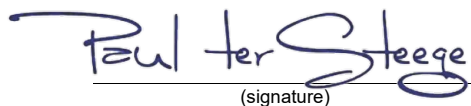




Oil Springs Water Distribution System

Inspection Report

Ministry ID Number: 260046761
Inspection Start Date: 07/10/2025
Inspection End Date: 07/11/2025
Inspection By: Paul TerSteege


(signature)

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Table of Contents

Inspection Background	4
Facility Description	4
Inspection Observations	5
Introduction	5
Treatment Processes	5
Distribution System	6
Operations Manuals	7
Logbooks	7
Security	8
Certification and Training	8
Water Quality Monitoring	9
Water Quality Assessment	9

Appendices

- Appendix 1 – Maps
- Appendix 2 – Profile Information
- Appendix 3 – Summaries of Reported Laboratory Results

Inspection Background

Name: Oil Springs Water Distribution System
ID Number: 260046761
Entity Inspected: Village Of Oil Springs
Local Ministry Office: Sarnia
Local Supervisor: Marc Bechard
Date Inspected: 7/10/2025
Review Period: July 2024 - June 2025

Facility Description

The Oil Springs Distribution System serves an estimated population of 700 within the Village. The system consists of approximately 8.5 kilometers of watermains (ranging in size from 50 to 300 mm); hydrants; valves; and blow offs. The System does not include any secondary treatment or pumping equipment. Rather, it receives water from Enniskillen's distribution system through two metered connections at the Village's northwest and eastern extremities.

Enniskillen's reservoir and pumping station at 2868 Oil Heritage Road, approximately 200 m north of the Village's municipal boundary, provides re-chlorination and maintains pressure in Oil Springs. Enniskillen's distribution system receives water treated by Petrolia's water treatment plant in Bright's Grove. Enniskillen's and Petrolia's drinking water systems are inspected separately.

Jacobs (Operations Management International Canada Inc.) is the Village's Operating Authority.

Inspection Observations

Introduction

- **The primary focus of this inspection is to confirm compliance with Ministry of the Environment, Conservation and Parks (MECP) legislation as well as evaluating conformance with ministry drinking water policies and guidelines during the inspection period. The ministry utilizes a comprehensive, multi-barrier approach in the inspection of water systems that focuses on the source, treatment, and distribution components as well as management practices.**

This drinking water system is subject to the legislative requirements of the Safe Drinking Water Act, 2002 (SDWA) and regulations made therein, including Ontario Regulation 170/03, "Drinking Water Systems" (O. Reg. 170/03). This inspection has been conducted pursuant to Section 81 of the SDWA.

This inspection report does not suggest that all applicable legislation and regulations were evaluated. Regardless of the scope of the inspection, it remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

The Officer's reviews typically focus on operational records since the previous inspection, along with a select set of older records, e.g., Ministry approvals, historical laboratory results, etc. The inspection included a brief meeting on July 10, 2025, and some distribution sampling.

Treatment Processes

- **All parts of the drinking water system were disinfected as required.**

Schedule B of the Permit requires infrastructure which may be subject to contamination during alterations and repairs to be disinfected per the applicable procedure and/or standard. The Operating Authority listed the following work.

Date	Work Description

08-Aug-24	Service tap repair
03-Oct-24	Hydrant # 13 valve repair
27-Dec-24	Service saddle repair
23-Apr-25	Service line repair
29-Apr-25	New service tap
02-May-25	Water meter pit replacement

In addition to log entries, the preceding work was documented in "Watermain Installation/Break/Repair Report" forms. These documents indicated the infrastructure was disinfected.

Treatment Processes

- **Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required.**

Regardless of whether owners provide secondary disinfection themselves, Section 1-5 in Ontario Regulation 170/03 requires them to ensure the provision of treatment capable of providing a free chlorine residual of 0.2 mg/L at all locations within the distribution system. Further, Section 1-2 requires the free chlorine residual to be ≥ 0.05 mg/L.

Strong residual readings are normally recorded grab sampling. Of the routine sample locations, the lowest readings tended to occur at Sample Station # 1 (2423 Kelly Road) with the lowest reading (0.69 mg/L) occurring on August 7, 2024.

- **Secondary disinfectant residual was tested as required.**

To satisfy Section 7-2 in Schedule 7 of Ontario Regulation 170/03, records provided for review indicated the disinfectant residual in the distribution system is monitored weekly through a combination of testing performed during microbiological sampling at the beginning of the week, followed by testing at several points in the distribution system later in the week. (Summaries of the results are available in workbook forms entitled "Oil Springs WD Residuals & Lab Analysis".

Distribution System

- **The owner had up-to-date documents describing the distribution components.**

To ensure operators have ready access to current information regarding the distribution system, in particular the location of mains, valves and hydrants, the Ministry requires systems to update their reference material within 12 months of an addition or alteration. Updates to the maps referenced in Schedule A of the Drinking Water Works Permit commonly serve this purpose; however, alternate mapping may serve this purpose.

Operators advised there "has been no new watermains installed for the WDS and the 2021 mapping referenced in the Permit is the most current". However, they noted that in 2024, an update was made to include sampling location. (Lastly, they flagged the anticipated need for an update during the next Drinking Water Works Permit renewal (in 2027) to reflect development proposed for 2026-2027.)

