

Drinking-Water Systems Regulation O.Reg. 170/03

FOXBORO PUBLIC SCHOOL ANNUAL REPORT

Drinking water system number:	260013936
Drinking water system name:	Foxboro 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 served:	YES
Number of interested authorities you report to:	3
Copies provided of annual report to all interested authorities for each designated facility served:	YES
List all drinking water systems (if any) which receive all of their drinking water from your system:	Foxboro Public School and YMCA Kids Club-Foxboro Site (DWIS#5000021659)
Copies provided of annual report to all drinking water system owners to whom you provide all of its drinking water:	YES
Indicate method of notifying system users of annual report availability free of charge:	Website and Public Request

Description of Drinking Water System:

The Foxboro Public School drinking water system consists of one cistern, located in the east school yard and one drilled well, located in the southeast corner of the school yard. Both are equipped with a submersible pump that supplies the water to a mechanical room in the school. The cistern provides municipal potable water that is passed through dual parallel train cartridge filters and then through two UV disinfection units, a Trojan UV Max Model D and UV Max Pro 20. Prior to going to school it is re-chlorinated to ensure secondary disinfection (supplemental chlorination) is maintained. Chlorine residual is measured each day the school is open. The potable system is physically separate via a backflow prevention system that is checked on a regular basis, also there is a solenoid valve that shuts down flow of water in case of power outage or poor water quality as read by the UV sensor. The drilled well provides non-potable water. The pressure system and other miscellaneous pipes and fittings are located in the same room.

A service contract is in place with MacLellan Water Technologies to maintain the treatment systems.

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.

Drinking-Water Systems Regulation O.Reg. 170/03

Water treatment chemicals used over this reporting period:	
12% Sodium hypochlorite solution	
Significant Expenses incurred included (0=N/A, X=APPLICABLE):	
<input type="checkbox"/>	Install Required Equipment
<input checked="" type="checkbox"/>	Repair Required Equipment
<input checked="" type="checkbox"/>	Replace Required Equipment
Description and breakdown of monetary expenses incurred:	
April 1, 2020 - March 31, 2021	
Water system upgrades and replacements:	
Replacement - Solenoid connection kit	\$1,093.19
Routine system maintenance (Including service contracts):	
Regular maintenance includes monthly checks of the water treatment system. Where components are replaced as regular maintenance (ie filters), that cost is noted under upgrades/replacements/part repair. The costs for regular maintenance on water treatment equipment was :	
	\$5,246.19
Water sampling and analysis:	
The cost for microbiological and chemical water sampling by Greer Galloway and analytical fees was:	
	\$2,793.66
Staff Training:	
Costs for required training of staff under Ontario Regulation 170/03 was:	
	\$84.62

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				
	Number of samples	Range of E.Coli or Fecal Results (min-max)	Range of TC Results (min-max)	
Cistern	10	0-0	0-0	
Treated- Staff Kitchen	10	0-0	0-0	
Distribution	10	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	10	0.08 -0.62		
Chlorine	180	0.48 -1.57		

Drinking-Water Systems Regulation O.Reg. 170/03

Inorganic testing done during this reporting period or most recent sample results:					
Parameter		Sample Date	Result Value	Unit of Measure	Exceedance
Antimony		N/A		mg/L	No
Arsenic		N/A		mg/L	N/A
Barium		N/A		mg/L	N/A
Boron		N/A		mg/L	N/A
Cadmium		N/A		mg/L	N/A
Chromium		N/A		mg/L	N/A
*Lead	STANDING	30-Sep-20	0.00121	mg/L	No
	FLUSHED	30-Sep-20	0.00127	mg/L	No
Mercury		N/A		mg/L	N/A
Selenium		N/A		mg/L	N/A
Sodium		N/A		mg/L	N/A
Uranium		N/A		mg/L	N/A
Fluoride		N/A		mg/L	N/A
Nitrite - 4th quarter result		Mar-21	<0.1	mg/L	No
Nitrate - 4th quarter result		Mar-21	0.3	mg/L	No

Organic testing done during this reporting period or most recent sample results:					
Parameter		Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor		N/A		mg/L	N/A
Atrazine + N-dealkylated metabolites		N/A		mg/L	N/A
Azinphos-methyl		N/A		mg/L	N/A
Benzene		N/A		mg/L	N/A
Benzo(a)pyrene		N/A		mg/L	N/A
Bromoxynil		N/A		mg/L	N/A
Carbaryl		N/A		mg/L	N/A
Carbofuran		N/A		mg/L	N/A
Carbon Tetrachloride		N/A		mg/L	N/A
Chlorpyrifos		N/A		mg/L	N/A
Diazinon		N/A		mg/L	N/A
Dicamba		N/A		mg/L	N/A
1,2-Dichlorobenzene		N/A		mg/L	N/A
1,4-Dichlorobenzene		N/A		mg/L	N/A
1,2-Dichloroethane		N/A		mg/L	N/A
1,1-Dichloroethene (vinylidene chloride)		N/A		mg/L	N/A
Dichlormethane		N/A		mg/L	N/A
2,4-Dichlorophenol		N/A		mg/L	N/A
2,4-Dichlorophenoxyacetic acid (2,4-D)		N/A		mg/L	N/A
Diclofop-methyl		N/A		mg/L	N/A
Dimethoate		N/A		mg/L	N/A
Diquat		N/A		mg/L	N/A
Diuron		N/A		mg/L	N/A
Glyphosate		N/A		mg/L	N/A
MCPA 2-Methyl-4-chlorophenoxyacetic Acid		N/A		mg/L	N/A

Drinking-Water Systems Regulation O.Reg. 170/03

Malathion	N/A		mg/L	N/A
Metolachlor	N/A		mg/L	N/A
Metribuzin	N/A		mg/L	N/A
Monochlorobenzene	N/A		mg/L	N/A
Paraquat	N/A		mg/L	N/A
Pentachlorophenol	N/A		mg/L	N/A
Phorate	N/A		mg/L	N/A
Picloram	N/A		mg/L	N/A
PolyChlorinated Biphenyls (PCB)	N/A		mg/L	N/A
Prometryne	N/A		mg/L	N/A
Simazine	N/A		mg/L	N/A
THM	8-Sep-20	0.177	mg/L	No
Terbufos	N/A		mg/L	N/A
Tetrachloroethylene	N/A		mg/L	N/A
2,3,4,6-Tetrachlorophenol	N/A		mg/L	N/A
Triallate	N/A		mg/L	N/A
Trichloroethylene	N/A		mg/L	N/A
2,4,6-Trichlorophenol	N/A		mg/L	N/A
Trifluarlin	N/A		mg/L	N/A
Vinyl Chloride	N/A		mg/L	N/A

Inorganic or Organic Parameter(s) that exceed half the standard prescribed in Schedule 2 of ODWQS:				
Parameter	Result Value	Unit of Measure	Date of Sample	Notes:
THM - Voluntary Sampling	0.177	mg/L	8-Sep-20	Voluntary sampling