



# 2024 Annual Compliance Report

## Drinking Water System General Information

This report has been prepared in accordance with the reporting requirements of the Safe Drinking Water Act 2002 O. Reg 170/03, s 11(1), (3), (6), (7), (8), (9.1) and 10 as well as Schedule 22-1 and 22-2.

This annual report is included in the Water Summary Report presented to Council and can be viewed on the Municipal website at [www.meaford.ca/WaterReports](http://www.meaford.ca/WaterReports)

## Drinking Water System Information

Drinking Water System Number	260065312
Drinking Water System Name	The Leith Distribution System
Drinking Water System Owner	Municipality of Meaford
Drinking Water System Category	Large Municipal Residential
Period being reported	January 1, 2024 to December 31, 2024
Does your Drinking Water System serve more than 10,000 people?	No

## Drinking Water System Description

The Leith Distribution System is situated on Georgian Bay in Meaford, Ontario. The Leith water plant was shut down in 2005 following an agreement with the City of Owen Sound to supply drinking water to the Hamlet of Leith. The system consists of a Booster pumping station, a flow metering Chamber and a Rechlorination Facility.

## Leith Rechlorination Facility

The Leith Rechlorination facility consists of two sodium hypochlorite chemical feed pumps, each paced to flow with automatic switchover control. One sodium Hypochlorite chemical storage tank with secondary containment is also onsite. This station communicates back to the main SCADA at the Meaford Water Treatment Plant for online monitoring. There is no method for back-up power at this facility.

The UTM Coordinates are Zone 17, E 507320 m, N 4940120 m

### **Leith Booster Station**

The Leith Booster station located on Grey Road 15, provides pressure to the residences to the south of the station heading up towards Annan. The station has two centrifugal pumps each rated at 0.9L/s, 27 m TDH, along with two 450L hydro pneumatic tanks. This station has no communication capabilities for online monitoring or back-up power.

The UTM Coordinates are Zone 17, E 510180 m, N 4940850 m

### **Leith Metering Chamber**

The Leith Metering Chamber is located at the municipal boundary at the intersection of 36<sup>th</sup> Street East and East Bayshore Road, it consists of one flowmeter to measure water flow from the Owen Sound System into the Leith System. The flow meter is owned and maintained by the City of Owen Sound.

The UTM Coordinates are Zone 17, E 506930 m, N 4939310 m

## **Summary of Drinking Water Inspections and Audits**

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### **MECP Inspections**

During 2024 there was one MECP inspection completed in February. The Municipality received 100% on the inspection report card.

### **Internal Audit**

Tavares Group evaluated the DWQMS during 2024. They concluded with 1 minor non-conformity and six opportunities for improvement.

### **External Audit**

The external audit was conducted by Intertek- SAI Global. There were no non-conformities and two opportunities for improvement.

## **Summary of Water Treatment Chemicals Used Over this Reporting Period**

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Sodium Hypochlorite – is a disinfectant used to disinfect water going through the Leith distribution System.

## **Summary of Monetary Expenses Incurred in 2024**

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There were no major monetary expenses incurred in 2024.

## **Summary of Adverse Drinking Water Quality Results**

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There were no incidents of adverse drinking water quality results during 2024.

**Summary of Microbiological testing done under Schedule 10, 11 or 12 of Regulation 170/03 during this reporting period**

Parameter	Number of Samples	Range of E. Coli or Fecal Results Min-Max	Range of Total Coliform Results Min-Max	Number of HPC Samples	Results of HPC Results Min # to Max #
Distribution	118	0	0	53	0-34

Details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or Section 16-4 of Schedule 16 of O. Reg 170/03 and reported to Spills Action Centre

N/A

**Summary of Operational Testing completed under Schedule 7, 8, or 9 of Ontario Regulation 170/03 during this reporting period**

	Number of Grab Samples	Range of Results Min # to Max #	Unit of Measure
<b>Chlorine</b>			
Distribution	8760	0.92-4.07	mg/L

**Summary of additional Testing and Sampling**

Please see attached additional sampling results for Haloacetic Acids, pH, Alkalinity and Trihalomethanes

**Haloacetic Acid**

Quarter	HAA Sample Result ug/L	Sampling Location
A	16.7	359115 Grey Rd. 15
B	15.0	359115 Grey Rd. 15
C	18.7	359115 Grey Rd. 15
D	18.0	359115 Grey Rd. 15
<b>RAA</b>	<b>17.1</b>	

## Trihalomethanes

Quarter	THM Sample Result ug/L	Sampling Location
A	32	303051 Grey Rd. 15
B	35	359466 Bayshore Rd.
C	44	303051 Grey Rd. 15
D	50	359466 Bayshore Rd.
<b>RAA</b>	<b>40.25</b>	

## pH & Alkalinity Results

Sample Date	Location	pH	Alkalinity mg/L as CaCo3
March 25, 2024	359466 Bayshore Rd.	7.01	82
March 25, 2024	303051 Grey Rd. 15	6.96	92
September 24, 2024	359466 Bayshore Rd.	7.36	71
September 24, 2024	303156 Grey Rd 15	7.29	73

## Summary of Lead Testing

Date	Location	Lead Results	Unit of Measure	Number of Exceedances
March 25, 2024	359466 Bayshore Rd.	0.12	Ug/L	0
March 25, 2024	303051 Grey Rd. 15	0.04	Ug/L	0
September 24, 2024	359466 Bayshore Rd.	8.41	Ug/L	0
September 24, 2024	303156 Grey Rd. 15	0.68	Ug/L	0