Operations Manuals

- **The operations and maintenance manual(s) met the requirements of the Municipal Drinking Water Licence.**

Ontario Regulation 128/04 focuses on the provision of plans, drawings, and process descriptions, whereas Municipal Drinking Water Licences impose requirements related to the provision of procedures. The Officer's scope was limited to ensuring the availability of the,

- Licence and Permit (and/or references to the requirements imposed by them); and
- Procedures related to the,
 - Monitoring of the system's performance;
 - Operation and maintenance of any monitoring equipment;
 - Maintenance and flushing of hydrants;
 - Exercising of valves; and
 - Expected responses to complaints and emergencies.

In the absence of any treatment, storage, and/or pumping components, the Officer was not anticipating an extensive manual for this small distribution system. Operators provided a copy the Operational Plan for the system (which is also available to the public on the municipality's website). Standard Operating Procedures provided for review included the following documents:

2025-0MI-Oil Springs WD Emergency Plan	SOP-08-Commissioning New Watermain
SOP-01-Adverse Water Quality Incident	SOP-09-Water Main Break
SOP-02-Distribution System Sampling	SOP-10-Loss of Water-System Isolation
SOP-03-Performance Verification with DPD Colourimeter	SOP-15-Responding to Community
Complaints	
SOP-04-Analyzing Chlorine Residual in Distribution	SOP-16-Hydrant-Valve-Curbstop
Repair	
SOP-05-Hydrant Dead End Flushing	SOP-17-Boil Water Advisory
SOP-06-Distribution Valve Exercising	SOP-Operations-Enniskillen Reservoir
Meter Chamber	
SOP-07-Distribution System Low Pressure	

In terms of documents available electronically, operators advised they have access to the following: SOPs, DWQMS Operational Plan, blank data sheets, chlorine residual analysis spreadsheet, Emergency Plan, MECP forms, SGS Laboratories Chain of Custody forms, monthly reports, annual reports, system mapping, DWQMS meeting minutes, MECP annual inspection reports.

Logbooks

- **Records or other record keeping mechanisms confirmed that operational testing not performed by continuous monitoring equipment was done by a certified operator, water quality analyst, or person who met the requirements of Schedule 7-5 of O. Reg. 170/03.**

Pursuant to Section 7-5 in Schedule 7 of Ontario Regulation 170/03, only qualified personnel (e.g., certified operators or water quality analysts) appear to be performing operational tests.

Security

- **The owner provided security measures to protect components of the drinking water system.**

The Ministry recommends owners secure components of their drinking water system from intruders and potential sources of contamination. The system lacks any source, treatment, storage, or pumping facilities; however, the Operating Authority has previously confirmed that the meter chambers are kept locked and inaccessible to the public.

Certification and Training

- **An overall responsible operator was designated for all subsystem.**

Ontario Regulation 128/04 prescribes systems for classifying water systems, and for certifying personnel who operate them. Subsection 23 requires an operator, who holds the appropriate type and level of certification, to be designated as the Overall Responsible Operator (ORO).

Operators provided a copy of the paperwork in which the Operating Authority has designated their primary ORO and a backup ORO. A review of the log entries indicated operators are noting the person serving in this capacity at the start of logbook entries.

- **Operators-in-charge were designated for all subsystems.**

The Operating Authority has appointed personnel to serve as operator-in-charge per Subsection 25 (1) of Ontario Regulation 128/04. Further, the personnel acting in this capacity are normally identified in the logbook, i.e., when someone other than the ORO is working.

- **All operators were certified as required.**

Information posted by the Ontario Water and Wastewater Certification Office confirmed that each operator identified by the Operating Authority held a drinking water certificate, or a conditional drinking water certificate, as required by Section 22 of Ontario Regulation 128/04.

Operator	Type	Class	Certificate	Expiration	ORO
90083198	WD	I	107371	10/31/2025	Primary
90077872	WD	I	108201	12/31/2025	Backup
90051483	WQA	--	68420	11/30/2025	
90051483	WS	II	63212	11/30/2027	
90051483	WT	II	53612	10/31/2025	
90060794	WD	I	73063	12/31/2026	
90085160	WD	III	108451	02/28/2026	
90090839	WD	I	133505	05/31/2028	
90090839	WT	OIT	OT113302	03/31/2027	

Water Quality Monitoring

- **Distribution microbiological sampling requirements were met.**

Reported laboratory results indicate distributed water samples were collected monthly for microbiological testing per Section 10-2 of Ontario Regulation 170/03.

Note: Summaries of these results are appended to this report. Further, summaries related to the two donor systems (i.e., Enniskillen and Petrolia) are appended as well. As indicated by the summaries, some sample requirements are specific to treatment facilities (i.e., Petrolia), although these results are still relevant to the receiving systems.

- **Records confirmed that chlorine residual tests were conducted as required.**

Sample submission forms indicate that during the collection of samples for microbiological testing, operators tested the chlorine residual as required by Section 6-3 of Ontario Regulation 170/03.

- **Haloacetic acid sampling requirements were met.**

Reported laboratory results indicate that since 2023, operators have collected distributed water samples from Hydrant #34 (Oil Heritage & Meadowview), a sample location operators believe would be likely to have an elevated potential for the formation of haloacetic acids – should this disinfection by-product be a concern. I.e., haloacetic acid concentrations tend to be highest downstream of treatment systems. In this case, the sampling point is approximately 550m downstream of the donor system's reservoir and pumping station.

The results indicate that at least one distributed sample has been collected every calendar quarter as required by Section 13-6.1 (1) of Ontario Regulation 170/03.

