



2021 Annual Performance & Summary Report Birr Drinking Water System

Date: February 15, 2022

*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 is preparing a report summarizing system operation and water quality for every municipal drinking water system annually. The reports detail the latest water quality testing results, water quantity statistics and any adverse conditions that may have occurred for the previous year. They are available for review by the end of February on the Municipality of Middlesex Centre website at www.middlesexcentre.on.ca/services/residents/water or by contacting the Public Works & Engineering Department.

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 | Birr Well Supply System |
| Drinking Water System Number | 220005492 |
| 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, 2021 to December 31, 2021 |

Section A – System Description

The Birr Drinking Water System is owned by the Municipality of Middlesex Centre and operated by the Municipality of Middlesex Centre. The Birr Drinking Water System is a ground water supply system serving the Village of Birr that presently services 18 lots on Gwendolyn St with an estimated population of 53 residents. This system consists of one (1) drilled well, rated at 88m³/day operating under the Permit to Take Water # 3415-A3JHTY. Raw well water is pumped from the well into a concrete reservoir. The water is disinfected using a sodium hypochlorite disinfection system, consisting of one storage tank and two chemical metering pumps (one duty and one standby) with a feed line discharging into the underground reservoir. Two submersible high lift pumps, then pump the water through a 150mm water main to the distribution system. The system operates under Municipal Drinking Water License Number 052-104 and Drinking Water Works Permit Number 052-204.

The system is maintained by licensed water system operators, who operate treatment and monitoring equipment and collect samples as specified by the Regulation. Alarms

automatically notify operators in the event of failure of critical operational requirements. The water treatment chemicals used on site is a 6% sodium hypochlorite solution.

Section B – Significant Modifications & Replacements

| Modifications & Replacements | |
|---|--------------|
| Replaced distribution piping from pressure tanks to discharge flange including new sample tap, replaced chlorine injector and associated chemical line and raw water piping, replaced 1" isolation valve on bypass sample line coming into the building on April 14, 2021 | \$785.00 |
| Replaced ¼" supply piping and isolation valve to pressure switch. Also replaced pressure gauge on June 4, 2021 | \$ 130.00 |
| Birr reservoir inspection and hatch replacement on September 7 & 8, 2021 | \$ 16,000.80 |

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 monthly 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 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 2021 sampling program are shown on the table below. There were no adverse test results in this reporting period as shown in Table 2.

Table 2 – E. Coli & Total Coliform Samples

| | Number of Samples | Range of E.coli Results Min – Max | Range of Total Coliform Results Min – Max |
|--------------|-------------------|--------------------------------------|---|
| Raw | 12 | 0 | 0 |
| Distribution | 27 | 0 | 0 |

(II) Heterotrophic Plate Count (HPC)

HPC analyses are required from the distribution water 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 2021 results are shown in the table below.

Table 3 – Heterotrophic Plate Count (HPC) Samples

| Parameters | Number of Samples | Range of HPC Results Min-Max |
|--------------|-------------------|---------------------------------|
| Distribution | 27 | <10 - 10 |

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. If the concentration of a parameter is above half of the Maximum Allowable Concentration (MAC) under the Ontario Drinking Water Quality Standards, an increased testing frequency of once every three months is required by the Regulation. Where concerns regarding a parameter exist, the MECP can also require additional sampling be undertaken.

Nitrate and nitrate samples are required every 3 months in normal operation.

Table 4 – Quarterly Nitrate & Nitrite

| Parameter & Sample Date | Result (mg/l) | MAC (mg/l) | Exceedance |
|-------------------------|---------------|------------|------------|
| Nitrate | | | |
| 1st Quarter | 0.016 | 10 | No |
| 2nd Quarter | 0.015 | 10 | No |
| 3rd Quarter | 0.011 | 10 | No |
| 4th Quarter | <0.006 MDL | 10 | No |
| Nitrite | | | |
| 1st Quarter | <0.003 MDL | 1 | No |
| 2nd Quarter | <0.003 MDL | 1 | No |
| 3rd Quarter | <0.003 MDL | 1 | No |
| 4th Quarter | 0.004 | 1 | No |

*MDL = Minimum Detection Limit

Trihalomethanes (THM) and total Haloacetic Acids (HAA) are by-products of the disinfection process. The samples are required every 3 months from the distribution system.

Table 5 – Quarterly Trihalomethane & Haloacetic Acid

| Parameter & Sample Date | Result (mg/l) | Annual Rolling Average (mg/l) | MAC (mg/l) | Exceedance |
|-------------------------|---------------|-------------------------------|------------|------------|
| Trihalomethane | | | | |
| 1st Quarter | 52.0 | 58.50 | 100 | No |
| 2nd Quarter | 53.0 | 58.50 | 100 | No |
| 3rd Quarter | 50.0 | 55.23 | 100 | No |
| 4th Quarter | 58.0 | 53.25 | 100 | No |
| Haloacetic Acid (HAA) | | | | |
| 1st Quarter | 31.8 | 41.85 | 80 | No |
| 2nd Quarter | 37.5 | 42.38 | 80 | No |
| 3rd Quarter | 29.7 | 36.93 | 80 | No |
| 4th Quarter | 23.4 | 30.60 | 80 | No |

The following Table summarizes the most recent test results for Sodium and Fluoride. Samples collect and test at least one (1) water sample every 60 months (5 years) and report upon the results.

Table 6 – Sodium & Fluoride

| Parameter | Sample Date | Result Value (mg/L) | MAC (mg/L) |
|-----------|-----------------|---------------------|------------|
| Sodium | January 2, 2017 | 39.2* | 20 |
| Sodium | January 9, 2017 | 43.1* | 20 |
| Fluoride | January 2, 2017 | 1.34** | 1.5 |

**Sodium levels between 20 – 200 mg/L must be reported every 5 years. The next samples are scheduled for collection in 2022.*

***Natural levels of fluoride between 1.5 – 2.4 mg/L must be reported every 5 years.*

Sodium samples were collected in early 2022 with similar results to the previous samples collected in 2017.

The following Table summarizes the most recent results for the Lead Testing Program. Lead samples are twice per year, in the winter sample period and the summer sample period as outlined below. Alkalinity and pH are monitored twice per year in the distribution system to ensure water quality is consistent and does not facilitate leaching of lead into the water.

Table 7 – Lead Sampling

| Parameter | Result Value | MAC | Exceedance |
|------------------------------------|--------------|-----|------------|
| Winter Sample (Dec. 15 – April 15) | | | |
| Lead (µg/l) | 0.09 | 10 | No |
| Distribution Alkalinity (mg/l) | 198 | - | - |
| Distribution pH | 6.96 | - | - |
| Summer Sample (June 15 – Oct. 15) | | | |
| Lead (µg/l) | 0.13 | 10 | No |
| Distribution Alkalinity | 201 | - | - |
| Distribution pH | 7.45 | - | - |

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

The Birr Water System was been granted Regulatory Relief for lead sampling as outlined in Table 2, Schedule D Conditions for Relief from Regulatory Requirements in the Regulatory Drinking Water Licence # 052-104, Issue #7 dated April 23rd, 2021 and also granted Pandemic Related Temporary Regulatory Relief for the June 15, 2021 to October 15, 2021 lead sampling period. The notice is attached in Appendix B.

The following Table summarizes the most recent test results for Schedules 23 and 24. Testing is required every 5 years for secure groundwater wells.

Table 8 – Schedule 23 & 24

| Parameter | Sample Date | Treated Water Value (µg/l) | Exceedance |
|-----------|-------------|----------------------------|------------|
| Antimony | 01/02/2017 | ND | No |
| Arsenic | 01/02/2017 | ND | No |
| Barium | 01/02/2017 | 502 | No |
| Barium | 01/27/2017 | 489 | No |
| Barium | 10/02/2017 | 484 | No |
| Boron | 01/02/2017 | 201 | No |
| Cadmium | 01/02/2017 | 0.012 | No |
| Chromium | 01/02/2017 | 0.58 | No |
| Mercury | 01/02/2017 | ND | No |
| Selenium | 01/02/2017 | ND | No |

| Parameter | Sample Date | Treated Water Value (µg/l) | Exceedance |
|--|-------------|----------------------------|------------|
| Uranium | 01/02/2017 | 0.023 | No |
| Alachlor | 01/02/2017 | ND | No |
| Atrazine + N-dealkylated metabolites | 01/02/2017 | ND | No |
| Atrazine | 01/02/2017 | ND | No |
| Densethyl atrazine | 01/02/2017 | ND | No |
| Azinphos-methyl | 01/02/2017 | ND | No |
| Benzene | 01/02/2017 | ND | No |
| Benzo(a)pyrene | 01/02/2017 | ND | No |
| Bromoxynil | 01/02/2017 | ND | No |
| Carbaryl | 01/02/2017 | ND | No |
| Carbofuran | 01/02/2017 | ND | No |
| Carbon Tetrachloride | 01/02/2017 | ND | No |
| Chlorpyrifos | 01/02/2017 | ND | No |
| Chlorpyrifos | 01/02/2017 | ND | No |
| Diazinon | 01/02/2017 | ND | No |
| Dicamba | 01/02/2017 | ND | No |
| 1,2-Dichlorobenzene | 01/02/2017 | ND | No |
| 1,4-Dichlorobenzene | 01/02/2017 | ND | No |
| 1,2-Dichloroethane | 01/02/2017 | ND | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 01/02/2017 | ND | No |
| Dichloromethane | 01/02/2017 | ND | No |
| 2,4-Dichlorophenol | 01/02/2017 | ND | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 01/02/2017 | ND | No |
| Diclofop-methyl | 01/02/2017 | ND | No |
| Dimethoate | 01/02/2017 | ND | No |
| Diquat | 01/02/2017 | ND | No |
| Diuron | 01/02/2017 | ND | No |
| Glyphosate | 01/02/2017 | ND | No |
| Malathion | 01/02/2017 | ND | No |
| 2-methyl-4chlorophenoxyacetic acid (MCPA) | 01/02/2017 | ND | No |
| Metolachlor | 01/02/2017 | ND | No |
| Metribuzin | 01/02/2017 | ND | No |
| Monochlorobenzene | 01/02/2017 | ND | No |
| Paraquat | 01/02/2017 | ND | No |

| Parameter | Sample Date | Treated Water Value (µg/l) | Exceedance |
|--------------------------------|-------------|----------------------------|------------|
| Pentachlorophenol | 01/02/2017 | ND | No |
| Phorate | 01/02/2017 | ND | No |
| Picloram | 01/02/2017 | ND | No |
| Polychlorinated Biphenyls(PCB) | 01/02/2017 | ND | No |
| Prometryne | 01/02/2017 | ND | No |
| Simazine | 01/02/2017 | ND | No |
| Terbufos | 01/02/2017 | ND | No |
| Tetrachloroethylene | 01/02/2017 | ND | No |
| 2,3,4,6-Tetrachlorophenol | 01/02/2017 | ND | No |
| Triallate | 01/02/2017 | ND | No |
| Trichloroethylene | 01/02/2017 | ND | No |

