

Melrose Drinking Water System

2024 Annual Performance & Summary Report

Date: February 25, 2025

Owner: Municipality of Middlesex Centre

Operating Authority: Municipality of Middlesex Centre

Alternative Formats: If you require this document in an alternative format, please contact the Municipality of Middlesex Centre at 519-666-0190 or customerservice@middlesexcentre.on.ca

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Introduction

The Municipality of Middlesex Centre has prepared a report summarizing system operation and water quality for the Melrose Drinking Water System. The report details the latest water quality test results, water quantity statistics and any adverse conditions that may have occurred for the previous year.

All efforts have been made to ensure the information presented in this report is accurate. If you have any questions or comments concerning the report, please contact the Municipality of Middlesex Centre.

Table 1 – Plant Information

Drinking Water System	Melrose Well Supply System
Drinking Water System Number	260002915
Drinking Water System Owner & Contact Information	Municipality of Middlesex Centre Small Municipal Residential System 10227 Ilderton Road, RR #2 Ilderton, Ontario N0M 2A0
Reporting Period	January 1, 2024, to December 31, 2024

Section A – System Description

The Melrose Drinking Water System, owned and operated by the Municipality of Middlesex Centre, is a ground water supply system servicing 64 lots with an estimated population of approximately 200 residents. The system consists of two deep-drilled groundwater production wells operating under Permit to Take Water # P-300-8072386149.

Raw water is pumped through a 12% sodium hypochlorite pre-disinfection system into an aerator, where the iron is oxidized for removal, then to an aeration reservoir. From this reservoir, the water is pumped to three multimedia pressure filters for final iron removal. The filtered water is then stored in a triple-chambered clear well for disinfection contact time. A chlorine analyzer samples the disinfection residual from the clear well and if needed chemical pumps are available to boost the disinfection to the filtered water prior to the clear well. Water is pumped from the clear well to the distribution system through one of three vertical distribution pumps based on the pressure of the system. A fourth fire pump is available if a greater quantity of water is required to meet the pressure needs of the system. The system is controlled by on-site programming logic with an operator interface program (SCADA) to allow for operational changes as required. The system is operated under Municipal Drinking Water License Number 052-103 and Drinking Water Works Permit Number 052-203.

MECP licensed drinking water operators maintain the system and its operations and collect regulated samples. In the event of failure of critical operational requirements automated alarms are relayed through a third-party system to operators for prompt response.

The Municipality of Middlesex Centre will begin construction in 2025 to connect the Melrose system to the Lake Huron Primary Water Supply Drinking Water System. This will convert the ground water drinking water system to a distribution facility and it will become part of the Middlesex Centre Water Distribution system.

Section B – Significant Modifications & Replacements

The table below summarizes modifications and or replacements that were completed during the year.

Table 2 - Modifications & Replacements Made

Date	Modification/Replacement	Cost
Mar 27	installed GFI receptacle for valve chamber sump pump above grade	\$1230
Aug 9	Replaced sample pump pressure switch water supply line	\$236
Aug 22	Installed new sample pump	\$1,908
Dec 4	Replaced aeration reservoir transducer after original failed verification	\$2,660
Dec 13	Installation of new sample station within distribution system	\$6,465

Section C – Microbiological Testing

(I) E. coli & Total Coliform

Bacteriological tests for E. coli and total coliforms are collected from the raw water at the facility and treated water from the distribution system. Raw water is collected once per month on each well, and the distribution water is collected on a bi-weekly schedule. Extra samples are taken after major repairs or maintenance work. Any E. coli or total coliform results above 0 cfu/100 mL in the treated distribution water must be reported to the Ministry of the Environment, Conservation and Parks (MECP) and Medical Officer of Health (MOH). Resamples and any other required actions are taken as quickly as possible. The results from the 2024 sampling program are shown on the table below. There were no adverse test results in this reporting period as shown in Table 3.

Table 3 – E. Coli & Total Coliform Samples

	Number of Samples	Range of E. coli Results (cfu/1mL) Min – Max	Range of Total Coliform Results (cfu/1mL) Min – Max
Raw	12	0 - 0	0 - 3
Distribution	28	0 - 0	0 - 0

(II) Heterotrophic Plate Count (HPC)

HPC analyses are required in the distribution water system on a bi-weekly basis. HPC should be less than 500 colonies per 1 mL. Results over 500 colonies per 1 mL may indicate a change in water quality but it is not considered an indicator of unsafe water. The 2024 results are shown in Table 4.

Table 4 – Heterotrophic Plate Count (HPC) Samples

	Number of Samples	Range of HPC Results (cfu/1mL) Min-Max
Distribution	28	10 - NDOGHPC

Section D – Chemical Testing

The Safe Drinking Water Act requires periodic testing of the water for chemical parameters. The sampling frequency varies for different types and sizes of water systems. An increased testing frequency of once every three months is required by the Regulation where the concentration of a parameter is above half of the Maximum Allowable Concentration (MAC) under the Ontario Drinking Water Quality Standards. Where concerns regarding a parameter exist, the MECP can also require additional sampling be undertaken.

Nitrate and Nitrite

Nitrate and nitrite samples are required every 3 months in normal operation. Results for the year can be seen in Table 5.

Table 5 – Quarterly Nitrate & Nitrite

Parameter & Sample Date	Result (mg/l)	MAC (mg/l)	Exceedance
Nitrate			
1st Quarter	0.007	10	No
2nd Quarter	0.006	10	No
3rd Quarter	0.006	10	No
4th Quarter	0.006	10	No
Nitrite			
1st Quarter	0.003	1	No
2nd Quarter	0.003	1	No
3rd Quarter	0.003	1	No
4th Quarter	0.003	1	No

*MDL- Minimum Detection Limit

Trihalomethanes (THM) & Haloacetic Acids (HAA)

THM and HAA are by-products of the disinfection process. Sampling of these parameters, within the distribution system, is required every 3 months. The results are calculated as an annual running average, which is summarized in Table 6. There were no exceedances in the last four quarters.

Table 6 – Quarterly Trihalomethane & Haloacetic Acid

Parameter & Sample Date	Result (mg/l)	Running Annual Average (mg/l)	MAC (mg/l)	Exceedance
Trihalomethane (THM)				
1st Quarter - January	14	15.8	100	No
2nd Quarter - April	13	15.0	100	No
3rd Quarter - July	15	14.5	100	No
4th Quarter - October	16	14.5	100	No
Haloacetic Acid (HAA)				
1st Quarter - January	5.3	5.3	80	No
2nd Quarter - April	5.3	5.3	80	No
3rd Quarter - July	5.3	5.3	80	No
4th Quarter - October	5.3	5.3	80	No

Sodium & Fluoride

Samples are analyzed every five (5) years as required. Sodium levels greater than 20 mg/L are to be reported to the MECP and MLHU. Regulated actions are as directed by the medical officer of health. Table 7 shows the results of testing that was completed in this 5-year cycle. Sodium and Fluoride samples are scheduled to be collected in January 2027.

Table 7 – Sodium & Fluoride

Parameter	Sample Date	Result Value (mg/L)	MAC (mg/L)
Sodium	January 17, 2022	24.8	20
Sodium	February 1, 2022	27.3	20
Fluoride	January 17, 2022	1.00	1.5

Lead

Lead sampling occurs twice a year in winter and summer months. As per Schedule D of the Melrose Municipal Drinking Water Licence (MDWL)# 052-103, Issue 7 sampling requirement is reduced to 1 distribution sample during each period. This reduction remains in effect until the end of the winter sample period in 2027.

Samples that are found to contain lead greater than the Maximum Acceptable Concentration (MAC) of 10 micrograms per liter (µg/l) are required to be reported to the MLHU and MECP.

Distribution alkalinity is an aesthetic objective / Operational Guideline with a range between 30 mg/l to 500 mg/l.

Table 8 summarizes the sampling period results for 2024. There were no exceedances.

Table 8 – Lead Sampling

Parameter	Result Value	MAC	Exceedance
Winter Sample (Dec. 15 – April 15)			
Lead (µg/l)	0.14	10	No
Distribution Alkalinity (mg/l)	234	*30 - 500	
Distribution pH	7.51	6.50 - 8.50	No
Summer Sample (June 15 – Oct. 15)			
Lead (µg/l)	0.18	10	No

Parameter	Result Value	MAC	Exceedance
Distribution Alkalinity (mg/l)	218	*30 - 500	
Distribution pH	8.00	6.50 - 8.50	No

*Distribution alkalinity is an aesthetic objective / Operational Guideline with a range between 30 mg/l to 500 mg/l

Schedules 23 & 24

Schedules 23 and 24 are regulated chemical testing that is to be conducted every five (5) years on secure groundwater wells. Table 9 has the results of that testing with no exceedance reported. Schedules 23 & 24 samples are scheduled to be collected in January 2027.

