# Havelock Drinking Water System

# **Annual Water Report**

Reporting period of January 1, 2023 – December 31, 2023

Prepared For: Prepared By:

The Township of Havelock-Belmont-Methuen

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

This report has been prepared to satisfy the annual reporting requirements of the Provincial Regulations and Guidelines established by the Ministry of the Environment in the Province of Ontario including the section 11 and Schedule 22 reports identified in O.Reg 170/03, Drinking Water Systems Regulation and the Permit to Take Water Reports identified in O.Reg 387/04, Water Taking and Transfer Regulation.

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# **Report Availability**

Population Served:	< 10,000
Website where the annual report can be viewed by the public:	www.hbmtwp.ca
Alternate location were annual report will be available for inspection and is free of charge:	Municipal Office
How are system users notified that the annual report is available and is free of charge?	Public access/notice via Township Website and Utility Bill
Number of Designated Facilities served:	None
Has a copy of this report been provided to all Designated Facilities?	N/A
Number of Interested Parties reported to:	N/A
Has a copy of this report been provided to all Interested Parties?	N/A
The following Drinking-Water Systems receive drinking water from this system:	N/A
Has a copy of this report been provided to connected owners?	N/A

# **Compliance Report Card**

<b>Drinking Water System Number:</b>	210000595
System Owner:	The Corporation of the Township of Havelock-Belmont-Methuen
Operating Authority:	Ontario Clean Water Agency
<b>Drinking Water System Category:</b>	Large Municipal Residential
Reporting Period:	January 1, 2023 – December 31, 2023

Event Summary	# of Events	Date	Details
Ministry of Environment Inspections	1	October 19, 2023	Announced- Inspection completed on December 20 <sup>th</sup> , 2023 with 100% final inspection rating.
Ministry of Labour Inspections	0		
DWQMS Audits	1	April 17, 2023	S2 Audit
AWQI's	2	July 4, 2023	Sodium Exceedance
Non-Compliance	0		
Community Complaints	1	Oct 13, 2023	OCWA & HBM visited a consumer's tap upon complaint of water quality. Visual inspect and chlorine residual was completed. Determined cause a recent plumbing repair causing colour.
Spills	0		

# **Quality Control Measures**

The Township of Havelock-Belmont-Methuen facilities are part of OCWA's operational Trent Valley Hub. The facilities are supported by hub, regional and corporate resources. Operational Services are delivered by OCWA staff who live and work in the surrounding area.

OCWA operates facilities in compliance with applicable regulations. The facility has comprehensive manuals detailing operations, maintenance, instrumentation, and emergency procedures. All procedures are treated as active documents, with annual reviews.

OCWA has additional "Value Added" and operational support services that the Township of Havelock-Belmont-Methuen benefits from including:

- Access to a network of operational compliance and support experts at the regional and corporate level, as well as affiliated programs that include the following:
  - Quality & Environmental Management System, Occupational Health & Safety System and an internal compliance audit system.
  - PDM (WISKI) facility operating information repository, which consolidates field data, online
    instrumentation, and electronic receipt of lab test results for reporting, tracking and analysis.
  - Work Management System (WMS) and Maximo track and reports maintenance activities, and creates predictive and preventative reports.
  - Wonderware wide-area SCADA system allows for process optimization and data logging, process trending, remote alarming and optimization of staff time.
- Client reporting which includes operational data, equipment inventory, financial statements, maintenance work orders, and capital status reports
- Site-Specific Contingency Plans and Standard Operating Procedures
- Use of accredited laboratories
- Access to a network of operational compliance and support experts at the hub, region and corporate level
- Additional support in response to unusual circumstances, and extra support in an emergency.
- Use of sampling schedules for external laboratory sampling

#### **System Process Description**

#### **Raw Source**

Raw water source for the Havelock Drinking Water System are from three groundwater wells; Well 1, Well 3 and Well 4.