ND = Non-Detect

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. In the distribution system, free chlorine is checked twice weekly at various locations throughout the distribution system. As a target, free chlorine residual within the distribution system should be above 0.20 mg/L. A free chlorine level lower than 0.05 mg/L must be reported and corrective action taken. There were no reportable incidents in 2021. A summary of the chlorine residual readings is provided in the table below.

Table 9 – Chlorine Residuals

| Parameter | Number of Tests or Monitoring Frequency | Range of Results (Min – Max) |
|--|---|------------------------------|
| Chlorine residual in distribution (mg/l) | 104 | 0.36 – 1.39 |
| Chlorine residual after treatment (mg/L) | Continuous | 0.58 - 2.43 |

(II) Turbidity

Turbidity of treated water is continuously monitored at the treatment facility, as a change in turbidity can indicate an operational problem. The turbidity of untreated water from the wells is checked monthly. Turbidity is measured in nephelometric turbidity units

(NTU). Under Regulation 170/03 turbidity in groundwater is not reportable however, turbidity should be < 1 NTU at the treatment plant and < 5 NTU in the distribution system. A summary of the monitoring results for 2021 is provided in the table below.

Table 10 – Turbidity

| Parameter | Number of Tests or Monitoring Frequency | Range of Results (Min – Max) |
|---------------------------------|---|------------------------------|
| Turbidity after treatment (NTU) | Continuous | 0.10 – 0.97 |

Section F – Water Quantity

Continuous monitoring of flowrates 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 2021 flows are provided below.

Table 11 – Rated Capacity

| Flow Summary | Rated Capacity |
|--|------------------------|
| Permit to Take Water Limit | 82 m ³ /d |
| Municipal Drinking Water License Limit | 88.4 m ³ /d |

Table 12 – Monthly Raw Water Flows (m³/day)

| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Avg. |
|-------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| Rated Flow | m ³ | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 |
| Raw Average | m ³ /d | 6.46 | 6.67 | 6.78 | 8.00 | 10.95 | 10.00 | 7.18 | 8.64 | 7.70 | 7.50 | 6.87 | 7.55 | 16.28 |
| Raw Max | m ³ /d | 10.34 | 10.18 | 11.25 | 15.35 | 20.09 | 18.93 | 17.82 | 21.93 | 15.10 | 13.00 | 9.82 | 14.50 | 8.27 |

Graph 1 – Monthly Flows (m³/day)

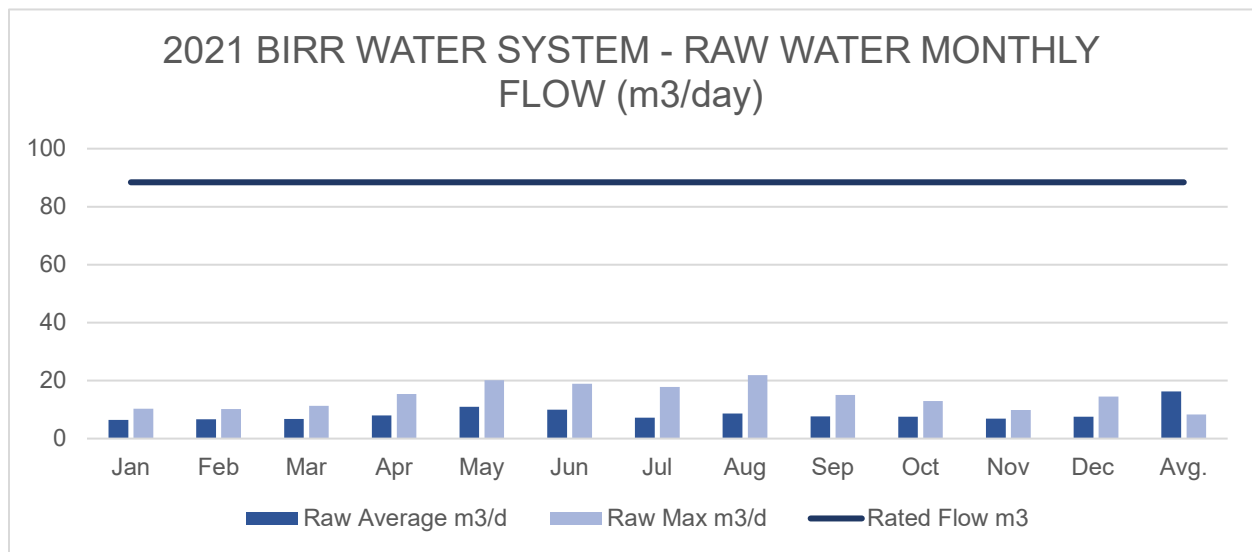
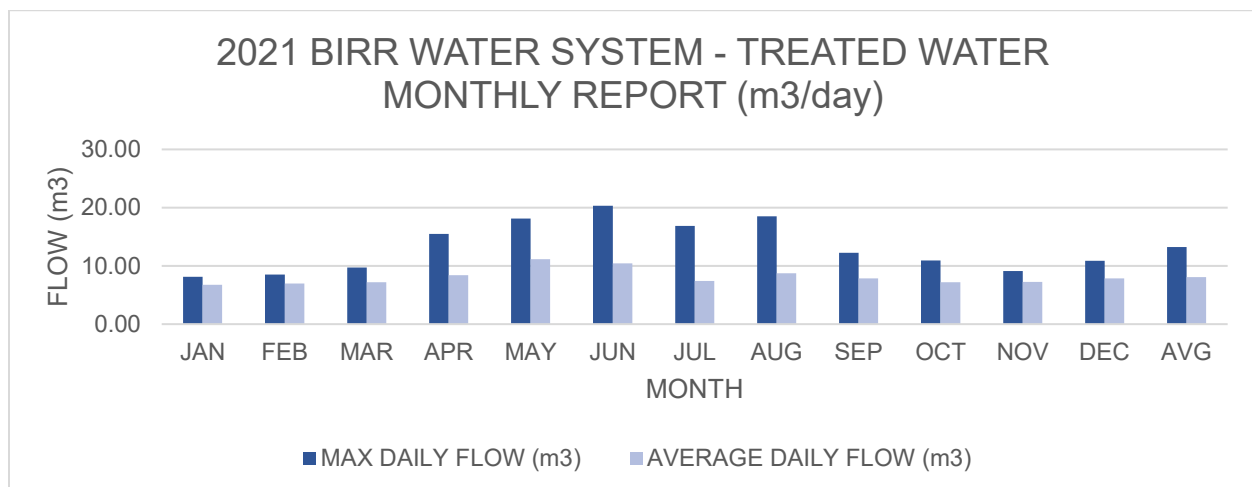


Table 13 – Treated Water Monthly Flow Summary

| | Flow Summary |
|---|-------------------------|
| 2021 Average Daily Treated Water Flow | 8.10 m ³ /d |
| 2021 Maximum Daily Treated Water Flow | 11.16 m ³ /d |
| 2021 Average Monthly Treated Water Flow | 246.45 m ³ |
| 2021 Total Amount of Treated Water Supplied | 2,957 m ³ |

Graph 2 – Monthly Treated Flows (m³/day)



(I) Rated capacity assessment

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

| System Capability Assessment Comparison of Treated Water Rates: Birr Well Supply System | | | | |
|--|---------------------------------|--|------------------------------------|-------------------------------|
| Month | Total Flow (m ³) | Monthly Raw Average Flow (m ³ /day) | Max Raw Flow (m ³ /day) | Max Flow / Rated Capacity (%) |
| January | 200.20 | 6.46 | 10.34 | 12% |
| February | 186.69 | 6.67 | 10.18 | 12% |
| March | 210.20 | 6.78 | 11.25 | 13% |
| April | 240.06 | 8.00 | 15.35 | 17% |
| May | 339.59 | 10.95 | 20.09 | 23% |
| June | 300.08 | 10.00 | 18.93 | 21% |
| July | 222.63 | 7.18 | 17.82 | 20% |
| August | 267.85 | 8.64 | 21.93 | 25% |
| September | 230.94 | 7.70 | 15.10 | 17% |
| October | 232.60 | 7.50 | 13.00 | 15% |
| November | 206.18 | 6.87 | 9.82 | 11% |
| December | 233.90 | 7.55 | 14.50 | 16% |
| Average Flow | 239.24 | 7.86 | 14.86 | 17% |
| Maximum Flow | 339.59 | 10.95 | 21.93 | |
| Rated Capacity | 88.4 (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.