Table 9 - Schedules 23 & 24 Sampling Results

Sample Date: 17-Jan-22		
Parameter	Treated Water Value	Exceedance
Antimony [ug/L]	0.6 <MDL	No
Arsenic [ug/L]	0.2	No
Barium [ug/L]	155	No
Boron [ug/L]	164	No
Cadmium [ug/L]	0.003 <MDL	No
Chromium [ug/L]	0.08 <MDL	No
Mercury [ug/L]	0.01 <MDL	No
Selenium [ug/L]	0.04 <MDL	No
Uranium [ug/L]	0.108	No
Benzene [ug/L]	0.32 <MDL	No
Carbon tetrachloride [ug/L]	0.17 <MDL	No
1,2-Dichlorobenzene [ug/L]	0.41 <MDL	No
1,4-Dichlorobenzene [ug/L]	0.36 <MDL	No
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	0.33 <MDL	No
1,2-Dichloroethane [ug/L]	0.35 <MDL	No
Dichloromethane [ug/L]	0.35 <MDL	No
Monochlorobenzene [ug/L]	0.3 <MDL	No
Tetrachloroethylene (perchloroethylene) [ug/L]	0.35 <MDL	No
Trichloroethylene [ug/L]	0.44 <MDL	No
Vinyl Chloride [ug/L]	0.17 <MDL	No
Diquat [ug/L]	1 <MDL	No
Paraquat [ug/L]	1 <MDL	No
Glyphosate [ug/L]	1 <MDL	No
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	0.04 <MDL	No
Benzo(a)pyrene [ug/L]	0.004 <MDL	No
Alachlor [ug/L]	0.02 <MDL	No
Atrazine + N-dealkylated metabolites [ug/L]	0.01 <MDL	No
Atrazine [ug/L]	0.01 <MDL	No
Desethyl atrazine [ug/L]	0.01 <MDL	No
Azinphos-methyl [ug/L]	0.05 <MDL	No
Carbaryl [ug/L]	0.05 <MDL	No
Carbofuran [ug/L]	0.01 <MDL	No
Chlorpyrifos [ug/L]	0.02 <MDL	No
Diazinon [ug/L]	0.02 <MDL	No
Dimethoate [ug/L]	0.06 <MDL	No
Diuron [ug/L]	0.03 <MDL	No

Sample Date: 17-Jan-22		
Parameter	Treated Water Value	Exceedance
Malathion [ug/L]	0.02 <MDL	No
Metolachlor [ug/L]	0.01 <MDL	No
Metribuzin [ug/L]	0.02 <MDL	No
Phorate [ug/L]	0.01 <MDL	No
Prometryne [ug/L]	0.03 <MDL	No
Simazine [ug/L]	0.01 <MDL	No
Terbufos [ug/L]	0.01 <MDL	No
Triallate [ug/L]	0.01 <MDL	No
Trifluralin [ug/L]	0.02 <MDL	No
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	0.19 <MDL	No
Bromoxynil [ug/L]	0.33 <MDL	No
Dicamba [ug/L]	0.20 <MDL	No
Diclofop-methyl [ug/L]	0.40 <MDL	No
MCPA [mg/L]	0.00012 <MDL	No
Picloram [ug/L]	1 <MDL	No
2,4-dichlorophenol [ug/L]	0.15 <MDL	No
2,4,6-trichlorophenol [ug/L]	0.25 <MDL	No
2,3,4,6-tetrachlorophenol [ug/L]	0.20 <MDL	No
Pentachlorophenol [ug/L]	0.15 <MDL	No

*MDL- Minimum Detection Limit

Section E – Operational Monitoring

(I) Chlorine Residual

Free chlorine levels of the treated water are monitored continuously at the discharge point of the water treatment facility. Residual chlorine, providing disinfection within the distribution system, is monitored twice weekly at a minimum. A target of 0.20 mg/L has been established as a minimum target. A free chlorine level lower than 0.05 mg/L must be reported and corrective action taken. There were no reportable incidents in 2024. A summary of the chlorine residual readings is provided in Table 10 below.

Table 10 – Chlorine Residuals

Parameter	Number of Tests or Monitoring Frequency	Range of Results (mg/L)
Chlorine residual in distribution (mg/l)	106	1.05 - 1.56
Chlorine residual after treatment (mg/L)	Continuous	0.73 - 1.55

(II) Turbidity

Treated water turbidity, measured in units of NTU, is monitored continuously. Though turbidity of groundwater is not regulated under the Safe Drinking Water Act (SDWA) it is a tool that is used to signal a problem with plant operations. As a standard rule turbidity should be < 1 NTU at the treatment plant and < 5 NTU in the distribution system. A max turbidity of 1.60 NTU was

recorded on October 6th after flow meter calibration caused the fire pump to start. The higher turbidity value was due to bubbles in the water. As per the Permit to Take Water, the turbidity of the raw well water is checked monthly. A summary of the monitoring results for 2024 is provided in Table 11 below.

Table 11 – Turbidity

Parameter	Number of Tests or Monitoring Frequency	Range of Results (NTU) (Min – Max)
Turbidity after treatment (NTU)	Continuous	0.03 - 1.6

Section F – Water Quantity

Raw Flows

Continuous monitoring of flow rates from supply wells into the treatment system and from the facility into the distribution system is required by Regulation 170/03. The Municipal Drinking Water License and Permit to Take Water issued by the MECP regulate the amount of water that can be utilized over a given time period. A summary of the 2024 flows is provided below.

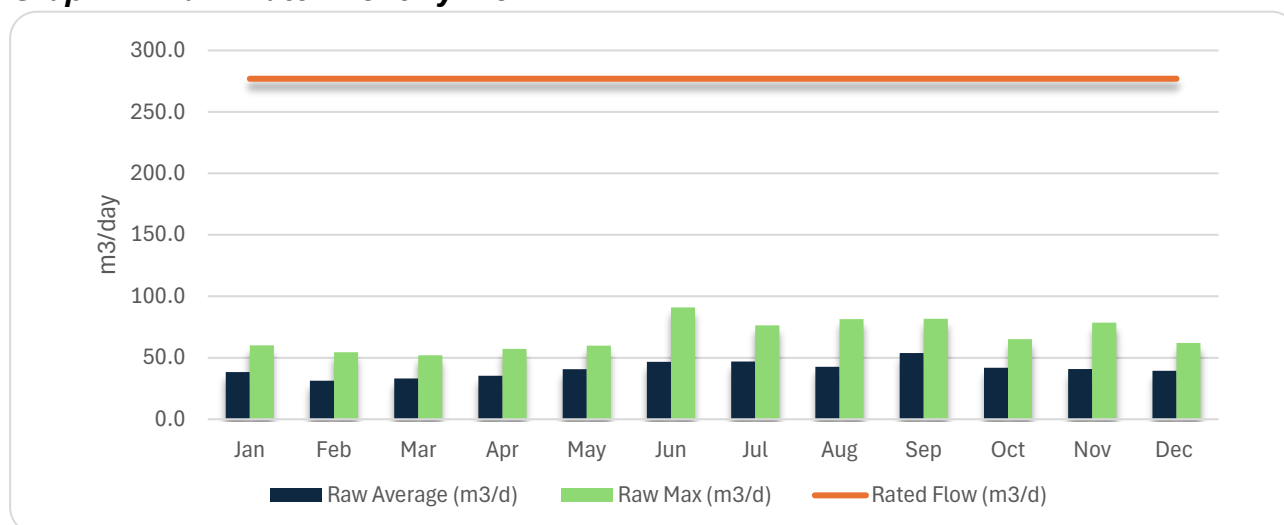
Table 12 – Rated Capacity

Flow summary	
Permit to Take Water Limits	277 m ³ /day

Table 13 – Monthly Raw Water Flows (m³/day)

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Rated Flow	m ³	277	277	277	277	277	277	277	277	277	277	277	277	-
Raw Average	m ³ /d	38.4	31.4	33.2	35.4	40.7	46.7	46.9	42.7	53.9	41.9	40.8	39.4	41.0

Graph 1 - Raw Water Monthly Flow



Raw Max	m3/d	60.1	54.5	52.0	57.3	59.8	90.9	76.4	81.5	81.7	65.2	78.6	62.0	68.3
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Treated Water

