



**2025**  
**Annual Drinking Water Report**  
**and**  
**Summary Report for Municipalities**  
  
**Lancaster Water Treatment**  
  
**Version 2.0**

A handwritten signature in black ink, appearing to read "D Seguin", written over a horizontal line.

Prepared by:

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Dillen Seguin  
Director of Water and Wastewater

\_\_\_\_\_  
February 18, 2026

Date

A handwritten signature in black ink, appearing to read "D Kuhn", written over a horizontal line.

Approved by:

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David Kuhn  
General Manager, Infrastructure Services

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February 18, 2026

Date

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## Regulations

### Annual Report

O. Reg. 170/03 – Section 11

### Summary Report for Municipalities

O. Reg. 170/-3 – Schedule 22

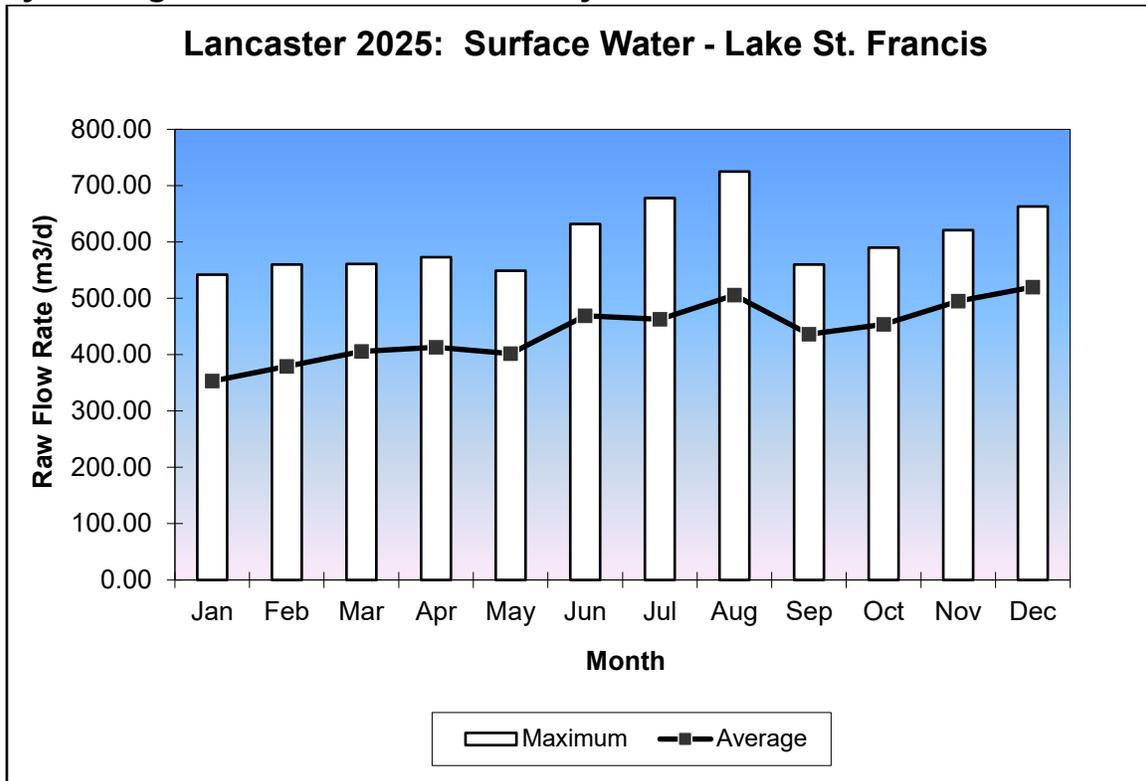
## Revision History

Date	Description	Revision	Author
February 2, 2026	Initial Issue for Council Receipt	1.0	D. Seguin
February 18, 2026	Issued For Council Acceptance	2.0	D. Seguin