(I) Non-Compliance Findings

The MECP conducted an announced routine inspection of the Birr Drinking Water System on July 16, 2021. There were no non-compliance findings.

(II) Summary or Reporting Test Results and Other Problems (Schedule 16)

There were no reportable Adverse Water Quality Indicator (AWQI) during the 2021 reporting period.

APPENDIX A – ANALYTICAL DATA

SGS Canada Inc.

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

11-January-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 05 January 2021
LR Report: CA30032-JAN21

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 | 6: AO/OG | 7: MDL | 8: RW 35E33 Well #2 |
|--|------------------------------|------------------------------|-------------------------------------|-------------------------------------|-------------|-----------|------------------------|
| Sample Date & Time | | | | | | | 04-Jan-21 14:20 |
| Temperature Upon Receipt [at Lakefield Lab °C] | --- | --- | --- | --- | --- | --- | 5.0 |
| Carbonate [mg/L as CaCO ₃] | 06-Jan-21 | 13:42 | 07-Jan-21 | 11:55 | --- | 2 | 2 <MDL |
| Bicarbonate [mg/L as CaCO ₃] | 06-Jan-21 | 13:42 | 07-Jan-21 | 11:55 | --- | 2 | 204 |
| Total Suspended Solids [mg/L] | 06-Jan-21 | 16:24 | 08-Jan-21 | 11:54 | --- | 2 | 2 <MDL |
| Sulphide [ug/L] | 07-Jan-21 | 06:56 | 07-Jan-21 | 11:18 | 50 | 6 | 6 <MDL |
| Iron [ug/L] | 07-Jan-21 | 12:46 | 08-Jan-21 | 15:30 | 300 | 7 | 500 |
| Manganese [ug/L] | 07-Jan-21 | 12:46 | 08-Jan-21 | 15:30 | 50 | 0.01 | 7.97 |

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 #: 220005492

SGS Canada Inc.

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

08-January-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 05 January 2021
LR Report: CA30027-JAN21

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: 1A0E6 DW 1A0E6 Sample Station | 8: 35E35 TW 35E35 Water Treatment Facility |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------------------|-----------|-----------|--|---|
| Sample Date & Time | | | | | | | 04-Jan-21 14:35 | 04-Jan-21 14:07 |
| Temperature Upon Receipt [at London Lab °C] | --- | --- | --- | --- | --- | --- | 4.4 | 4.4 |
| Temperature Upon Receipt [°C] | --- | --- | --- | --- | --- | --- | 5.0 | 5.0 |
| Field Free Chlorine [mg/L] | --- | --- | --- | --- | --- | --- | 1.39 | 1.37 |
| Nitrite (as N) [mg/L] | 06-Jan-21 | 19:06 | 07-Jan-21 | 14:53 | 1 | 0.003 | --- | 0.003 <MDL |
| Nitrate (as N) [mg/L] | 06-Jan-21 | 19:06 | 07-Jan-21 | 14:53 | 10 | 0.006 | --- | 0.016 |
| Nitrate + Nitrite (as N) [mg/L] | 06-Jan-21 | 19:06 | 07-Jan-21 | 14:53 | --- | 0.006 | --- | 0.016 |
| Trihalomethanes (total) [ug/L] | 06-Jan-21 | 10:23 | 07-Jan-21 | 11:38 | 100 (RAA) | 0.37 | 52 | --- |
| Bromodichloromethane [ug/L] | 06-Jan-21 | 10:23 | 07-Jan-21 | 11:38 | -- | 0.26 | 6.2 | --- |
| Bromoform [ug/L] | 06-Jan-21 | 10:23 | 07-Jan-21 | 11:38 | -- | 0.34 | 0.34 <MDL | --- |
| Chloroform [ug/L] | 06-Jan-21 | 10:23 | 07-Jan-21 | 11:38 | -- | 0.29 | 45 | --- |
| Dibromochloromethane [ug/L] | 06-Jan-21 | 10:23 | 07-Jan-21 | 11:38 | -- | 0.37 | 0.72 | --- |
| Total Haloacetic Acids (HAA5) [ug/L] | 06-Jan-21 | 15:01 | 08-Jan-21 | 12:26 | 80 (RAA) | 5.3 | 31.8 | --- |
| Bromoacetic Acid [ug/L] | 06-Jan-21 | 15:01 | 08-Jan-21 | 12:26 | --- | 2.9 | 2.9 <MDL | --- |
| Chloroacetic Acid [ug/L] | 06-Jan-21 | 15:01 | 08-Jan-21 | 12:26 | --- | 4.7 | 4.7 <MDL | --- |
| Dichloroacetic Acid [ug/L] | 06-Jan-21 | 15:01 | 08-Jan-21 | 12:26 | --- | 2.6 | 12.8 | --- |
| Dibromoacetic Acid [ug/L] | 06-Jan-21 | 15:01 | 08-Jan-21 | 12:26 | --- | 2.0 | 2.0 <MDL | --- |
| Trichloroacetic Acid [ug/L] | 06-Jan-21 | 15:01 | 08-Jan-21 | 12:26 | --- | 5.3 | 19.0 | --- |

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 |



Works #: 220005492

SGS Canada Inc.

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

LR Report : CA30027-JAN21

| Units | Description | SGS Method Code |
|-------|---------------|--------------------------|
| 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 |


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

08-January-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 04 January 2021
LR Report: CA20055-JAN21

10227 Ilderton Rd., Ilderton
Canada, N0M 2A0
Phone: 519-666-0190 ext 255, Fax:519-666-0271

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CERTIFICATE OF ANALYSIS

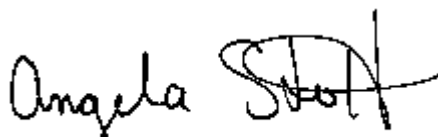
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Total Coliform cfu/100mL | E.Coli cfu/100mL |
|----------------------------|--------------------|-----------------------------|--------------------------|------------------|
| 1: Analysis Start Date | | --- | 05-Jan-21 | 05-Jan-21 |
| 2: Analysis Start Time | | --- | 13:05 | 13:05 |
| 3: Analysis Completed Date | | --- | 07-Jan-21 | 07-Jan-21 |
| 4: Analysis Completed Time | | --- | 15:04 | 15:04 |
| 5: MAC | | --- | 0 | 0 |
| 6: 35E33 RW 35E33 Well #2 | 04-Jan-21 14:20 | 4.4 | 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 |



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14-January-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 12 January 2021
LR Report: CA20353-JAN21

10227 Ilderton Rd., Ilderton
Canada, N0M 2A0
Phone: 519-666-0190 ext 255, Fax:519-666-0271

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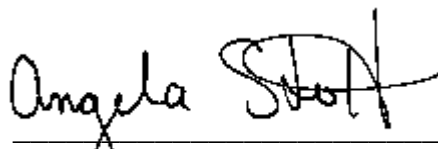
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCl Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 12-Jan-21 | 12-Jan-21 | 12-Jan-21 |
| 2: Analysis Start Time | | --- | --- | 12:30 | 12:30 | 12:05 |
| 3: Analysis Completed Date | | --- | --- | 14-Jan-21 | 14-Jan-21 | 14-Jan-21 |
| 4: Analysis Completed Time | | --- | --- | 12:20 | 12:20 | 12:20 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Blowoff | 11-Jan-21 12:10 | 6.5 | 1.19 | 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 |



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28-January-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 26 January 2021
LR Report: CA20945-JAN21

10227 Ilderton Rd., Ilderton
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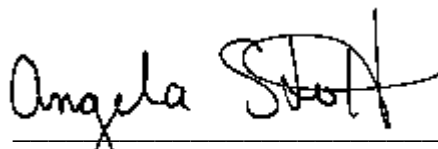
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCl Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 26-Jan-21 | 26-Jan-21 | 26-Jan-21 |
| 2: Analysis Start Time | | --- | --- | 13:00 | 13:00 | 12:30 |
| 3: Analysis Completed Date | | --- | --- | 28-Jan-21 | 28-Jan-21 | 28-Jan-21 |
| 4: Analysis Completed Time | | --- | --- | 12:39 | 12:39 | 12:39 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW Sample Station | 25-Jan-21 09:47 | 6.9 | 1.03 | 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 |



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05-February-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 02 February 2021
LR Report: CA20052-FEB21

10227 Ilderton Rd., Ilderton
Canada, N0M 2A0
Phone: 519-666-0190 ext 255, Fax:519-666-0271

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Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Total Coliform cfu/100mL | E.Coli cfu/100mL |
|----------------------------|--------------------|-----------------------------|--------------------------|------------------|
| 1: Analysis Start Date | | --- | 02-Feb-21 | 02-Feb-21 |
| 2: Analysis Start Time | | --- | 12:10 | 12:10 |
| 3: Analysis Completed Date | | --- | 04-Feb-21 | 04-Feb-21 |
| 4: Analysis Completed Time | | --- | 11:21 | 11:21 |
| 5: MAC | | --- | 0 | 0 |
| 6: 35E33 RW Well #2 | 01-Feb-21 11:34 | 4.3 | 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 |


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12-February-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 09 February 2021
LR Report: CA20361-FEB21

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Canada, N0M 2A0
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CERTIFICATE OF ANALYSIS

Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCl Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 09-Feb-21 | 09-Feb-21 | 09-Feb-21 |
| 2: Analysis Start Time | | --- | --- | 13:05 | 13:05 | 12:30 |
| 3: Analysis Completed Date | | --- | --- | 11-Feb-21 | 11-Feb-21 | 11-Feb-21 |
| 4: Analysis Completed Time | | --- | --- | 11:28 | 11:28 | 11:28 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1AOE6 Sample Station | 08-Feb-21 11:05 | 6.3 | 1.05 | 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 |