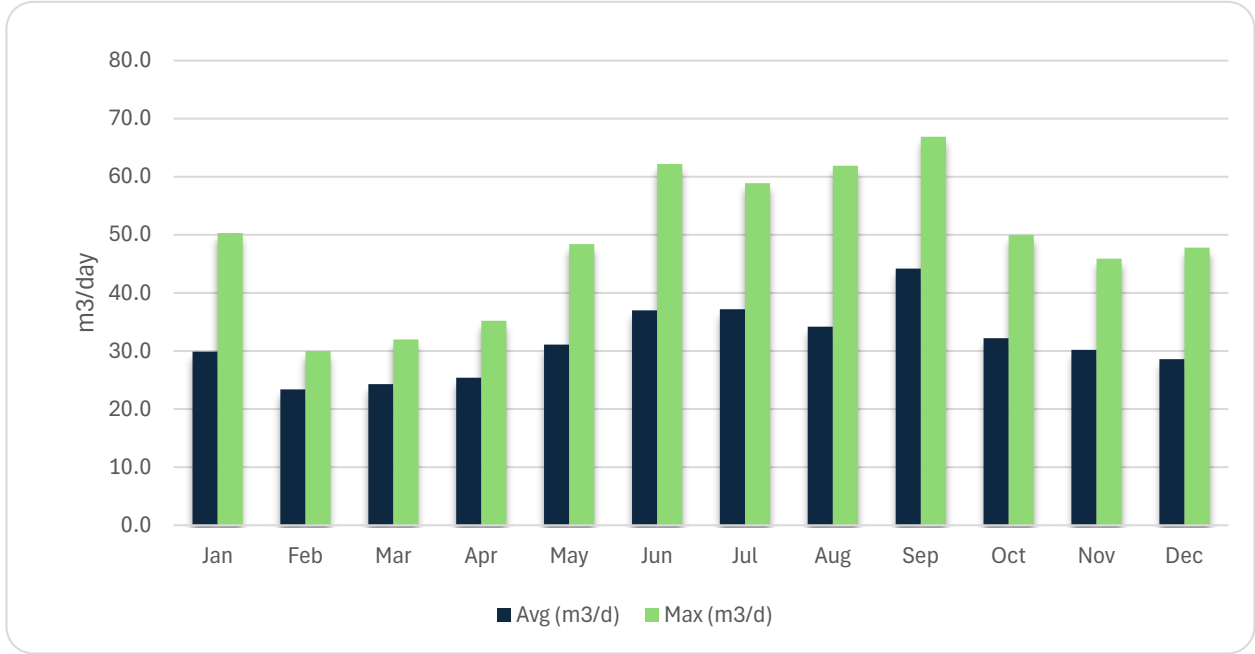
Table 14 – Treated Water Monthly Flow Summary

2024 Average Daily Treated Water Flow	31 m³/day
2024 Maximum Daily Treated Water Flow	67 m³/day
2024 Average Monthly Treated Water Flow	960 m³
2024 Total Amount of Treated Water Supplied	11,523 m³

Table 15 – Treated Water Flow

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg (m³/d)	29.9	23.4	24.3	25.4	31.1	37.0	37.2	34.2	44.2	32.2	30.2	28.6
Max (m³/d)	50.3	30.0	32.0	35.2	48.4	62.2	58.9	61.9	66.9	50.0	45.9	47.8

Graph 2 – Monthly Treated Flows



(I) Rated Capacity Assessment

The table below illustrates the water supplied to the distribution system and the capacity of the system.

Table 16 - Comparison of Treated Water Flow to Rated Capacity

Month	Total Flow (m3/month)	Monthly Raw Average Flow (m3/day)	Max Raw Flow (m3/day)	Avg Flow / Rated Capacity
January	1,191	38	60	14%
February	911	31	54	11%
March	1,030	33	52	12%
April	1,061	35	57	13%
May	1,262	41	60	15%
June	1,400	47	91	17%
July	1,452	47	76	17%
August	1,325	43	81	15%
September	1,618	54	82	19%
October	1,300	42	65	15%
November	1,224	41	79	15%
December	1,220	39	62	14%
Average Flow	1,249	41	68	15%
Maximum Flow	1,618	54	91	19%
Rated Capacity	277 (m3/day)			

Section G – Non-Compliance Findings & Adverse Results

Non-compliance issues are typically identified by either the Operating Authority or the MECP Drinking Water Inspectors. All non-compliance issues are investigated, corrective actions taken and documented using the Municipalities Drinking Water Quality Management System (DWQMS) procedures.

Melrose Water System achieved a 100% inspection rating with zero non-compliances.

(III) Summary Of Reporting Test Results and Other Problems (Schedule 16)

There were no Adverse Water Quality Indicators for the reporting year.

Appendix A – Analytical Data



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
 London - Ontario - N6E 2S8
 Phone: 519-672-4500 FAX: 519-672-0361

08-January-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 03 January 2024

LR Report: CA20227-JAN24

10227 Ilderton Rd.
 Ilderton, ON
 N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
 Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

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Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL
1: Analysis Start Date		---	---	04-Jan-24	04-Jan-24	04-Jan-24
2: Analysis Start Time		---	---	10:40	10:40	10:40
3: Analysis Completed Date		---	---	08-Jan-24	08-Jan-24	08-Jan-24
4: Analysis Completed Time		---	---	09:51	09:51	09:51
5: MAC		---	---	0	0	---
6: 1A0FC RW Well #2	02-Jan-24 12:31	7.0	---	0	0	---
7: 1A0FD RW Well #3	02-Jan-24 12:45	7.0	---	0	0	---
8: 1A106 DW Sample Station	02-Jan-24 12:20	7.0	1.28	0	0	0

Sample ID	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date	04-Jan-24
2: Analysis Start Time	10:20
3: Analysis Completed Date	08-Jan-24
4: Analysis Completed Time	09:51
5: MAC	---
6: 1A0FC RW Well #2	---
7: 1A0FD RW Well #3	---
8: 1A106 DW Sample Station	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

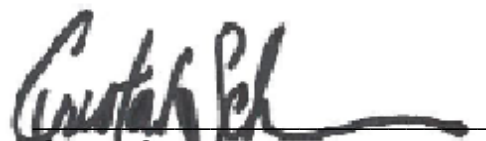
Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

LR Report : CA20227-JAN24

Units	Description	SGS Method Code
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Cristal Schuster
Project Specialist-London,
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

11-January-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 03 January 2024

LR Report: CA30108-JAN24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: AO/OG	6: MDL	7: 1A0FC RW Well #2	8: 1A0FD RW Well #3
Sample Date & Time							02-Jan-24 12:31	02-Jan-24 12:45
Temperature Upon Receipt [at London Lab °C]	---	---	---	---	---	---	7.0	7.0
Temperature Upon Receipt [at Lakefield Lab °C]	---	---	---	---	---	---	4.0	4.0
Bicarbonate [mg/L as CaCO ₃]	05-Jan-24	14:49	08-Jan-24	10:52	---	2	229	239
Carbonate [mg/L as CaCO ₃]	05-Jan-24	14:49	08-Jan-24	10:52	---	2	2 <MDL	2 <MDL
Total Suspended Solids [mg/L]	09-Jan-24	08:00	09-Jan-24	15:58	---	2	2 <MDL	2 <MDL
Sulphide [ug/L]	05-Jan-24	11:19	08-Jan-24	10:20	0.05	6	6 <MDL	6 <MDL
Iron [ug/L]	10-Jan-24	19:56	11-Jan-24	13:03	300	7	382	631
Manganese [ug/L]	10-Jan-24	19:56	11-Jan-24	13:03	50	0.01	12.8	19.9

AO/OG - Aesthetic Objective / Operational Guideline
MDL - SGS Method Detection Limit

Method Descriptions

Units	Description	SGS Method Code
mg/L as CaCO ₃	Bicarbonate by Titration	ME-CA-[ENV]EWL-LAK-AN-006
mg/L as CaCO ₃	Carbonate by Titration	ME-CA-[ENV]EWL-LAK-AN-006
ug/L	Iron by ICP-MS drinking water	ME-CA-[ENV]SPE-LAK-AN-006
ug/L	Manganese by ICP-MS Drinking Water	ME-CA-[ENV]SPE-LAK-AN-006
ug/L	Sulphide by Skalar	ME-CA-[ENV]SFA-LAK-AN-008
mg/L	Total Suspended Solids	ME-CA-[ENV]EWL-LAK-AN-004