#### **Treatment**

The Havelock Drinking Water System is operated with two treatment subsystems; Well #3 which is an independent subsystem and Wells 1&4 which are operated together. Well #3 is under the direct influence of surface water system. Treatment consists of chemically assisted duel media (GAC/sand) gravity filtration plus ultraviolet and sodium hypochlorite disinfection. Well #1 and Well #4 utilize ultraviolet disinfection and sodium hypochlorite for treatment. This water system has continuous, alarmed monitoring for treated water free chlorine residual, filter effluent turbidity and distribution free chlorine residual.

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# **Treatment Chemicals used during the reporting year:**

Chemical Name	Use	Supplier
SternPac	Primary Coagulation	Kemira
Magnafloc	Coagulant aid	BASF Canada
Granular Activated Carbon	Filter Media	Calgon Carbon / Continental Carbon Group
Sodium Hypochlorite - 12%	Disinfection	Jutzi & Brentag

# **Summary of Non-Compliance**

## **Adverse Water Quality Incidents**

			Cause		
Date	AWQI#	Parameter	Result	Exceedance of	Corrective Action Taken
July 4 <sup>th</sup> ,2023	162509	Sodium in TW Well 3	30.4 mg/L	10.4 mg/L	Re Sampled and test. Re sample result 31.7 mg/L
July 4 <sup>th</sup> ,2023	162510	Sodium in TW Wells 1&4	108 mg/L	88 mg/L	Re Sampled and test. Re sample result 108 mg/L

# **Non-Compliance**

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
N/A				

# **Non-Compliance Identified in a Ministry Inspection:**

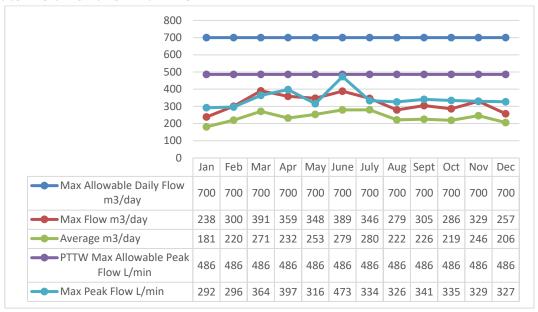
Ministry of Environment Inspection Rating: N/A

trimistry of Environment inspection nating. 1471				
Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
N/A				

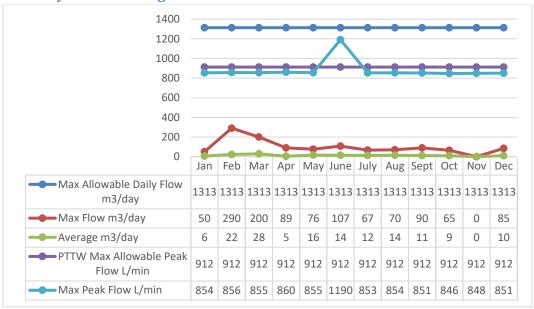
#### **Raw Water Flows**

The Raw Water flows are regulated under the Permit to Take Water.

#### Raw Water Volume Taken- Raw Well 1:

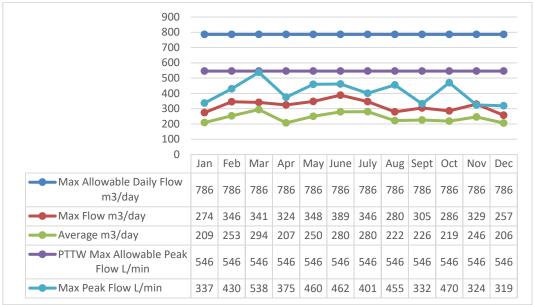


#### Raw Water Daily Rate of Taking Raw Well 3:



The Peak Flow rate was increased in June 2023 during scheduled flow meter calibrations.