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26-February-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 23 February 2021
LR Report: CA20974-FEB21

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CERTIFICATE OF ANALYSIS

Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCl Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 23-Feb-21 | 23-Feb-21 | 23-Feb-21 |
| 2: Analysis Start Time | | --- | --- | 17:35 | 17:35 | 17:10 |
| 3: Analysis Completed Date | | --- | --- | 26-Feb-21 | 26-Feb-21 | 26-Feb-21 |
| 4: Analysis Completed Time | | --- | --- | 09:19 | 09:19 | 09:19 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Blow-Off | 22-Feb-21 11:04 | 9.0 | 1.15 | 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 |



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08-March-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 02 March 2021

LR Report: CA20121-MAR21

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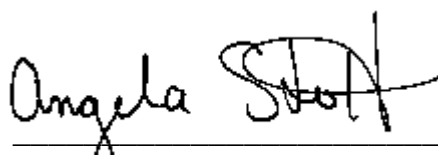
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Total Coliform cfu/100mL | E.Coli cfu/100mL |
|----------------------------|--------------------|-----------------------------|--------------------------|------------------|
| 1: Analysis Start Date | | --- | 02-Mar-21 | 02-Mar-21 |
| 2: Analysis Start Time | | --- | 17:25 | 17:25 |
| 3: Analysis Completed Date | | --- | 05-Mar-21 | 05-Mar-21 |
| 4: Analysis Completed Time | | --- | 08:53 | 08:53 |
| 5: MAC | | --- | 0 | 0 |
| 6: 35E33 RW 35E33 Well #2 | 01-Mar-21 10::25 | 7.0 | 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 |



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11-March-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 09 March 2021
LR Report: CA20379-MAR21

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CERTIFICATE OF ANALYSIS

Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCl Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 09-Mar-21 | 09-Mar-21 | 09-Mar-21 |
| 2: Analysis Start Time | | --- | --- | 13:15 | 13:15 | 12:50 |
| 3: Analysis Completed Date | | --- | --- | 11-Mar-21 | 11-Mar-21 | 11-Mar-21 |
| 4: Analysis Completed Time | | --- | --- | 14:14 | 14:14 | 14:14 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW Sample Station | 08-Mar-21 11:35 | 7.1 | 1.18 | 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 |



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25-March-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 23 March 2021

LR Report: CA20914-MAR21

10227 Ilderton Rd., Ilderton

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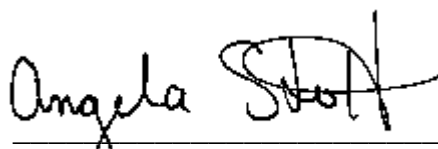
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCl Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 23-Mar-21 | 23-Mar-21 | 23-Mar-21 |
| 2: Analysis Start Time | | --- | --- | 11:40 | 11:40 | 11:05 |
| 3: Analysis Completed Date | | --- | --- | 25-Mar-21 | 25-Mar-21 | 25-Mar-21 |
| 4: Analysis Completed Time | | --- | --- | 13:48 | 13:48 | 13:48 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Sample Station | 22-Mar-21 11:33 | 5.7 | 0.96 | 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 |



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Lakefield - Ontario - K0L 2H0
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13-April-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 06 April 2021
LR Report: CA30040-APR21

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

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Fax: 519-666-0271

CERTIFICATE OF ANALYSIS

Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt at London Lab °C | Nitrite (as N) mg/L | Nitrate (as N) mg/L | Nitrate + Nitrite (as N) mg/L |
|--|--------------------|---|---------------------|---------------------|-------------------------------|
| 1: Analysis Start Date | | --- | 10-Apr-21 | 10-Apr-21 | 10-Apr-21 |
| 2: Analysis Start Time | | --- | 12:22 | 12:22 | 12:22 |
| 3: Analysis Completed Date | | --- | 12-Apr-21 | 12-Apr-21 | 12-Apr-21 |
| 4: Analysis Completed Time | | --- | 16:16 | 16:16 | 16:16 |
| 5: MAC | | --- | 1 | 10 | --- |
| 6: MDL | | --- | 0.003 | 0.006 | 0.006 |
| 7: 35E35 TW 35E35 Water Treatment Facility | 05-Apr-21 11:26 | 12.3 | 0.003 <MDL | 0.015 | 0.015 |

MAC - Maximum Acceptable Concentration
MDL - SGS Method Detection Limit

Method Descriptions

| Units | Description | SGS Method Code |
|-------|---|--------------------------|
| mg/L | Nitrate by Ion Chromatography | ME-CA-[ENV]IC-LAK-AN-001 |
| mg/L | Total Nitrate/Nitrite by Ion Chromatography | ME-CA-[ENV]IC-LAK-AN-001 |
| mg/L | Nitrite by Ion Chromatography | ME-CA-[ENV]IC-LAK-AN-001 |


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Mun of Middlesex Centre (Birr)

Attn : Brian Watson

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Works #: 220005492

09-April-2021

Date Rec. : 06 April 2021

LR Report: CA20085-APR21

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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 | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 06-Apr-21 | 06-Apr-21 | 06-Apr-21 |
| 2: Analysis Start Time | | --- | --- | 16:05 | 16:05 | 15:30 |
| 3: Analysis Completed Date | | --- | --- | 08-Apr-21 | 08-Apr-21 | 08-Apr-21 |
| 4: Analysis Completed Time | | --- | --- | 14:58 | 14:58 | 14:58 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 35E33 RW 35E33 Well #2 | 05-Apr-21 11:27 | 12.3 | --- | 0 | 0 | --- |
| 7: 1A0E6 DW 1A0E6 Sample Station | 05-Apr-21 11:35 | 12.3 | 0.99 | 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 |



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657 Consortium Court

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

Works #: 220005492

LR Report : CA20085-APR21

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Works #: 220005492

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12-April-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 06 April 2021
 LR Report: CA30037-APR21

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 Ilderton, ON
 N0M 2A0, Canada

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 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: 1A0E6 DW 1A0E6 Sample Station |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------------------|-----------|-----------|--|
| Sample Date & Time | | | | | | | 06-Apr-21 13:15 |
| Temperature Upon Receipt [at London Lab °C] | --- | --- | --- | --- | --- | --- | 12.3 |
| Field Free Chlorine [mg/L] | --- | --- | --- | --- | --- | --- | 1.10 |
| Trihalomethanes (total) [ug/L] | 11-Apr-21 | 12:07 | 12-Apr-21 | 13:35 | 100 (RAA) | 0.37 | 53 |
| Bromodichloromethane [ug/L] | 11-Apr-21 | 12:07 | 12-Apr-21 | 13:35 | -- | 0.26 | 6.5 |
| Bromoform [ug/L] | 11-Apr-21 | 12:07 | 12-Apr-21 | 13:35 | -- | 0.34 | 0.34 <MDL |
| Chloroform [ug/L] | 11-Apr-21 | 12:07 | 12-Apr-21 | 13:35 | -- | 0.29 | 46 |
| Dibromochloromethane [ug/L] | 11-Apr-21 | 12:07 | 12-Apr-21 | 13:35 | -- | 0.37 | 0.76 |
| Total Haloacetic Acids (HAA5) [ug/L] | 09-Apr-21 | 09:43 | 12-Apr-21 | 12:55 | 80 (RAA) | 5.3 | 37.5 |
| Bromoacetic Acid [ug/L] | 09-Apr-21 | 09:43 | 12-Apr-21 | 12:55 | --- | 2.9 | 2.9 <MDL |
| Chloroacetic Acid [ug/L] | 09-Apr-21 | 09:43 | 12-Apr-21 | 12:55 | --- | 4.7 | 4.7 <MDL |
| Dichloroacetic Acid [ug/L] | 09-Apr-21 | 09:43 | 12-Apr-21 | 12:55 | --- | 2.6 | 15.8 |
| Dibromoacetic Acid [ug/L] | 09-Apr-21 | 09:43 | 12-Apr-21 | 12:55 | --- | 2.0 | 2.0 <MDL |
| Trichloroacetic Acid [ug/L] | 09-Apr-21 | 09:43 | 12-Apr-21 | 12:55 | --- | 5.3 | 21.7 |

MAC - Maximum Acceptable Concentration

MDL - SGS Method Detection Limit

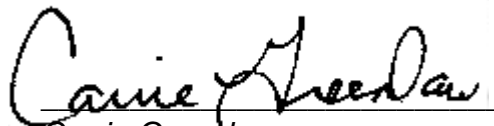
Method Descriptions

| 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 |

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LR Report : CA30037-APR21



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

SGS Canada Inc.