Carrie Greenlaw
Project Specialist,
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

08-January-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Date Rec. : 03 January 2024
LR Report: CA30109-JAN24

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

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Sample ID	Sample Date & Time	Temperature Upon Receipt at London Lab °C	Temperature Upon Receipt at Lakefield Lab °C	Nitrite (as N) mg/L	Nitrate (as N) mg/L	Nitrate + Nitrite (as N) mg/L
1: Analysis Start Date		---	---	06-Jan-24	06-Jan-24	06-Jan-24
2: Analysis Start Time		---	---	14:19	14:19	14:19
3: Analysis Completed Date		---	---	08-Jan-24	08-Jan-24	08-Jan-24
4: Analysis Completed Time		---	---	10:21	10:21	10:21
5: MAC		---	---	1	10	---
6: MDL		---	---	0.003	0.006	0.006
7: 1A102 TW Water Treatment Facility	02-Jan-24 12:39	7.0	4.0	0.003 <MDL	0.007	0.007

MAC - Maximum Acceptable Concentration
MDL - SGS Method Detection Limit

Method Descriptions

Parameter	Description	SGS Method Code
Nitrate (as N)	Nitrate by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
Nitrate + Nitrite (as N)	Total Nitrate/Nitrite by Ion Chromatograph	ME-CA-[ENV]IC-LAK-AN-001
Nitrite (as N)	Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001

Hawley Anderson, Hon.B.Sc
**Project Specialist,
Environment, Health & Safety**



Works #: 260002915

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

11-January-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 04 January 2024
LR Report: CA30124-JAN24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: MAC	6: MDL	7: 1A106 DW Sample Station
Sample Date & Time							04-Jan-24 09:53
Temperature Upon Receipt [at London Lab °C]	---	---	---	---	---	---	3.6
Temperature Upon Receipt [at Lakefield Lab °C]	---	---	---	---	---	---	4.0
Trihalomethanes (total) [ug/L]	08-Jan-24	13:59	10-Jan-24	14:48	100 (RAA)	0.37	14
Bromodichloromethane [ug/L]	08-Jan-24	13:59	10-Jan-24	14:48	--	0.26	4.6
Bromoform [ug/L]	08-Jan-24	13:59	10-Jan-24	14:48	--	0.34	0.34 <MDL
Chloroform [ug/L]	08-Jan-24	13:59	10-Jan-24	14:48	--	0.29	6.8
Dibromochloromethane [ug/L]	08-Jan-24	13:59	10-Jan-24	14:48	--	0.37	2.8
Total Haloacetic Acids (HAA5) [ug/L]	10-Jan-24	14:30	11-Jan-24	12:37	80 (RAA)	5.3	5.3 <MDL
Chloroacetic Acid [ug/L]	10-Jan-24	14:30	11-Jan-24	12:37	---	4.7	4.7 <MDL
Bromoacetic Acid [ug/L]	10-Jan-24	14:30	11-Jan-24	12:37	---	2.9	2.9 <MDL
Dichloroacetic Acid [ug/L]	10-Jan-24	14:30	11-Jan-24	12:37	---	2.6	3.5
Dibromoacetic Acid [ug/L]	10-Jan-24	14:30	11-Jan-24	12:37	---	2.0	2.0 <MDL
Trichloroacetic Acid [ug/L]	10-Jan-24	14:30	11-Jan-24	12:37	---	5.3	5.3 <MDL

MAC - Maximum Acceptable Concentration
MDL - SGS Method Detection Limit

Method Descriptions

Units	Description	SGS Method Code
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004



Works #: 260002915

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA30124-JAN24

Carrie Greenlaw
Carrie Greenlaw
Project Specialist,
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

12-January-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 10 January 2024
LR Report: CA20514-JAN24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	10-Jan-24	10-Jan-24	10-Jan-24	10-Jan-24
2: Analysis Start Time		---	---	16:55	16:55	16:55	16:30
3: Analysis Completed Date		---	---	12-Jan-24	12-Jan-24	12-Jan-24	12-Jan-24
4: Analysis Completed Time		---	---	10:59	10:59	10:59	13:46
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	09-Jan-24 13:55	8.2	1.31	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

Angela Stott, B.Sc.
Branch Manager-London
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

19-January-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 17 January 2024
LR Report: CA20804-JAN24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	17-Jan-24	17-Jan-24	17-Jan-24	17-Jan-24
2: Analysis Start Time		---	---	16:30	16:30	16:30	15:50
3: Analysis Completed Date		---	---	19-Jan-24	19-Jan-24	19-Jan-24	19-Jan-24
4: Analysis Completed Time		---	---	14:07	14:07	14:07	14:07
5: MAC		---	---	0	0	---	---
6: 1A106 DW Me-09	16-Jan-24 13:11	5.3	1.29	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Crista Schuster
Project Specialist-London,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

26-January-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 24 January 2024
LR Report: CA21074-JAN24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	24-Jan-24	24-Jan-24	24-Jan-24	24-Jan-24
2: Analysis Start Time		---	---	16:15	16:15	16:15	15:45
3: Analysis Completed Date		---	---	26-Jan-24	26-Jan-24	26-Jan-24	26-Jan-24
4: Analysis Completed Time		---	---	14:53	14:53	14:53	14:53
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	23-Jan-24 12:50	4.1	1.30	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Crista Schuster
Project Specialist-London,
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

09-February-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 07 February 2024
LR Report: CA20272-FEB24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	07-Feb-24	07-Feb-24	07-Feb-24	07-Feb-24
2: Analysis Start Time		---	---	18:15	18:15	18:15	16:55
3: Analysis Completed Date		---	---	09-Feb-24	09-Feb-24	09-Feb-24	09-Feb-24
4: Analysis Completed Time		---	---	16:36	16:36	16:36	16:36
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	06-Feb-24 10:26	6.7	1.21	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Crista Schuster
Project Specialist-London,
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

16-February-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 14 February 2024
LR Report: CA20547-FEB24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	14-Feb-24	14-Feb-24
2: Analysis Start Time		---	17:15	17:15
3: Analysis Completed Date		---	16-Feb-24	16-Feb-24
4: Analysis Completed Time		---	16:08	16:08
5: MAC		---	0	0
6: 1A0FC RW Well #2	13-Feb-24 11:37	7.8	0	0
7: 1A0FD RW Well #3	13-Feb-24 11:33	7.8	0	0

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Crista Schuster
Project Specialist-London,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

23-February-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 21 February 2024
LR Report: CA20824-FEB24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	21-Feb-24	21-Feb-24	21-Feb-24	21-Feb-24
2: Analysis Start Time		---	---	15:45	15:45	15:45	15:15
3: Analysis Completed Date		---	---	23-Feb-24	23-Feb-24	23-Feb-24	23-Feb-24
4: Analysis Completed Time		---	---	13:00	13:00	13:00	13:00
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	20-Feb-24 12:12	5.9	1.49	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Crista Schuster
Project Specialist-London,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

08-March-2024
Mun of Middlesex Centre (Melrose)
Attn : Brian Watson

Date Rec. : 06 March 2024
LR Report: CA20267-MAR24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	06-Mar-24	06-Mar-24	06-Mar-24	06-Mar-24
2: Analysis Start Time		---	---	15:55	15:55	15:55	15:20
3: Analysis Completed Date		---	---	08-Mar-24	08-Mar-24	08-Mar-24	08-Mar-24
4: Analysis Completed Time		---	---	14:34	14:34	14:34	14:34
5: MAC		---	---	0	0	---	---
6: 1A0FC RW Well #2	05-Mar-24 11:05	7.1	---	0	0	---	---
7: 1A0FD RW Well #3	05-Mar-24 11:06	7.1	---	0	0	---	---
8: 1A106 DW Sample Station	05-Mar-24 12:01	7.1	1.38	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Cristal Schuster
 Project Specialist-London,
 Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

18-March-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 13 March 2024
LR Report: CA30271-MAR24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt at London Lab °C	Temperature Upon Receipt at Lakefield Lab °C	Field pH	Alkalinity mg/L as CaCO ₃	Lead ug/L
1: Analysis Start Date		---	---	---	14-Mar-24	18-Mar-24
2: Analysis Start Time		---	---	---	13:08	07:00
3: Analysis Completed Date		---	---	---	15-Mar-24	18-Mar-24
4: Analysis Completed Time		---	---	---	13:14	10:50
5: MAC		---	---	---	---	10
6: AO/OG		---	---	6.5-8.5	30-500	---
7: MDL		---	---	---	2	0.01
8: DW Sample Station - Wynfield 1st	12-Mar-24 12:22	8.4	10.0	7.51	---	0.14
9: DW Sample Station - Wynfield 2nd	12-Mar-24 12:22	8.4	10.0	7.51	234	---

