BIRDS CREEK PUBLIC SCHOOL ANNUAL REPORT

Drinking water system number:	260013910
Drinking water system name:	Bird's Creek Public School
Drinking water system owner:	Hastings and Prince Edward District School Board
Drinking water system category:	Small Non-Municipal Non-Residential
Period Being Reported:	April 1, 2020 - March 31, 2021

Number of Designated Facilities Served:	2
Copies provided of annual report to all designated facilities	YES
served:	
Number of interested authorities you report to:	3
Copies provided of annual report to all interested authorities	YES
for each designated facility served:	
List all drinking water systems (if any) which receive all of their	Bird's Creek Public School and North Hastings
drinking water from your system:	Childrens Services
Copies provided of annual report to all drinking water system	YES
owners to whom you provide all of its drinking water:	
Indicate method of notifying system users of annual report	Website and Public Request
availability free of charge:	

Description of Drinking Water System:

The Bird's Creek Public School drinking water system consists of one well, located west of the school. The well is equipped with a submersible pump that supplies raw water through a pipe chase corridor inside the school. The water is chlorinated and then piped to a mechanical room where it passes through two large cartridge style sediment filters followed by a UV pro 20 disinfection system equipped with a solenoid valve that shuts down water flow in cases of low water quality or loss of power. The water is then passed by a post-chlorination injector prior to distribution to the school plumbing. Chlorine residual (supplemental chlorination) is measured each day the school is open.

A service contract is in place with Culligan Water, Belleville, to maintain the treatment system.

To satisfy treatment requirements as described in Ontario Regulation 170/03, Ultraviolet disinfection equipment is used as primary disinfection. In addition to meeting the minimum treatment requirement we add chlorination as a means of secondary disinfection, though it is not required in this system. The free chlorine residual is sampled and recorded on a daily basis and the UV solenoid is tested for proper functioning on a weekly basis.

A professional engineer hired by the Board certified that the water supply and works do meet the minimum standards set out in the Ontario Regulation 170/03. They also certified that the minimum treatment laid out in Schedule 2 of the regulations is being complied with and that all equipment required by Schedule 6 and Schedule 9 of the regulations is provided.

Water treatement chemicals used over this reporting period: 12% Sodium hypochlorite solution

Significant Expenses incurred included (0=N/A, X=APPLICABLE):	
0 Install Required Equipment	
X Repair Required Equipment	
0 Replace Required Equipment	
Description and breakdown of monetary expenses incurred: April 1, 2020 - M	arch 31, 2021
Water system upgrades and replacements:	
No upgrades or replacements of equipment were completed during this year; replacement	:
parts only	\$1,274.93
Routine system maintenance (Including service contracts):	
Regular maintenance includes monthly checks of the water treatment system. Where	
components are replaced as regular maintenace (ie filters), that cost is noted under	
upgrades/replacements/part repair. The costs for regular maintenance on water treatmen	t
equipment was :	\$2,824.18
Water sampling and analysis:	<i>\</i>
The cost for microbiological and chemical water sampling by Greer Galloway and analytica	I
fees was:	\$2,793.66
Staff Training:	<i>42,733.00</i>
Costs for required training of staff under Ontario Regulation 170/03 was:	\$84.62
costs for required training of start under Ontario Regulation 170/05 was.	+ - ···

Details on notices submitted in accordance with subsection 18(1) of the SDWA or section 16-4 of Schedule 16 of O.Reg. 170/03 and reported to SAC:

April 1, 2020 - March 31, 2021

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective action date
No incidents.					

Microbiological testing done under the Schedule 10, 11 or 12 of O.Reg 170/03: April 1, 2020 - March 31, 2021

	samples	Range of E.Coli or Fecal Results	Range of TC Results
		(min-max)	(min-max)
Raw	10	0-0	0-0
Treated- Staff Kitchen	17	0-0	0-0
Distribution	17	0-0	0-0

Operational testing done under Schedule 7, 8 or 9 of O.Reg. 170/03:

April 1, 2020 - March 31, 2021

	Number of Grab Samples	Range of Results
		(min-max)
Turbidity	17	0.08 - 0.75
Chlorine	180	0.07 - 0.77