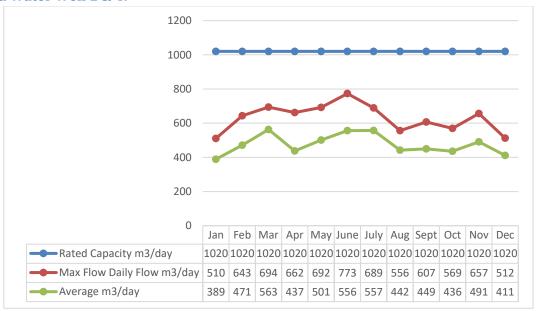
#### Raw Water Daily Rate of Taking Raw Well 4:



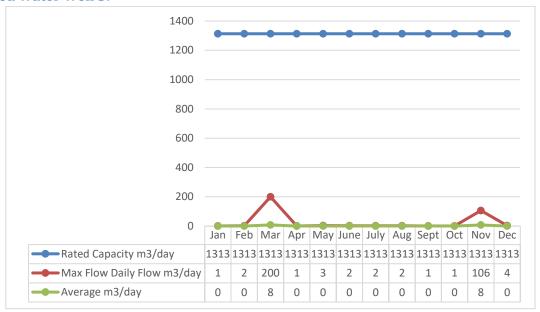
#### **Treated Water Flows**

The Treated Water flows are regulated under the Municipal Drinking Water License. The Havelock Drinking Water System has a rated capacity of 1020m3/day for Well 1&4 and 1313m³/day for Well 3. Additional flow data can be found under the Water Taking and Transfer Data section.

#### Treated Water Well 1 & 4:



#### **Treated Water Well 3:**



# **Regulatory Sample Results Summary**

- RW1 = Raw Water Well 1
- RW3 = Raw Water Well 3
- RW4 = Raw Water Well 4
- TW3 = Treated Water Well 3
- TWc = Treated Water Well 1&4 Combined
- DW = Distribution Water

#### **Microbiological Testing**

Location	Number of Samples	E. Coli Results (min) - (max)	Total Coliform Results (min) – (max)	Number of HPC Samples	HPC Results (min) - (max)
Raw, Well 1	52	0 – 1	0 – 2	~	~
Raw, Well 3	52	0 - 20	0 – 60	~	~
Raw, Well 4	52	0 – 1	0 – 1	~	~
Treated, Well 3	52	0 – 0	0 - 0	52	0 – 11
Treated – Well 1 & 4 Combined	52	0 - 0	0 - 0	52	0 – 2
Distribution - DW	154	0 - 0	0 - 0	154	0 – 6

#### On-Line

Parameter	Range of Results (min # - max #)
Filter #1 Effluent Turbidity, Well 3	0.02 – 0.41 NTU
Filter #2 Effluent Turbidity, Well 3	0.00 – 5.00 NTU*
Treated Water Free Chlorine, Well 3	0.81 – 3.26 mg/L
Turbidity, Well 1	0.0 – 1.72 NTU*
Turbidity, Well 4	0.0 – 1.71 NTU*
Treated Water Free Chlorine, TWc	1.00- 2.82 mg/L
Distribution Free Chlorine	0.38- 2.81 mg/L
Treated Water Fluoride	Fluoride is not added at this facility

<sup>\*</sup> Instrument spikes and dips recorded by on-line instrumentation were a result of air bubbles and various maintenance and calibration activities. Power interruptions may also cause an instrument reading to drop to zero. All events are reviewed for compliance with O. Reg. 170/03 and if warranted, are reported to the Ministry of Environment as Adverse Water Quality Incidents.