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22-April-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 20 April 2021

LR Report: CA20805-APR21

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CERTIFICATE OF ANALYSIS

Final Report

| Sample ID | Sample Date & Time | Temp Upon Receipt Receipt °C | Field ResCI Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | HPC cfu/1mL Spread Plate |
|----------------------------------|--------------------|---------------------------------|-----------------------------|-----------------------------|---------------------|--------------------------------|
| 1: Analysis Start Date | | --- | --- | 20-Apr-21 | 20-Apr-21 | 20-Apr-21 |
| 2: Analysis Start Time | | --- | --- | 14:35 | 14:35 | 14:10 |
| 3: Analysis Completed Date | | --- | --- | 22-Apr-21 | 22-Apr-21 | 22-Apr-21 |
| 4: Analysis Completed Time | | --- | --- | 16:02 | 16:02 | 16:02 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Sample Station | 19-Apr-21 12:28 | 9.5 | 0.58 | 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 |


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06-May-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 04 May 2021

LR Report: CA20081-MAY21

10227 Ilderton Rd., Ilderton

Canada, N0M 2A0

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

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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 | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 04-May-21 | 04-May-21 | 04-May-21 |
| 2: Analysis Start Time | | --- | --- | 14:15 | 14:15 | 13:40 |
| 3: Analysis Completed Date | | --- | --- | 06-May-21 | 06-May-21 | 06-May-21 |
| 4: Analysis Completed Time | | --- | --- | 16:06 | 16:06 | 16:06 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 35E33 RW 35E33 Well #2 | 03-May-21 10:54 | 4.9 | --- | 0 | 0 | --- |
| 7: 1A0E6 DW 1A0E6 Sample Station | 03-May-21 11:04 | 5.4 | 1.00 | 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 |



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21-May-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 18 May 2021

LR Report: CA20920-MAY21

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

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Phone: 519-666-0190 ext 255
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CERTIFICATE OF ANALYSIS

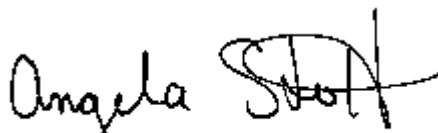
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCI Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 18-May-21 | 18-May-21 | 18-May-21 |
| 2: Analysis Start Time | | --- | --- | 17:50 | 17:50 | 17:20 |
| 3: Analysis Completed Date | | --- | --- | 20-May-21 | 20-May-21 | 20-May-21 |
| 4: Analysis Completed Time | | --- | --- | 16:10 | 16:10 | 16:10 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW Sample Station | 17-May-21 15:07 | 11.0 | 1.18 | 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 |



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03-June-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 31 May 2021
LR Report: CA21523-MAY21

10227 Ilderton Rd., Ilderton
Canada, N0M 2A0
Phone: 519-666-0190 ext 255, Fax:519-666-0271

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CERTIFICATE OF ANALYSIS

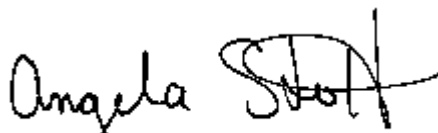
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCI Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 01-Jun-21 | 01-Jun-21 | 31-May-21 |
| 2: Analysis Start Time | | --- | --- | 10:25 | 10:25 | 16:15 |
| 3: Analysis Completed Date | | --- | --- | 03-Jun-21 | 03-Jun-21 | 03-Jun-21 |
| 4: Analysis Completed Time | | --- | --- | 10:25 | 10:25 | 10:25 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Sample Station | 31-May-21 10:45 | 15.2 | 0.75 | 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 |



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11-June-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 08 June 2021
LR Report: CA20447-JUN21

10227 Ilderton Rd., Ilderton
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Phone: 519-666-0190 ext 255, Fax:519-666-0271

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Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Total Coliform cfu/100mL | E.Coli cfu/100mL |
|----------------------------|--------------------|-----------------------------|--------------------------|------------------|
| 1: Analysis Start Date | | --- | 08-Jun-21 | 08-Jun-21 |
| 2: Analysis Start Time | | --- | 15:10 | 15:10 |
| 3: Analysis Completed Date | | --- | 11-Jun-21 | 11-Jun-21 |
| 4: Analysis Completed Time | | --- | 10:09 | 10:09 |
| 5: MAC | | --- | 0 | 0 |
| 6: 35E33 RW 35E33 Well #2 | 07-Jun-21 11:19 | 7.4 | 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 |



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18-June-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 15 June 2021
LR Report: CA20884-JUN21

10227 Ilderton Rd., Ilderton
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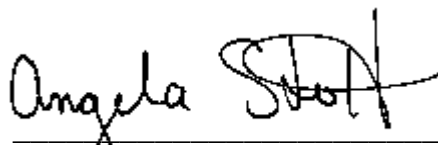
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCl Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 |
| 2: Analysis Start Time | | --- | --- | 13:55 | 13:55 | 13:20 |
| 3: Analysis Completed Date | | --- | --- | 18-Jun-21 | 18-Jun-21 | 18-Jun-21 |
| 4: Analysis Completed Time | | --- | --- | 08:56 | 08:56 | 08:56 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Sample Station | 14-Jun-21 11:25 | 7.3 | 0.81 | 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 |



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Mun of Middlesex Centre (Birr)

Attn : Brian Watson

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Canada, N0M 2A0

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

Works #: 220005492

02-July-2021

Date Rec. : 29 June 2021

LR Report: CA21718-JUN21

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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 | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 29-Jun-21 | 29-Jun-21 | 29-Jun-21 |
| 2: Analysis Start Time | | --- | --- | 13:35 | 13:35 | 12:50 |
| 3: Analysis Completed Date | | --- | --- | 02-Jul-21 | 02-Jul-21 | 02-Jul-21 |
| 4: Analysis Completed Time | | --- | --- | 11:50 | 11:50 | 11:50 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW Sample Station | 28-Jun-21 15:20 | 10.6 | 0.61 | 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 |



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Works #: 220005492

LR Report : CA21718-JUN21

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



Works #: 220005492

SGS Canada Inc.

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20-July-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 10 July 2021
LR Report: CA30187-JUL21

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N0M 2A0, Canada

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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 | 8: MDL | 9: 1A0E6 DW 1A0E6 Sample Station |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------------------|-----------|-----------|--|
| Sample Date & Time | | | | | | | 05-Jul-21 11:45 |
| Temperature upon Delivery [@ London Lab °C] | --- | --- | --- | --- | --- | --- | 8.8 |
| Temperature Upon Receipt [°C] | --- | --- | --- | --- | --- | --- | 15.0 |
| Field Free Chlorine [mg/L] | --- | --- | --- | --- | --- | --- | 0.93 |
| Trihalomethanes (total) [ug/L] | 14-Jul-21 | 14:59 | 15-Jul-21 | 13:27 | 100 (RAA) | 0.37 | 50 |
| Bromodichloromethane [ug/L] | 14-Jul-21 | 14:59 | 15-Jul-21 | 13:27 | -- | 0.26 | 5.4 |
| Bromoform [ug/L] | 14-Jul-21 | 14:59 | 15-Jul-21 | 13:27 | -- | 0.34 | 0.34 <MDL |
| Chloroform [ug/L] | 14-Jul-21 | 14:59 | 15-Jul-21 | 13:27 | -- | 0.29 | 44 |
| Dibromochloromethane [ug/L] | 14-Jul-21 | 14:59 | 15-Jul-21 | 13:27 | -- | 0.37 | 0.41 |
| Total Haloacetic Acids (HAA5) [ug/L] | 16-Jul-21 | 09:14 | 19-Jul-21 | 21:52 | 80 (RAA) | 5.3 | 29.7 |
| Chloroacetic Acid [ug/L] | 16-Jul-21 | 09:14 | 19-Jul-21 | 21:52 | --- | 4.7 | 4.7 <MDL |
| Bromoacetic Acid [ug/L] | 16-Jul-21 | 09:14 | 19-Jul-21 | 21:52 | --- | 2.9 | 2.9 <MDL |
| Dichloroacetic Acid [ug/L] | 16-Jul-21 | 09:14 | 19-Jul-21 | 21:52 | --- | 2.6 | 11.3 |
| Dibromoacetic Acid [ug/L] | 16-Jul-21 | 09:14 | 19-Jul-21 | 21:52 | --- | 2.0 | 2.0 <MDL |
| Trichloroacetic Acid [ug/L] | 16-Jul-21 | 09:14 | 19-Jul-21 | 21:52 | --- | 5.3 | 18.4 |

MAC - Maximum Acceptable Concentration
MDL - SGS Method Detection Limit

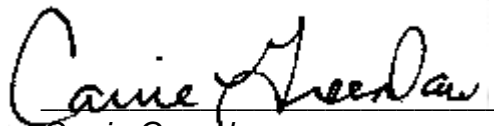
Method Descriptions

| 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 |

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LR Report : CA30187-JUL21



Carrie Greenlaw
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

19-July-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 16 July 2021
LR Report: CA20859-JUL21

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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 | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 16-Jul-21 | 16-Jul-21 | 16-Jul-21 |
| 2: Analysis Start Time | | --- | --- | 13:10 | 13:10 | 12:40 |
| 3: Analysis Completed Date | | --- | --- | 18-Jul-21 | 18-Jul-21 | 18-Jul-21 |
| 4: Analysis Completed Time | | --- | --- | 15:15 | 15:15 | 15:15 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 35E33 RW Well #2 | 15-Jul-21 10:45 | 8.7 | --- | 0 | 0 | --- |
| 7: 1A0E6 DW Sample Station | 15-Jul-21 11:02 | 8.7 | 0.78 | 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 |


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22-July-2021
Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 16 July 2021
LR Report: CA30328-JUL21

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N0M 2A0, Canada

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Phone: 519-666-0190 ext 255
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CERTIFICATE OF ANALYSIS

Final Report

| Sample ID | Sample Date & Time | Temperature upon Delivery @ London Lab °C | Temperature Upon Receipt °C | Nitrite (as N) mg/L | Nitrate (as N) mg/L | Nitrate + Nitrite (as N) mg/L |
|--|--------------------|---|-----------------------------|---------------------|---------------------|-------------------------------|
| 1: Analysis Start Date | | --- | --- | 20-Jul-21 | 20-Jul-21 | 20-Jul-21 |
| 2: Analysis Start Time | | --- | --- | 12:42 | 12:42 | 12:42 |
| 3: Analysis Completed Date | | --- | --- | 22-Jul-21 | 22-Jul-21 | 22-Jul-21 |
| 4: Analysis Completed Time | | --- | --- | 14:56 | 14:56 | 14:56 |
| 5: MAC | | --- | --- | 1 | 10 | --- |
| 6: MDL | | --- | --- | 0.003 | 0.006 | 0.006 |
| 7: 35E35 TW 35E35 Water Treatment Facility | 15-Jul-21 10:49 | 8.7 | 11.0 | 0.003 <MDL | 0.011 | 0.011 |