MAC - Maximum Acceptable Concentration
AO/OG - Aesthetic Objective / Operational Guideline
MDL - SGS Method Detection Limit

Method Descriptions

Parameter	Description	SGS Method Code
Alkalinity	Alkalinity by Titration	ME-CA-[ENV]EWL-LAK-AN-006
Lead	Lead by ICP-MS Drinking Water	ME-CA-[ENV]SPE-LAK-AN-006

Hawley Anderson, Hon.B.Sc
Project Specialist,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

25-March-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 20 March 2024
LR Report: CA20873-MAR24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	20-Mar-24	20-Mar-24	20-Mar-24	20-Mar-24
2: Analysis Start Time		---	---	16:20	16:20	16:20	15:55
3: Analysis Completed Date		---	---	22-Mar-24	22-Mar-24	22-Mar-24	22-Mar-24
4: Analysis Completed Time		---	---	16:35	16:35	16:35	16:35
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	19-Mar-24 10:28	6.1	1.08	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Crista Schuster
 Project Specialist-London,
 Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

05-April-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 03 April 2024

LR Report: CA20174-APR24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

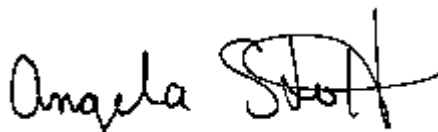
Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	03-Apr-24	03-Apr-24	03-Apr-24	03-Apr-24
2: Analysis Start Time		---	---	16:50	16:50	16:50	16:25
3: Analysis Completed Date		---	---	05-Apr-24	05-Apr-24	05-Apr-24	05-Apr-24
4: Analysis Completed Time		---	---	15:06	15:06	15:06	15:06
5: MAC		---	---	0	0	---	---
6: 1A0FC RW Well #2	02-Apr-24 10:06	6.6	---	0	0	---	---
7: 1A0FD RW Well #3	02-Apr-24 10:10	6.6	---	0	0	---	---
8: 1A106 DW Sample Station	02-Apr-24 10:48	6.6	1.24	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Angela Stott, B.Sc.
Branch Manager-London
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

08-April-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 03 April 2024

LR Report: CA30074-APR24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: MAC	6: MDL	7: 1A106 DW Sample Station	8: 1A102 TW Water Treatment Facility
Sample Date & Time							02-Apr-24 10:48	02-Apr-24 10:03
Temperature Upon Receipt [at London Lab °C]	---	---	---	---	---	---	6.6	6.6
Temperature Upon Receipt [at Lakefield Lab °C]	---	---	---	---	---	---	8.0	8.0
Field Free Chlorine [mg/L]	---	---	---	---	---	---	1.24	---
Nitrite (as N) [mg/L]	05-Apr-24	19:14	08-Apr-24	10:19	1.0	0.003	---	0.003 <MDL
Nitrate (as N) [mg/L]	05-Apr-24	19:14	08-Apr-24	10:19	10	0.006	---	0.006 <MDL
Nitrate + Nitrite (as N) [mg/L]	05-Apr-24	19:14	08-Apr-24	10:19	---	0.006	---	0.006 <MDL
Trihalomethanes (total) [ug/L]	04-Apr-24	14:16	05-Apr-24	10:26	100 (RAA)	0.37	13	---
Bromodichloromethane [ug/L]	04-Apr-24	14:16	05-Apr-24	10:26	---	0.26	4.2	---
Bromoform [ug/L]	04-Apr-24	14:16	05-Apr-24	10:26	---	0.34	0.34 <MDL	---
Chloroform [ug/L]	04-Apr-24	14:16	05-Apr-24	10:26	---	0.29	6.2	---
Dibromochloromethane [ug/L]	04-Apr-24	14:16	05-Apr-24	10:26	---	0.37	2.7	---
Total Haloacetic Acids (HAA5) [ug/L]	05-Apr-24	06:29	08-Apr-24	09:43	80 (RAA)	5.3	5.3 <MDL	---
Chloroacetic Acid [ug/L]	05-Apr-24	06:29	08-Apr-24	09:43	---	4.7	4.7 <MDL	---
Bromoacetic Acid [ug/L]	05-Apr-24	06:29	08-Apr-24	09:43	---	2.9	2.9 <MDL	---
Dichloroacetic Acid [ug/L]	05-Apr-24	06:29	08-Apr-24	09:43	---	2.6	2.9	---
Dibromoacetic Acid [ug/L]	05-Apr-24	06:29	08-Apr-24	09:43	---	2.0	2.0 <MDL	---
Trichloroacetic Acid [ug/L]	05-Apr-24	06:29	08-Apr-24	09:43	---	5.3	5.3 <MDL	---

MAC - Maximum Acceptable Concentration

MDL - SGS Method Detection Limit

Method Descriptions

Units	Description	SGS Method Code
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
mg/L	Nitrate by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
mg/L	Total Nitrate/Nitrite by Ion Chromatograph	ME-CA-[ENV]IC-LAK-AN-001
mg/L	Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013

SGS Canada Inc.

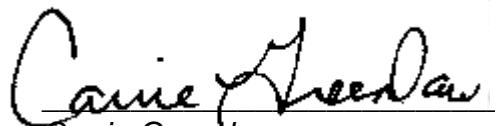
P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA30074-APR24

Units	Description	SGS Method Code
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004



Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

23-April-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 17 April 2024

LR Report: CA20901-APR24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	17-Apr-24	17-Apr-24	17-Apr-24	17-Apr-24
2: Analysis Start Time		---	---	17:10	17:10	17:10	16:25
3: Analysis Completed Date		---	---	23-Apr-24	23-Apr-24	23-Apr-24	23-Apr-24
4: Analysis Completed Time		---	---	14:47	14:47	14:47	14:47
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	16-Apr-24 10:41	9.3	1.56	0	0	0	NDOGHPC

MAC - Maximum Acceptable Concentration
NDOGHPC - No Data: Overgrown with HPC

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Crista Schuster
 Project Specialist-London,
 Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

06-May-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 01 May 2024

LR Report: CA20084-MAY24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	01-May-24	01-May-24	01-May-24	01-May-24
2: Analysis Start Time		---	---	18:45	18:45	18:45	18:20
3: Analysis Completed Date		---	---	06-May-24	06-May-24	06-May-24	06-May-24
4: Analysis Completed Time		---	---	10:15	10:15	10:15	10:15
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	30-Apr-24 10:15	4.8	1.29	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Crista Schuster
Project Specialist-London,
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

10-May-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 08 May 2024

LR Report: CA20446-MAY24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	08-May-24	08-May-24
2: Analysis Start Time		---	16:50	16:50
3: Analysis Completed Date		---	10-May-24	10-May-24
4: Analysis Completed Time		---	14:40	14:40
5: MAC		---	0	0
6: 1A0FC RW Well #2	07-May-24 11:50	16.8	0	0
7: 1A0FD RW Well #3	07-May-24 11:52	16.8	0	0

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Crista Schuster
Project Specialist-London,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

17-May-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 15 May 2024

LR Report: CA20822-MAY24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	15-May-24	15-May-24	15-May-24	15-May-24
2: Analysis Start Time		---	---	16:05	16:05	16:05	15:40
3: Analysis Completed Date		---	---	17-May-24	17-May-24	17-May-24	17-May-24
4: Analysis Completed Time		---	---	13:51	13:51	13:51	13:51
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	14-May-24 13:35	8.4	1.26	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Cristal Schuster
Project Specialist-London,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

31-May-2024
Mun of Middlesex Centre (Melrose)
Attn : Brian Watson
Date Rec. : 29 May 2024

LR Report: CA21519-MAY24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	29-May-24	29-May-24	29-May-24	29-May-24
2: Analysis Start Time		---	---	14:55	14:55	14:55	14:20
3: Analysis Completed Date		---	---	31-May-24	31-May-24	31-May-24	31-May-24
4: Analysis Completed Time		---	---	14:43	14:43	14:43	14:43
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	28-May-24 11:35	7.7	1.10	0	0	0	10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Cristal Schuster
Project Specialist-London,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