- **Trihalomethane sampling requirements were met.**

Reported laboratory results indicate that since 2023, operators have collected distributed water samples primarily from the museum on Kelly Road, and two other extremities in the distribution system, sample locations operators believe would be likely to have an elevated potential for the formation of trihalomethanes – should this disinfection by-product be a concern. I.e., Trihalomethane concentrations tend to be highest at locations with the highest residence time in the distribution system.

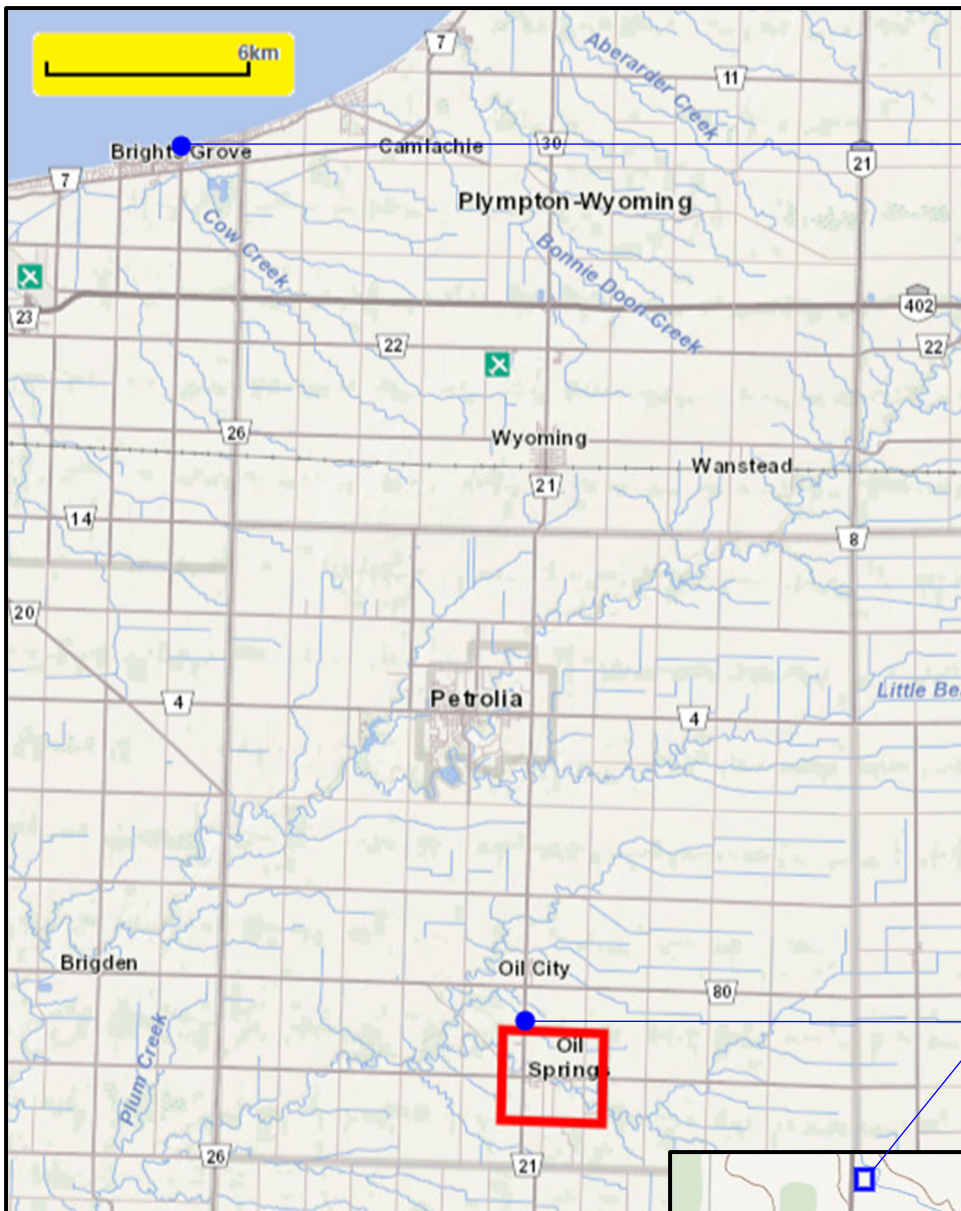
The results indicate that at least one distributed sample has been collected every calendar quarter as required by Section 13-6 (1) of Ontario Regulation 170/03.

Water Quality Assessment

- **Records showed that all water sample results met the Ontario Drinking Water Quality Standards.**