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 Chromatography | ME-CA-[ENV]IC-LAK-AN-001 |
| Nitrite (as N) | Nitrite by Ion Chromatography | ME-CA-[ENV]IC-LAK-AN-001 |


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30-July-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 27 July 2021
LR Report: CA21371-JUL21

10227 Ilderton Rd., Ilderton
Canada, N0M 2A0
Phone: 519-666-0190 ext 255, Fax:519-666-0271

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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 | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 27-Jul-21 | 27-Jul-21 | 27-Jul-21 |
| 2: Analysis Start Time | | --- | --- | 13:45 | 13:45 | 13:00 |
| 3: Analysis Completed Date | | --- | --- | 29-Jul-21 | 29-Jul-21 | 29-Jul-21 |
| 4: Analysis Completed Time | | --- | --- | 15:43 | 15:43 | 15:43 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Sample Station | 26-Jul-21 10:35 | 9.5 | 0.50 | 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 |


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06-August-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 03 August 2021
LR Report: CA20018-AUG21

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CERTIFICATE OF ANALYSIS

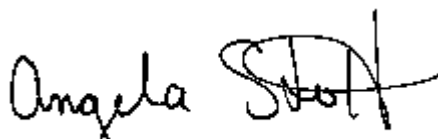
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Total Coliform cfu/100mL | E.Coli cfu/100mL |
|----------------------------|--------------------|-----------------------------|--------------------------|------------------|
| 1: Analysis Start Date | | --- | 03-Aug-21 | 03-Aug-21 |
| 2: Analysis Start Time | | --- | 15:20 | 15:20 |
| 3: Analysis Completed Date | | --- | 05-Aug-21 | 05-Aug-21 |
| 4: Analysis Completed Time | | --- | 13:39 | 13:39 |
| 5: MAC | | --- | 0 | 0 |
| 6: 35E33 RW 35E33 Well #2 | 02-Aug-21 13:36 | 6.1 | 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 |



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13-August-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

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Ilderton, ON
N0M 2A0, Canada

Date Rec. : 10 August 2021
LR Report: CA20504-AUG21

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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 | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 10-Aug-21 | 10-Aug-21 | 10-Aug-21 |
| 2: Analysis Start Time | | --- | --- | 16:35 | 16:35 | 15:50 |
| 3: Analysis Completed Date | | --- | --- | 12-Aug-21 | 12-Aug-21 | 12-Aug-21 |
| 4: Analysis Completed Time | | --- | --- | 17:31 | 17:31 | 17:31 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Sample Station | 09-Aug-21 14:35 | 9.9 | 0.57 | 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 |



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27-August-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 24 August 2021
LR Report: CA21346-AUG21

10227 Ilderton Rd., Ilderton
Canada, N0M 2A0
Phone: 519-666-0190 ext 255, Fax:519-666-0271

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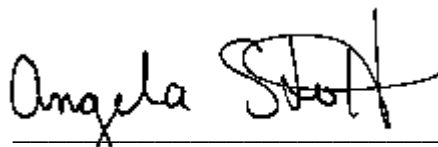
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCl Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 24-Aug-21 | 24-Aug-21 | 24-Aug-21 |
| 2: Analysis Start Time | | --- | --- | 16:20 | 16:20 | 15:45 |
| 3: Analysis Completed Date | | --- | --- | 27-Aug-21 | 27-Aug-21 | 27-Aug-21 |
| 4: Analysis Completed Time | | --- | --- | 12:35 | 12:35 | 12:35 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Sample Station | 23-Aug-21 14:12 | 9.7 | 0.75 | 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 |



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09-September-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 07 September 2021
LR Report: CA20208-SEP21

10227 Ilderton Rd., Ilderton
Canada, N0M 2A0
Phone: 519-666-0190 ext 255, Fax:519-666-0271

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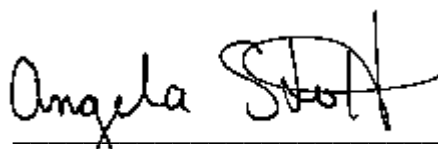
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCl Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 07-Sep-21 | 07-Sep-21 | 07-Sep-21 |
| 2: Analysis Start Time | | --- | --- | 15:55 | 15:55 | 15:00 |
| 3: Analysis Completed Date | | --- | --- | 09-Sep-21 | 09-Sep-21 | 09-Sep-21 |
| 4: Analysis Completed Time | | --- | --- | 16:05 | 16:05 | 16:05 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 35E33 RW 35E33 Well #2 | 06-Sep-21 11:26 | 7.2 | --- | 0 | 0 | --- |
| 7: 1A0E6 DW 1A0E6 Sample Station | 06-Sep-21 11:32 | 8.6 | 0.50 | 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 |



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24-September-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 21 September 2021
LR Report: CA21062-SEP21

10227 Ilderton Rd., Ilderton
Canada, N0M 2A0
Phone: 519-666-0190 ext 255, Fax:519-666-0271

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CERTIFICATE OF ANALYSIS

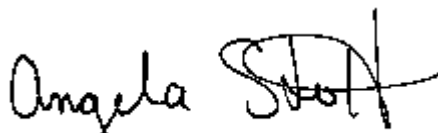
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | 21-Sep-21 | 21-Sep-21 | 21-Sep-21 |
| 2: Analysis Start Time | | --- | 14:45 | 14:45 | 13:30 |
| 3: Analysis Completed Date | | --- | 24-Sep-21 | 24-Sep-21 | 24-Sep-21 |
| 4: Analysis Completed Time | | --- | 14:07 | 14:07 | 14:07 |
| 5: MAC | | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Sample Station | 20-Sep-21 09:18 | 7.0 | 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 |



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15-October-2021
Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 05 October 2021
LR Report: CA30044-OCT21

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N0M 2A0, Canada

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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 | 8: MDL | 9: 1A0E6 DW Sample Station | 10: 35E35 TW Water Treatment Facility |
|--|------------------------------|------------------------------|-------------------------------------|-------------------------------------|-----------|-----------|----------------------------------|--|
| Sample Date & Time | | | | | | | 04-Oct-21 12:30 | 04-Oct-21 12:21 |
| Temperature upon Delivery [@ London Lab °C] | --- | --- | --- | --- | --- | --- | 9.4 | 9.4 |
| Temperature Upon Receipt [at Lakefield Lab °C] | --- | --- | --- | --- | --- | --- | 15.0 | 15.0 |
| Field Free Chlorine [mg/L] | --- | --- | --- | --- | --- | --- | 0.75 | --- |
| Nitrite (as N) [mg/L] | 07-Oct-21 | 10:41 | 08-Oct-21 | 11:01 | 1.0 | 0.003 | --- | 0.004 |
| Nitrate (as N) [mg/L] | 07-Oct-21 | 10:41 | 08-Oct-21 | 11:01 | 10 | 0.006 | --- | 0.006 <MDL |
| Nitrate + Nitrite (as N) [mg/L] | 07-Oct-21 | 10:41 | 08-Oct-21 | 11:01 | --- | 0.006 | --- | 0.006 <MDL |
| Trihalomethanes (total) [ug/L] | 12-Oct-21 | 20:51 | 13-Oct-21 | 15:28 | 100 (RAA) | 0.37 | 58 | --- |
| Bromodichloromethane [ug/L] | 12-Oct-21 | 20:51 | 13-Oct-21 | 15:28 | -- | 0.26 | 7.1 | --- |
| Bromoform [ug/L] | 12-Oct-21 | 20:51 | 13-Oct-21 | 15:28 | -- | 0.34 | 0.34 <MDL | --- |
| Chloroform [ug/L] | 12-Oct-21 | 20:51 | 13-Oct-21 | 15:28 | -- | 0.29 | 50 | --- |
| Dibromochloromethane [ug/L] | 12-Oct-21 | 20:51 | 13-Oct-21 | 15:28 | -- | 0.37 | 0.87 | --- |
| Total Haloacetic Acids (HAA5) [ug/L] | 13-Oct-21 | 07:06 | 15-Oct-21 | 10:15 | 80 (RAA) | 5.3 | 23.4 | --- |
| Chloroacetic Acid [ug/L] | 13-Oct-21 | 07:06 | 15-Oct-21 | 10:15 | --- | 4.7 | 4.7 <MDL | --- |
| Bromoacetic Acid [ug/L] | 13-Oct-21 | 07:06 | 15-Oct-21 | 10:15 | --- | 2.9 | 2.9 <MDL | --- |
| Dichloroacetic Acid [ug/L] | 13-Oct-21 | 07:06 | 15-Oct-21 | 10:15 | --- | 2.6 | 9.2 | --- |
| Dibromoacetic Acid [ug/L] | 13-Oct-21 | 07:06 | 15-Oct-21 | 10:15 | --- | 2.0 | 2.0 <MDL | --- |
| Trichloroacetic Acid [ug/L] | 13-Oct-21 | 07:06 | 15-Oct-21 | 10:15 | --- | 5.3 | 14.2 | --- |

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 |

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LR Report : CA30044-OCT21

| Units | Description | SGS Method Code |
|-------|---------------|--------------------------|
| 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 |



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08-October-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 05 October 2021
LR Report: CA20119-OCT21