07-June-2024

Mun of Middlesex Centre (Melrose)
Attn : Brian Watson

Date Rec. : 05 June 2024
LR Report: CA20297-JUN24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	05-Jun-24	05-Jun-24
2: Analysis Start Time		---	17:50	17:50
3: Analysis Completed Date		---	07-Jun-24	07-Jun-24
4: Analysis Completed Time		---	15:13	15:13
5: MAC		---	0	0
6: 1A0FC RW Well #2	04-Jun-24 09:16	13.3	1	0
7: 1A0FD RW Well #3	04-Jun-24 09:19	14.5	3	0

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Crista Schuster
 Project Specialist-London,
 Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

17-June-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 12 June 2024
LR Report: CA20658-JUN24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	12-Jun-24	12-Jun-24	12-Jun-24	12-Jun-24
2: Analysis Start Time		---	---	17:15	17:15	17:15	16:50
3: Analysis Completed Date		---	---	14-Jun-24	14-Jun-24	14-Jun-24	14-Jun-24
4: Analysis Completed Time		---	---	15:11	15:11	15:11	15:11
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	11-Jun-24 10:30	11.8	1.08	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

Angela Stott, B.Sc.
Branch Manager-London
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

28-June-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 26 June 2024
LR Report: CA21484-JUN24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	26-Jun-24	26-Jun-24	26-Jun-24	26-Jun-24
2: Analysis Start Time		---	---	17:30	17:30	17:30	16:55
3: Analysis Completed Date		---	---	28-Jun-24	28-Jun-24	28-Jun-24	28-Jun-24
4: Analysis Completed Time		---	---	15:50	15:50	15:50	15:50
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	25-Jun-24 12:09	10.6	1.24	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

Angela Stott, B.Sc.
Branch Manager-London
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

08-July-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 03 July 2024
LR Report: CA20174-JUL24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	03-Jul-24	03-Jul-24
2: Analysis Start Time		---	16:55	16:55
3: Analysis Completed Date		---	05-Jul-24	05-Jul-24
4: Analysis Completed Time		---	16:01	16:01
5: MAC		---	0	0
6: 1A0FC RW Well #2	02-Jul-24 13:46	14.9	0	0
7: 1A0FD RW Well #3	02-Jul-24 13:54	14.9	0	0

MAC - Maximum Acceptable Concentration

Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

Angela Stott, B.Sc.
Branch Manager-London
Environment, Health & Safety



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

Works #: 260002915

11-July-2024

Date Rec. : 03 July 2024
LR Report: CA30071-JUL24

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: MAC	6: MDL	7: 1A106 DW Sample Station	8: 1A102 TW Water Treatment Facility
Sample Date & Time							02-Jul-24 14:40	02-Jul-24 13:08
Temperature Upon Receipt [at London Lab °C]	---	---	---	---	---	---	14.9	14.9
Temperature Upon Receipt [at Lakefield Lab °C]	---	---	---	---	---	---	15.0	15.0
Field Free Chlorine [mg/L]	---	---	---	---	---	---	1.30	---
Nitrite (as N) [mg/L]	06-Jul-24	10:35	08-Jul-24	15:31	1.0	0.003	---	0.003 <MDL
Nitrate (as N) [mg/L]	06-Jul-24	10:35	08-Jul-24	15:31	10	0.006	---	0.006
Nitrate + Nitrite (as N) [mg/L]	06-Jul-24	10:35	08-Jul-24	15:31	---	0.006	---	0.006
Trihalomethanes (total) [ug/L]	05-Jul-24	10:03	08-Jul-24	12:37	100 (RAA)	0.37	15	---
Bromodichloromethane [ug/L]	05-Jul-24	10:03	08-Jul-24	12:37	---	0.26	4.9	---
Bromoform [ug/L]	05-Jul-24	10:03	08-Jul-24	12:37	---	0.34	0.34 <MDL	---
Chloroform [ug/L]	05-Jul-24	10:03	08-Jul-24	12:37	---	0.29	7.2	---
Dibromochloromethane [ug/L]	05-Jul-24	10:03	08-Jul-24	12:37	---	0.37	2.8	---
Total Haloacetic Acids (HAA5) [ug/L]	09-Jul-24	07:45	10-Jul-24	14:18	80 (RAA)	5.3	5.3 <MDL	---
Chloroacetic Acid [ug/L]	09-Jul-24	07:45	10-Jul-24	14:18	---	4.7	4.7 <MDL	---
Bromoacetic Acid [ug/L]	09-Jul-24	07:45	10-Jul-24	14:18	---	2.9	2.9 <MDL	---
Dichloroacetic Acid [ug/L]	09-Jul-24	07:45	10-Jul-24	14:18	---	2.6	2.7	---
Dibromoacetic Acid [ug/L]	09-Jul-24	07:45	10-Jul-24	14:18	---	2.0	2.0 <MDL	---
Trichloroacetic Acid [ug/L]	09-Jul-24	07:45	10-Jul-24	14:18	---	5.3	5.3 <MDL	---



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - K0L 2H0

Phone: 705-652-2000 FAX: 705-652-6365

Works #: 260002915

LR Report : CA30071-JUL24

MAC - Maximum Acceptable Concentration

MDL - SGS Method Detection Limit

Method Descriptions

Parameter	Description	SGS Method Code
Bromoacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Bromodichloromethane	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
Bromoform	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
Chloroacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Chloroform	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
Dibromoacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Dibromochloromethane	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
Dichloroacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Nitrate (as N)	Nitrate by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
Nitrate + Nitrite (as N)	Total Nitrate/Nitrite by Ion Chromatograph	ME-CA-[ENV]IC-LAK-AN-001
Nitrite (as N)	Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
Total Haloacetic Acids (HAA5)	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Trichloroacetic Acid	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
Trihalomethanes (total)	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004

Hawley Anderson, Hon.B.Sc
Project Specialist,
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

15-July-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 10 July 2024
LR Report: CA20601-JUL24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	10-Jul-24	10-Jul-24	10-Jul-24	10-Jul-24
2: Analysis Start Time		---	---	18:15	18:15	18:15	17:50
3: Analysis Completed Date		---	---	15-Jul-24	15-Jul-24	15-Jul-24	15-Jul-24
4: Analysis Completed Time		---	---	09:17	09:17	09:17	09:17
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	09-Jul-24 09:50	3.6	1.37	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Crista Schuster
Project Specialist-London,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

29-July-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 24 July 2024
LR Report: CA21372-JUL24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	24-Jul-24	24-Jul-24	24-Jul-24	24-Jul-24
2: Analysis Start Time		---	---	16:20	16:20	16:20	15:39
3: Analysis Completed Date		---	---	26-Jul-24	26-Jul-24	26-Jul-24	26-Jul-24
4: Analysis Completed Time		---	---	16:27	16:27	16:27	16:27
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	23-Jul-24 10:20	11.5	1.14	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Crista Schuster
 Project Specialist-London,
 Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

09-August-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 07 August 2024

LR Report: CA20281-AUG24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	07-Aug-24	07-Aug-24	07-Aug-24	07-Aug-24
2: Analysis Start Time		---	---	14:40	14:40	14:40	14:00
3: Analysis Completed Date		---	---	09-Aug-24	09-Aug-24	09-Aug-24	09-Aug-24
4: Analysis Completed Time		---	---	13:26	13:26	13:26	13:26
5: MAC		---	---	0	0	---	---
6: 1A0FC RW Well #2	06-Aug-24 13:42	12.4	---	0	0	---	---
7: 1A0FD RW Well #3	06-Aug-24 13:45	12.4	---	0	0	---	---
8: 1A106 DW Sample Station	06-Aug-24 13:23	12.4	1.18	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Crista Schuster
Project Specialist-London,
Environment, Health & Safety

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

15-August-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 07 August 2024
LR Report: CA30105-AUG24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt at London Lab °C	Temperature Upon Receipt at Lakefield Lab °C	Field pH	Alkalinity mg/L as CaCO ₃	Lead ug/L
1: Analysis Start Date		---	---	---	---	12-Aug-24
2: Analysis Start Time		---	---	---	---	07:00
3: Analysis Completed Date		---	---	---	---	12-Aug-24
4: Analysis Completed Time		---	---	---	---	09:27
5: MAC		---	---	---	---	10
6: AO/OG		---	---	6.5-8.5	30-500	---
7: MDL		---	---	---	2	0.01
8: DW Sample Station - Wynfield 1st	06-Aug-24 13:25	6.8	9.0	7.9	---	0.18
9: DW Sample Station - Wynfield 2nd	06-Aug-24 13:25	6.8	9.0	7.9	NDLA	---

MAC - Maximum Acceptable Concentration
AO/OG - Aesthetic Objective / Operational Guideline
MDL - SGS Method Detection Limit

NDLA - No Data: Laboratory Accident/Error - Sample container for Alkalinity analysis was preserved in error at the Laboratory and was not able to be processed. Client was notified.