# Lancaster Water Treatment Plant – Annual Report

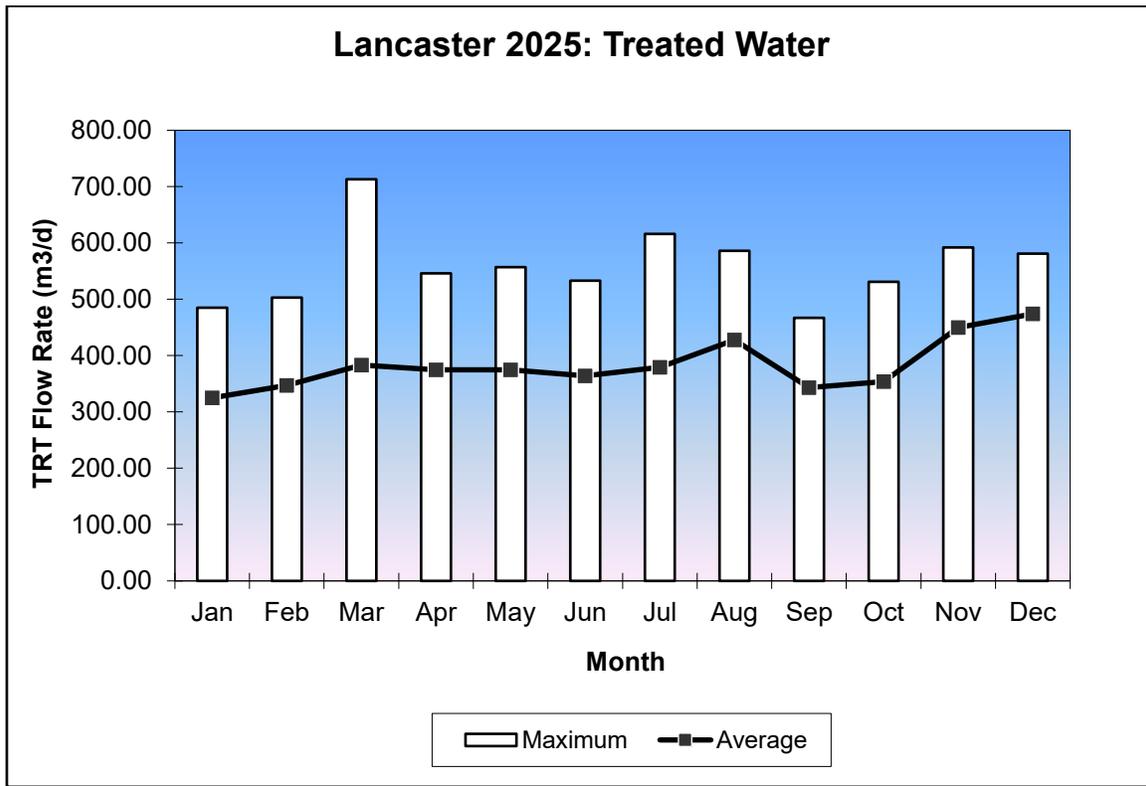
## 1. Flows

### Daily Average and Maximum Raw Daily Flows



Permit To Take Water (6653-AP9H6L)	
Max Allowable Raw Water Flow:	1,440m <sup>3</sup> /d
Year Max:	978m <sup>3</sup> /day

**Daily Average and Maximum Treated Daily Flows**



<b>Municipal Drinking Water License Rated Capacity (185-101)</b>	
<b>Max Allowable Raw Water Flow:</b>	1,440m <sup>3</sup> /d
<b>Year Max:</b>	876m <sup>3</sup> /day

## 2. Compliance

A written report is prepared annually. This report is available for viewing at the Township of South Glengarry Municipal office, 6 Oak Street Lancaster or at the Glen Walter Water Treatment Plant located at 18352 County Road 2 in Glen Walter. A copy of the report is also available on the Townships web site. A copy of the report is available free of charge to any resident requesting a copy. For more information on the Municipal water supply contact:

**Township of South Glengarry**  
**Water/Wastewater Division**  
Telephone: 613-347-1166 ex. 2504  
Fax: 613-931-3340  
E-mail: [infrastructure@southglengarry.com](mailto:infrastructure@southglengarry.com)

The Township of South Glengarry commitment policy is to provide a safe and reliable supply of drinking water to all its customers, meet or exceed the requirements of all legislation and regulations applicable to drinking water and maintain and continually improve its quality management system.