#### In-House

Parameter	# of grab samples taken	Range of Results (min # - max #)
Raw Water Turbidity, Well 1	12	0.08 – 0.29 NTU
Raw Water Turbidity, Well 4	12	0.07 – 0.28 NTU
Treated Water Free Chlorine, Well 1&4	52	1.63 – 2.2 mg/L
Treated Water Free Chlorine, Well 3	53	1.36– 2.5 mg/L
Distribution Free Chlorine	158	0.53 - 2.1 mg/L

#### **Laboratory**

Parameter	# of grab samples taken	Range of Results (min # - max #)		
Treated Water Fluoride	Fluoride is not used at this facility			
Raw Water Iron, Well 3	12	140.0 – 42,300.0 ug/L		
Raw Water Manganese, Well 3	12	130.0 - 2,450.0 ug/L		
Treated Water Iron, Well 3	12	10.0 – 160.0 ug/L		
Treated Water Manganese, Well 3	12	0.00 – 10.0 ug/L		

# Additional Legislated Samples

Legal Document	Date of Issuance	Parameter	# of grab samples taken	Annual Average Results	Annual Average Limit
Municipal Licence	June 25, 2021	Suspended	12	2.25 mg/L	25 mg/L
		Solids			
Municipal Licence	June 25, 2021	Total Chlorine	12	0.012 mg/L	0.02 mg/L
		Residual			

#### **Inorganic Parameters**

- MAC = Maximum Allowable Concentration as per O. Reg 169/03
- BDL = Below the laboratory detection level
- Note: Fluoride and Sodium are only required to be tested every 60 months.

Treated Water	Sample Date	Result Value	MAC	Exceed	lances
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW3	03/06/23	< MDL 0.6	6	No	No
Antimony: Sb (ug/L) - TWc	03/06/23	< MDL 0.6	6	No	No
Arsenic: As (ug/L) - TW3	03/06/23	0.2	10	No	No
Arsenic: As (ug/L) - TWc	03/06/23	0.2	10	No	No
Barium: Ba (ug/L) - TW3	03/06/23	133	1000	No	No
Barium: Ba (ug/L) - TWc	03/06/23	138	1000	No	No
Boron: B (ug/L) - TW3	03/06/23	38	5000	No	No
Boron: B (ug/L) - TWc	03/06/23	36	5000	No	No
Cadmium: Cd (ug/L) - TW3	03/06/23	0.062	5	No	No
Cadmium: Cd (ug/L) - TWc	03/06/23	0.066	5	No	No
Chromium: Cr (ug/L) - TW3	03/06/23	0.48	50	No	No
Chromium: Cr (ug/L) - TWc	03/06/23	0.58	50	No	No
Mercury: Hg (ug/L) - TW3	03/06/23	< MDL 0.01	1	No	No
Mercury: Hg (ug/L) - TWc	03/06/23	< MDL 0.01	1	No	No
Selenium: Se (ug/L) - TW3	03/06/23	0.82	50	No	No
Selenium: Se (ug/L) - TWc	03/06/23	1.1	50	No	No
Uranium: U (ug/L) - TW3	03/06/23	0.222	20	No	No
Uranium: U (ug/L) - TWc	03/06/23	0.217	20	No	No
Fluoride (mg/L) - TW3	07/04/23	< MDL 0.06	1.5	No	No
Fluoride (mg/L) - TWc	07/04/23	0.07	1.5	No	No
Nitrate : (mg/L) - TW3	01/16/23	2.06	10	No	No
Nitrate : (mg/L) - TW3	04/03/23	0.038	10	No	No
Nitrate : (mg/L) - TW3	07/04/23	0.148	10	No	No
Nitrate : (mg/L) - TW3	10/10/23	0.11	10	No	No
Nitrate : (mg/L) - TWc	01/16/23	2.22	10	No	No
Nitrate : (mg/L) - TWc	04/03/23	2.68	10	No	No
Nitrate : (mg/L) - TWc	07/04/23	2.38	10	No	No
Nitrate : (mg/L) - TWc	10/10/23	2.53	10	No	No
Nitrite : (mg/L) - TW3	01/16/23	< MDL 0.003	1	No	No