Method Descriptions

Units	Description	SGS Method Code
mg/L as CaCO ₃	Alkalinity by Titration	ME-CA-[ENV]EWL-LAK-AN-006
ug/L	Lead by ICP-MS Drinking Water	ME-CA-[ENV]SPE-LAK-AN-006


 Carrie Greenlaw
 Project Specialist,
 Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

23-August-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 21 August 2024
LR Report: CA21110-AUG24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	21-Aug-24	21-Aug-24	21-Aug-24	21-Aug-24
2: Analysis Start Time		---	---	16:45	16:45	16:45	15:48
3: Analysis Completed Date		---	---	23-Aug-24	23-Aug-24	23-Aug-24	23-Aug-24
4: Analysis Completed Time		---	---	15:11	15:11	15:11	15:11
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	20-Aug-24 10:15	8.6	1.32	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

Angela Stott, B.Sc.
Branch Manager-London
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2H0
Phone: 705-652-2000 FAX: 705-652-6365

27-August-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 21 August 2024
LR Report: CA30478-AUG24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt at London Lab °C	Temperature Upon Receipt at Lakefield Lab °C	Field pH	Alkalinity mg/L as CaCO3	Lead ug/L
1: Analysis Start Date		---	---	---	23-Aug-24	26-Aug-24
2: Analysis Start Time		---	---	---	11:35	08:19
3: Analysis Completed Date		---	---	---	26-Aug-24	26-Aug-24
4: Analysis Completed Time		---	---	---	09:48	10:30
5: MAC		---	---	---	---	10
6: AO/OG		---	---	6.5-8.5	30-500	---
7: MDL		---	---	---	2	0.01
8: DW Sample Station Sample Station - Wynfield Melrose 1st	20-Aug-24 10:16	8.9	9.0	8.0	---	0.16
9: DW Sample Station Sample Station - Wynfield Melrose 2nd	20-Aug-24 10:16	8.9	9.0	8.0	218	---

MAC - Maximum Acceptable Concentration
AO/OG - Aesthetic Objective / Operational Guideline
MDL - SGS Method Detection Limit

Method Descriptions

Units	Description	SGS Method Code
mg/L as CaCO3	Alkalinity by Titration	ME-CA-[ENV]EWL-LAK-AN-006
ug/L	Lead by ICP-MS Drinking Water	ME-CA-[ENV]SPE-LAK-AN-006


Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

06-September-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 04 September 2024
LR Report: CA20164-SEP24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	04-Sep-24	04-Sep-24	04-Sep-24	04-Sep-24
2: Analysis Start Time		---	---	17:25	17:25	17:25	16:40
3: Analysis Completed Date		---	---	06-Sep-24	06-Sep-24	06-Sep-24	06-Sep-24
4: Analysis Completed Time		---	---	14:45	14:45	14:45	14:45
5: MAC		---	---	0	0	---	---
6: 1A0FC RW Well #2	03-Sep-24 08:56	14.6	---	0	0	---	---
7: 1A0FD RW Well #3	03-Sep-24 08:51	14.6	---	0	0	---	---
8: 1A106 DW Sample Station	03-Sep-24 09:58	14.6	1.37	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Cristal Schuster
Project Specialist-London,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

20-September-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 18 September 2024
LR Report: CA20983-SEP24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	18-Sep-24	18-Sep-24	18-Sep-24	18-Sep-24
2: Analysis Start Time		---	---	18:30	18:30	18:30	17:30
3: Analysis Completed Date		---	---	20-Sep-24	20-Sep-24	20-Sep-24	20-Sep-24
4: Analysis Completed Time		---	---	15:24	15:24	15:24	15:24
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	17-Sep-24 13:20	8.1	1.26	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Crista Schuster
Project Specialist-London,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

07-October-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 02 October 2024

LR Report: CA20229-OCT24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	02-Oct-24	02-Oct-24	02-Oct-24	02-Oct-24
2: Analysis Start Time		---	---	17:15	17:15	17:15	16:50
3: Analysis Completed Date		---	---	07-Oct-24	07-Oct-24	07-Oct-24	07-Oct-24
4: Analysis Completed Time		---	---	09:28	09:28	09:28	09:28
5: MAC		---	---	0	0	---	---
6: 1A0FC RW Well #2	01-Oct-24 12:42	8.5	---	0	0	---	---
7: 1A0FC RW Well #3	01-Oct-24 12:42	8.5	---	0	0	---	---
8: 1A106 DW Sample Station	01-Oct-24 12:53	8.5	1.19	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code	PALA
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001	N
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002	N
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001	N
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001	N

Accreditation Descriptions

PALA:

SGS Canada Industries & Environment conforms to the requirements of ISO/IEC 17025: 2005 for specific tests as listed on their scope of accreditation found at https://www.ceaegouv.qc.ca/documents/publications/listes.htm#labo_accr. Analytes and SGS Method Codes marked with a "Y" in the "PALA" column in the table denote ISO/IEC17025: 2005 accreditation


Cristal Schuster
 Project Specialist-London,
 Environment, Health & Safety



SGS Canada Inc.

657 Consortium Court

London - Ontario - N6E 2S8

Phone: 519-672-4500 FAX: 519-672-0361

Works #: 260002915

LR Report : CA20229-OCT24



Works #: 260002915

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
 Lakefield - Ontario - K0L 2H0
 Phone: 705-652-2000 FAX: 705-652-6365

08-October-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 02 October 2024

LR Report: CA30085-OCT24

10227 Ilderton Rd.
 Ilderton, ON
 N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
 Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: MAC	6: MDL	7: 1A106 DW Sample Station	8: 1A102 TW Water Treatment Facility
Sample Date & Time							01-Oct-24 12:53	01-Oct-24 12:39
Temperature Upon Receipt [at London Lab °C]	---	---	---	---	---	---	8.5	8.5
Temperature Upon Receipt [at Lakefield Lab °C]	---	---	---	---	---	---	12.0	12.0
Field Free Chlorine [mg/L]	---	---	---	---	---	---	1.19	---
Nitrite (as N) [mg/L]	04-Oct-24	10:55	07-Oct-24	13:38	1.0	0.003	---	0.003 <MDL
Nitrate (as N) [mg/L]	04-Oct-24	10:55	07-Oct-24	13:38	10	0.006	---	0.006
Nitrate + Nitrite (as N) [mg/L]	04-Oct-24	10:55	07-Oct-24	13:38	---	0.006	---	0.006
Trihalomethanes (total) [ug/L]	07-Oct-24	10:29	08-Oct-24	13:28	100 (RAA)	0.37	16	---
Bromodichloromethane [ug/L]	07-Oct-24	10:29	08-Oct-24	13:28	---	0.26	5.3	---
Bromoform [ug/L]	07-Oct-24	10:29	08-Oct-24	13:28	---	0.34	0.34 <MDL	---
Chloroform [ug/L]	07-Oct-24	10:29	08-Oct-24	13:28	---	0.29	7.9	---
Dibromochloromethane [ug/L]	07-Oct-24	10:29	08-Oct-24	13:28	---	0.37	2.8	---
Total Haloacetic Acids (HAA5) [ug/L]	07-Oct-24	07:46	08-Oct-24	10:48	80 (RAA)	5.3	5.3 <MDL	---
Chloroacetic Acid [ug/L]	07-Oct-24	07:46	08-Oct-24	10:48	---	4.7	4.7 <MDL	---
Bromoacetic Acid [ug/L]	07-Oct-24	07:46	08-Oct-24	10:48	---	2.9	2.9 <MDL	---
Dichloroacetic Acid [ug/L]	07-Oct-24	07:46	08-Oct-24	10:48	---	2.6	2.6 <MDL	---
Dibromoacetic Acid [ug/L]	07-Oct-24	07:46	08-Oct-24	10:48	---	2.0	2.0 <MDL	---
Trichloroacetic Acid [ug/L]	07-Oct-24	07:46	08-Oct-24	10:48	---	5.3	5.3 <MDL	---

MAC - Maximum Acceptable Concentration

MDL - SGS Method Detection Limit

Method Descriptions

Units	Description	SGS Method Code
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
mg/L	Nitrate by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
mg/L	Total Nitrate/Nitrite by Ion Chromatograph	ME-CA-[ENV]IC-LAK-AN-001
mg/L	Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013

SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2H0
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA30085-OCT24

Units	Description	SGS Method Code
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004



Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

18-October-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 16 October 2024

LR Report: CA20897-OCT24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	16-Oct-24	16-Oct-24	16-Oct-24	16-Oct-24
2: Analysis Start Time		---	---	15:55	15:55	15:55	15:35
3: Analysis Completed Date		---	---	18-Oct-24	18-Oct-24	18-Oct-24	18-Oct-24
4: Analysis Completed Time		---	---	13:10	13:10	13:10	13:10
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	15-Oct-24 09:25	7.1	1.31	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Crista Schuster
 Project Specialist-London,
 Environment, Health & Safety

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

04-November-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 30 October 2024

LR Report: CA21653-OCT24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

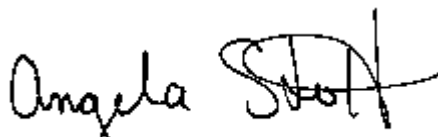
Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	30-Oct-24	30-Oct-24	30-Oct-24	30-Oct-24
2: Analysis Start Time		---	---	17:55	17:55	17:55	17:40
3: Analysis Completed Date		---	---	01-Nov-24	01-Nov-24	01-Nov-24	01-Nov-24
4: Analysis Completed Time		---	---	15:33	15:33	15:33	15:33
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	29-Oct-24 13:51	5.9	1.38	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Angela Stott, B.Sc.
Branch Manager-London
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

08-November-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 06 November 2024
LR Report: CA20319-NOV24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	06-Nov-24	06-Nov-24
2: Analysis Start Time		---	17:35	17:35
3: Analysis Completed Date		---	08-Nov-24	08-Nov-24
4: Analysis Completed Time		---	14:59	14:59
5: MAC		---	0	0
6: 1A0FC RW Well #2	05-Nov-24 12:25	4.4	0	0
7: 1A0FD RW Well #3	05-Nov-24 12:27	4.9	0	0

MAC - Maximum Acceptable Concentration

Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Cristal Schuster
Project Specialist-London,
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

15-November-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 13 November 2024
LR Report: CA20608-NOV24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	13-Nov-24	13-Nov-24	13-Nov-24	13-Nov-24
2: Analysis Start Time		---	---	17:40	17:40	17:40	16:50
3: Analysis Completed Date		---	---	15-Nov-24	15-Nov-24	15-Nov-24	15-Nov-24
4: Analysis Completed Time		---	---	15:08	15:08	15:08	15:08
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	12-Nov-24 14:44	6.6	1.17	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Cristal Schuster
Project Specialist-London,
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

29-November-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 27 November 2024
LR Report: CA21271-NOV24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	27-Nov-24	27-Nov-24	27-Nov-24	27-Nov-24
2: Analysis Start Time		---	---	13:20	13:20	13:20	12:40
3: Analysis Completed Date		---	---	29-Nov-24	29-Nov-24	29-Nov-24	29-Nov-24
4: Analysis Completed Time		---	---	11:28	11:28	11:28	11:28
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	26-Nov-24 10:30	8.1	1.30	0	0	0	340

MAC - Maximum Acceptable Concentration

Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



Cristal Schuster
Project Specialist-London,
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

06-December-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 04 December 2024
LR Report: CA20288-DEC24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	04-Dec-24	04-Dec-24
2: Analysis Start Time		---	16:30	16:30
3: Analysis Completed Date		---	06-Dec-24	06-Dec-24
4: Analysis Completed Time		---	14:41	14:41
5: MAC		---	0	0
6: 1A0FC RW Well #2	03-Dec-24 14:38	6.6	0	0
7: 1A0FD RW Well #3	03-Dec-24 14:40	7.2	0	0

MAC - Maximum Acceptable Concentration

Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Cristal Schuster
Project Specialist-London,
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

16-December-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 11 December 2024
LR Report: CA20606-DEC24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	11-Dec-24	11-Dec-24	11-Dec-24	11-Dec-24
2: Analysis Start Time		---	---	17:40	17:40	17:40	17:15
3: Analysis Completed Date		---	---	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24
4: Analysis Completed Time		---	---	15:29	15:29	15:29	15:29
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	10-Dec-24 13:24	5.0	1.24	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Crista Schuster
Project Specialist-London,
Environment, Health & Safety



Works #: 260002915

SGS Canada Inc.

657 Consortium Court
London - Ontario - N6E 2S8
Phone: 519-672-4500 FAX: 519-672-0361

27-December-2024

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 23 December 2024
LR Report: CA21088-DEC24

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	23-Dec-24	23-Dec-24	23-Dec-24	23-Dec-24
2: Analysis Start Time		---	---	16:25	16:25	16:25	16:00
3: Analysis Completed Date		---	---	27-Dec-24	27-Dec-24	27-Dec-24	27-Dec-24
4: Analysis Completed Time		---	---	09:08	09:08	09:08	09:08
5: MAC		---	---	0	0	---	---
6: DW Hydrant Me-10	23-Dec-24 10:06	12.0	1.34	0	0	0	< 10

MAC - Maximum Acceptable Concentration

Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001


Crista Schuster
Project Specialist-London,
Environment, Health & Safety

Appendix B – Drinking Water System Forms 2(A) & 2(B)

Retain Completed Form - Do Not Send to the Ministry

Part 1 - Drinking Water Works Permit Number

(Insert the Drinking Water Works Permit number authorizing minor modifications or replacements to the Drinking Water System)
052-203-Issue 3

Part 2 - Description of Minor Modifications or Replacements (Use attachments if required)

Melrose Drinking Water System. Replacement of chlorine analyzer reservoir water supply pump (AIT-01).

The description shall include:

- 1) An identification of the system component being modified or replaced;
- 2) The location of the works being modified or replaced; and
- 3) A brief description of the modification or replacement

Part 3 - Verification by Owner

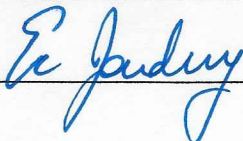
I hereby verify that

- 1) The minor modifications or replacements described in Part 2 of this form meets the requirements of the conditions of the Drinking Water Works Permit identified in Part 1 of this form which authorizes the minor modifications or replacements; and
- 2) I am authorized by the owner to complete this verification.

Name of Owner -
Municipality of Middlesex Centre

Name of Owner Representative
Eric Joudrey

Signature



Date (yyyy/mm/dd)

2024/08/22

Retain Completed Form - Do Not Send to the Ministry

Part 1 - Drinking Water Works Permit Number

(Insert the Drinking Water Works Permit number authorizing minor modifications or replacements to the Drinking Water System)
502-203 Issue 3

Part 2 - Description of Minor Modifications or Replacements (Use attachments if required)

Melrose Drinking Water System.

Replaced aeration reservoir level controller LIT-01 on 4-Dec-24.


The description shall include:

- 1) An identification of the system component being modified or replaced;
- 2) The location of the works being modified or replaced; and
- 3) A brief description of the modification or replacement

Part 3 - Verification by Owner

I hereby verify that

- 1) The minor modifications or replacements described in Part 2 of this form meets the requirements of the conditions of the Drinking Water Works Permit identified in Part 1 of this form which authorizes the minor modifications or replacements; and
- 2) I am authorized by the owner to complete this verification.

Name of Owner Municipality of Middlesex Centre	Name of Owner Representative Brian Watson
Signature 	Date (yyyy/mm/dd) 2024/12/04

Form 2 - Record of Minor Modifications or Replacements to the Drinking Water System

Retain Completed Form - Do Not Send to the Ministry

Part 1 - Drinking Water Works Permit Number

(Insert the Drinking Water Works Permit number authorizing minor modifications or replacements to the Drinking Water System)
502-203 Issue 3

Part 2 - Description of Minor Modifications or Replacements (Use attachments if required)

Melrose Drinking Water System.

Replaced distribution sample station on 12-Dec-24.

The description shall include:

- 1) An identification of the system component being modified or replaced;
- 2) The location of the works being modified or replaced; and
- 3) A brief description of the modification or replacement

Part 3 - Verification by Owner

I hereby verify that

- 1) The minor modifications or replacements described in Part 2 of this form meets the requirements of the conditions of the Drinking Water Works Permit identified in Part 1 of this form which authorizes the minor modifications or replacements; and
- 2) I am authorized by the owner to complete this verification.

Name of Owner
Municipality of Middlesex Centre

Name of Owner Representative
Brian Watson

Signature



Date (yyyy/mm/dd)

2024/12/12