

Ministry of the Ministère de

#### OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:DWS 220008765Drinking-Water System Name:Chepstow Drinking Water SystemDrinking-Water System Owner:Municipality of BrocktonDrinking-Water System Category:Small Municipal ResidentialPeriod being reported:January 1, 2020 to December 31, 2020

<u>Complete if your Category is Large</u> <u>Municipal Residential or Small Municipal</u> Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [x]

Is your annual report available to the public at no charge on a website on the Internet?

Yes [x] No []

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Municipal of Brockton 100 Scott St., PO Box 68 Walkerton, ON NOG 2V0 (519) 881-2223 Complete for all other Categories.

**Number of Designated Facilities served:** 

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes [x] No []

**Number of Interested Authorities you report to:** 

Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

<b>Drinking Water System Name</b>	Drinking Water System Number
N/A	

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes [x] No [ ]



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Inc	licate how you notified system users that your annual report is available, and is free
of	charge.
[x]	Public access/notice via the web
[x]	Public access/notice via Government Office
[]	Public access/notice via a newspaper
[x]	Public access/notice via Public Request
[]	Public access/notice via a Public Library
[]	Public access/notice via other method
De	scribe your Drinking-Water System
to a with put hypotherical disconnections with the with t	epstow Powers Subdivision water system consists of a 150 mm bedrock well drilled a depth of 57.6 m with approximately 15.8 m of till overburden. The well is equipped tha 1.1 kW submersible pump rated at 2.21 L/s at a TDH of 414 kpa. The mphouse is located on top of the well and houses chlorine pumps utilizing sodium pochlorite, 2 sets of two-stage filtration (5 micron and 1 micron) filters, followed by 2 traviolet units. The water then enters a chlorine contact loop and is delivered to the tribution system with pressure maintenance provided by 3 – 455 L cushion tanks. e system has a standby diesel generator for emergency situations that was installed in 11.
Lis	t all water treatment chemicals used over this reporting period
	Certified Sodium Hypochlorite (12%)
W	ere any significant expenses incurred to?  [ ] Install required equipment  [X] Repair required equipment  [ ] Replace required equipment
Pla	ase provide a brief description and a breakdown of monetary expenses incurred

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Work was completed to repair a hole in the well pump discharge. The pump discharge piping was replaced and a video inspection of the well was completed. The total cost of the project was approximately \$12,448.



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Provide 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

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Incident	Parameter	Result	Unit of	Corrective Action	Corrective
Date			Measure		<b>Action Date</b>
July 19, 2020	UV	Loss of Primary Disinfection for approx. 3 minutes	NA	Restored primary disinfection	July 20, 2020

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

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	13	0 - 0	0 - 3		
Distribution	53	0 - 0	0 - 0	53	0 -7

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)
Filtered Effluent Turbidity	366	0.04 – 0.27 ntu
Chlorine Chlorine Dist.	366 248	1.10 - 1.82 1.08 - 1.82
Fluoride (If the DWS provides fluoridation)		

**NOTE**: Record the unit of measure if it is **not** milligrams per litre.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
N/A				





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# Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alkalinity	Mar. 17, 2020	238		
7 Aikaiiiity	Sept. 22, 2020	234	mg/L	
Antimony	Feb.20,2018	<0.6	ug/L	
Arsenic	Feb.20,2018	<1.0	ug/L	
Barium	Feb.20,2018	179	ug/L	
Boron	Feb.20,2018	<50	ug/L	
Cadmium	Feb.20,2018	<0.1	ug/L	
Chromium	Feb.20,2018	<1.0	ug/L	
Lead	Oct. 13, 2020	<1.0	ug/L	
Lead 15.1	Mar. 17, 2020	<1.0	ug/L	
	Sep.22, 2020	<1.0	8	
Mercury	Feb.20,2018	<0.1	ug/L	
Selenium	Feb.20,2018	<5.0	ug/L	
Sodium	Oct. 16, 2018	5.49	mg/L	
Uranium	Feb.20,2018	<5.0	ug/L	
Fluoride	Oct. 16, 2018	1.70	ug/L	Yes - Public
	Oct. 23, 2018	1.74	g/ 2	Notified
Nitrate				
1st Quarter	Jan. 14, 2020	< 0.02		
2 <sup>nd</sup> Quarter	Apr. 01, 2020	< 0.02	/r	
3 <sup>rd</sup> Quarter	Jul. 14, 2020	< 0.02	mg/L	
4 <sup>th</sup> Quarter	Oct. 13, 2020	< 0.02		
Nitrite				
1st Quarter	Jan. 14, 2020	< 0.01		
2 <sup>nd</sup> Quarter	Apr. 01, 2020	<0.01	ma/I	
3 <sup>rd</sup> Quarter	Jul. 14, 2020	< 0.01	mg/L	
4th Quarter	Oct. 13, 2020	< 0.01		

## Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result	Unit of	Exceedance
		Value	Measure	
Alachlor	Feb.20,2018	<0.1	ug/L	
Atrazine + N-dealkylated metabolites	Feb.20,2018	<0.2	ug/L	
Azinphos-methyl	Feb.20,2018	<0.1	ug/L	
Benzene	Feb.20,2018	<0.5	ug/L	
Benzo(a)pyrene	Feb.20,2018	<0.01	ug/L	
Bromoxynil	Feb.20,2018	<0.2	ug/L	
Carbaryl	Feb.20,2018	<0.2	ug/L	
Carbofuran	Feb.20,2018	<0.2	ug/L	
Carbon Tetrachloride	Feb.20,2018	<0.2	ug/L	
Chlorpyrifos	Feb.20,2018	<0.1	ug/L	
Diazinon	Feb.20,2018	<0.1	ug/L	
Dicamba	Feb.20,2018	<0.2	ug/L	





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1,2-Dichlorobenzene	Feb.20,2018	<0.5	ug/L	
1,4-Dichlorobenzene	Feb.20,2018	<0.5	ug/L	
1,2-Dichloroethane	Feb.20,2018	<0.5	ug/L	
1,1-Dichloroethylene	Feb.20,2018	<0.5	ug/L	
(vinylidene chloride)				
Dichloromethane	Feb.20,2018	<5.0	ug/L	
2-4 Dichlorophenol	Feb.20,2018	<0.3	ug/L	
2,4-D (2,4-Dichlorophenoxy acetic	Feb.20,2018	<0.2	ug/L	
acid)				
Diclofop-methyl	Feb.20,2018	<0.2	ug/L	
Dimethoate	Feb.20,2018	<0.1	ug/L	
Diquat	Feb.20,2018	<1.0	ug/L	
Diuron	Feb.20,2018	<1.0	ug/L	
Glyphosate	Feb.20,2018	<5.0	ug/L	
HAA (Haloacetic Acid)			9	
1 <sup>st</sup> Quarter	Jan. 14/20	2.8	ug/L	
2 <sup>nd</sup> Quarter	Apr. 01/20	2.2	ug/L	
3 <sup>rd</sup> Quarter	July 14/20	2.2		
4 <sup>th</sup> Quarter	Oct. 13/20	2.2		
MCPA	Feb.20,2018	<0.2		
(2-Methyl-4-chlorophenoxyacetic acid				
Malathion	Feb.20,2018	<0.1	ug/L	
Metolachlor	Feb.20,2018	<0.1	ug/L	
Metribuzin	Feb.20,2018	<0.1	ug/L	
Monochlorobenzene	Feb.20,2018	<0.5	ug/L	
Paraquat	Feb.20,2018	<1.0	ug/L	
Pentachlorophenol	Feb.20,2018	<0.5	ug/L	
Phorate	Feb.20,2018	<0.1	ug/L	
Picloram	Feb.20,2018	<0.2	ug/L	
Polychlorinated Biphenyls(PCB)	Feb.20,2018	<35	ug/L	
Prometryne	Feb.20,2018	<0.1	ug/L	
Simazine	Feb.20,2018	<0.1	ug/L	
THM (NOTE: show latest annual average)	2020	4.3	ug/L	
	Average		ug/L	
Terbufos	Feb.20,2018	<0.2	ug/L	
Tetrachloroethylene	Feb.20,2018	<0.5	ug/L	
2,3,4,6-Tetrachlorophenol	Feb.20,2018	<0.5	ug/L	
Triallate	Feb.20,2018	<0.1	ug/L	
Trichloroethylene	Feb.20,2018	<0.5	ug/L	
2,4,6-Trichlorophenol	Feb.20,2018	<0.5	ug/L ug/L	
Trifluralin	Feb.20,2018	<0.1	ug/L ug/L	
Vinyl Chloride	Feb.20,2018	<0.2		
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List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
Fluoride	1.70	ug/L	Oct. 16, 2018
Fluoride	1.74	ug/L	Oct. 23, 2018