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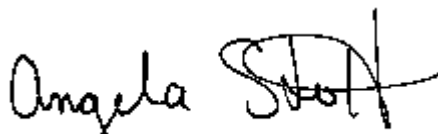
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCI Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 05-Oct-21 | 05-Oct-21 | 05-Oct-21 |
| 2: Analysis Start Time | | --- | --- | 15:05 | 15:05 | 14:20 |
| 3: Analysis Completed Date | | --- | --- | 07-Oct-21 | 07-Oct-21 | 07-Oct-21 |
| 4: Analysis Completed Time | | --- | --- | 13:05 | 13:05 | 13:05 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 35E33 RW Well #2 | 04-Oct-21 12:20 | 9.4 | --- | 0 | 0 | --- |
| 7: 1A0E6 DW Sample Station | 04-Oct-21 12:30 | 9.4 | 0.75 | 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 |



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22-October-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 19 October 2021
LR Report: CA20830-OCT21

10227 Ilderton Rd., Ilderton
Canada, N0M 2A0
Phone: 519-666-0190 ext 255, Fax:519-666-0271

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Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCl Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 19-Oct-21 | 19-Oct-21 | 19-Oct-21 |
| 2: Analysis Start Time | | --- | --- | 16:15 | 16:15 | 15:20 |
| 3: Analysis Completed Date | | --- | --- | 21-Oct-21 | 21-Oct-21 | 21-Oct-21 |
| 4: Analysis Completed Time | | --- | --- | 15:38 | 15:38 | 15:38 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Sample Station | 18-Oct-21 11:42 | 9.9 | 0.65 | 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 |



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05-November-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 02 November 2021
LR Report: CA20087-NOV21

10227 Ilderton Rd., Ilderton
Canada, N0M 2A0
Phone: 519-666-0190 ext 255, Fax:519-666-0271

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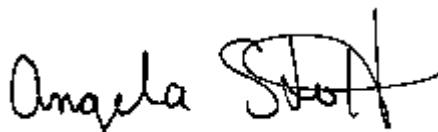
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCI Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 02-Nov-21 | 02-Nov-21 | 02-Nov-21 |
| 2: Analysis Start Time | | --- | --- | 16:05 | 16:05 | 14:30 |
| 3: Analysis Completed Date | | --- | --- | 04-Nov-21 | 04-Nov-21 | 04-Nov-21 |
| 4: Analysis Completed Time | | --- | --- | 16:13 | 16:13 | 16:13 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 35E33 RW 35E33 Well #2 | 01-Nov-21 11:53 | 5.8 | --- | 0 | 0 | --- |
| 7: 1A0E6 DW 1A0E6 Sample Station | 01-Nov-21 12:10 | 5.9 | 0.74 | 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 |



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London - Ontario - N6E 2S8
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22-November-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 16 November 2021
LR Report: CA20764-NOV21

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Ilderton, ON
N0M 2A0, Canada

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

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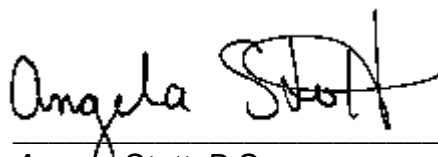
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCI Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 16-Nov-21 | 16-Nov-21 | 16-Nov-21 |
| 2: Analysis Start Time | | --- | --- | 16:40 | 16:40 | 16:05 |
| 3: Analysis Completed Date | | --- | --- | 19-Nov-21 | 19-Nov-21 | 19-Nov-21 |
| 4: Analysis Completed Time | | --- | --- | 08:34 | 08:34 | 08:34 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Sample Station | 15-Nov-21 13:25 | 7.8 | 0.57 | 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 |



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03-December-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 30 November 2021
LR Report: CA21404-NOV21

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N0M 2A0, Canada

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

CERTIFICATE OF ANALYSIS

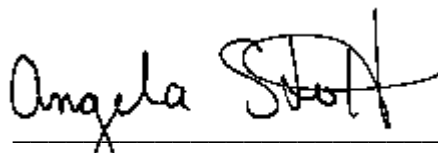
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCI Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 30-Nov-21 | 30-Nov-21 | 30-Nov-21 |
| 2: Analysis Start Time | | --- | --- | 16:40 | 16:40 | 16:05 |
| 3: Analysis Completed Date | | --- | --- | 02-Dec-21 | 02-Dec-21 | 02-Dec-21 |
| 4: Analysis Completed Time | | --- | --- | 14:14 | 14:14 | 14:14 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW Sample Station | 29-Nov-21 13:20 | 4.2 | 0.75 | 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 |



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10-December-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 07 December 2021
LR Report: CA20290-DEC21

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Phone: 519-666-0190 ext 255
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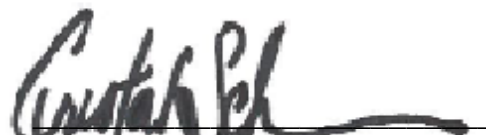
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Total Coliform cfu/100mL | E.Coli cfu/100mL |
|----------------------------|--------------------|-----------------------------|--------------------------|------------------|
| 1: Analysis Start Date | | --- | 07-Dec-21 | 07-Dec-21 |
| 2: Analysis Start Time | | --- | 18:05 | 18:05 |
| 3: Analysis Completed Date | | --- | 10-Dec-21 | 10-Dec-21 |
| 4: Analysis Completed Time | | --- | 08:26 | 08:26 |
| 5: MAC | | --- | 0 | 0 |
| 6: 35E33 RW Well #2 | 06-Dec-21 14:47 | 5.1 | 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 |



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17-December-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 14 December 2021
LR Report: CA20609-DEC21

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CERTIFICATE OF ANALYSIS

Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCl Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 14-Dec-21 | 14-Dec-21 | 14-Dec-21 |
| 2: Analysis Start Time | | --- | --- | 17:00 | 17:00 | 16:00 |
| 3: Analysis Completed Date | | --- | --- | 17-Dec-21 | 17-Dec-21 | 17-Dec-21 |
| 4: Analysis Completed Time | | --- | --- | 08:07 | 08:07 | 08:07 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Sample Station | 13-Dec-21 11:21 | 12.5 | 0.77 | 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 |



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-January-2022

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 29 December 2021
LR Report: CA21087-DEC21

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

Copy: #1

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

CERTIFICATE OF ANALYSIS

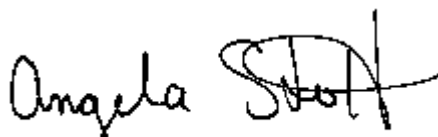
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCI Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | | | 29-Dec-21 | 29-Dec-21 | 31-Dec-21 |
| 2: Analysis Start Time | | | | 11:35 | 11:35 | 10:00 |
| 3: Analysis Completed Date | | | | 31-Dec-21 | 31-Dec-21 | 04-Jan-22 |
| 4: Analysis Completed Time | | | | 10:07 | 10:07 | 13:23 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW Sample Station | 28-Dec-21 14:40 | 5.3 | 0.72 | 0 | 0 | <10 UAL |

MAC - Maximum Acceptable Concentration
UAL - Unreliable: Sample Age Exceeds Normal Limit

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 |



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Branch Manager-London
Environment, Health & Safety

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

05-January-2022

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 31 December 2021
LR Report: CA21252-DEC21

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

Copy: #1

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

CERTIFICATE OF ANALYSIS

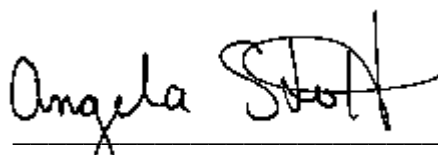
Final Report

| Sample ID | Sample Date & Time | Temperature Upon Receipt °C | Field ResCl Free mg/L | Total Coliform cfu/100mL | E.Coli cfu/100mL | Heterotrophic Plate Count (HPC) cfu/1mL |
|----------------------------------|--------------------|-----------------------------|-----------------------|--------------------------|------------------|---|
| 1: Analysis Start Date | | --- | --- | 31-Dec-21 | 31-Dec-21 | 31-Dec-21 |
| 2: Analysis Start Time | | --- | --- | 11:40 | 11:40 | 11:30 |
| 3: Analysis Completed Date | | --- | --- | 04-Jan-22 | 04-Jan-22 | 04-Jan-22 |
| 4: Analysis Completed Time | | --- | --- | 13:40 | 13:40 | 13:40 |
| 5: MAC | | --- | --- | 0 | 0 | --- |
| 6: 1A0E6 DW 1A0E6 Sample Station | 31-Dec-21 10:35 | 9.3 | 0.77 | 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 |



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

25-January-2021

Mun of Middlesex Centre (Birr)
Attn : Brian Watson

Date Rec. : 19 January 2021
LR Report: CA30303-JAN21

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 Delivery @ London Lab °C | Field pH | Alkalinity mg/L as CaCO ₃ | Lead ug/L |
|--|--------------------|---|----------|--------------------------------------|-----------|
| 1: Analysis Start Date | | --- | --- | 20-Jan-21 | 25-Jan-21 |
| 2: Analysis Start Time | | --- | --- | 16:03 | 07:32 |
| 3: Analysis Completed Date | | --- | --- | 22-Jan-21 | 25-Jan-21 |
| 4: Analysis Completed Time | | --- | --- | 08:34 | 10:35 |
| 5: MAC | | --- | --- | --- | 10 |
| 6: AO/OG | | --- | 6.5-8.5 | 30-500 | --- |
| 7: MDL | | --- | --- | 2 | 0.01 |
| 8: DW Sample Station Sample Station - Gwendolyn Street 1 | 18-Jan-21 14:06 | 4.7 | 6.96 | --- | 0.09 |
| 9: DW Sample Station Sample Station - Gwendolyn Street 2 | 18-Jan-21 14:06 | 4.7 | 6.96 | 198 | --- |

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 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 #: 220005492

SGS Canada Inc.