## 3. System Description

### Overview

The Township of South Glengarry, Lancaster Water Treatment Plant is located at **20523 Old Montreal Road in South Lancaster**. The water treatment plant is a surface water treatment facility serving the village of Lancaster and the Hamlet of South Lancaster. The water plant has a rated capacity of 1,440 cubic meters of water per day for a design population of 1,218 people.

The Township of South Glengarry utilizes the following accredited laboratory to ensure safe and potable water to meet or exceed Ministry standards: Caduceon Laboratory Ottawa.

The Township of South Glengarry operators are all certified under the Ministry of the Environment regulation 128/04 for utility Operator Licensing Program.

The Township of South Glengarry water system uses Sodium Hypochlorite for disinfection and Aluminum Sulphate for a coagulant.

### Equipment

Raw water is consumed through a 450 millimeter intake pipe and wooden intake crib off the shore of Lake St. Francis at a depth of approximately 12 meters. The plant consists of three low lift pumps rated at 8.33 liters per second one dual media anthracite sand gravity filter, one gravity granular activated carbon filter, three high lift pumps two rated at 15.9 liters per second and the third at 6.3 liters per second and two backwash pumps together with all associated piping, electrical equipment, controls and alarm systems all housed in a common building.

### Process

Raw water is pumped from the low lift chamber, which is pre chlorinated. A liquid coagulant is introduced into an in line flash mixer, and then flows to two set of coagulant/flocculators;

clarifiers and filters each rated at 720 cubic meters per day. The filtered water is then post chlorinated before it enters the twin celled reservoir. The treated (potable) water is then pumped to the distribution system and also feeds an elevated storage tank located on North Beech Street.

## Distribution

The distribution system is comprised of varying sized water pipes, valves, and fire hydrants all supplied from the three high lift pumps situated at the Lancaster Water Plant. Fire flow can be achieved for the Lancaster Water system.

## 4. Operation Summary

There were no upgrades noted in the reporting year. Operational issues noted for the reporting year are outlined with all of the work completed within the Table 1. Major Maintenance (2025).

The major maintenance undertaken on the Lancaster system is provided in the table below.

**Table 1. Major Maintenance 2025**

2025	Details
Jan.	Backflow Preventers Tested/Repaired
Jan.	Heaters Failed x 2 Fixed/Replaced
Mar.	Scada Computer Upgrades/Replacement
Apr.	Clean Alum Tank
Apr.	Dist. Valve Replacement
May.	Valve Exercising Started
Jun.	Dist. Valve Replacement
Jun.	Spring Hydrant Flushing
Jun.	Analytical Calibrations Third Party
Jun.	Generator Maintenance/Tests
Jul.	Clearwell Inspections
Jul.	Hypo Pump Replacement
Sep.	Dist. Valve Replacement
Oct.	Fall Flush and Residual Checks
Oct.	Flow Meter Calibrations
Nov.	Winterize Hydrants
Dec.	Generator Maintenance/Load Test

## Lancaster Water Treatment Plant – Summary Report

Ontario Drinking Water License #185-101

The Township of South Glengarry Water Treatment Department operated the Lancaster Water Treatment Plant for the year 2025.

### 5. Non-Compliance

#### Adverse Water Quality Incidents

During the reporting year, there were no adverse water quality incidents (AWQI).

##### Incident #1 (none)

Incident Date:	-
Parameter:	-
Result:	-
Corrective Action:	-
Corrective Action Date:	-
Corrective Compliance:	-

#### Non-Compliance

During the reporting year, there was no non-compliance in regard to a regulatory requirement.

##### Non-Compliance #1 (none)

Non-Compliance Date:	-
Parameter:	-
Result:	-
Corrective Action:	-
Corrective Action Date:	-
Corrective Compliance:	-

#### Non-Compliance Ministry Inspection

During the year 2025, there were no non-compliance from a ministry inspection within the Lancaster Drinking Water System.

The ministry inspection occurred on and off site during the month of July. There were no issues of regulatory compliance identified in the report and the final inspection rating was 100%. A copy of the report is available at The Glen Walter Water Treatment Plant Office.