Appendix 1

Maps

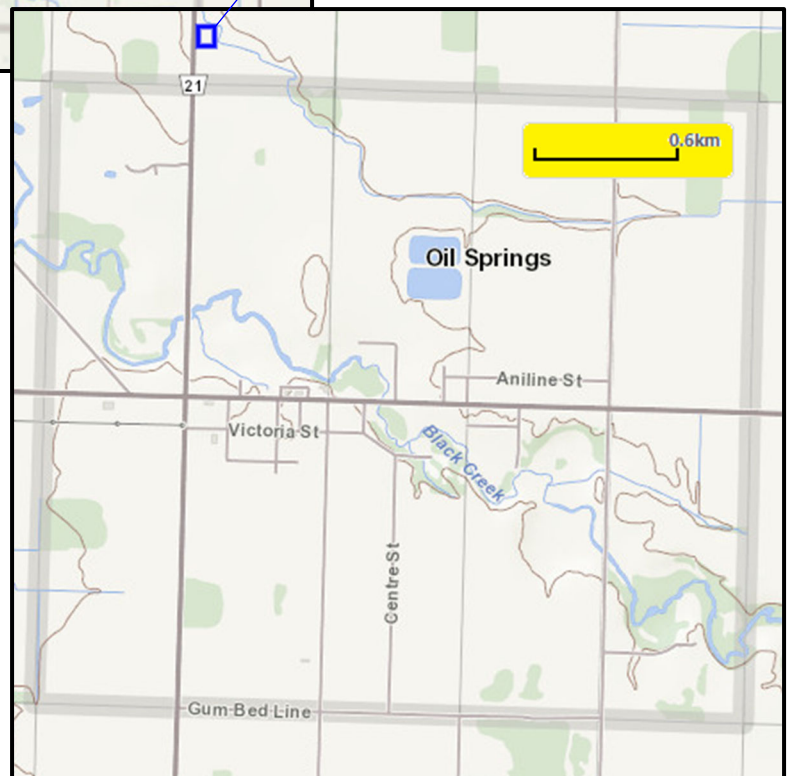


Map of the Area

Petrolia's Water Treatment Plant in Brights Grove

Enniskillen's Reservoir and Pumping Station

Map of Oil Springs



VILLAGE OF OIL SPRINGS

WATER DISTRIBUTION MAP

LEGEND

10mm ———

50mm ———

100mm ———

150mm ———

200mm ———

250mm ———

300mm ———

♦ FIRE HYDRANT

■ WATER VALVE

PREPARED BY:
R. DOBBIN ENGINEERING INC.
 4218 Oil Heritage Road, Petrolia Ontario, N0N 1R0
 Phone: (519) 882-0032 Fax: (519) 882-2233

R. DOBBIN ENGINEERING INC.

4218 Oil Heritage Road, Petrolia Ontario, N0N 1R0
Phone: (519) 882-0032 Fax: (519) 882-2233

Appendix 2

Profile Information

DRINKING WATER SYSTEM PROFILE INFORMATION

Drinking Water System Name: Oil Springs Water Distribution System
Drinking Water System Number: 260046761
Drinking Water System Category: Large Municipal Residential System (LMRS)
Municipality: Oil Springs
Physical Location: 4591 Oil Springs Line, Oil Springs, Ontario, N0N 1P0, Canada

OWNER INFORMATION

Owner Legal Name: Oil Springs, The Corporation Of The Village Of
Owner Address: 4591 Oil Springs Line, Post Office Box Delivery 22, Oil Springs, ON N0N 1P0

Primary Contact Name: Martha Gawley
Primary Contact Job Title: Clerk-Treasurer
Primary Contact Phone: (519)8342939
Primary Contact Fax: (519)8342333
Primary Contact Email Address: clerk@oilsprings.ca

Alternate Contact Name: Ian Veen
Alternate Contact Job Title: Mayor
Alternate Contact Phone: (519)8342939
Alternate Contact Fax: (519)8342333
Alternate Contact Email Address: oilsprings@ciaccess.com

OPERATING AUTHORITY INFORMATION

Operating Authority Legal Name: Operations Management International Canada Inc.-Oil Springs
Operating Authority Address: 546 Maude St, Petrolia, ON N0N 1R0

Primary Contact Name: Joe Bloomfield
Primary Job Title: Project Manager
Primary Contact Phone: (226)3070028
Primary Contact Fax: (226)3070029
Primary Contact Email Address: joe.bloomfield@jacobs.com

Alternate Contact Name: On Call Operator Omici
Alternate Contact Job Title: On Call Operator
Alternate Contact Phone: (888)3991643
Alternate Contact Fax: (519)8822253
Alternate Contact Email Address: cathy.culnan@jacobs.com

OPERATIONAL INFORMATION

24/7 Contact Name: Omi On-Call Operator
24/7 Job Title: Operator
24/7 Contact Phone: (888)3991643
24/7 Contact Fax: (226)3070029
24/7 Contact Email Address: chris.toulouse@jacobs.com
24/7 Contact Mobile: N/A
24/7 Contact Pager: (888)3991643

DRINKING WATER SYSTEM PROFILE INFORMATION

Population: 704
Number of Private Residences:
Number of Service Connections:
Design Rated Capacity: 15.6

Operational Period:

Number of Designated Facilities Served: 0

DESIGNATED FACILITY:

GROUND WATER SOURCE:

SURFACE WATER SOURCE:

WATER TREATMENT PROCESS:

RECEIVING DWS:

DWS that Supply Water to this DWS

DWS #	DWS Name (MOE Assigned)	DWS Category (abbreviation)	Relationship Type Name	Receive Water Method
220004377	Enniskillen Township Distribution System	LMRS	SUPPLIES CONTINUOUSLY	Connection
220004377	Enniskillen Township Distribution System	LMRS	SUPPLIES CONTINUOUSLY	Transported

RELATIONSHIPS:

REGULATORY FORM SUBMISSIONS:

Appendix 3

Summaries of Reported Laboratory Results

Summaries of Report Laboratory Testing and Results

Name	Oil Springs Water Distribution System
Municipality	Oil Springs
Health Unit	Lambton Health Unit
Ministry office	Sarnia District

ID number	260046761
Regulation	O.REG 170/03
Category	LMRS

Microbiological Summaries

Number of Microbiological Results Reported

Grouped by Location and Month
Collected between Jul 1, 2024 and Jun 30, 2025

Location			
Distribution:Oil Springs Water Distribution System			
Month	Escherichia Coli	Total Coliform	Heterotrophic Plate Count
2024-07	8	8	2
2024-08	8	8	2
2024-09	8	8	2
2024-10	8	8	2
2024-11	9	9	2
2024-12	8	8	2
2025-01	8	8	2
2025-02	8	8	2
2025-03	8	8	2
2025-04	8	8	2
2025-05	8	8	2
2025-06	8	8	2