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Nitrite : (mg/L) - TW3	04/03/23	< MDL 0.003	1	No	No
Nitrite : (mg/L) - TW3	07/04/23	< MDL 0.003	1	No	No
Nitrite : (mg/L) - TW3	10/10/23	< MDL 0.003	1	No	No
Nitrite : (mg/L) - TWc	01/16/23	< MDL 0.003	1	No	No
Nitrite : (mg/L) - TWc	04/03/23	< MDL 0.003	1	No	No
Nitrite : (mg/L) - TWc	07/04/23	< MDL 0.003	1	No	No
Sodium (mg/L) - TWc	07/04/23	108	20.0*	Yes	Yes
Sodium (mg/L) – TW3	07/04/23	30.4	20.0*	Yes	Yes
Sodium (mg/L) - TWc	07/17/23	108	20.0*	Yes	Yes
Sodium (mg/L) – TW3	07/17/23	31.7	20.0*	Yes	Yes

<sup>\*</sup>There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

#### **Organic Parameters**

- MAC = Maximum Allowable Concentration as per O.Reg 169/03
- BDL = Below the laboratory detection level

TREATED WATER	Sample Date	Sample Result	MAC		nber of edances
				MAC	1/2 MAC
1,1-Dichloroethylene (ug/L)-TWc	03/06/23	< MDL 0.33	14	No	No
1,2-Dichlorobenzene (ug/L)-TWc	03/06/23	< MDL 0.41	200	No	No
1,2-Dichloroethane (ug/L)-TWc	03/06/23	< MDL 0.35	5	No	No
1,4-Dichlorobenzene (ug/L)-TWc	03/06/23	< MDL 0.36	5	No	No
2,3,4,6-Tetrachlorophenol (ug/L)-TWc	03/06/23	< MDL 0.2	100	No	No
2,4,6-Trichlorophenol (ug/L)-TWc	03/06/23	< MDL 0.25	5	No	No
2,4-Dichlorophenol (ug/L)-TWc	03/06/23	< MDL 0.15	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)-TWc	03/06/23	< MDL 0.19	100	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)-TWc	03/06/23	< MDL 0.12	100	No	No
Alachlor (ug/L) -TWc	03/06/23	< MDL 0.02	5	No	No
Atrazine + N-dealkylated metabolites (ug/L)-TWc	03/06/23	< MDL 0.01	5	No	No
Azinphos-methyl (ug/L)-TWc	03/06/23	< MDL 0.05	20	No	No
Benzene (ug/L)-TWc	03/06/23	< MDL 0.32	1	No	No
Benzo(a)pyrene (ug/L)-TWc	03/06/23	< MDL 0.004	0.01	No	No
Bromoxynil (ug/L)-TWc	03/06/23	< MDL 0.33	5	No	No
Carbaryl (ug/L)-TWc	03/06/23	< MDL 0.05	90	No	No
Carbofuran (ug/L) -TWc	03/06/23	< MDL 0.01	90	No	No
Carbon Tetrachloride (ug/L) -TWc	03/06/23	< MDL 0.17	2	No	No
Chlorpyrifos (ug/L) -TWc	03/06/23	< MDL 0.02	90	No	No