## 6. Regulatory Sample Results

### Statistics for Flow and Chemicals

A total of 161,040m<sup>3</sup> of raw water had been treated for the year 2025 with a monthly average of 441m<sup>3</sup> per day and a maximum flow of 725m<sup>3</sup> /day for the year. Maximum flow is equivalent to 50% of plant capacity.

The Lancaster Water Treatment Plant uses sodium hypochlorite for disinfection. A total of 719.63kg of sodium hypochlorite has been utilized for the year at an average dosage rate of 4.46mg/litre.

The Lancaster Water Treatment Plant also uses aluminum sulphate as a coagulant in the treatment process. A total of 3.276m<sup>3</sup> of aluminum sulphate had been used.

Attached is the data spread sheet, which identifies flows, laboratory results, number of samples collected and chemical use on a monthly basis.

Municipality: Township of South Glengarry  
Project: Lancaster W.T.P  
DWS # 260006867

Annual Report Data  
2025

Water Source: Lake St. Francis  
Design Capacity: 1.440 x 1000 m3/D

Description: Conventional Treatment - Chemically Assisted Filtration (Alum) - Sodium Hypochlorite Disinfection

	Raw Water Flow			Treated Water Flow			Chemical Usage		Treated Water						Distribution Water								
	Total X 1000 m3	Average X 1000 m3	Maximum Daily X 1000 m3	Total X 1000 m3	Average X 1000 m3	Maximum Daily X 1000 m3	Cl2 Total Kg Used	Alum Total L Used	Free Cl2 Residual mg/L			Average Turbidity NTU	Average Colour TCU	Average Aluminum mg/L	Nitrate NO3 mg/L	Nitrite NO2 mg/L	Free Cl2 Residual mg/L			THM ug/L	Lead ug/L	Lead ug/L	
									Min.	Max.	Avg.						Min.	Max.	Avg.				
January	10.609	0.353	0.542	9.754	0.325	0.485	51.07	210.540	1.68	2.13	1.99	0.09	0.00	0.060	0.26	0.05	1.60	2.00	1.90	22			
February	10.635	0.379	0.560	9.740	0.347	0.503	42.31	217.800	1.53	2.11	1.87	0.10	0.00	0.050			1.42	1.94	1.76				
March	12.616	0.406	0.561	11.873	0.383	0.713	48.28	252.840	1.08	2.11	1.90	0.08	0.00	0.040			1.70	1.94	1.80				
April	12.394	0.413	0.573	11.272	0.375	0.546	45.72	255.420	1.74	2.03	1.91	0.09	0.00	0.030	0.32	0.05	1.72	1.86	1.77	29			
May	12.470	0.402	0.549	11.640	0.375	0.557	28.81	245.520	1.60	2.11	1.85	0.09	0.00	0.050			1.54	1.82	1.71				
June	14.084	0.469	0.632	10.942	0.364	0.533	42.82	272.580	1.63	2.17	1.88	0.09	0.00	0.090			1.56	1.84	1.75				
July	14.374	0.463	0.678	11.752	0.379	0.616	79.21	286.440	1.55	2.11	1.86	0.09	0.00	0.130	0.23	0.09	1.46	1.92	1.70	56			
August	15.696	0.506	0.725	13.287	0.428	0.586	88.09	329.340	1.38	2.12	1.87	0.10	0.00	0.130			1.44	1.88	1.70				
September	13.096	0.436	0.560	10.291	0.343	0.467	72.47	274.560	1.76	2.34	1.99	0.08	0.00	0.150			1.72	1.96	1.85				
October	14.085	0.454	0.590	11.003	0.354	0.531	81.77	296.340	1.86	2.15	2.00	0.090	0.00	0.110	0.05	0.05	1.70	1.90	1.80	53			
November	14.853	0.495	0.621	13.512	0.450	0.592	67.70	298.980	1.74	2.17	1.99	0.09	0.00	0.050			1.64	1.98	1.80				
December	16.128	0.520	0.663	14.708	0.474	0.581	71.38	336.600	1.92	2.25	2.02	0.100	0.00	0.040			1.78	1.96	1.89				
Total	161.04			139.774			719.63	3276.96															
Average	13.42	0.441	0.605	11.648	0.383	0.559	59.97	273.080	1.60	2.14	1.92	0.09	0.00	0.078	0.2	0.06	1.61	1.92	1.79	40.0	#DIV/0!	#DIV/0!	
Criteria			1.440						0.2					5	10	1	0.05			100	10	10	
Maximum			0.725			0.713			1.08								1.42			40.0			
Compliance		Yes							Yes			Yes		Yes	Yes	Yes			Yes				