List of Microbiological Results that Exceeded the Limit

Sorted by Day and Sample Location
Collected between Jan 1, 2005 and Jun 30, 2025

Sampled	Result	Qualifier	Location
Sep 05, 2017	2	CFU/100mL	Distribution:Oil Springs Water Distribution System
Aug 10, 2021	1	CFU/100mL	Distribution:Oil Springs Water Distribution System

Chemical Summaries

Total Trihalomethanes - Quarterly Distributed Water Results (or Averages)

Collected between Jan 1, 2023 and Jun 30, 2025

Year	Quarter	Result or Avg	Samples
2023	1	36.00 ug/L	1
2023	2	37.00 ug/L	1
2023	3	62.00 ug/L	1
2023	4	65.00 ug/L	1
2024	1	44.00 ug/L	1
2024	2	36.00 ug/L	1
2024	3	45.00 ug/L	1
2024	4	55.00 ug/L	1
2025	1	34.00 ug/L	1
2025	2	46.00 ug/L	1

Compliance is based on a running average for four quarters.

Total Haloacetic Acids - Quarterly Distributed Water Results (or Averages)

Collected between Jan 1, 2023 and Jun 30, 2025

Year	Quarter	Result or Avg	Samples
2023	1	18.80 ug/L	1
2023	2	23.00 ug/L	1
2023	3	20.90 ug/L	1
2023	4	24.50 ug/L	1
2024	1	39.80 ug/L	1
2024	2	23.20 ug/L	1
2024	3	25.60 ug/L	1
2024	4	19.00 ug/L	1
2025	1	21.60 ug/L	1
2025	2	15.60 ug/L	1

Compliance is based on a running average for four quarters.

Lead Summaries

Lead and Alkalinity Results

Grouped by Regulatory Sampling Period and Sample Type

Collected between Jan 1, 2015 and Jun 30, 2025

Sampling Period		Distribution - Lead Results			Distribution - Alk. Results			Plumbing - Lead results		
Start	End	No. of Tests	Avg (ug/L)	Max (ug/L)	No. of Tests	Avg (mg/L as CaCO3)	Max	No. of Tests	Avg (ug/L)	Max (ug/L)
15-Jun-15	15-Oct-15	4	0.87	1.88	4	74.00	75.00			
15-Dec-15	15-Apr-16	2	0.34	0.38	2	90.00	96.00			
15-Jun-16	15-Oct-16	2	0.15	0.16	2	75.50	76.00			
15-Dec-16	15-Apr-17				1	80.00	80.00			
15-Jun-17	15-Oct-17				1	72.00	72.00			
15-Dec-17	15-Apr-18				1	83.00	83.00			
15-Jun-18	15-Oct-18				2	79.00	80.00			
15-Dec-18	15-Apr-19	2	0.31	0.33	3	83.00	86.00			
15-Jun-19	15-Oct-19	2	0.58	0.68	2	76.50	77.00			
15-Dec-19	15-Apr-20				1	81.00	81.00			
15-Jun-20	15-Oct-20				1	87.00	87.00			
15-Dec-20	15-Apr-21				2	81.50	85.00			
15-Jun-21	15-Oct-21				2	77.50	78.00			
15-Dec-21	15-Apr-22	2	0.43	0.46	2	86.00	87.00			
15-Jun-22	15-Oct-22	2	0.66	0.85	2	78.50	79.00			
15-Dec-22	15-Apr-23				2	80.00	81.00			
15-Jun-23	15-Oct-23				2	75.00	76.00			
15-Dec-23	15-Apr-24				4	79.00	80.00			
15-Jun-24	15-Oct-24				4	80.50	91.00			
15-Dec-24	15-Apr-25	2	0.25	0.46	2	83.00	83.00			

Lead Exceedances

Grouped by Sample Type and Sorted by Date

Collected between Mar 1, 2005 and Jun 30, 2025

Sample Type

Plumbing Drinking Water

Sample Date	Laboratory Sample ID	Result	% of Limit
Mar 22, 2011	TAP-PR KITCHEN 2590 HANNAH ST. 2ND	48.60 ug/L	486.0%
Mar 22, 2011	TAP-PR KITCHEN 2590 HANNAH ST. 1ST	211.00 ug/L	2110.0%

Additional Parameter Summaries

Additional Parameter Results Grouped by Sample Type/Location and Parameter

Grouped by Sample Type/Location and Parameter
Collected between Mar 1, 2005 and Jun 30, 2025

Location

Distribution: Oil Springs Water Distribution System

Parameter	First Sample	Last Sample	Min	Avg	Max	Unit
Ph	Jul 23, 2018	Jan 14, 2019	7.45	7.87	8.13	

Laboratory Testing

Licensed Laboratories Providing Testing Services - Summarized by Parameter Group

Grouped by Laboratory and Parameter Group
Collected between Mar 1, 2005 and Jun 30, 2025

Licence and Laboratory Name

2206 - Sgs Environmental Services - Lakefield

Parameter Group	First Sample	Last Sample
Microbiological	May 02, 2011	Mar 18, 2025
Trihalomethanes	Apr 27, 2009	Apr 01, 2025
Total Haloacetic Acids	Jan 22, 2018	Apr 01, 2025
Lead	Sep 18, 2008	Apr 01, 2025
Additional	Jul 23, 2018	Jan 14, 2019