Diazinon (ug/L)-TWc	03/06/23	< MDL 0.02	20	No	No
Dicamba (ug/L)-TWc	03/06/23	< MDL 0.2	120	No	No
Dichloromethane (Methylene Chloride) (ug/L)-TWc	03/06/23	< MDL 0.35	50	No	No
Diclofop-methyl (ug/L)-TWc	03/06/23	< MDL 0.4	9	No	No
Dimethoate (ug/L)-TWc	03/06/23	< MDL 0.06	20	No	No
Diquat (ug/L)-TWc	03/06/23	< MDL 1	70	No	No
Diuron (ug/L)-TWc	03/06/23	< MDL 0.03	150	No	No
Glyphosate (ug/L)-TWc	03/06/23	< MDL 1	280	No	No
Malathion (ug/L)-TWc	03/06/23	< MDL 0.02	190	No	No
Metolachlor (ug/L)-TWc	03/06/23	< MDL 0.01	50	No	No
Metribuzin (ug/L)-TWc	03/06/23	< MDL 0.02	80	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)-TWc	03/06/23	< MDL 0.3	80	No	No
Paraquat (ug/L)-TWc	03/06/23	< MDL 1	10	No	No
PCB (ug/L)-TWc	03/06/23	< MDL 0.04	3	No	No
Pentachlorophenol (ug/L)-TWc	03/06/23	< MDL 0.15	60	No	No
Phorate (ug/L)-TWc	03/06/23	< MDL 0.01	2	No	No
Picloram (ug/L)-TWc	03/06/23	< MDL 1	190	No	No
Prometryne (ug/L)-TWc	03/06/23	< MDL 0.03	1	No	No
Simazine (ug/L)-TWc	03/06/23	< MDL 0.01	10	No	No
Terbufos (ug/L)-TWc	03/06/23	< MDL 0.01	1	No	No
Tetrachloroethylene (ug/L)-TWc	03/06/23	< MDL 0.35	10	No	No
Triallate (ug/L) -TWc	03/06/23	< MDL 0.01	230	No	No
Trichloroethylene (ug/L)-TWc	03/06/23	< MDL 0.44	5	No	No
Trifluralin (ug/L)-TWc	03/06/23	< MDL 0.02	45	No	No
Vinyl Chloride (ug/L)-TWc	03/06/23	< MDL 0.17	1	No	No
1,1-Dichloroethylene (ug/L)-TW3	03/06/23	< MDL 0.33	14	No	No
1,2-Dichlorobenzene (ug/L)-TW3	03/06/23	< MDL 0.41	200	No	No
1,2-Dichloroethane (ug/L)-TW3	03/06/23	< MDL 0.35	5	No	No
1,4-Dichlorobenzene (ug/L)-TW3	03/06/23	< MDL 0.36	5	No	No
2,3,4,6-Tetrachlorophenol (ug/L)-TW3	03/06/23	< MDL 0.2	100	No	No
2,4,6-Trichlorophenol (ug/L)-TW3	03/06/23	< MDL 0.25	5	No	No
2,4-Dichlorophenol (ug/L)-TW3	03/06/23	< MDL 0.15	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)-TW3	03/06/23	< MDL 0.19	100	No	No
-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)-TW3	03/06/23	< MDL 0.12	100	No	No
Alachlor (ug/L) -TW3	03/06/23	< MDL 0.02	5	No	No
Atrazine + N-dealkylated metabolites (ug/L)-TW3	03/06/23	< MDL 0.01	5	No	No
Azinphos-methyl (ug/L)-TW3	03/06/23	< MDL 0.05	20	No	No
Benzene (ug/L)-TW3	03/06/23	< MDL 0.32	1	No	No
Benzo(a)pyrene (ug/L)-TW3	03/06/23	< MDL 0.004	0.01	No	No
Bromoxynil (ug/L)-TW3	03/06/23	< MDL 0.33	5	No	No
Carbaryl (ug/L)-TW3	03/06/23	< MDL 0.05	90	No	No
Carbofuran (ug/L) -TW3	03/06/23	< MDL 0.01	90	No	No

