### **COE HILL PUBLIC SCHOOL ANNUAL REPORT**

Drinking water system number: 260013923

Drinking water system name: **Coe Hill 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, 2022 - March 31, 2023

Number of Designated Facilities Served: 1 YES

Copies provided of annual report to all designated facilities

served:

3 Number of interested authorities you report to:

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 Coe Hill Public School

their drinking water from your system:

Copies provided of annual report to all drinking water system

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 Coe Hill Public School drinking water system consists of one well, located south of the school along the western fenceline. A submersible pump supplies raw water to a mechanical room in the basement of the school. The water passes through a pressure tank initially and then passes a pre-chlorination injection point. The pre-chlorinated water passes through a 450-litre retention tank and then a flow meter prior to water conditioning. The water then passes through a water softener and an activated carbon filter. After carbon filtration the water passes through a 25-1 micron cartridge filter and then a 1-micron (absolute) cartridge filter. Primary disinfection is then provided by a Trojan UV max pro 20 followed by a solenoid valve that automatically shuts off water flow in the case of poor water quality or loss of power. The water is then passed by a post-chlorination injector prior to distribution to the school plumbing (supplemental chlorination). Chlorine residual is measured each day the school is open.

YES

A service contract is in place with OCWA (Ontario Clean Water Agency) 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 treatment 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	
x Replace Required Equipment	
<b>Description and breakdown of monetary expenses incurred:</b> April 1, 2022 - Marc	h 31, 2023
Water system upgrades and replacements:	
No major upgrades or replacements of equipment were completed during this year.	
	\$0.00
Routine system maintenance (Including service contracts):	
Regular maintenance includes monthly checks of the water treatment system by a service	
contractor and the minor repair/replacement of necessary parts/equipment(including cistern	I
maintenance). The costs, tax excluded, for regular maintenance on water treatment	
equipment was :	\$6,186.57
Water sampling and analysis:	
The cost for microbiological and chemical water sampling by Greer Galloway and analytical	
fees was:	\$4,911.39
Staff Training:	

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, 2022 - March 31, 2023

				Corrective
Incident Date	Parameter	Result	Corrective Action	action date
None.				

### Microbiological testing done under the Schedule 10, 11 or 12 of O.Reg 170/03:

Costs for required training of staff under Ontario Regulation 170/03 was:

April 1, 2022 - March 31, 2023

	Number of	Range of	Range of TC Results	
	samples	E.Coli or		
		Fecal		
		(min-max)	(min-max)	
Raw	13	0-0	0-0	
Treated- Staff Kitchen	22	0-0	0-0	
Distribution	22	0-0	0-0	

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

April 1, 2022 - March 31, 2023

	Number of Grab Samples	Range of Results
		(min-max)
Turbidity	22	0.09-0.28
Chlorine	224	0.12-0.44

\$304.62

Inorganic testing done during this reporting period or most recent sample results:					
		Result			
Parameter	Sample Date	Value	<b>Unit of Measure</b>	Exceedance	
Antimony	21-May-19	<0.0001	mg/L	No	
Arsenic	21-May-19	0.0001	mg/L	No	
Barium	21-May-19	<0.001	mg/L	No	
Boron	21-May-19	0.029	mg/L	No	
Cadmium	21-May-19	<0.00015	mg/L	No	
Chromium	21-May-19	<0.002	mg/L	No	
Fluoride	21-May-19	0.1	mg/L	No	
Lead - STANDING	30-Aug-22	0.111	mg/L	Yes	
Lead - FLUSHED	30-Aug-22	0.00365	mg/L	No	
Mercury	21-May-19	<0.00002	mg/L	No	
Nitrite	14-Mar-23	0.05	mg/L	No	
Nitrate	14-IVId1-25	4.2	mg/L	No	
Selenium	21-May-19	<0.001	mg/L	No	
Sodium	21-May-19	57.1	mg/L	Yes	
Uranium	21-May-19	0.00011	mg/L	No	

Organic testing done during this reporting period or most recent sample results:					
	Sample			Unit of	
Parameter	Date		Result Value	Measure	Exceedance
Alachlor	21-May-19	<	0.0003	mg/L	No
Atrazine + N-dealkylated metobolites	21-May-19	<	0.0005	mg/L	No
Azinphos-methyl	21-May-19	<	0.001	mg/L	No
Benzene	21-May-19	<	0.0005	mg/L	No
Benzo(a)pyrene	21-May-19	<	0.000006	mg/L	No
Bromoxynil	21-May-19	<	0.0005	mg/L	No
Carbaryl	21-May-19	<	0.003	mg/L	No
Carbofuran	21-May-19	<	0.001	mg/L	No
Carbon Tetrachloride	21-May-19	<	0.0002	mg/L	No
Chlorpyrifos	21-May-19	<	0.0005	mg/L	No
Diazinon	21-May-19	<	0.001	mg/L	No
Dicamba	21-May-19	<	0.01	mg/L	No
1,2-Dichlorobenzene	21-May-19	<	0.0005	mg/L	No
1,4-Dichlorobenzene	21-May-19	<	0.0005	mg/L	No
1,2-Dichloroethane	21-May-19	<	0.0005	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	21-May-19	<	0.0005	mg/L	No
Dichlormethane	21-May-19	<	0.005	mg/L	No
2,4-Dichlorophenol	21-May-19	<	0.0002	mg/L	No
2,4-Dichlorophenoxyacetic acid (2,4-D)	21-May-19	<	0.01	mg/L	No
Diclofop-methyl	21-May-19	<	0.0009	mg/L	No
Dimethoate	21-May-19	<	0.001	mg/L	No
Diquat	21-May-19	<	0.005	mg/L	No
Diuron	21-May-19	<	0.005	mg/L	No
Glyphosate	21-May-19	<	0.005	mg/L	No
Malathion	21-May-19	<	0.005	mg/L	No

2-Methyl-4-chlorophenoxyacetic acid (MCPA)	21-May-19	_	0.01	ma/l	No
	· · · · · ·			mg/L	
Metolachlor	21-May-19	<	0.003	mg/L	No
Metribuzin	21-May-19	<	0.003	mg/L	No
Monochlorobenzene	21-May-19	<	0.0005	mg/L	No
Paraquat	21-May-19	<	0.001	mg/L	No
Pentachlorophenol	21-May-19	<	0.0002	mg/L	No
Phorate	21-May-19	<	0.0003	mg/L	No
Picloram	21-May-19	<	0.015	mg/L	No
PolyChlorinated Biphenyls (PCB)	21-May-19	<	0.00005	mg/L	No
Prometryne	21-May-19	<	0.0001	mg/L	No
Simazine	21-May-19	<	0.0005	mg/L	No
Terbufos	21-May-19	<	0.0005	mg/L	No
Tetrachloroethylene	21-May-19	<	0.0005	mg/L	No
2,3,4,6-Tetrachlorophenol	21-May-19	<	0.0002	mg/L	No
Triallate	21-May-19	<	0.01	mg/L	No
Trichloroethylene	21-May-19	<	0.0005	mg/L	No
2,4,6-Trichlorophenol	21-May-19	<	0.0002	mg/L	No
Trifluarlin	21-May-19	<	0.0005	mg/L	No
Trihalomethanes (THM)	5-Oct-21		0.006	mg/L	No
Vinyl Chloride	21-May-19	<	0.0002	mg/L	No