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

18-August-2021

Mun of Middlesex Centre (Birr)

Attn : Brian Watson

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

Date Rec. : 10 August 2021
LR Report: CA30203-AUG21

Copy: #1

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

CERTIFICATE OF ANALYSIS

Final Report

| Sample ID | Sample Date & Time | Temperature upon Delivery @ London Lab °C | Field pH | Alkalinity mg/L as CaCO ₃ | Lead ug/L |
|----------------------------|---|---|----------|--------------------------------------|-----------|
| 1: Analysis Start Date | | --- | --- | 12-Aug-21 | 18-Aug-21 |
| 2: Analysis Start Time | | --- | --- | 15:14 | 06:30 |
| 3: Analysis Completed Date | | --- | --- | 13-Aug-21 | 18-Aug-21 |
| 4: Analysis Completed Time | | --- | --- | 13:43 | 12:06 |
| 5: MAC | | --- | --- | --- | 10 |
| 6: AO/OG | | --- | 6.5-8.5 | 30-500 | --- |
| 7: MDL | | --- | --- | 2 | 0.01 |
| 8: DW Sample Station | Sample Station-Gwendolyn Street 09-Aug-21 14:40 | 6.7 | 7.45 | 201 | 0.13 |

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 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

**APPENDIX B –
APPROVED APPLICATION FOR PANDEMIC RELATED
TEMPORARY REGULATORY RELIEF**

Application for Pandemic Related Temporary Regulatory Relief (Alternate Arrangement) for Municipal Residential Drinking Water Systems

| For Office Use Only | | |
|-------------------------|--------------------------------|----------------|
| Reference Number 458 | Date Received July 30, 2021 | Initials HW |

| Owner Information | Operating Authority Information |
|--|--|
| Owner Name (Legal name of owner) Municipality of Middlesex Centre | Operating Authority Name Municipality of Middlesex Centre |
| Contact Name Eric Joudrey | Contact Name Eric Joudrey |
| Position/Title Manager of Water & Wastewater Operations | Position/Title Manager of Water & Wastewater Operations |
| E-mail Address joudrey@middlesexcentre.on.ca | E-mail Address joudrey@middlesexcentre.on.ca |
| Telephone Number (including area code and extension) 519-666-0190 x 255 | Telephone Number (including area code and extension) 519-666-0190 x 255 |

| System Identification | for systems subject to the requirements of the Safe Drinking Water Act, 2002 (SDWA) and Ontario Regulation 170/03 (O. Reg. 170/03) |
|-----------------------|--|
|-----------------------|--|

This form can be used to seek relief for ONE municipal residential drinking water system. Note: a separate form should be completed for each drinking water system. Where a system is divided into separate operational subsystems (e.g., treatment and distribution), please identify them all below. Where the entire system is operated by a single operating authority, identify that system below.

| System / Subsystem Name | Operating Authority Name | Licence Number | DWS #s |
|-------------------------------|-------------------------------|----------------|-----------|
| Birr Drinking Water System | Municipality Middlesex Centre | 052-104 | 220005492 |
| Melrose Drinking Water System | Municipality Middlesex Centre | 052-103 | 260002915 |
| | | | |

| Types of Relief (Alternate Arrangements) |
|--|
|--|

Select the type(s) of relief that you would like the Ministry to consider issuing for the identified system(s) during the pandemic and provide details on proposed alternative requirements in the box below:

- | | |
|--|---|
| <input type="checkbox"/> Section 10.1(3) and/or Section 11 of O. Reg. 170/03 | <input type="checkbox"/> Chemical sampling further to Schedule 13 of O. Reg. 170/03 |
| <input type="checkbox"/> Schedule 10 or Schedule 11 of O. Reg. 170/03 | <input type="checkbox"/> Operational sampling further to Schedule 7 of O. Reg. 170/03 |
| <input checked="" type="checkbox"/> Schedule 15.1 of O. Reg. 170/03 | <input type="checkbox"/> Schedule 22 of O. Reg. 170/03 |
| <input type="checkbox"/> Requirements for operational testing by Certified Operator or Water Quality Analyst further to O. Reg. 170/03 | |
| <input type="checkbox"/> Any other regulatory requirements sought (please specify section(s) of regulation or condition(s) in the licence) | |

Describe relief sought (attach a separate document if more space is required)

However, with the unprecedented situation we are facing as a province and municipality in responding to the COVID-19 outbreak, we would urge the Ministry to cancel The Municipality of Middlesex Centre requirement to sample for lead for the winter sample period between June 15, 2021 to October 15, 2021. With the need for social distancing and quarantine, our residents are reluctant to invite unnecessary visitors to their homes, and our staff are similarly concerned about visiting residents' homes where the virus may be present.


Our current lead relief would expired on April 15, 2021 and we would like to extent it further to avoid entry into homes to protect resident and staff.

| Statement of Owner | <input checked="" type="checkbox"/> Check here if the owner has authorized the Operating Authority, as identified on this application form, to act on behalf of the owner for purposes of processing this application. |
|--------------------|--|
|--------------------|--|

I, the undersigned, am authorized to represent the owner of the drinking water system(s) for purposes of this application for the issuance of temporary relief from regulatory requirements during a pandemic outbreak event and to the best of my knowledge the information contained herein and the information submitted in support of this application is complete and accurate.

| | | | |
|-------------------------------------|-------------------------------------|---|-----------------------|
| Name (please print) Eric Joudrey | Title Manager Water & Wastewater | Signature  | Date July 30, 2021 |
|-------------------------------------|-------------------------------------|---|-----------------------|

Ministry of the Environment, Conservation and Parks Director

| | | |
|--|---|---|
| The Director under Part V of the Safe Drinking Water Act, 2002 (SDWA) hereby grants the relief as outlined in the following Notice of Amendment. | Signature  Aziz Ahmed, P.Eng. Director, Part V, SDWA | Dated at Toronto this 9th day of SEP, 2021 |
| | <small>Digitally signed by Aziz Ahmed DN: cn=Aziz Ahmed, o=EPB, ou=MWWPS, email=aziz.ahmed@ontario.ca, c=CA Date: 2021.09.09 09:44:05 -0400</small> | |

Application for Pandemic Related Temporary Regulatory Relief (Alternate Arrangement) for Municipal Residential Drinking Water Systems

Ministry of the Environment, Conservation and Parks Director

Notice of Amendment

NOTICE OF AMENDMENT

Safe Drinking Water Act, 2002, S.O. 2002, C.32

Pursuant to my authority as Director under Part V, sections 45 & 46 of the Safe Drinking Water Act, 2002, ("SDWA"), I hereby amend Municipal Drinking Water Licence #, 052-104 (the "Licence"), dated April 23, 2021, to grant temporary relief from the regulatory requirements described in the above-noted Application for Pandemic Related Temporary Regulatory Relief (Alternate Arrangement) for Municipal Drinking Water Systems for the Municipal Drinking Water System identified in this Licence (the "System") as set out in the conditions below:

1. The amendments to the Licence take effect on the date of this Notice and shall be in effect until October 15, 2021, unless revoked, revised or extended prior to that time.
2. Subject to condition 1 and despite the provisions of O. Reg. 170/03 (Drinking Water Systems) and the Licence, the following relief is granted:

O. Reg. 170/03, Schedule 15.1, 15.1-4

For the sampling period of June 15, 2021 to October 15, 2021, the number of required sampling points in plumbing that serve private residences is zero (0), in plumbing in non-residential is zero (0) and distribution samples is one (1).

3. All parts of the Licence not amended pursuant to this Notice remain in effect.
4. This Notice and the Application for Pandemic Related Temporary Regulatory Relief (Alternate Arrangement) for Municipal Drinking Water Systems, including all other information and supporting documents submitted in connection with the Application except as other specified herein, forms part of the Licence and shall be appended to the Licence for the period set out in condition 1.

Subsection 127(2) of the SDWA indicates that a decision of a Director made at the request or with the consent of an applicant for, or holder of, a permit, licence, certificate or approval is not a reviewable decision if the decision concerns the permit, licence, certificate or approval.

As my decision to amend the Licence to impose a condition accepting the above-noted regulatory relief is made at the request of the System's owner, it is not a reviewable decision under Part X of the SDWA.

Application for Pandemic Related Temporary Regulatory Relief (Alternate Arrangement) for Municipal Residential Drinking Water Systems

General Information and Instructions for Completing the Form

General:

- This form is intended to be used to apply for temporary regulatory relief during a pandemic emergency for: annual and summary reporting, operating, monitoring, and/or sampling at a municipal residential drinking water system regulated under the SDWA.
- This form **must be signed by the Part V, SDWA Director to be considered an approval by the Ministry** for the items being requested. Submission of this form does not imply approval by the Ministry of the items being requested.
- Should additional information be required in support of your application, Ministry staff will contact the individual(s) identified on this form for additional details and will specify a timeline for submission of the additional details. The Ministry may, where it deems appropriate, require a standard application for regulatory relief to be submitted.
- For assistance in completing the form, for questions related to its use, or if you require a copy in French or in an accessible format, please contact the Ministry's Municipal Water and Wastewater Permissions section by E-mail at MDWLP@ontario.ca or by phone, where necessary, at 647-982-8740.

Instructions:

1. A signed copy of the form and any attachments must be submitted by E-mail to MDWLP@ontario.ca
2. Information contained in this application is not considered confidential and will be made available to the public upon request. Information submitted as supporting information may be claimed as confidential but will be subject to the Freedom of Information and Protection of Privacy Act (FOIPPA) or other legally required disclosure. If you do not claim confidentiality at the time of submitting the information, the Ministry may make the information available to the public without further notice to you.
3. If the system's mailing address has changed from the address provided in the system registration to the Ministry please provide an attachment in your submission that contains the correct address information.