Licence and Laboratory Name

2207 - Maxxam Analytics Inc. - Mississauga

Parameter Group	First Sample	Last Sample
Trihalomethanes	Jul 24, 2006	Jul 28, 2008
Lead	Nov 06, 2006	Nov 06, 2006

Licence and Laboratory Name

2209 - Sgs Environmental Services - London

Parameter Group	First Sample	Last Sample
Microbiological	Mar 14, 2005	Jun 24, 2025

Licence and Laboratory Name

2292 - Maxxam Analytics [2292] - Mississauga

Parameter Group	First Sample	Last Sample
Trihalomethanes	Nov 03, 2008	Jul 27, 2009

Summaries of Report Laboratory Testing and Results

Name	Petrolia Drinking Water System
Municipality	Petrolia
Health Unit	Lambton Health Unit
Ministry office	Sarnia District

ID number	220002903
Regulation	O.REG 170/03
Category	LMRS

Microbiological Summaries

Number of Microbiological Results Reported

Grouped by Location and Month
Collected between Jul 1, 2024 and Jun 30, 2025

Location

Lake Huron

Month	Escherichia Coli	Total Coliform	Heterotrophic Plate Count
2024-07	5	5	0
2024-08	4	4	0
2024-09	4	4	0
2024-10	5	5	0
2024-11	4	4	0
2024-12	5	5	0
2025-01	4	4	0
2025-02	4	4	0
2025-03	5	5	0
2025-04	4	4	0
2025-05	4	4	0
2025-06	5	5	0

Location

Treated: Bright'S Grove Wtp

Month	Escherichia Coli	Total Coliform	Heterotrophic Plate Count
2024-07	5	5	5
2024-08	4	4	4
2024-09	4	4	4
2024-10	5	5	5
2024-11	4	4	4
2024-12	5	5	5
2025-01	4	4	4
2025-02	4	4	4
2025-03	5	5	5
2025-04	4	4	4
2025-05	4	4	4
2025-06	5	5	5

Location			
Distribution:Petrolia Drinking Water System			
Month	Escherichia Coli	Total Coliform	Heterotrophic Plate Count
2024-07	25	25	15
2024-08	20	20	12
2024-09	20	20	12
2024-10	25	25	15
2024-11	20	20	12
2024-12	25	25	15
2025-01	20	20	12
2025-02	20	20	12
2025-03	25	25	15
2025-04	20	20	12
2025-05	20	20	12
2025-06	25	25	15

List of Microbiological Results that Exceeded the Limit

Sorted by Day and Sample Location
Collected between Jan 1, 2005 and Jun 30, 2025

Sampled	Result	Qualifier	Location
Sep 11, 2006	1 CFU/100mL		Treated: Bright'S Grove Wtp
Oct 04, 2010	1 CFU/100mL		Distribution:Town Of Petrolia Bright'S Grove Water Treatment
Oct 14, 2014	1 CFU/100mL		Distribution:Petrolia Drinking Water System
Oct 14, 2014	1 CFU/100mL		Distribution:Petrolia Drinking Water System
Feb 05, 2018	CFU/100mL	NDOGT	Treated: Bright'S Grove Wtp
Feb 05, 2018	CFU/100mL	NDOGT	Treated: Bright'S Grove Wtp
Jun 18, 2018	CFU/100mL	NDOGN	Distribution:Petrolia Drinking Water System
Jun 18, 2018	CFU/100mL	NDOGN	Distribution:Petrolia Drinking Water System
Jun 21, 2019	70 CFU/100mL		Distribution:Petrolia Drinking Water System
Sep 30, 2019	1 CFU/100mL		Distribution:Petrolia Drinking Water System
Aug 24, 2020	1 CFU/100mL		Distribution:Petrolia Drinking Water System
Nov 14, 2023	1 CFU/100mL		Distribution:Petrolia Drinking Water System
Jan 08, 2024	CFU/100mL	NDOGT	Treated: Bright'S Grove Wtp
Jan 08, 2024	CFU/100mL	NDOGT	Treated: Bright'S Grove Wtp
Jan 08, 2024	CFU/100mL	NDOGT	Treated: Bright'S Grove Wtp
Jan 08, 2024	CFU/100mL	NDOGT	Treated: Bright'S Grove Wtp
Jan 10, 2024	2 CFU/100mL		Distribution:Petrolia Drinking Water System

Chemical Summaries

Number of Schedule 23 Inorganic Parameters Reported

Grouped by Location and Day
Collected between Jan 1, 2020 and Jun 30, 2025

Location

Treated: Bright'S Grove Wtp

Year	Sample Date	Number of Currently Regulated Parameters (9) Reported
2020	Jan 20	9
2021	Jan 18	9
2022	Jan 24	9
2023	Jan 23	9
2024	Jan 22	9
2025	Jan 20	9

Number of Schedule 24 Organic Parameters Reported

Grouped by Location and Day
Collected between Jan 1, 2020 and Jun 30, 2025

Location

Treated: Bright'S Grove Wtp

Year	Sample Date	Number of Currently Regulated Parameters (44) Reported
2020	Jan 20	44
2021	Jan 18	44
2022	Jan 24	44
2023	Jan 23	34
	Feb 7	10
2024	Jan 22	44
2025	Jan 20	44

Total Trihalomethanes - Quarterly Distributed Water Results (or Averages)

Collected between Jan 1, 2023 and Jun 30, 2025

Year	Quarter	Result or Avg	Samples
2023	1	34.00 ug/L	1
2023	2	24.00 ug/L	1
2023	3	53.00 ug/L	1
2023	4	43.00 ug/L	1
2024	1	33.00 ug/L	1
2024	2	34.00 ug/L	1
2024	3	37.00 ug/L	1
2024	4	34.00 ug/L	1
2025	1	27.00 ug/L	1
2025	2	44.00 ug/L	1

Compliance is based on a running average for four quarters.