	Total # of Raw Samples	Raw Water Escherichia Coliform (cfu/100mL)			Raw Water Total Coliform (cfu/100mL)			Total # of Treated Samples	Treated Water Escherichia Coliform (cfu/100mL)		Treated Water Total Coliform (cfu/100mL)		Treated Water Heterotrophic Plate Count (cfu/100mL)		Total # of Dist. Samples	Distribution Water Escherichia Coliform (cfu/100mL)		Distribution Water Total Coliform (cfu/100mL)		Distribution Water Heterotrophic Plate Count (cfu/100mL)		
		Minimum	Maximum	Average	Minimum	Maximum	Average		Safe	Unsafe	Safe	Unsafe	Safe	Unsafe		Safe	Unsafe	Safe	Unsafe	Safe	Unsafe	
		January	4	0	10	4.00	2		104	37.00	4	4	0	4		0	4	0	12	12	0	12
February	4	0	1	0.50	2	2	2.00	4	4	0	4	0	4	0	12	12	0	12	0	12	0	
March	5	0	2	1.00	2	184	56.00	5	5	0	5	0	5	0	15	15	0	15	0	15	0	
April	4	0	1	0.25	2	24	10.50	4	4	0	4	0	4	0	12	12	0	12	0	12	0	
May	4	0	1	0.50	8	16	13.00	4	4	0	4	0	4	0	12	12	0	12	0	12	0	
June	5	0	4	1.20	2	54	13.60	5	5	0	5	0	5	0	15	15	0	15	0	15	0	
July	4	0	4	1.50	2	80	32.25	4	4	0	4	0	4	0	12	12	0	12	0	12	0	
August	4	0	2	0.75	2	58	24.50	4	4	0	4	0	4	0	12	12	0	12	0	12	0	
September	5	0	6	1.80	2	66	23.20	5	5	0	5	0	5	0	15	15	0	15	0	15	0	
October	4	0	7	3.75	6	32	16.00	4	4	0	4	0	4	0	12	12	0	12	0	12	0	
November	4	2	4	2.50	8	52	33.50	4	4	0	4	0	4	0	12	12	0	12	0	12	0	
December	5	0	6	2.60	4	42	15.60	5	5	0	5	0	5	0	15	15	0	15	0	15	0	
Total	52							52						156								

**Inorganic Parameters****LANCASTER WATER TREATMENT PLANT**

<b>INORGANIC PARAMETERS</b>					
<b>PARAMETER</b>	<b>SAMPLE DATE</b>	<b>RESULT VALUE</b>	<b>MAC</b>	<b>UNIT OF MEASURE</b>	<b>EXCEEDANCE</b>
ANTIMONY	Jan-06-25	0.000100	0.006	mg/L	No
ARSENIC	Jan-06-25	0.000300	0.025	mg/L	No
BARIUM	Jan-06-25	0.023000	1	mg/L	No
BORON	Jan-06-25	0.021000	5	mg/L	No
CADMIUM	Jan-06-25	0.000015	0.005	mg/L	No
CHROMIUM	Jan-06-25	0.001000	0.050	mg/L	No
LEAD	Year 2023	0.001035	10	ug/L	No
MERCURY	Jan-06-25	0.000020	0.001	mg/L	No
SELENIUM	Jan-06-25	0.001000	0.010	mg/L	No
SODIUM	Aug 22 2022	17.800000	200	mg/L	No
URANIUM	Jan-06-25	0.000200	0.020	mg/L	No
FLUORIDE	Aug 22 2022	0.100000	1.5	mg/L	No
NITRITE	Year 2025	0.060000	1	mg/L	No
NITRATE	Year 2025	0.200000	10	mg/L	No