Inorganic testing done during this reporting period or most recent sample results:						
				Unit of		
Parameter		Sample Date	Result Value	Measure	Exceedance	
Antimony		24-May-16	< 0.0001	mg/L	No	
Arsenic		24-May-16	< 0.0001	mg/L	No	
Barium		24-May-16	0.180	mg/L	No	
Boron		24-May-16	0.010	mg/L	No	
Cadmium		24-May-16	<0.00002	mg/L	No	
Chromium		24-May-16	< 0.002	mg/L	No	
*Lead	STANDING	25-Sep-20	0.00348	mg/L	No	
	FLUSHED	25-Sep-20	0.00151	mg/L	No	
Mercury		24-May-16	<0.00002	mg/L	No	
Selenium		24-May-16	< 0.001	mg/L	No	
Sodium		24-May-16	39.4	mg/L	Yes	
Uranium		24-May-16	0.00279	mg/L	No	
Fluoride 24-		24-May-16	0.1	mg/L	No	
Nitrite - 4th	quarter result	Mar-21	0.1	mg/L	No	
Nitrate - 4th	quarter result	Mar-21	0.7	mg/L	No	

Organic testing done during this reporting period or most recent sample results:					
			Unit of		
Parameter	Sample Date	Result Value	Measure	Exceedance	
Alachlor	24-May-16	<0.0003	mg/L	No	
Atrazine + N-dealkylated metobolites	24-May-16	<0.0005	mg/L	No	
Azinphos-methyl	24-May-16	<0.001	mg/L	No	
Benzene	24-May-16	<0.0005	mg/L	No	
Benzo(a)pyrene	24-May-16	<0.000005	mg/L	No	
Bromoxynil	24-May-16	<0.0003	mg/L	No	
Carbaryl	24-May-16	<0.003		No	
Carbofuran	24-May-16	<0.001	mg/L	No	
Carbon Tetrachloride	24-May-16	<0.0002	mg/L	No	
Chlorpyrifos	24-May-16		-	No	
Diazinon	24-May-16	<0.001	mg/L	No	
Dicamba	24-May-16	<0.005	mg/L	No	
1,2-Dichlorobenzene	24-May-16			No	
1,4-Dichlorobenzene	24-May-16		-	No	
1,2-Dichloroethane	24-May-16	<0.0001	mg/L	No	
1,1-Dichloroethene (vinylidene chloride)	24-May-16		U.	No	
Dichlormethane	24-May-16	<0.0003	mg/L	No	
2,4-Dichlorophenol	24-May-16			No	
2,4-Dichlorophenoxyacetic acid (2,4-D)	24-May-16	<0.005	mg/L	No	
Diclofop-methyl	24-May-16	<0.0005	mg/L	No	
Dimethoate	24-May-16	<0.001	mg/L	No	
Diquat	24-May-16	<0.005	U .	No	
Diuron	24-May-16	<0.005	mg/L	No	
Glyphosate	24-May-16	<0.025	mg/L	No	
MCPA 2-Methyl-4-chlorophenoxyacetic Acid	24-May-16	<0.00012	mg/L	No	

Malathion	24-May-16	<0.005	mg/L	No
Metolachlor	24-May-16	<0.003		No
Metribuzin	24-May-16	<0.003	mg/L	No
Monochlorobenzene	24-May-16	<0.0002	mg/L	No
Paraquat	24-May-16	<0.001	mg/L	No
Pentachlorophenol	24-May-16	<0.0001	mg/L	No
Phorate	24-May-16	<0.0003	mg/L	No
Picloram	24-May-16	<0.005	mg/L	No
PolyChlorinated Biphenyls (PCB)	24-May-16	<0.00005	mg/L	No
Prometryne	24-May-16	<0.0001	mg/L	No
Simazine	24-May-16	<0.0005	mg/L	No
тнм	1-Sep-20	<0.006	mg/L	No
Terbufos	24-May-16	<0.0003	mg/L	No
Tetrachloroethylene	24-May-16	<0.0002	mg/L	No
2,3,4,6-Tetrachlorophenol	24-May-16	<0.0001	mg/L	No
Triallate	24-May-16	<0.01	mg/L	No
Trichloroethylene	24-May-16	<0.0001	mg/L	No
2,4,6-Trichlorophenol	24-May-16	<0.0001	mg/L	No
Trifluarlin	24-May-16	<0.0005	j	No
Vinyl Chloride	24-May-16	<0.0002	mg/L	No

Inorganic or Organic Parameter(s) that exceed half the standard prescribed in Schedule 2 of ODWQS:					
	Unit of				
Parameter	Result Value	Measure	Date of Sample	Notes:	
Sodium	39.4	mg/L	,	Bottled water has been made available.	