Total Haloacetic Acids - Quarterly Distributed Water Results (or Averages)

Collected between Jan 1, 2023 and Jun 30, 2025

Year	Quarter	Result or Avg	Samples
2023	1	12.70 ug/L	1
2023	2	19.30 ug/L	1
2023	3	22.10 ug/L	1
2023	4	8.40 ug/L	1
2024	1	25.40 ug/L	1
2024	2	16.50 ug/L	1
2024	3	20.70 ug/L	1
2024	4	17.10 ug/L	1
2025	1	16.60 ug/L	1
2025	2	45.80 ug/L	1

Compliance is based on a running average for four quarters.

Nitrogen - Quarterly Treated Water Results (or Maximums)

Grouped by Location
Collected between Jan 1, 2023 and Jun 30, 2025

Location

Treated: Bright'S Grove Wtp

Year	Quarter	Nitrate	Nitrite
2023	1	0.45 mg/L	0.00 mg/L
	2	1.24 mg/L	0.00 mg/L
	3	0.30 mg/L	0.00 mg/L
	4	0.27 mg/L	0.00 mg/L
2024	1	0.69 mg/L	0.00 mg/L
	2	0.37 mg/L	0.00 mg/L
	3	0.32 mg/L	0.00 mg/L
	4	0.26 mg/L	0.00 mg/L
2025	1	0.28 mg/L	0.00 mg/L
	2	1.05 mg/L	0.00 mg/L

Sodium Results (or Maximums)

Grouped by Location and Sorted by Date
Collected between Jan 1, 2023 and Jun 30, 2025

Location

Treated: Bright'S Grove Wtp

Date	Result / Max
1/20/2025	5.30 mg/L

Lead Summaries

Lead Exceedances

Grouped by Sample Type and Sorted by Date
Collected between Jan 1, 2005 and Jun 30, 2025

Sample Type

Distributed Drinking Water

Sample Date	Laboratory Sample ID	Result	% of Limit
Mar 11, 2009	BY3539	12.00 ug/L	120.0%
Apr 12, 2011	DW HYDRANT CORNER OF JAMES AND CENTRE 1ST	17.20 ug/L	172.0%

Sample Type

Plumbing Drinking Water

Sample Date	Laboratory Sample ID	Result	% of Limit
Apr 14, 2011	TAP-PR KITCHEN SINK 4042 PETROLIA LINE PETROLIA 2	28.40 ug/L	284.0%
Apr 14, 2011	TAP-PR KITCHEN SINK 4042 PETROLIA LINE PETROLIA 1	20.70 ug/L	207.0%
Apr 26, 2011	RESAMPLE TAP-PR KITCHEN SINK 4042 PETROLIA LINE	36.90 ug/L	369.0%
Apr 26, 2011	RESAMPLE TAP-PR KITCHEN SINK 4042 PETROLIA LINE	23.60 ug/L	236.0%
May 01, 2019	TAP-PR KITCHEN 435 KING ST. 1ST	10.40 ug/L	104.0%

Additional Parameter Summaries

Additional Parameter Results Grouped by Sample Type/Location and Parameter

Grouped by Sample Type/Location and Parameter

Collected between Jan 1, 2005 and Jun 30, 2025

Location
Lake Huron

Parameter	First Sample	Last Sample	Min	Avg	Max	Unit
Dissolved Organic Carbon	Apr 18, 2018	Apr 18, 2018	2.00	2.00	2.00	mg/L
Organic Carbon	Apr 18, 2018	Apr 18, 2018	2.00	2.00	2.00	mg/L

Laboratory Testing

Licensed Laboratories Providing Testing Services - Summarized by Parameter Group

Grouped by Laboratory and Parameter Group
Collected between Jan 1, 2005 and Jun 30, 2025

Licence and Laboratory Name

2206 - Sgs Environmental Services - Lakefield

Parameter Group	First Sample	Last Sample
Microbiological	May 02, 2011	Oct 12, 2022
Schedule 23 Inorganics	Aug 17, 2009	Jan 20, 2025
Schedule 24 Organics	Apr 27, 2009	Jan 20, 2025
Trihalomethanes	Apr 27, 2009	Apr 07, 2025
Total Haloacetic Acids	Jan 03, 2017	Apr 07, 2025
Nitrate and Nitrite	Apr 27, 2009	Apr 07, 2025
Sodium	Feb 01, 2011	Jan 20, 2025
Lead	Apr 11, 2011	Feb 18, 2025
Additional	Apr 18, 2018	Apr 18, 2018

Licence and Laboratory Name

2207 - Maxxam Analytics Inc. - Mississauga

Parameter Group	First Sample	Last Sample
Schedule 23 Inorganics	Nov 06, 2006	Nov 02, 2007
Schedule 24 Organics	Jan 24, 2005	Jul 21, 2008
Trihalomethanes	Jan 24, 2005	Jul 21, 2008
Nitrate and Nitrite	Jan 24, 2005	Jul 21, 2008
Sodium	Nov 06, 2006	Nov 06, 2006
Lead	Nov 06, 2006	Aug 11, 2008