<b>Eastern Ontario Health Unit MAC</b>					
Sodium	Aug 22 2022	17.8	20	mg/L	No

**Organic Parameters****LANCASTER WATER TREATMENT PLANT**

<b>ORGANIC PARAMETERS</b>					
<b>PARAMETER</b>	<b>SAMPLE DATE</b>	<b>RESULT VALUE</b>	<b>MAC</b>	<b>UNIT OF MEASURE</b>	<b>EXCEEDANCE</b>
ALACHLOR	Jan-06-25	0.30	5	ug/L	No
ATRAZINE + N-DEALKYLATED METOBOLITES	Jan-06-25	0.50	5	ug/L	No
AZINPHOS-METHYL	Jan-06-25	1.00	20	ug/L	No
BENZO(A)PYRENE	Jan-06-25	0.01	0.01	ug/L	No
BENZENE	Jan-06-25	0.50	5	ug/L	No
BROMOXYNIL	Jan-06-25	0.50	5	ug/L	No
CARBON TETRACHLORIDE	Jan-06-25	0.20	5	ug/L	No
CARBARYL	Jan-06-25	3.00	90	ug/L	No
CARBOFURAN	Jan-06-25	1.00	90	ug/L	No
CHLORPYRIFOS	Jan-06-25	0.50	90	ug/L	No
1,2-DICHLOROBENZENE	Jan-06-25	0.50	200	ug/L	No
1,4-DICHLOROBENZENE	Jan-06-25	0.50	5	ug/L	No
1,2-DICHLOROETHANE	Jan-06-25	0.50	5	ug/L	No
1,1-DICHOETHENE	Jan-06-25	0.50	1.4	ug/L	No
DICHLOROMETHANE	Jan-06-25	5.00	50	ug/L	No
DIAZINON	Jan-06-25	1.00	20	ug/L	No
DICAMBA	Jan-06-25	1.00	120	ug/L	No
2-4 DICHLOROPHENOL	Jan-06-25	0.20	900	ug/L	No
2,4-DICHLOROPHOXY ACETIC ACID(2,4-D)	Jan-06-25	1.00	100	ug/L	No
DICLOFOP-METHYL	Jan-06-25	0.90	9	ug/L	No
DIMETHOATE	Jan-06-25	1.00	20	ug/L	No
DIQUAT	Jan-06-25	5.00	70	ug/L	No
DIURON	Jan-06-25	5.00	150	ug/L	No
GLYPHOSATE	Jan-06-25	25.00	280	ug/L	No
MALATHION	Jan-06-25	5.00	190	ug/L	No
METOLACHLOR	Jan-06-25	3.00	50	ug/L	No
METRIBUZIN	Jan-06-25	3.00	80	ug/L	No
PARAQUAT	Jan-06-25	1.00	10	ug/L	No
PENTACHLOROPHENOL	Jan-06-25	0.20	60	ug/L	No
PHORATE	Jan-06-25	0.30	2	ug/L	No
PICLORAM	Jan-06-25	5.00	190	ug/L	No
POLYCHLORINATED BIPHENYLS(PCB)	Jan-06-25	0.05	3	ug/L	No
PROMETRYNE	Jan-06-25	0.10	1	ug/L	No
SIMAZINE	Jan-06-25	0.50	10	ug/L	No
TETRACHLOROETHYLENE	Jan-06-25	0.50	30	ug/L	No
TRICHLOROETHYLENE	Jan-06-25	0.50	5	ug/L	No
TERBUFOS	Jan-06-25	0.50	1	ug/L	No
2,3,4,6-TRICHLOROPHENOL	Jan-06-25	0.20	5	ug/L	No
TRIALATE	Jan-06-25	10.00	230	ug/L	No
2,4,6-TRICHLOROPHENOL	Jan-06-25	0.20	5	ug/L	No
Vinyl Chloride	Jan-06-25	0.20	2	ug/L	No
TRIFLURALIN	Jan-06-25	0.50	45	ug/L	No
MCPA	Jan-06-25	10.00	100	ug/L	No
THM (NOTE: SHOW LATEST ANNUAL AVERAGE)	Year 2025	40.0	100	ug/L	No
HAA	Year 2025	19.2	80	ug/L	No