Carbon Tetrachloride (ug/L) -TW3	03/06/23	< MDL 0.17	2	No	No
Chlorpyrifos (ug/L) -TW3	03/06/23	< MDL 0.02	90	No	No
Diazinon (ug/L)-TW3	03/06/23	< MDL 0.02	20	No	No
Dicamba (ug/L)-TW3	03/06/23	< MDL 0.2	120	No	No
Dichloromethane (Methylene Chloride) (ug/L)-TW3	03/06/23	< MDL 0.35	50	No	No
Diclofop-methyl (ug/L)-TW3	03/06/23	< MDL 0.4	9	No	No
Dimethoate (ug/L)-TW3	03/06/23	< MDL 0.06	20	No	No
Diquat (ug/L)-TW3	03/06/23	< MDL 1	70	No	No
Diuron (ug/L)-TW3	03/06/23	< MDL 0.03	150	No	No
Glyphosate (ug/L)-TW3	03/06/23	< MDL 1	280	No	No
Malathion (ug/L)-TW3	03/06/23	< MDL 0.02	190	No	No
Metolachlor (ug/L)-TW3	03/06/23	< MDL 0.01	50	No	No
Metribuzin (ug/L)-TW3	03/06/23	< MDL 0.02	80	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)-TW3	03/06/23	< MDL 0.3	80	No	No
Paraquat (ug/L)-TW3	03/06/23	< MDL 1	10	No	No
PCB (ug/L)-TW3	03/06/23	< MDL 0.04	3	No	No
Pentachlorophenol (ug/L)-TW3	03/06/23	< MDL 0.15	60	No	No
Prometryne (ug/L)-TW3	03/06/23	< MDL 0.03	1	No	No
Simazine (ug/L)-TW3	03/06/23	< MDL 0.01	10	No	No
Terbufos (ug/L)-TW3	03/06/23	< MDL 0.01	1	No	No
Tetrachloroethylene (ug/L)-TW3	03/06/23	< MDL 0.35	10	No	No
Triallate (ug/L) -TW3	03/06/23	< MDL 0.01	230	No	No
Trichloroethylene (ug/L)-TW3	03/06/23	< MDL 0.44	5	No	No
Trifluralin (ug/L)-TW3	03/06/23	< MDL 0.02	45	No	No
Vinyl Chloride (ug/L)-TW3	03/06/23	< MDL 0.17	1	No	No
DISTRIBUTION WATER					
Trihalomethane: Total (ug/L) Annual Average - DW	2023	28.50	100	No	No

# **Lead Sampling**

The Lead Sampling Program is required under O.Reg 170/03. This system qualified for the plumbing exemption. This facility is on a reduced sampling schedule and lead is sampled every 36 months, the last samples were taken in 2021.

Location	Date	Lead (mg/L)	рН	Alkalinity (mg/L) as CACO3
Hydrant #47	13-Mar-23	n/a	7.47	291
Hydrant #68	13-Mar-23	n/a	7.48	292
Hydrant #47	18-Sept-23	n/a	7.69	272
Hydrant #68	18-Sept-23	n/a	7.92	286

## **Maintenance Summary**

OCWA uses a risk-based preventative maintenance framework that ensures assets are maintained to manufacturer's and/or industry standards. Maintenance is completed using various tools and operational supports.

OCWA uses a Workplace Maintenance System (WMS). WMS is a maintenance tracking system that can generate work orders as well as give summaries of completed and scheduled work. During the year, the operating authority at the facility generates scheduled work orders on a weekly, monthly and annual basis. The service work is recorded in the work order history. This ensures routine and preventive maintenance is carried out. Emergency and capital repair maintenance is completed and added to the system.

Preventative Maintenance Work Orders Completed	339
Operational Maintenance Work Orders Completed	19
Capital Maintenance Work Orders Completed	24

Capital projects are listed and provided to the The Township of Havelock-Belmont-Methuen in the form of a "Capital Forecast". This list is developed by facility staff and provides recommendations for facility components requiring upgrading or improvement.

#### **QEMS**

An S2 Audit was conducted by QMI-SAI Canada Limited on April 17<sup>th</sup>, 2023. The Township of Havelock-Belmont-Methuen's Quality Management System conforms to the Standard.

Maintenance Highlights: major expenses incurred to install, repair or replace required equipment

Chlorine Pump	
Repair 3 leaking Hydrants	
Replace Broken Data logger	
Repair Leaking Valve	

## **Water Taking and Transfer Data**

Data for the reporting period of January 1, 2023 - December 31, 2023 was submitted electronically to the Ministry of the Environment on January 26, 2024 under Permit to Take Water PTTW 3448-9LMT5K.

