of the Township of Southwold and must be supplied to the Southwold Municipal Council by March 31, 2021.

## **SECTION 2: Compliance**

The Southwold DS was operated and maintained in such a manner that treated water supplied to the consumers serviced by the system satisfied the Ontario Drinking Water Quality Standards.

The annual routine inspection of the Southwold Distribution System on August 26th, 2020, conducted by Angela Stroyberg of the Ministry of the Environment, Conservation and Parks (MECP) identified no non-compliances.

There was one adverse water quality incidents (AWQIs) that occurred in 2020. On June 1<sup>st</sup>, 2020 at Autoflusher #3 (end of Thomas road) a result of 1cfu/100mL Total Coliform was obtained, AWQI #150125.

## **SECTION 3: Corrective Action**

The routine MECP Inspections have an Inspection Rating Record, which evaluates the system to provide information for the owner/operator on areas that need to be improved. The particular areas that were evaluated for the Southwold Distribution Supply System were: Treatment Process, Operations Manuals, Logbooks, Certification and Training, Water Quality Monitoring, Reporting and Corrective Actions, and Treatment Process Monitoring. This system received 0 out of 304 non-compliance ratings and as such received 100% for the Final Inspection Rating.

AWQI #150125 was addressed by flushing the sample line and resampling (at the location of AWQI, upstream and downstream) on June, 3<sup>rd</sup> and 4<sup>th</sup>. Resample results were satisfactory. Notifications were made as required by O. Reg. 170/03.

## **SECTION 4: Summary and Discussion of Quantity of Water Supplied**

In accordance with Schedule 22-2(3) find a summary and discussion of the quantity of water supplied during the reporting period. There are no rated capacities specified in the MDWL or DWWP.

The Southwold Distribution System is supplied from the St. Thomas Area Secondary Water Supply System. The flow is metered at three locations in the system:

1. Talbot Line and Ford Line
2. Talbot Line and Ford Line (Talbotville)
3. Wonderland Road and Clinton Line

The Southwold Distribution System provides water to the following systems:

1. Dutton Dunwich Distribution System (Talbot Line and Iona Road)
2. St. Thomas Distribution System (Fingal Line)
3. Middlesex Centre (Southdel Drive)

In 2020, the total flow through the Southwold DS was 322,413m<sup>3</sup>. Therefore, the flow has decreased 86% in 2020 compared to 2019. This large reduction in flows from the previous year was the result of an isolation valve on the by-pass line being left partially open at the Southwold Interconnect Chamber for the majority of 2020. This was discovered by staff from the St. Thomas Secondary System late in the year and has now been resolved. The by-pass is closed. The average daily flow to Southwold Distribution System in 2020 was 867m<sup>3</sup>/d.

The following table provides an overview of the monthly flow totals for the Southwold Distribution System. Appendix A contains monthly flow readings from various meters throughout the distribution system to obtain the total flow and average daily flows for the Southwold Distribution System.

<b>MONTH</b>	<b>TOTAL (m<sup>3</sup>)</b>	<b>Average Daily Flow (m<sup>3</sup>/d)</b>
<b>January</b>	32,753	1,057
<b>February</b>	14,141	456
<b>March</b>	18,377	593
<b>April</b>	18,974	612
<b>May</b>	34,837	1,124
<b>June</b>	40,896	1,319
<b>July</b>	30,595	987
<b>August</b>	40,376	1,302
<b>September</b>	30,594	987
<b>October</b>	21,762	702
<b>November</b>	22,845	737
<b>December</b>	16,263	525
<b>Average Daily</b>	<b>-</b>	<b>867</b>
<b>Annual Total</b>	<b>322,413</b>	<b>-</b>

The flow is measured at the Shedden Re-Chlorination Facility for the purpose of re-chlorination. Below is a summary of flow through this facility.

<b>Month</b>	<b>Total Monthly Flow (m<sup>3</sup>)</b>	<b>Average Daily Flow (m<sup>3</sup>/d)</b>	<b>Maximum Daily Flow (m<sup>3</sup>/d)</b>
<b>January</b>	26,845	866	1,029
<b>February</b>	25,773	889	1,059
<b>March</b>	27,325	881	1,065
<b>April</b>	28,292	943	1,410
<b>May</b>	40,805	1,316	1,710
<b>June</b>	30,190	1,006	1,241
<b>July</b>	32,560	1,050	1,450
<b>August</b>	27,536	888	1,069
<b>September</b>	41,507	1,384	1,648
<b>October</b>	25,471	822	1,062
<b>November</b>	24,968	832	1,077
<b>December</b>	25,385	819	1,075
<b>Annual Total</b>	<b>356,657</b>	-	-
<b>Average Daily</b>	-	<b>975</b>	-
<b>Maximum Day Flow</b>	-	-	<b>1,710</b>

## Appendix A

Summary of flow volumes in the Southwold Distribution System (values in m<sup>3</sup> unless indicated).

Month	Talbot & Ford (Southwold Interconnect Chamber)	Talbot & Ford (Talbotville Chamber)	Wonderland & Clinton (Clinton Line Interconnect Chamber)	Other	Talbot & Iona (Iona Chamber)	Fingal Line (St. Thomas Chamber)	TOTAL	Average Daily Flow (m <sup>3</sup> /d)
<b>January</b>	40,960	1,143	7,466	2,391	-18,007	-1200	32,753	1,057
<b>February</b>	22,074	1,097	7,345	2,232	-17,407	-1200	14,141	456
<b>March</b>	26,042	1,050	8,694	2,875	-19,084	-1200	18,377	593
<b>April</b>	24,756	2,760	8,083	2,625	-18,007	-1243	18,974	612
<b>May</b>	33,585	7,120	11,065	2,914	-18,607	-1240	34,837	1,124
<b>June</b>	36,886	7,780	11,630	4,303	-18,288	-1415	40,896	1,319
<b>July</b>	30,479	6,450	9,982	3,537	-18,673	-1180	30,595	987
<b>August</b>	37,454	7,845	11,946	3,294	-18,889	-1274	40,376	1,302
<b>September</b>	30,480	6,440	9,818	3,134	-18,192	-1086	30,594	987
<b>October</b>	24,771	5,300	8,116	3,568	-18,588	-1405	21,762	702
<b>November</b>	24,979	5,325	8,418	3,044	-17,965	-956	22,845	737
<b>December</b>	21,400	4,600	7,148	2,641	-18,607	-919	16,263	525
<b>Annual Total</b>	353,866	56,910	109,711	36,558	-220,314	-14318	322,413	867