Licence and Laboratory Name

2209 - Sgs Environmental Services - London

Parameter Group	First Sample	Last Sample
Microbiological	Jan 04, 2005	Jun 30, 2025

Licence and Laboratory Name

2292 - Maxxam Analytics [2292] - Mississauga

Parameter Group	First Sample	Last Sample
Schedule 23 Inorganics	Dec 01, 2008	Dec 01, 2008
Schedule 24 Organics	Nov 03, 2008	Feb 23, 2009
Trihalomethanes	Nov 03, 2008	Feb 17, 2009
Nitrate and Nitrite	Nov 03, 2008	Feb 17, 2009
Sodium	Dec 01, 2008	Dec 01, 2008
Lead	Mar 09, 2009	Mar 20, 2009

Summaries of Report Laboratory Testing and Results

Name	Enniskillen Township Distribution System
Municipality	Enniskillen
Health Unit	Lambton Health Unit
Ministry office	Sarnia District

ID number	220004377
Regulation	O.REG 170/03
Category	LMRS

Microbiological Summaries

Number of Microbiological Results Reported

Grouped by Location and Month
Collected between Jul 1, 2024 and Jun 30, 2025

Location			
Distribution:Enniskillen Township Distribution System			
Month	Escherichia Coli	Total Coliform	Heterotrophic Plate Count
2024-07	30	30	15
2024-08	24	24	12
2024-09	24	24	12
2024-10	30	30	15
2024-11	24	24	12
2024-12	30	30	15
2025-01	24	24	12
2025-02	24	24	12
2025-03	30	30	15
2025-04	24	24	12
2025-05	24	24	12
2025-06	30	30	15

List of Microbiological Results that Exceeded the Limit

Sorted by Day and Sample Location
Collected between Jan 1, 2005 and Jun 30, 2025

Sampled	Result	Qualifier	Location
Jul 02, 2014	9	CFU/100mL	Distribution:Enniskillen Township Distribution System
Aug 24, 2020	1	CFU/100mL	Distribution:Enniskillen Township Distribution System
May 01, 2023	1	CFU/100mL	Distribution:Enniskillen Township Distribution System

Chemical Summaries

Total Trihalomethanes - Quarterly Distributed Water Results (or Averages)

Collected between Jan 1, 2023 and Jun 30, 2025

Year	Quarter	Result or Avg	Samples
2023	1	26.00 ug/L	2
2023	2	27.00 ug/L	2
2023	3	35.00 ug/L	2
2023	4	51.50 ug/L	2
2024	1	35.00 ug/L	2
2024	2	32.00 ug/L	2
2024	3	45.00 ug/L	2
2024	4	44.00 ug/L	2
2025	1	35.50 ug/L	2
2025	2	28.50 ug/L	2

Compliance is based on a running average for four quarters.

Total Haloacetic Acids - Quarterly Distributed Water Results (or Averages)

Collected between Jan 1, 2023 and Jun 30, 2025

Year	Quarter	Result or Avg	Samples
2023	1	13.95 ug/L	2
2023	2	20.00 ug/L	2
2023	3	19.45 ug/L	2
2023	4	19.35 ug/L	2
2024	1	25.65 ug/L	2
2024	2	22.60 ug/L	2
2024	3	22.60 ug/L	2
2024	4	18.60 ug/L	2
2025	1	22.30 ug/L	2
2025	2	22.00 ug/L	2

Compliance is based on a running average for four quarters.

Lead Summaries

Lead Exceedances

Grouped by Sample Type and Sorted by Date
Collected between Jan 1, 2005 and Jun 30, 2025

Sample Type

Plumbing Drinking Water

Sample Date	Laboratory Sample ID	Result	% of Limit
Mar 22, 2011	TAP-PR KITCHEN 5383 SHILOH LINE 2ND	26.30 ug/L	263.0%
Mar 22, 2011	TAP-PR KITCHEN 5383 SHILOH LINE 1ST	54.30 ug/L	543.0%
Mar 23, 2011	TAP-PR KITCHEN 5453 PETROLIA LINE 1ST	28.60 ug/L	286.0%

Laboratory Testing

Licensed Laboratories Providing Testing Services - Summarized by Parameter Group

Grouped by Laboratory and Parameter Group
Collected between Jan 1, 2005 and Jun 30, 2025

Licence and Laboratory Name

2206 - Sgs Environmental Services - Lakefield

Parameter Group	First Sample	Last Sample
Microbiological	May 02, 2011	May 02, 2011
Trihalomethanes	Apr 27, 2009	Apr 07, 2025
Total Haloacetic Acids	Jan 03, 2017	Apr 07, 2025
Lead	Sep 18, 2008	Mar 10, 2025

Licence and Laboratory Name

2207 - Maxxam Analytics Inc. - Mississauga

Parameter Group	First Sample	Last Sample
Trihalomethanes	Jan 24, 2005	Jul 28, 2008
Lead	Nov 06, 2006	Nov 06, 2006

Licence and Laboratory Name

2209 - Sgs Environmental Services - London

Parameter Group	First Sample	Last Sample
Microbiological	Jan 04, 2005	Jun 30, 2025

Licence and Laboratory Name

2292 - Maxxam Analytics [2292] - Mississauga

Parameter Group	First Sample	Last Sample
Trihalomethanes	Nov 03, 2008	Jul 27, 2009